FINAL WELL REPORT
ESSO AUSTRALIA PETROLEUM CO.
TERAKIHI No.1
GIPPSLAND BASIN
APRIL 1990

ATTACHMENT TO WCR VOL 1

TERAKIHI-1 W1025

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TERAKIHI No.1

GIPPSLAND BASIN

April 1990

by

EXPLORATION LOGGING Australia LTD.

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1. INTRODUCTION

A. Well and Rig Data

Operator:	ESSO Australia Ltd.
Well Name:	Terakihi No.1
Location:	Offshore Gippsland Basin, Bass Strait Victoria
Position:	Lat: 38° 30′ 20.70" South Long: 148° 32′ 43.23" East
Field:	Exploration
Permit:	VIC/P24
Rig:	Southseas "Southern Cross" Semi-submersible
RKB - MSL:	21 metres
RKB - SB:	424 metres
Spud Date:	30th March 1990
Total Depth:	3040 meters
Completion Date:	21 st April 1990
Completion Status:	Cased and suspended
Exlog Unit:	244, GEMDAS X
Crew - Gemdas:	M. Sale, D. Thornton, D. New, D. Marburger
Logging:	H. Naim, A. Thangam, M. Orr, D. Marburger
Tritium:	D. Rozendaal, G. Norton.

B. Prognosis

Terakihi-1 was a wildcat exploration well drilled 20.0 km to the west-north-west of the Mackerel platform in the Bass Strait by the semi-submersible drilling rig "Southern Cross". The well was programed to reach a total depth of 2971m (RKB) and to take 39 days from spud to the rig release date. The closest wells are Hapaku-1 (5.0 km to the south-south-east), Blackback-1 (5.0 km to south-east), Volador-1 (9.0 km to the north) and Mackerel-1, 9.0 km to the north.

Terakihi-1 was proposed to evaluate the hydrocarbon content of an erosional remnant mapped at the top of the Latrobe Group and sealed by the Lakes Entrance Formation. Thus, the primary targets were the top Latrobe sands.

Exploration Logging provided a Geological Engineering Monitoring and Data Acquisition System (GEMDAS) service from spud, with Formation Logging and Pressure Evaluation services on Terakihi No.1 from the start of the 12.25" hole at 1141m to total depth. Continuous evaluation of pressures and drilling progress from real time data will provide an aid in optimising drilling costs and ensure drilling continues with maximum safety to personnel, the well and equipment.

The operator was continuously advised as to the status of these analyses. The printouts and plots of the results and services are contained in the appendices of this report.

2. DRILLING AND ENGINEERING

a. Well History

Terakihi No.1 was spudded on the 30th March 1990 at 06:30 hours by the semi-submersible drilling rig "Southern Cross". All depths unless otherwise stated are in metres along hole below the RKB. RKB to mean sealevel was 21m and RKB to seafloor was 424 metres (sea depth 403 metres).

26" Hole Section : 424 to 551 metres.

After ballasting the rig to drilling depth, the TGB was run to the seafloor, due to a considerable angle, it was pulled and a section of 13.375" casing welded to it to aid in stability.

NB#1, a HTC R1 26" run with a 26" hole opener, spudded Terakihi No.1. This bit drilled to 551m, a distance of 127m in 3.3 hrs at an average rate of penetration of 38.5 m/hr. The drilling fluid was seawater with Hi Vis sweeps being circulated on each connection. At 551m the hole was swept with a 100 bbl Hi Vis pill, a survey dropped and the bit tripped to the seafloor. The bit was tripped back to bottom with no fill and a 250 bbl Hi Vis pill was spotted, three stands pulled and another 250 bbl Hi Vis pill spotted, and the bit pulled to run casing.

Casing (10 joints of 20", X52, 94 ppf) was run with the shoe set at 540m. The casing was cemented with 750 sx class "G" cement at 13.2 ppg followed by 600 sx class "G" cement with 1.15% CaCl at 15.8 ppg.

17.5" Hole Section: 551 - 1141 meters

After running the marine riser and BOP stack, the 17.5" BHA and NB#2, a HTC X3A, was run in the hole to the top of cement at 533m. The cement and shoe were drilled to 551m and new hole drilled to 1141m with no problems. At 1141m, bottoms-up was circulated, and a survey dropped (dev = 0.25° at 1141m). A 100 bbl Hi Vis slug was pumped around the hole to sweep the riser, and a slug pumped prior to pulling out of the hole to the shoe, where the survey barrel was retrieved. The bit was then run back to bottom with no fill being recorded. Bottoms-up was then circulated to condition the mud and a slug pumped prior to pulling out of the hole to run wireline logs. Wireline logs were then run (BHC-GR-Cal) without problems. The bit made 590m in 11.1 hrs (on-bottom) with an average rate of penetration of 53.2 m/hr, and was graded T2 B2 G0.

Casing (60 joints of K55, 54.5 lb/ft, 13.375") was then run with the shoe set at 1124m. The casing was cemented with 1000 sacks of class "G" cement at 15.8 ppg.

12.25" Hole Section: 1141 - 3040 meters

After testing the BOP's, NB#3, a Hycalog PDC DS40, was run in and drilled cement and the shoe track from 1100m. New hole was drilled to 1144m where bottoms-up was circulated and a leak-off test performed. With a gauge pressure of 1300 psi, this gave a fracture pressure of 16.0 ppg EMW.

Drilling continued with NB#3 from 1144m to 1214m where returns were circulated, a survey dropped (dev = 0.5°) and the bit tripped due to low rate of penetration. No overpull was recorded during the trip out. NB#3 drilled from 1141m to 1214m, a distance of 73m, in 5.7 hrs at an average rate of penetration of 12.4 m/hr and was graded 10% worn. The lithology was limestone grading to calcareous claystone.

NB#4, a HTC ATJ1 12.25" was run in the hole with no problems and no fill. Drilling continued at rates of penetration varying from 10 to 30 m/hr to 1774m where the bit was tripped due to high bit hours and a low rate of penetration, having drilled 560m in 33.9 hrs at an average rate of penetration of 16.5 m/hr. The bit was graded as T3 B3 G0. The lithology was limestone, occasionally grading to calcareous claystone. Tight hole was recorded on the trip out, with up to 80 klb overpull being recorded from most stands to the shoe.

RRB#3, a Hycalog PDC DS40 12.25" bit was run in with no problems. Drilling continued through the Gippsland Limestone to 2273m at rates of penetration ranging from 10 to 40 m/hr. At 2273m a Hi Vis pill was circulated, a survey dropped (misrun) and a 20 stand wiper trip made with no hole problems. Drilling then continued through the Gippsland Limestone at rates of penetration varying from 10 to 25 m/hr to 2475m where the rate of penetration increased to over 30 m/hr marking the top of the Lakes Entrance formation. At 2506m the Seawater-gel mud system was displaced with a KCl-Polymer mud system. Drilling continued through the calcareous claystones of the Lakes Entrance Formation at rates of penetration varying from 20 to 50 m/hr. At 2841m the rate of penetration increased to over 60 m/hr and a flow check was made at 2844m with no flow. This drilling break marked the top of the Latrobe Group, the primary target, and bottoms-up was circulated with a maximum gas of 16% (800 u) and C1-C5 being recorded. Based on this it was decided to core, and a wiper trip was made to the shoe with overpull of up to 100 klb being recorded from the interval 2776m - 2498m on the trip out. The bit was run back to bottom with no problems and bottoms-up circulated with a trip gas of 64u (1.28%) recorded. The bit was then pulled with no hole problems. RRB#3 drilled from 1774m-2844m, a distance of 1070m in 41.2 hrs (on-bottom), at rates of penetration varying from 10 to 60 m/hr and averaging 26 m/hr.

CB#1, a Christenson RC476 12.25" (rerun from a previous well and graded at 20% worn), and the core barrel were picked up and run in the hole with the interval 2830m - 2844m being reamed on the way in. Bottoms-up was circulated, the ball dropped, and Core-1 was cut from 2844m to 2862.5m (18.5m) in 1.4 hrs at an average rate of penetration of 13.2 m/hr. Tight hole was noted from the first two stands of the trip out with a maximum

overpull of 100 klb. It was not possible to pump a slug resulting in a wet trip. While breaking out the core barrel, it was discovered that the top joint of the inner fiberglass sleeve had become jammed in the outer barrel and had broken off at both the top and bottom. Both sleeves were layed down and 12.6m (68%) of sandstone recovered. As there were indications of hydrocarbons in the bottom of the core it was decided to continue coring.

The core barrel and RRCB#1 were run in the hole to 2805m and the interval 2805m - 2862.5m reamed with tight hole being noted at 2839m. Bottoms-up was circulated with a trip gas of 110 units (2.2%) and the ball dropped. When the ball seated the pump pressure surged to 2000+ psi before returning to normal. It is likely that the fiberglass sleeve was jammed against the outer barrel and that this pressure surge burst the sleeve. Core-2 was then cut from 2862.5m to 2881m, a distance of 18.5m, in 1.7 hrs at an average rate of penetration of 10.9 m/hr. Tight hole was again noted on the trip out and it was necessary to pick up the kelly and backream from 2881m - 2788m. This tight hole may have been due to cuttings packing off round the BHA as the annular velocities while coring were low. The core sleeves were layed down (the top sleeve was broken about 5m from the top) and 9.9m (53.5%) of sandstone recovered.

The BOP's were tested and NB#6, a Smith F27D, picked up and run in the hole to 2800m where the kelly was picked up and the interval 2800m -2881m reamed/washed to bottom. Drilling continued through the sandstones of the Latrobe Group at rates of penetration varying from 60 to 2 m/hr. The torque seen on this bit run was erratic and often very high and the bit had to be pulled up and worked back to bottom on many occasions. At 3040m TD was reached, bottoms-up circulated, and a 10 stand wiper trip made with only minor overpull being noted on the trip out. Bottoms-up was again circulated, a survey dropped (misrun) and the bit pulled to run logs. NB#5 drilled 159m in 15.4 hrs (on bottom) at an average rate of penetration of 10.3 m/hr.

Wireline logs were then run as follows:

Run 1:	DLL-MSFL-LDT-CNL-GR-Cal
Run 2:	RFT (10 pressure points, 1 sample)
Run 3:	RFT (Two samples)
Run 4:	BHC-GR-Cal
Run 5:	SHDT
Run 6:	WST
Run 7:	CST (Shot 30, recovered 27)

On the basis of core and log data it was decided to case and suspend the well and RRB#6 was picked up and run in the hole for a wiper trip. The interval 2995m-3040m was reamed/washed on the trip in and a 100 bbl Hi Vis pill circulated with common small, blocky to platy, cavings (possibly from the Latrobe Group) being noted on bottoms-up. The kelly was rat-holed and an attempt made to pull out of the hole. This was not possible due to the BHA packing off and the kelly picked up and a 200 bbl Hi Vis pill circulated. Common fresh platy cavings (also from the Latrobe Group) were noted on bottoms-up. The hole instability did not appear to be due to overpressuring as the

cavings were fairly small and were not curved. It is possible that the Latrobe Group siltstones are microfractured as this would produce the type of cavings seen. A wiper trip was then made to 2450m with the kelly being used to pump out singles over the interval 3010m - 2995m on the trip out and the same interval being reamed on the trip in. A 90 bbl 15.3 ppg pill was circulated and the bit pulled with the interval 3010m - 2995m being worked on the trip out.

Casing (222 joints of 9.625", N80, 47 lb/ft) was then run and cemented with the shoe at 3001m. The wellhead was then secured and the rig released.

B. Bit Optimisation

Bit performance was continuously monitored and the operator advised of cost performance, rate of penetration, torque and formation changes. Cost analysis was performed on the basis of bit cost, rig cost and an average tripping speed and are a guide only. A plot of the results and a bit record can be found in the attached appendices. No bits were pulled purely on a cost basis.

The 26" hole section was drilled with a Reed R1 (IADC 111), rerun from the previous well, a distance of 127m, in 3.3 hrs, at an average rate of penetration of 38.5 m/hr and was graded at T1 B1 G0 and could be rerun. The bit was pulled to run 20" casing.

The 17.5" hole section (a distance of 590m) was drilled with NB#2, a HTC X3A. The bit run was 11.1 hrs through argillaceous limestones of the Gippsland Limestone at an average rate of penetration was 53.2 m/hr. The bit was pulled to run 13.375" casing and was graded T2 B2 G0.

The 12.25" section was drilled with 1 tooth, 1 PDC bit (run twice), 1 rerun core bit (also run twice) and 1 insert tricone bit. This 1899m section was drilled in 99.3 hrs at an average rate of penetration of 19.1 m/hr.

NB#3 was a PDC DS40 12.25" bit which drilled the shoe and 73m of new formation in 5.7 hrs at an average rate of penetration of 12.8 m/hr. The bit was in good condition when pulled and the low rate of penetration may have been due to the formation (limestone) being too soft for this type of bit and it is suggested that this type of bit would be more suited to the slightly firmer mid-Gippsland Limestone.

NB#4, a HTC AT-J1 was then run and drilled from 1214m to 1774m, a distance of 560m, in 33.9 hrs at an average rate of penetration of 16.5 m/hr. The bit was pulled at 1774m due to a decrease in rate of penetration and high bit hours. This bit

suited the unabrasive limestone through which it drilled and was graded as T2 B4 G0.

RRB#3, a Hycalog DS-40 12.25" PDC bit was run next and drilled from 1774m to 2844m, a distance of 1070m in 41.2 hrs (on-bottom) at an average rate of penetration of 26.0 m/hr. While this bit was suited to the argillaceous limestones of the Gippsland Limestone and averaged over 23 m/hr it was ideal for the calcareous claystones of the Lakes Entrance Formation and drilled at an average of 34 m/hr through this formation. The bit was tripped at 2844m to cut core 1 and was 40% worn.
Cuttings seen during this bit run were generally of good quality although smaller than those produced by a conventional bit. The rates of penetration seen during this bit run were not as dependant on lithology as those from a conventional bit would have been. However there was still enough variation in the rate of penetration for this to be used to determine changing lithology while drilling, for example at the top of the Latrobe the rate of penetration increased from 30-40 m/hr in the claystones to over 60 m/hr in the sandstone.

A Christenson RC476 core bit was run next and cut Cores #1 and #2 from 2844m to 2881.0m (37.0m) in 3.1 hrs at an average rate of penetration of 11.9 m/hr with only. The bit, which was rerun from a previous well was graded as 20% worn prior to the start of coring and 45% at the end. Most of the bit wear appears to have been caused by cemented sands seen in the second core.

NB#6 was a Smith F27D and drilled through siltstones and abrasive sandstones of the Latrobe group and was pulled at 3040m (TD) to run logs. This bit drilled 159m in 15.4 hrs (on bottom) at an average rate of penetration of 10.3 m/hr. High and very erratic torque, frequently causing the rotary table to stall out was seen while drilling with this bit. Wireline logs indicated that this section of hole was exactly in-gauge and the torque may have been caused by the stabilizer hanging up in tight hole.

C. Hydraulics Optimisation.

Hydraulic analyses were provided for ESSO Australia on a daily basis and as required. Results of these analyses are provided on the daily Gemdas report and on selected hydraulic printouts in Appendix D.

The Southern Cross was equipped with two Oilwell A-1700PT triplex pumps (12" stroke) fitted with 6.5" liners to give a 5.00 gal/stk output at 97% efficiency for Terakihi No.1.

The 26" hole section was drilled with seawater and high-viscosity sweeps. This along with moderately high annular velocities, ensured adequate hole cleaning through this interval. The hole was displaced with high viscosity mud prior to running casing and the riser.

The 17.5" section was drilled with seawater and high-viscosity sweeps on every second connection with flow rates of around 950 gpm. These flow rates were sufficient, with the Hi Vis sweeps, to keep the hole clean but low enough to prevent any serious hole washout. As native low gravity drilling solids began to increase the mud density, the sand traps were dumped every connection and water was added constantly to maintain mud weights at around 9.3 ppg. Bit hydraulics through this section were generally good, with a jet impact force of 7.6 lb/sq" and a hydraulic power of 800 hp.

The 12.25" section to 2500m was drilled with seawater-gel mud system with native clays from the formation being used to maintain viscosity. At 2500m the mud system was converted, while drilling, to a KCl-Polymer mud and this system was used to TD. Mud weights increased from 9.2 ppg at 1144m to 9.5 by 1774m and then remaining at around 9.5 -9.6 ppg. to TD .

Moderately high flow rates (750 to 800 gpm) were used in this hole section (apart from while coring) giving annular velocities of 50 ft/min in the riser and 220 - 230 ft/min at the drill collars. These appeared to be sufficient to keep the hole clean as no fill was noted after trips. While coring flow rates were only 220 gpm, resulting in low annular velocities (only 14 ft/min in the riser) and hence inefficient cutting removal. This probably contributed to the cutting packing off round the BHA and the tight hole seen after each core. Critical velocities at the collars were estimated to be 300 ft/min with the seawater-gel mud and 400 ft/min (Power law model) with the KCl-Polymer mud. Thus the flow regime was probably laminar throughout the system and hence hole washouts were kept to a minimum. This was verified by carbide data which indicated that the hole above 2500m was either in-gauge or slightly undergauge but that below 2500m some washouts were occurring, mainly in the sands of the Latrobe Group.

Nozzles sizes and flow rates were chosen to give as near optimal bit hydraulics as possible while keeping the pump pressures below 3000 psi. On the first run with the PDC bit 3x13 and 2x15 nozzles were used resulting in a hp at the bit of only 3.7 hp/sq in. This comparatively low hp may have contributed in part to the low rate of penetration seen on this bit run. For the remainder of the 12.25" hole (apart from the cored interval) bit hydraulics were near optimal resulting in good penetration rates.

D. Borehole Condition

The borehole condition was monitored during drilling and tripping by observing the overpull or drag associated with tripping and connections which would indicate tight hole or other problems. Torque measurement was also utilised as an aid in bore hole analysis. Carbides were run periodically and the average open hole size for an interval calculated on the return

of the maximum gas peak. Wireline caliper logs were looked at to pin point major hole washouts occurred and to correlate these if possible with lithology.

No hole problems were seen while drilling either the 26" or 17.5" hole sections. Maximum deviation was 0.5° in the 26" hole and 0.25° in the 17.5" hole.

Hole problems in the 12.25" hole section above 2800m were generally restricted to tight hole, with up to 100 klb overpull, on the first trip through a newly drilled section. This was generally attributed to the slight hydrating and swelling of the clays in the Gippsland Limestone and Lakes Entrance Formations. On both trips out of the hole with the core barrel the BHA was initially packed off and up to 100 klb overpull was recorded. This was probably due to the low flow rates and annular velocities used while coring being insufficient to remove the cuttings and lost core from the hole.

Hole problems were also noted on the wiper trip after logging with the interval 2995m to 3040m was reamed/washed on the trip in. A 100 bbl Hi Vis pill was circulated at 3040m with common small blocky to platy cavings (from the Latrobe Group?) being noted on bottoms-up. The kelly was rat-holed and an attempt made to pull out of the hole. This was not possible due to the BHA packing off and the kelly picked up and a 200 bbl Hi Vis pill circulated. Common fresh platy cavings (also from the Latrobe Group) were noted on bottoms-up. The hole instability did not appear to be due to overpressuring as the cavings were fairly small and were not curved. It is possible that the Latrobe Group siltstones are microfractured as this would produce the type of cavings seen. A wiper trip was then made to 2450m with the kelly being used to pump out singles over the interval 3010m -2995m on the trip out and the same interval being reamed on the trip in. A 90 bbl 15.3 ppg pill was circulated and the bit pulled with the interval 3010m - 2995m being worked on the trip out.

Torque was often high and erratic while the PDC bit was being run. This was thought to be due to either the action of the cutting surfaces on the formation or the stabilizer hanging up in in gauge or rugose hole. From 2881m to 3040m very high, erratic, torque was recorded, frequently causing the rotary table to stall out necessatating the bit being pulled up and worked back to bottom. This tight hole may have been due to the stabilizer hanging up in in gauge hole however the nature of the cutting seen while circulating Hi Vis pills after logging indicates that the silstones of the Latrobe may be microfractured. If this were the case then the high torque may have been produced by the action of the bit on the fractures rather than the stabilizer.

Carbides run at 1525m, 1755m and 2206m indicated that the hole was undergauge with a minimum diameter of 10.8" at 1755m. Carbides and other lag data indicated that below 2200m the hole was washedout to a maximum of 13.0" at 2598m.

Hole deviation varied from 0.5° at 1214m to 2.75° at 1774m and 2844m to give a true vertical depth of 3038.26m at TD (3040m). No doglegs were present and no problems from keyseats etc were noted.

3. PRESSURE EVALUATION

A. Formation Fracture Pressure

Formation fracture pressures were calculated during drilling and recorded in the daily reports (Appendix C). Plotted data can be found in Appendix B (iii). Offset well data from Blackback No.1 was used in the calculation of an initial overburden gradient for the well. Once density data became available from logs the overburden gradient was recalculated and this data used to determine the final fracture gradient.

One formation integrity test was performed as follows:-

Hole Depth (m)	Hole Size	Casing Shoe (m)	Mud Dens (ppg)	Fracture Press EQMD(ppg) PSI
1144	12 "	1124	9.2	16.0 3062

Data from this test and the estimated overburden gradient was used to determine fracture pressures while drilling and the results of these calculations reported to the operator each morning or as required.

No significant downhole mud losses were recorded while drilling Terakihi No.1. The minimum estimated fracture pressure in the 12.25" hole section was 16.0 ppg EMW at the 13.375" casing shoe this was significantly higher than the maximum equivalent circulating density of 9.8 ppg and mud losses due to hydraulic fracturing were therefore considered unlikely.

B. Formation Pore Pressure

Formation pore pressure indicators were monitored on a continuous basis while drilling and pore pressure estimates were reported to the operator daily, or whenever significant variations were encountered. Plots of the relevant pore pressure indicators are available in Appendix B (iii).

The 26" hole was drilled with returns to the seafloor and therefore no meaningful pressure analysis is possible for this section (424m -551m).

Connection gas were encountered from 551m - 700m whilst drilling with 8.7 ppg mud indicating that the pore pressure may have increased slightly to 8.6 - 8.7 ppg EQMD, which is within the region expected from a salt water pressure gradient. The origin of this gas is thought to be from a biogenic window within the Gippsland Limestone. By 700m mud weight increased to 9.3 ppg and no connection gas was encountered. Other indicators suggest that the pore pressure gradient remained normal in the 17.5" hole.

Pore pressure through the 12.25" hole section appears to have remained normal at 8.5 ppg EMW. The most reliable pressure indicators through this section were gas values, which was

generally low, and cavings which were generally only minor. While trip gasses of up to 64u were recorded the peaks were fairly sharp and gas values quickly returned to normal after bottoms up. The tight hole seen on trips and while drilling below 2844m was attributed cuttings packing off round the BHA and to the stabilizer hanging up in gauge hole and was not an indicator of increasing pore pressure.

The Dxc plot was of little value below 1774m due to the use of a PDC bit this depth to the top Latrobe. Below 2881m a conventional insert bit was used and Dxc indicated a normal trend.

Flowline temperature was damped and unresponsive due to heat loss in the riser and pits and was of little value in pressure detection. A gradual warming trend was noted to 2880m where both temperature in and temperature out showed a trend reversal and from 2880m to 3040m temperatures decreased. However delta T remained constant and this trend reversal was attributed to a decreasing ambient temperature at this time.

RFT's were run through the Latrobe sands and indicated that the formation was normally pressured at 8.35 ppg EMW and indicated a maximum formation pressure of 4048 psi at 2868.5m to give an extrapolated bottom hole pressure of 4292.4 psi. The RFT data indicates a near freshwater gradient for this well and hence a lower than estimated normal formation pressure gradient.

4. GEOLOGY AND SHOWS

Lagged cuttings samples were collected at 10m intervals from 1144-2600m, and then at 5m intervals to TD. Spot samples were also taken on all gas peaks or on bottoms up from significant drilling breaks to aid in lithological identification. All regular samples were packaged by EXLOG personal and distributed as per Esso's requirements.

A FID total gas detector, FID chromatograph, CO_2 detector and H_2S sensor were used to analyze all formation gasses and the results shown on the mudlog. A fluoroscope was used to check for liquid hydrocarbons. Gas values down to the top Latrobe at 2840m were generally low and no shows were seen. At 2840m a drilling break was noted and bottoms-up were circulated at 2844m with 800u (16%) gas being recorded from bottoms up. No fluorescence was seen in the mud or cuttings but the presence of C1-C5 in the gas indicated the possible presence of oil and two cores were cut. Good shows were seen in the top of the first core with up to 90% bright yellow white fluorescence with good cut being recorded (see appendix D: Core Descriptions). Gas values below the cored interval were low indicating that this interval was water saturated. Log analysis indicated 15m of gross pay over the interval 2840m - 2855m.

All depths below RKB : RKB to Mean sea level 21m KB
RKB to Seabed 424m Gipps L. Lims
2475m LAKES ENTRANCE

Returns to seabed until 551 metres

551 to 1144 metres
NO SAMPLES REQUIRED

1144m to 1240metres
LIMESTONE: light to medium grey, calcarenite to calcsiltite, soft to firm occasionally moderately hard, trace forams with common fossil fragments. Minor trace pyrite, trace foraminifera.

1240 to 1450 metres
LIMESTONE: medium to light grey, occasionally off white to medium brown, calcsiltitic to occasionally calcarenitic, slightly to occasionally very argillaceous, common micro and macro fossil fragments, common foraminifera, rare carbonaceous flecks, soft to occasionally firm, subblocky.

1450 to 1850 metres
LIMESTONE: medium to light grey and light grey brown to occasionally medium brown, calcilutitic-calcisiltitic, trace to occasionally common calcarenite, moderately argillaceous in part, trace foraminifera and fossil fragments, rare carbonaceous flecks, soft to occasionally firm, sticky, subblocky.

1850 to 2200 metres
LIMESTONE: light olive grey to medium grey brown, calcilutitic to calcisiltitic, moderate to common calcarenite, argillaceous in part, trace foraminifera and glauconite, trace pyrite and

carbonaceous flecks, soft to occasionally moderately hard, blocky to subblocky.

2200 to 2480 metres
LIMESTONE: light to medium grey, occasionally dark grey brown, calcisiltitic, common calcarenite, moderately to very argillaceous in part, trace glauconite and foraminifera, rare pyrite and carbonaceous flecks, firm to moderately hard, blocky to occasionally subfissile.

2480 - 2510 metres
Shakers being bypassed, no samples.

2510 - 2650 metres
CALCAREOUS CLAYSTONE: very light grey to medium grey to light olive grey, very calcareous, trace foraminifera and glauconite, rare carbonaceous flecks, rare medium to coarse subrounded quartz grains, soft to firm, sticky in part.

2650 - 2840 metres
CALCAREOUS CLAYSTONE: medium grey to medium dark grey, soft to firm, occasionally moderately hard, very calcareous, silty in part, trace carbonaceous/coaly detritus, trace diseminated pyrite and foraminifera, occasional fine clear quartz grains, blocky to subfissile.

Top Latrobe Formation at 2840m (RKB)

2840 - 2856 metres
Core 1: 2844m - 2862.5m
SANDSTONE: off white to light grey, clear to medium grey grains, loose to friable, medium to conglomeratic, dominantly coarse to very coarse, poorly sorted, subangular to rounded, no cement or matrix, trace lithic grains, very good visual porosity.

SHOWS: *The sandstone has 70% to 90% bright yellow white fluorescence giving a fast streaming moderately bright cut fluorescence with a thick to thin ring residual. The core sample had a strong hydrocarbon odor.*

Note: Fluorescence only seen in the core samples. No fluorescence was seen in the cuttings samples.

2856 - 2881 metres
SANDSTONE: off white to medium grey, occasionally medium brown grey, clear to dark grey grains, loose to occasionally hard, fine to conglomeratic, dominantly fine and very coarse (bimodal), poorly sorted, subangular to dominantly rounded, trace to occasionally common dolomitic and siliceous cement, trace calcareous cement in part, nil to trace brown grey argillaceous matrix, trace to common lithic grains, trace carbonaceous detritus and mica, rare glauconite and pyrite, fair to very good visual porosity.

SHOWS: *The sandstone has trace to 10% dull white yellow to yellow green spotty fluorescence giving a very slow diffuse cut fluorescence and a very dull yellow green crush cut fluoresence with a faint thin ring residual. The core samples had a slight*

to moderate hydrocarbon odor.

Note: Fluorescence only seen in the core samples. No fluorescence was seen in the cuttings samples.

2881 - 2950 metres
SANDSTONE: very light to light grey, clear to dark grey grains, friable to moderately hard, coarse to very coarse, conglomeratic in part, poorly to moderately sorted, subrounded to rounded, trace siliceous and dolomitic cement, trace arenaceous matrix, trace pyrite and lithic grains, fair to good porosity, no fluorescence.

2950 - 3040 metres (TD)
SANDSTONE: off white to medium brown grey, friable to moderately hard, fine to occasionally medium, moderately sorted, subangular to subrounded, common siliceous cement, trace dolomite cement, trace to occasionally common pyrite, trace glauconite and mica, very poor to poor visual porosity, no fluorescence, interbedded with
SILTSTONE, medium grey to medium brown grey, very argillaceous, arenaceous in part, dolomitic in part, trace to common carbonaceous flecks, trace nodular pyrite and glauconite, moderately hard, blocky.

5. TESTING AND EVALUATION

A. Wireline Logs

The following is a summary of the logs run on Terakihi No.1:

Depth	Hole Size	Logs Run
1141	17.5"	Run 1: BHC-GR-CAL
3040	12.25"	Run 1: DLL-MSFL-CNL-LDL-GR-SP-CAL Run 2: RFT Pretests/sample Run 3: RFT Sampling Run 4: BHC-GR-CAL Run 5: SHDT Run 6: WST Run 7: CST (Shot 30, recover 27)

B. Coring

Two full hole cores were cut using fiberglass sleeves. On both cores the sleeve broke and became jammed in the outer barrel. The cores were cut as follows (see Appendix D, Core descriptions for detailed descriptions):

CORE No.1: 2844.0m - 2862.5m
CUT: 18.5m
RECOVERED: 12.6m (68%)
LITHOLOGY: 100% Sandstone with fair to good shows.

CORE No.2: 2862.5m - 2881.0m
CUT: 18.5m
RECOVERED: 9.9m (53.5%)
LITHOLOGY: 100% Sandstone with trace to poor shows.

C. Testing

No DST's or production tests were run. RFT's were run with the following recoverys.

RFT run 1 at 2841m: 3.1 m^3 of gas and 17.7 liters of foamy mid brown oil.

RFT run 2 at 2851m: 3.1 m^3 of gas and 17.7 liters of foamy mid brown oil. The second chamber was kept sealed for later analysis at reservoir pressure.

Gas analysis for these samples were as follows:
RFT 1

Sample 1 (2841m): Gas Analysis

	C1	C2	C3	iC4	nC4	C5	C6
ppm	580640	90440	33820	6200	6540	1440	trace
rel %	80.7	12.6	4.7	0.9	0.9	0.2	-

Total Gas was 92.3%

CO_2 was 0.2%

H_2S was 10 ppm

SG of the gas = 0.69

RFT 2

Sample 1 (2851m): Gas Analysis

	C1	C2	C3	iC4	nC4	C5	C6
ppm	595920	104720	37380	5952	6104	1547	trace
rel %	79.4	13.9	4.9	0.8	0.8	0.2	-

Total Gas was 92.8%

CO_2 was 0.2%

H_2S was 60 ppm

SG of the gas = 0.70

A comprehensive list of RFT pressures is given in Appendix 1. Table 6

6. DATA INVENTORY

The following were supplied to ESSO Australia ltd directly from the Southern Cross:

Weekly Geological and Engineering Report
Daily Hydraulics Printouts
Daily Engineering Reports
Formation Evaluation Log (supplied as required)

3 sets of washed and dried cuttings samples
1 set geochemical samples
1 set air dried bulk sample
Miscellaneous RFT fluid samples

At the end of the well all the Tritium equipment, including all unused consumables supplied by Esso, was packed up and returned to Esso.

During and at the completion of the well, six copies of a Final Well Report was compiled by Exlog personal. Five of these were forwarded to ESSO offices in Sydney and Sale. A copy was retained by Exlog in Perth. Exlog also retains at its Perth office copies of all data disks.

EXPLORATION LOGGING will use all reasonable diligence to maintain and store the listed information and items in a manner to reasonably prevent damage or loss. Provided, however, EXPLORATION LOGGING assumes no responsibility for the loss, damage or theft of the items or the information contained herein and shall not be liable to the operator in any such event, irrespective of cause, fault or the active or passive negligence of EXPLORATION LOGGING or its employees.

7. CONCLUSIONS

Terakihi No.1 was a wildcat exploration well drilled in VIC/P24, Bass Strait, by the semi-submersable drilling rig Southern Cross. The well was spudded on the 30 March 1990 and reached a Total Depth of 3040m on the 14th April 1990. A total of 6 bits (8 bit runs) were used to drill 2616m in 113.7 hrs (on bottom) at an average rate of penetration of 23.1 m/hr. Two 18.5m cores were cut, with Core-1 recovering 12.6m of sandstone with good shows, and Core-2 recovering 9.9m of sandstone with only minor shows.

The primary objective of the well was to evaluate the hydrocarbon content of an erosional remnant mapped at the top of the Latrobe Group and sealed by the Lakes Entrance Formation. This was achieved with 15m of gross pay being mapped in the Top Latrobe Group sand.

The normal pore pressure gradient was estimated as 8.5 ppg (fresh to brackish water) and all monitored pressure parameters indicated that the well was normally pressured throughout and no evidence of any overpressuring was seen. RFT's run in the top Latrobe sands indicated a formation pore pressure gradient of 8.35 ppg EMW.

The fracture pressure was estimated using leak off test data and the constant effective stress ratio method. Fracture pressures were always greater than both the mud hydrostatic and effective circulating density and no downhole mud losses due to hydraulic fracturing were noted.

APPENDICES

A. TABLES

Table	Contents
1	Casing and Cementing Data
2	Drilling Fluid Properties
3	Bit Data
4	Hydraulics Data
5	CST Headspace gas analysis
6	RFT pressure data.

Table 1.Casing and Cementing.

DEPTH metres	HOLE SIZE inches	CASING OD/ID	SHOE DEPTH metres	GRADE lb/ft	#JOINTS	CEMENTING
551	26"	20"/19.124"	540	X52 94	10	750 sx class "G" @ 13.2ppg with 2.5% gel and 600 sx class G with 1.15% CaCl at 15.8 ppg
1144	17.5"	13.375"/12.61"	1124	K55 54	60	1000 sx neat class "G" @ 15.8ppg
3040	12.25"	9.625/8.681	3001	N80 47	222	700 sx class "G" at 15.8 ppg

Table 2: Drilling Fluid Properties

Date	Time	Depth metres	MW ppg	Vis sec	PV/YP	Gel	Filt	fc	Sol %	Sand %	MBT	pH	Oil %	Cl ppm	Ca ppm
30/03	1200	551	8.9	100+	-	-	-	-	-	-	-	-	-	-	-
01/04	2330	596	8.7	28	3/1	1/1	-	-	1	tr	-	9.5	0	18000	2000
02/04	1000	943	9.4+	31	5/5	4/6	-	-	4	tr	-	9.5	0	15000	1200
02/04	2000	1141	9.4	38	7/19	12/18	-	-	6	tr	9	10.0	0	12000	600
04/04	2200	1144	9.2	40	8/40	16/17	-	-	4	tr	8	12.0	0	17500	1200
05/04	0845	1214	9.2+	42	6/18	11/14	-	-	8	tr	10	10.0	0	16000	1200
05/04	2215	1330	9.3	40	6/14	11/12	-	-	8	tr	10	10.0	0	16000	1240
06/04	1100	1490	9.4	32	6/16	10/12	-	-	9	tr	9	10.4	0	17000	1320
06/04	2200	1635	9.4+	32	6/13	11/12	-	-	9	tr	12	10.0	0	16000	1160
07/04	1100	1774	9.5	33	6/16	12/14	-	-	10	0.1	14	10.4	0	16000	1020
07/04	2130	1775	9.5	33	6/18	14/15	-	-	10	0.1	17	10.0	0	16000	920
08/04	1100	2010	9.5+	33	6/18	12/14	-	-	10	tr	14	10.4	0	16500	1000
08/04	2130	2205	9.5+	32	6/17	14/14	-	-	10	tr	13	10.0	0	17000	920
09/04	1030	2290	9.5+	32	6/16	12/14	-	-	10	tr	12	10.0	0	17000	980
09/04	2230	2470	9.5+	32	6/17	13/14	-	-	10	0.1	12	10.2	0	17000	1000
10/04	1200	2752	9.6	45	16/20	4/6	5.6	1	8	0.2	6	10.0	0	29000	220
10/04	2300	2844	9.5+	44	15/20	4/6	5.4	1	8	0.25	6	10.2	0	30000	240
11/04	1200	2844	9.5+	44	16/21	4/6	5.4	1	8	0.25	6	9.8	0	29000	240
11/04	2200	2844	9.5	45	16/20	4/6	5.0	1	8	0.25	7	9.5	0	29000	240
12/04	1200	2862	9.5	45	15/20	4/6	5.2	1	9	0.20	7	9.8	0	29000	220
12/04	2000	2862	9.5	44	15/20	4/6	5.4	1	9	0.25	7	9.8	0	30000	-
13/04	2200	2881	9.5	44	15/19	4/6	5.4	1	9	0.25	7	9.8	0	30000	240
14/04	1300	2953	9.5	44	15/19	4/6	4.8	1	9	0.25	7	9.6	0	32000	120
14/04	2300	3030	9.5	44	15/20	4/6	5.0	1	9	0.20	7	9.8	0	32000	120

Table 3. Bit Table

Bit #	Size ins	Type	IADC	Jets 32nds	Depth In	Bit m	Bit hrs	ROP avg	WOB klb	RPM	Torque avg-max	SPP (psi)	Grade T B G
RRB1	26	HTC R1	1 1 1	20,20,20	424	127	3.3	38.5	6	80-100	15-50	1000	
NB2	17.5	HTC X3A	1 1 4	18,18,16	551	590	11.1	53.2	10-35	120-130	250-350	2800	2 2 0
NB3	12.25	Hycalog DS40		3x13,1x15	1141	73	5.7	12.8	5-15	100-150	500-620	1700	10% worn
NB4	12.25	HTC AT-J1	1 1 6	16,16,16	1214	560	33.9	16.5	25-40	100-140	200-450	2800	3 3 0
RRB3	12.25	Hycalog DS40		2x13,12,15	1774	1070	41.2	26.0	5-20	90-160	200-750	2900	40% worn
CB1	12.25	Chris RC476		TFA=1 sq in	2844	18.5	1.4	13.2	5-10	80-100	200-550	550	20% worn
RRCB1	12.25	Chris RC476		TFA=1 sq in	2862.5	18.5	1.7	10.9	8-10	80-90	400-550	400	45% worn
NB6	12.25	Smith F27D	5 3 7	16,16,14	2881	159	15.4	10.3	40-45	80-100	350-750	2900	3 3 1

Table 4. Hydraulics Data

BIT #	DEPTH m	HOLE DIAM inch	NOZZLES 32nds"	MUD WT ppg	ECD ppg	PV/YP	FLOW RATE gpm	PRESSURE LOSSES lbs per sq.in Surf	Pipe	Ann	Bit	ANNULAR VELS feet per min Risr	Pipe	Coll	CRIT DC VEL fpm	AT THE BIT VEL f/s	HHP hp	IMP lbs	PUMP PRESSURE Bit %	Total Calc	Act
1	551	26	20,20,20	8.7	9.2	1/1	950	50	203	0	852	-	36	40	67	331	472	1417	85	1432	1000
2	780	17.5	18,18,16	8.7	9.1	3/1	940	352	639	1	1465	67	82	109	31	434	802	1835	56	2457	2620
2	1141	17.5	18,18,16	9.4	9.6	5/5	930	364	777	1	1562	70	81	108	117	430	848	1957	52	2704	3000
3	1150	12.25	3x13,2x15	9.2	9.5	8/40	793	571	476	51	957	59	144	225	591	341	443	1289	52	2055	1850
4	1349	12.25	16,16,16	9.3	9.4	6/14	782	674	594	18	1507	59	153	223	315	426	687	1603	55	2790	2750
4	1650	12.25	16,16,16	9.4+	9.5+	6/13	760	646	662	20	1443	50	149	216	298	414	640	1536	52	2771	2800
3.2	1800	12.25	3x13,14,15	9.5	9.6+	6/18	780	679	665	34	1184	51	153	222	367	375	539	1429	46	2562	2600
3.2	2235	12.25	3x13,14,15	9.5	9.7	6/17	796	709	811	41	1240	52	156	227	353	382	576	1496	43	2800	2700
3.2	2506	12.25	3x13,14,15	9.5	9.7	6/17	780	683	854	46	1190	51	153	222	353	375	542	1436	42	2772	2850
3.2	2844	12.25	3x13,14,15	9.5	9.7	5/20	800	715	1536	53	1252	52	157	228	390	384	584	1511	43	3557	2900
CB1	2850	12.25	TFA=1sq in	9.5	9.6	16/20	220	65	173	25	42	14	43	63	391	71	5	76	13	305	550
CB2	2865	12.25	TFA=1sq in	9.5	9.6	15/20	210	58	165	26	38	14	41	59	390	67	5	68	10	287	400
5	2881	12.25	16,16,14	9.5	9.6	15/19	680	532	1261	47	1377	45	134	194	377	403	548	1351	48	3216	2850
5	3040	12.25	16,16,14	9.5	9.6	15/20	675	522	1278	53	1349	44	132	192	390	399	531	1324	47	3201	2900

Table 5: CST gas analysis

Core No.	C1 %	C2 %	C3 %	iC4 %	nC4 %	C5 %
1	EMPTY					
2	0.0057	0.0031	0.0012	0.0000	0.0049	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	tr	0.0005	0.0009	0.0000	0.0006	-
8	0.0005	0.0010	0.0013	0.0000	0.0012	-
9	0.0005	0.0010	0.0013	0.0000	0.0010	-
10	0.0012	0.0031	0.0037	0.0003	0.0013	tr
11	0.0029	0.0053	0.0049	0.0006	0.0016	tr
12	0.0019	0.0030	0.0036	0.0006	0.0016	tr
13	0.0010	0.0018	0.0036	0.0012	0.0022	tr
14	-	-	-	-	-	-
15	tr	0.0006	0.0009	-	-	-
16	-	-	0.0010	0.0004	0.0010	tr
17	EMPTY					
18	-	-	-	-	-	-
19	0.0458	0.0107	0.0125	0.0018	0.0049	0.0016
20	0.0029	0.0101	0.0071	0.0025	0.0049	0.0021
21	0.0010	0.0071	0.0125	0.0022	0.0062	0.0029
22	0.0019	0.0036	0.0320	0.0186	0.0359	0.0362
23	0.0010	0.0059	0.0125	0.0037	0.0076	0.0033
24	tr	tr	0.0173	0.0155	0.0283	0.0240
25	EMPTY					
26	tr	tr	0.0062	0.0086	0.0152	0.0107
27	tr	0.0036	0.0231	0.0143	0.0294	0.0336
28	0.0019	0.0036	0.0080	0.0062	0.0076	0.0048
29	-	-	tr	tr	tr	-
30	-	-	-	-	-	-

Table 6: RFT Pressure Data.

RFT No 1 seat #	DEPTH (m) RKB	mSS	INITIAL HYDROSTATIC psi	gradient ppg	FORMATION PRESSURE psi	gradient ppg	COMMENTS
1/1p	2841	2820	4729	9.847	4017.55	8.366	Good perm.
1/2p	2847	2826	4738	9.845	4022.15	8.357	Good perm.
1/3p	2851	2830	4744	9.843	4025.70	8.353	Good perm.
1/4p	2854.5	2833.5	4751	9.846	4029.26	8.350	Good perm.
1/5p	2857	2836	4755.6	9.847	4031.98	8.348	Good perm.
1/6p	2860	2839	4761	9.847	4036.38	8.349	Good perm.
1/7p	2864	2843	4767	9.846	4041.78	8.348	Good perm.
1/8p	2868.5	2847.5	4774.6	9.846	4048.50	8.349	Good perm.
1/9s	2841	2820	4729.8	9.849	4017.65	8.366	Good perm.
1/10p	2842.5	2821.5	4732.9	9.840	4018.92	8.364	Good perm.
2/1s	2851	2830	4742	9.839	4026.30	8.354	Good perm.

B. DATA PLOTS

i. Drilling Data Pressure Plot 1:2500

PE 602108

PE602108

This is an enclosure indicator page.
The enclosure PE602108 is enclosed within the container PE903385 at this location in this document.

The enclosure PE602108 has the following characteristics:

ITEM_BARCODE	= PE602108
CONTAINER_BARCODE	= PE903385
NAME	= Drilling Data Pressure Log
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= WELL_LOG
DESCRIPTION	= Drilling Data Pressure Log, 1:2500, (enclosure from Final Well Report--attachment to WCR) for Terakihi-1
REMARKS	=
DATE_CREATED	=
DATE_RECEIVED	= 22/06/90
W_NO	= W1025
WELL_NAME	= Terakihi-1
CONTRACTOR	= EXLOG
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

ii. Temperature Data Pressure Plot - 1:2500

PE602109

PE602109

This is an enclosure indicator page.
The enclosure PE602109 is enclosed within the container PE903385 at this location in this document.

The enclosure PE602109 has the following characteristics:

ITEM_BARCODE	= PE602109
CONTAINER_BARCODE	= PE903385
NAME	= Terakihi 1 Temperature Analysis Log
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= WELL_LOG
DESCRIPTION	= Terakihi 1 Temperature Analysis Log, 1:2500, (enclosure from Final Well Report--attachment to WCR)
REMARKS	=
DATE_CREATED	=
DATE_RECEIVED	= 22/06/90
W_NO	= W1025
WELL_NAME	= Terakihi-1
CONTRACTOR	= EXLOG
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

iii. Pressure Evaluation Plot 1:5000

PE602110

PE602110

This is an enclosure indicator page.
The enclosure PE602110 is enclosed within the container PE903385 at this location in this document.

The enclosure PE602110 has the following characteristics:

ITEM_BARCODE	= PE602110
CONTAINER_BARCODE	= PE903385
NAME	= Pressure Gradient Analysis Plot
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= WELL_LOG
DESCRIPTION	= Pressure Gradient Analysis Plot, 1:5000, (enclosure from Final Well Report--attachment to WCR) for Terakihi-1
REMARKS	=
DATE_CREATED	=
DATE_RECEIVED	= 22/06/90
W_NO	= W1025
WELL_NAME	= Terakihi-1
CONTRACTOR	= EXLOG
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

iv. Drilling Data Printout

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 05:59 Date Apr 12 '90
Data Recorded at time 06:30 Date Mar 30 '90

E#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
† Spud Terakihi #1 at 0630 hrs on 30th March 1990.																							
RR8#1, HTC R1, with 3 X 20 jets, in tandem with a 26" hole opener.																							
4	0632	425.06	71.8	15.0	16.0	80	3.70	800	424.00	8.7	0.0	398	0	53.1	0.0	502	1.06	0.0	0.00	.51	.52	8.7	8.5 D†
5	0633	426.02	65.4	15.0	15.0	80	3.70	800	424.00	8.7	0.0	398	0	53.1	0.0	501	2.02	0.0	0.00	.51	.52	8.7	8.5 D†
6	0633	426.16	62.9	5.00	5.00	80	4.92	800	424.00	8.7	0.0	398	0	53.1	0.0	500	2.16	.0	0.00	.50	.51	8.7	8.5 D†
7	0635	427.02	127	5.00	5.00	80	6.38	800	424.00	8.7	0.0	398	0	53.1	0.0	508	3.02	.0	.00	.41	.41	8.8	8.5 D†
8	0636	427.91	75.1	15.0	15.0	80	6.08	800	424.00	8.7	0.0	398	0	53.1	0.0	516	3.91	.0	.00	.49	.49	8.8	8.5 D
9	0637	429.02	71.2	15.0	15.0	80	6.84	800	424.00	8.7	0.0	398	0	53.1	0.0	520	5.02	.0	.00	.51	.51	8.8	8.5 D
10	0637	430.00	59.1	15.0	15.0	80	6.63	800	424.00	8.7	0.0	398	0	53.1	0.0	521	6.00	.0	.00	.53	.54	8.8	8.5 D-
11	0639	431.00	8.18	15.0	15.0	80	6.35	800	424.00	8.7	0.0	404	0	53.1	0.0	527	7.00	.1	.01	.86	.86	8.8	8.5 D†
12	0639	432.00	18.3	15.0	15.0	80	6.35	800	425.00	8.7	0.0	409	0	53.1	0.0	528	8.00	.1	.01	.72	.73	8.8	8.5 D†
13	0640	433.00	22.1	15.0	15.0	80	6.35	800	426.00	8.7	0.0	412	0	53.1	0.0	528	9.00	.1	.01	.65	.66	8.8	8.5 D†
14	0640	434.00	56.2	15.0	15.0	80	6.35	800	427.00	8.7	0.0	412	0	53.1	0.0	527	10.0	.1	.01	.48	.49	8.8	8.5 D†
15	0643	435.30	89.3	15.0	15.0	80	6.35	800	428.30	8.7	0.0	398	0	53.1	0.0	528	11.3	.1	.02	.70	.71	8.9	8.5 D†
16	0653	436.08	25.5	15.0	15.0	80	2.18	500	429.08	8.7	0.0	429	0	53.1	0.0	525	12.1	.2	.03	.56	.56	8.9	8.5 D†
17	0653	437.07	298	15.0	15.0	80	5.39	500	430.07	8.7	0.0	433	0	53.1	0.0	524	13.1	.2	.03	.25	.26	8.9	8.5 D
18	0653	438.01	189	15.0	15.0	80	5.36	500	431.01	8.7	0.0	430	0	53.1	0.0	522	14.0	.2	.03	.32	.33	8.9	8.5 D
19	0656	439.01	25.1	15.0	15.0	80	5.02	500	432.01	8.7	0.0	398	0	53.1	0.0	509	15.0	.3	.03	.64	.64	9.0	8.5 D†
20	0657	440.00	42.5	15.0	15.0	80	4.84	500	433.00	8.7	0.0	398	0	53.1	0.0	510	16.0	.3	.03	.55	.55	9.0	8.5 D
21	0659	441.00	49.7	15.0	15.0	80	5.23	500	434.00	8.7	0.0	405	0	53.1	0.0	521	17.0	.3	.04	.53	.53	9.0	8.5 D-
22	0701	442.01	64.1	15.0	15.0	80	5.76	500	435.01	8.7	0.0	400	0	53.1	0.0	520	18.0	.4	.04	.50	.50	9.0	8.5 D†
23	0702	443.01	62.8	15.0	15.0	80	5.39	500	436.01	8.7	0.0	424	0	53.1	0.0	518	19.0	.4	.04	.49	.50	9.0	8.5 D
24	0706	444.00	39.2	15.0	15.0	80	4.93	500	437.00	8.7	0.0	270	0	53.1	0.0	523	20.0	.4	.05	.56	.56	9.1	8.5 D-
25	0714	445.02	113	15.0	15.0	80	2.26	500	438.02	8.7	0.0	243	0	53.1	0.0	517	21.0	.6	.06	.35	.35	9.1	8.5 D†
26	0716	446.01	58.2	15.0	15.0	80	3.75	500	439.01	8.7	0.0	315	0	14.7	0.0	490	22.0	.6	.06	.47	.48	9.1	8.5 D†
27	0718	447.01	57.0	15.0	15.0	80	3.58	500	440.01	8.7	0.0	310	0	14.7	0.0	477	23.0	.6	.07	.47	.47	9.1	8.5 D
28	0719	448.01	40.4	15.0	15.0	80	3.30	500	441.01	8.7	0.0	365	0	14.7	0.0	464	24.0	.6	.07	.52	.52	9.1	8.5 D
29	0720	449.01	62.6	15.0	15.0	80	4.00	750	442.01	8.7	0.0	397	0	14.7	0.0	455	25.0	.7	.07	.47	.47	9.1	8.5 D
30	0721	450.00	43.3	15.0	15.0	80	3.81	750	443.00	8.7	0.0	388	0	14.7	0.0	449	26.0	.7	.07	.51	.52	9.2	8.5 D
31	0723	451.02	48.2	15.0	15.0	80	4.19	750	444.02	8.7	0.0	394	0	14.7	0.0	447	27.0	.7	.07	.51	.51	9.2	8.5 D
32	0724	452.01	55.0	15.0	15.0	80	4.03	750	445.01	8.7	0.0	400	0	14.7	0.0	445	28.0	.7	.08	.48	.48	9.2	8.5 D
33	0725	453.01	48.0	15.0	15.0	80	4.15	750	446.01	8.7	0.0	408	0	14.7	0.0	443	29.0	.7	.08	.50	.51	9.2	8.5 D
34	0726	454.00	59.9	15.0	15.0	80	4.75	750	447.00	8.7	0.0	405	0	14.7	0.0	441	30.0	.8	.08	.48	.48	9.2	8.5 D
35	0736	455.01	27.8	15.0	15.0	80	2.24	750	448.01	8.7	0.0	399	0	14.7	0.0	521	31.0	.8	.08	.53	.53	9.3	8.5 D
36	0737	456.01	39.9	15.0	15.0	80	1.69	950	449.01	8.7	0.0	447	0	14.7	0.0	512	32.0	.8	.09	.46	.46	9.3	8.5 D
37	0738	457.01	40.4	15.0	15.0	80	1.74	950	450.01	8.7	0.0	461	0	14.8	0.0	509	33.0	.8	.09	.46	.46	9.3	8.5 D
38	0740	458.02	53.8	15.0	15.0	80	1.71	950	451.02	8.7	0.0	461	0	14.8	0.0	501	34.0	.9	.09	.42	.42	9.3	8.5 D
39	0741	459.00	57.5	15.0	15.0	80	2.16	950	452.00	8.7	0.0	461	0	14.8	0.0	500	35.0	.9	.09	.43	.43	9.3	8.5 D
40	0742	460.02	39.4	15.0	15.0	80	1.28	950	453.02	8.7	0.0	461	0	14.8	0.0	500	36.0	.9	.09	.44	.44	9.3	8.5 D
41	0743	461.00	62.9	15.0	15.0	80	1.20	950	454.00	8.7	0.0	463	0	14.8	0.0	501	37.0	.9	.10	.38	.38	9.4	8.5 D
42	0744	462.01	80.1	15.0	15.0	80	1.27	950	455.01	8.7	0.0	462	0	14.8	0.0	501	38.0	.9	.10	.35	.36	9.4	8.5 D
43	0745	463.00	50.6	15.0	15.0	80	1.03	950	456.00	8.7	0.0	460	0	14.8	0.0	502	39.0	1.0	.10	.40	.40	9.4	8.5 D
44	0747	464.04	32.0	15.0	15.0	80	1.64	1010	457.04	8.7	0.0	461	0	14.8	0.0	538	40.0	1.0	.10	.48	.48	9.4	8.5 D
45	0756	465.00	18.8	15.0	15.0	80	1.21	500	458.00	8.7	0.0	545	0	14.8	0.0	526	41.0	1.0	.10	.52	.53	9.4	8.5 D*
46	0758	466.01	52.2	15.0	15.0	80	1.04	500	459.01	8.7	0.0	551	0	14.8	0.0	508	42.0	1.0	.11	.39	.39	9.4	8.5 D
47	0759	467.02	46.7	15.0	15.0	80	1.65	500	460.02	8.7	0.0	552	0	14.8	0.0	499	43.0	1.1	.11	.43	.43	9.5	8.5 D
48	0800	468.01	46.8	15.0	15.0	80	2.51	500	461.01	8.7	0.0	550	0	14.8	0.0	495	44.0	1.1	.11	.46	.46	9.5	8.5 D
49	0801	469.01	52.7	15.0	15.0	80	2.70	500	462.01	8.7	0.0	554	0	14.8	0.0	489	45.0	1.1	.11	.45	.45	9.5	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 06:06 Date Apr 12 '90
Data Recorded at time 08:03 Date Mar 30 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
50	0803	470.01	40.9	15.0	15.0	80	2.33	500	424.00	8.7	0.0	561	0	14.8	0.0	495	46.0	1.1	.11	.47	.47	9.5	8.5ID
51	0805	471.00	33.1	15.0	15.0	80	2.47	500	424.00	8.7	0.0	518	0	14.8	0.0	502	47.0	1.1	.12	.50	.50	9.5	8.5ID
52	0806	472.01	38.5	15.0	15.0	80	2.61	940	424.00	8.7	0.0	469	0	14.8	0.0	495	48.0	1.2	.12	.48	.48	9.5	8.5ID
53	0807	473.02	48.0	15.0	15.0	80	2.10	940	424.00	8.7	0.0	469	0	14.8	0.0	491	49.0	1.2	.12	.44	.44	9.6	8.5ID
54	0818	474.00	15.7	15.0	15.0	80	2.15	920	460.00	8.7	0.0	396	0	14.8	0.0	565	50.0	1.3	.13	.62	.62	8.9	8.5ID↑
55	0818	475.01	69.2	15.0	15.0	80	4.97	930	460.00	8.7	0.0	450	0	14.8	0.0	561	51.0	1.3	.13	.48	.48	9.0	8.5ID
56	0819	476.00	60.1	15.0	15.0	80	4.17	940	460.00	8.7	0.0	461	0	14.8	0.0	558	52.0	1.3	.13	.48	.48	9.0	8.5ID
57	0820	477.02	91.2	15.0	15.0	80	4.26	940	460.00	8.7	0.0	463	0	14.8	0.0	556	53.0	1.3	.13	.42	.42	9.0	8.5ID
58	0821	478.01	114	15.0	15.0	80	4.42	940	460.00	8.7	0.0	464	0	14.8	0.0	555	54.0	1.3	.13	.39	.39	9.0	8.5ID
59	0822	479.01	50.3	15.0	15.0	80	3.80	950	460.00	8.7	0.0	465	0	14.8	0.0	548	55.0	1.3	.13	.50	.50	9.0	8.5ID
60	0822	480.00	114	15.0	15.0	80	3.62	950	460.00	8.7	0.0	465	0	14.8	0.0	544	56.0	1.3	.14	.38	.38	9.0	8.5ID
61	0823	481.01	54.1	15.0	15.0	80	2.71	950	460.00	8.7	0.0	465	0	14.8	0.0	535	57.0	1.4	.14	.46	.46	9.1	8.5ID
62	0824	482.00	81.0	15.0	15.0	80	2.78	950	460.00	8.7	0.0	466	0	14.8	0.0	522	58.0	1.4	.14	.41	.41	9.1	8.5ID-
63	0830	483.01	50.1	15.0	15.0	80	4.13	950	460.00	8.7	0.0	378	0	14.8	0.0	499	59.0	1.4	.14	.50	.50	9.1	8.5ID
64	0830	484.01	157	15.0	15.0	80	4.90	950	460.00	8.7	0.0	433	0	14.8	0.0	496	60.0	1.4	.14	.34	.34	9.1	8.5ID
65	0832	485.01	44.7	15.0	15.0	80	4.17	950	460.00	8.7	0.0	463	0	14.8	0.0	493	61.0	1.4	.14	.52	.52	9.1	8.5ID
66	0833	486.03	81.1	15.0	15.0	80	3.97	500	460.00	8.7	0.0	522	0	14.8	0.0	492	62.0	1.4	.14	.43	.43	9.1	8.5ID↑
67	0834	487.01	74.6	15.0	15.0	80	4.06	500	460.00	8.7	0.0	550	0	14.8	0.0	504	63.0	1.5	.15	.44	.44	9.2	8.5ID
68	0835	488.01	64.4	15.0	15.0	80	4.07	500	460.00	8.7	0.0	562	0	14.8	0.0	521	64.0	1.5	.15	.46	.46	9.2	8.5ID
69	0835	489.01	75.3	15.0	15.0	80	4.08	500	460.00	8.7	0.0	565	0	14.8	0.0	529	65.0	1.5	.15	.44	.44	9.2	8.5ID
70	0836	490.03	82.4	15.0	15.0	80	4.74	500	460.00	8.7	0.0	507	0	14.8	0.0	528	66.0	1.5	.15	.43	.43	9.2	8.5ID
71	0837	491.01	132	15.0	15.0	80	4.17	960	460.00	8.7	0.0	478	0	14.8	0.0	526	67.0	1.5	.15	.35	.36	9.2	8.5ID
72	0837	492.00	66.2	15.0	15.0	80	3.61	960	460.00	8.7	0.0	462	0	14.8	0.0	524	68.0	1.5	.15	.45	.45	9.2	8.5ID
73	0844	493.00	103	15.0	15.0	80	6.16	950	460.00	8.7	0.0	416	0	14.8	0.0	499	69.0	1.5	.15	.42	.42	9.3	8.5IDX
74	0845	494.02	49.2	15.0	15.0	80	4.85	950	460.00	8.7	0.0	454	0	14.8	0.0	478	70.0	1.6	.15	.51	.51	9.3	8.5ID
75	0846	495.01	50.3	15.0	15.0	80	4.92	950	460.00	8.7	0.0	456	0	14.8	0.0	487	71.0	1.6	.16	.51	.51	9.3	8.5ID
76	0847	496.00	52.5	15.0	15.0	80	5.10	950	460.00	8.7	0.0	456	0	14.8	0.0	491	72.0	1.6	.16	.50	.50	9.3	8.5ID-
77	0847	497.00	77.1	15.0	15.0	80	6.41	950	460.00	8.7	0.0	457	0	14.8	0.0	495	73.0	1.6	.16	.46	.46	9.3	8.5ID
78	0848	498.00	62.9	15.0	15.0	80	6.08	950	460.00	8.7	0.0	457	0	14.8	0.0	501	74.0	1.6	.16	.49	.49	9.3	8.5ID
79	0850	499.01	30.2	15.0	15.0	80	6.51	950	460.73	8.7	0.0	456	0	14.8	0.0	503	75.0	1.6	.16	.61	.61	9.3	8.5ID
80	0853	500.01	31.3	15.0	15.0	80	5.67	500	461.45	8.7	0.0	559	0	14.8	0.0	488	76.0	1.7	.17	.59	.59	9.3	8.5ID↑
81	0854	501.00	20.2	15.0	15.0	80	5.65	500	461.87	8.7	0.0	569	0	14.8	0.0	489	77.0	1.7	.17	.65	.65	9.4	8.5ID-
82	0855	502.00	31.1	15.0	15.0	80	6.09	500	462.55	8.7	0.0	572	0	14.8	0.0	488	78.0	1.7	.17	.60	.60	9.4	8.5ID
83	0856	503.02	32.1	15.0	15.0	80	6.71	500	462.72	8.7	0.0	572	0	14.8	0.0	488	79.0	1.7	.17	.60	.60	9.4	8.5ID-
84	0903	504.00	52.1	15.0	15.0	80	6.57	500	463.94	8.7	0.0	521	0	14.8	0.0	503	80.0	1.8	.18	.52	.52	9.4	8.5ID
85	0903	505.01	54.1	15.0	15.0	80	5.52	500	464.15	8.7	0.0	543	0	14.8	0.0	497	81.0	1.8	.18	.50	.50	9.4	8.5ID-
86	0905	506.01	39.7	15.0	15.0	80	5.06	500	464.87	8.7	0.0	552	0	14.8	0.0	481	82.0	1.8	.18	.54	.54	9.4	8.5ID
87	0906	507.01	45.1	15.0	15.0	80	5.28	500	465.56	8.7	0.0	555	0	14.8	0.0	465	83.0	1.9	.18	.52	.52	9.4	8.5ID
88	0907	508.00	57.8	15.0	15.0	80	5.60	500	466.07	8.7	0.0	554	0	14.8	0.0	461	84.0	1.9	.19	.49	.49	9.4	8.5ID
89	0909	509.00	41.4	15.0	15.0	80	4.45	500	466.85	8.7	0.0	555	0	14.8	0.0	473	85.0	1.9	.19	.52	.52	9.4	8.5ID
90	0910	510.01	48.7	15.0	15.0	80	4.64	500	467.45	8.7	0.0	554	0	14.8	0.0	496	86.0	1.9	.19	.50	.50	9.4	8.5ID
91	0911	511.01	40.0	15.0	15.0	80	3.78	500	468.22	8.7	0.0	551	0	14.8	0.0	518	87.0	2.0	.19	.51	.51	9.4	8.5ID
92	0913	512.00	29.3	15.0	15.0	80	3.66	500	469.24	8.7	0.0	554	0	14.8	0.0	500	88.0	2.0	.19	.55	.55	9.4	8.5ID
93	0922	513.00	42.4	15.0	15.0	80	4.85	500	507.12	8.7	0.0	538	0	14.8	0.0	468	89.0	2.1	.20	.56	.56	8.8	8.5IDX
94	0924	514.00	31.0	15.0	15.0	80	6.13	500	508.09	8.7	0.0	556	0	14.8	0.0	447	90.0	2.1	.21	.63	.63	8.8	8.5ID
95	0926	515.02	30.1	15.0	15.0	80	6.64	500	509.11	8.7	0.0	561	0	14.8	0.0	418	91.0	2.1	.21	.65	.65	8.8	8.5ID
96	0928	516.01	24.2	15.0	15.0	80	5.65	500	510.36	8.7	0.0	562	0	14.8	0.0	381	92.0	2.2	.21	.67	.67	8.8	8.5ID
97	0931	517.00	20.4	15.0	15.0	80	4.98	500	511.81	8.7	0.0	562	0	14.8	0.0	342	93.0	2.2	.22	.68	.68	8.8	8.5ID

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 06:13 Date Apr 12 '90
Data Recorded at time 09:34 Date Mar 30 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
98	0934	518.01	19.6	15.0	15.0	80	4.64	500	513.34	8.7	0.0	482	0	14.8	0.0	297	94.0	2.3	.22	.68	.68	8.8	8.5 D
99	0937	519.00	23.1	15.0	15.0	80	4.66	930	514.43	8.7	0.0	461	0	14.8	0.0	256	95.0	2.3	.22	.65	.65	8.8	8.5 D
100	0939	520.01	22.4	15.0	15.0	80	5.13	940	515.55	8.7	0.0	461	0	14.8	0.0	236	96.0	2.4	.23	.67	.67	8.8	8.5 D
101	0941	521.01	41.4	15.0	15.0	80	4.49	950	516.16	8.7	0.0	465	0	14.8	0.0	259	97.0	2.4	.23	.56	.56	8.8	8.5 D
102	0950	522.02	44.5	15.0	15.0	80	4.65	950	517.18	8.7	0.0	440	0	14.8	0.0	350	98.0	2.4	.23	.55	.55	8.8	8.5 DX
103	0951	523.00	43.5	15.0	15.0	80	4.95	950	517.74	8.7	0.0	459	0	14.8	0.0	322	99.0	2.4	.24	.56	.56	8.8	8.5 D
104	0953	524.00	30.6	15.0	15.0	80	5.01	960	518.54	8.7	0.0	459	0	14.8	0.0	322	100	2.5	.24	.62	.61	8.8	8.5 D
105	0955	525.01	30.6	15.0	15.0	80	5.12	960	519.39	8.7	0.0	460	0	14.8	0.0	324	101	2.5	.24	.62	.62	8.8	8.5 D
106	0957	526.00	33.2	15.0	15.0	80	4.22	960	520.12	8.7	0.0	460	0	14.8	0.0	328	102	2.5	.24	.59	.58	8.8	8.5 D
107	0958	527.01	40.7	15.0	15.0	80	4.27	960	520.75	8.7	0.0	460	0	14.8	0.0	330	103	2.6	.25	.56	.55	8.8	8.5 D
108	1000	528.00	38.8	15.0	15.0	80	4.36	960	521.38	8.7	0.0	451	0	14.8	0.0	332	104	2.6	.25	.56	.56	8.8	8.5 D
109	1001	529.01	49.8	15.0	15.0	80	4.41	960	521.85	8.7	0.0	453	0	14.8	0.0	333	105	2.6	.25	.53	.52	8.8	8.5 D
110	1004	530.00	30.4	15.0	15.0	80	3.60	500	522.76	8.7	0.0	548	0	14.8	0.0	386	106	2.6	.25	.58	.58	8.8	8.5 D†
111	1012	531.00	32.6	15.0	15.0	80	3.31	980	524.08	8.7	0.0	447	0	14.8	0.0	326	107	2.7	.26	.57	.56	8.8	8.5 DX
112	1014	532.00	24.3	15.0	15.0	80	2.61	980	525.10	8.7	0.0	463	0	14.8	0.0	255	108	2.7	.26	.59	.59	8.8	8.5 D
113	1015	533.01	63.0	15.0	15.0	80	3.53	980	525.49	8.7	0.0	461	0	14.8	0.0	245	109	2.7	.26	.47	.47	8.8	8.5 D
114	1017	534.01	49.1	15.0	15.0	80	2.93	980	526.02	8.7	0.0	462	0	14.8	0.0	231	110	2.8	.26	.49	.49	8.8	8.5 D
115	1018	535.01	42.3	15.0	15.0	80	2.75	980	526.62	8.7	0.0	463	0	14.8	0.0	232	111	2.8	.26	.51	.51	8.8	8.5 D
116	1019	536.01	49.6	15.0	15.0	80	2.60	980	527.15	8.7	0.0	463	0	14.8	0.0	264	112	2.8	.27	.48	.48	8.8	8.5 D
117	1021	537.00	27.6	15.0	15.0	80	3.07	980	528.06	8.7	0.0	464	0	14.8	0.0	318	113	2.8	.27	.58	.58	8.8	8.5 D
118	1023	538.00	39.8	15.0	15.0	80	4.03	980	528.67	8.7	0.0	464	0	14.8	0.0	311	114	2.9	.27	.55	.55	8.9	8.5 D
[illegible]	1025	539.00	30.2	15.0	15.0	80	3.19	980	529.51	8.7	0.0	463	0	14.8	0.0	302	115	2.9	.27	.57	.57	8.9	8.5 D
120	1026	540.02	39.7	15.0	15.0	80	3.10	980	530.15	8.7	0.0	464	0	14.8	0.0	296	116	2.9	.28	.53	.53	8.9	8.5 D
121	1033	541.01	47.2	15.0	15.0	80	3.57	500	530.47	8.7	0.0	463	0	14.8	0.0	284	117	3.0	.28	.51	.51	8.9	8.5 DX
122	1036	542.01	29.3	15.0	15.0	80	3.11	980	531.62	8.7	0.0	462	0	14.8	0.0	279	118	3.0	.28	.57	.57	8.9	8.5 D†
123	1038	543.02	47.4	15.0	15.0	80	2.95	980	532.15	8.7	0.0	461	0	14.8	0.0	281	119	3.0	.28	.50	.50	8.9	8.5 D
124	1039	544.01	41.1	15.0	15.0	80	1.73	990	532.71	8.7	0.0	461	0	14.8	0.0	282	120	3.0	.28	.48	.48	8.9	8.5 D
125	1041	545.01	35.6	15.0	15.0	80	2.31	990	533.44	8.7	0.0	464	0	14.8	0.0	280	121	3.1	.29	.52	.52	8.9	8.5 D
126	1042	546.01	40.0	15.0	15.0	80	2.60	990	534.05	8.7	0.0	464	0	14.8	0.0	282	122	3.1	.29	.51	.51	8.9	8.5 D
127	1044	547.00	33.4	15.0	15.0	80	2.56	990	534.90	8.7	0.0	464	0	14.9	0.0	281	123	3.1	.29	.54	.53	8.9	8.5 D
128	1046	548.00	25.6	15.0	15.0	80	2.41	990	536.08	8.7	0.0	463	0	14.9	0.0	279	124	3.1	.29	.57	.57	8.9	8.5 D
129	1048	549.01	30.9	15.0	15.0	80	2.03	990	537.31	8.7	0.0	902	0	14.9	0.0	280	125	3.2	.30	.53	.53	8.9	8.5 D
130	1059	550.01	14.5	15.0	15.0	80	2.12	980	542.53	8.7	0.0	920	0	14.9	0.0	289	126	3.3	.30	.64	.64	8.8	8.5 D
131	1107	551.00	3.53	15.0	15.0	80	4.25	1010	547.02	8.7	0.0	937	0	14.9	0.0	291	127	3.3	.31	.94	.94	8.8	8.5 D†

† Pump high-vis mud around hole prior to making a wiper trip to the sea-bed.
POOH at 551m to run 20" casing.
† NB#2, HTC X3A, with 2 X 18, 1 X 16 jets.
Date Apr 1 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
136	2147	552.01	41.2	203	247	73	16.1	2150	551.00	8.7	8.7	888	866	11.1	23.1	515	.93	0.0	0.00	.75	.75	8.7	8.5 D
137	2148	553.02	155	167	192	85	15.2	2250	551.00	8.7	8.7	889	877	11.1	23.1	516	1.99	0.0	0.00	.49	.49	8.7	8.5 D
138	2148	554.02	113	155	173	78	14.1	2490	551.00	8.7	8.7	906	922	11.1	23.1	516	2.99	0.0	0.00	.53	.53	8.8	8.5 D
139	2148	555.02	139	173	190	75	14.9	2500	551.00	8.7	8.7	935	939	11.1	23.1	515	3.98	0.0	0.00	.48	.49	8.8	8.5 D
140	2149	556.01	115	148	163	78	13.5	2500	551.00	8.7	8.7	960	951	11.1	23.1	515	4.97	0.0	0.00	.52	.52	8.8	8.5 D
141	2150	557.02	98.3	194	222	72	13.7	2370	551.00	8.7	8.7	964	938	11.1	23.1	514	6.00	.0	.00	.54	.54	8.8	8.5 D
142	2159	558.01	61.0	128	188	77	12.1	2290	551.00	8.7	8.7	861	885	11.1	23.0	538	6.99	.0	.00	.63	.63	8.8	8.5 D†
143	2200	559.03	112	215	286	67	14.2	2240	551.00	8.7	8.7	890	882	11.1	23.0	538	7.98	.0	.00	.50	.51	8.8	8.5 D
[illegible]4	2200	560.01	108	195	265	72	14.4	2240	551.00	8.7	8.7	898	903	11.1	23.0	538	8.96	.0	.00	.52	.53	8.9	8.5 D
145	2201	561.00	126	165	187	82	13.2	2240	551.00	8.7	8.7	901	906	11.1	23.0	539	9.97	.0	.00	.50	.51	8.9	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 06:19 Date Apr 12 '90
Data Recorded at time 22:02 Date Apr 1 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD IN lb/gal	MD OUT lb/gal	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	hr	EST TW	DXC	NXB	ECD	NXMD
146	2202	562.01	78.5	143	176	81	11.5	2240	551.00	8.7	8.7	901	888	11.1	23.0	539	11.0	.0	.00	.58	.58	8.9	8.5 D
147	2203	563.01	37.6	168	260	75	12.1	2350	551.00	8.7	8.7	919	909	11.1	23.0	539	12.0	.1	.01	.72	.72	8.9	8.5 D
148	2204	564.01	61.6	115	132	82	13.0	2360	551.00	8.7	8.7	926	918	11.0	23.0	539	13.0	.1	.01	.64	.65	8.9	8.5 D
149	2205	565.02	48.0	112	145	81	13.6	2440	551.00	8.7	8.7	944	936	11.0	23.0	538	14.0	.1	.01	.70	.70	8.9	8.5 D
150	2206	566.01	89.2	123	141	79	14.3	2450	551.00	8.7	8.7	944	947	11.0	23.0	538	15.0	.1	.01	.57	.58	8.9	8.5 D
151	2207	567.02	93.0	109	122	79	14.2	2440	551.00	8.7	8.7	949	954	11.0	23.0	537	16.0	.1	.01	.56	.57	9.0	8.5 D
152	2216	568.00	53.4	82.4	138	82	12.9	2310	551.00	8.7	8.7	900	901	11.0	23.0	537	17.0	.1	.01	.67	.67	9.0	8.5 D†
153	2216	569.01	106	133	147	87	8.33	2320	551.00	8.7	8.7	908	893	11.0	23.0	536	18.0	.2	.02	.50	.50	9.0	8.5 D-
154	2217	570.05	151	150	174	87	10.2	2320	551.00	8.7	8.7	913	903	11.0	23.0	537	19.0	.2	.02	.45	.45	9.0	8.5 D
155	2217	571.01	139	113	131	88	7.97	2320	551.00	8.7	8.7	916	908	11.0	23.0	535	20.0	.2	.02	.44	.45	9.0	8.5 D
156	2219	572.05	61.7	96.8	157	100	5.34	2320	551.00	8.7	8.7	918	919	11.0	23.0	537	21.0	.2	.02	.57	.57	9.0	8.5 D†
157	2219	573.02	123	126	166	112	6.82	2320	551.00	8.7	8.7	915	918	11.0	23.0	537	22.0	.2	.02	.49	.49	9.0	8.5 D
158	2220	574.04	76.9	116	172	114	6.75	2320	551.00	8.7	8.7	916	895	11.0	23.0	537	23.0	.2	.02	.58	.57	9.1	8.5 D
159	2221	575.01	106	135	151	116	8.99	2320	551.00	8.7	8.7	916	907	11.0	23.0	537	24.0	.2	.02	.55	.55	9.1	8.5 D
160	2221	576.02	88.0	120	150	117	8.27	2310	551.00	8.7	8.7	922	900	11.0	23.0	536	25.0	.2	.03	.58	.57	9.1	8.5 D
161	2222	577.01	73.6	115	153	117	7.37	2280	551.00	8.7	8.7	917	903	11.0	23.0	538	26.0	.2	.03	.59	.59	9.1	8.5 D
162	2233	578.00	133	121.5	160	105	9.70	2480	557.58	8.7	8.7	928	915	11.0	23.4	555	27.0	.2	.03	.50	.50	9.0	8.5 D†
163	2234	579.02	131	149	186	114	8.53	2480	558.17	8.7	8.7	940	932	11.1	23.3	557	28.0	.2	.03	.51	.50	9.0	8.5 D-
164	2234	580.02	103	123	165	115	7.36	2480	558.68	8.7	8.7	954	958	11.1	23.3	556	29.0	.3	.03	.54	.53	9.0	8.5 D
165	2237	581.01	53.1	95.5	119	116	5.38	2480	558.79	8.7	8.7	947	933	11.1	23.2	556	30.0	.3	.04	.62	.61	9.1	8.5 D†
166	2237	582.02	81.6	109	124	115	6.92	2480	559.35	8.7	8.7	946	932	11.1	23.2	555	31.0	.3	.04	.57	.57	9.1	8.5 D
167	2238	583.01	106	130	153	115	8.12	2500	560.30	8.7	8.7	947	926	11.1	23.2	555	32.0	.3	.04	.54	.54	9.1	8.5 D
168	2238	584.02	93.0	112	138	115	7.79	2620	561.67	8.7	8.7	964	971	11.1	23.2	555	33.0	.3	.04	.56	.56	9.1	8.5 D
169	2240	585.01	45.9	89.1	107	116	6.36	2610	563.54	8.7	8.7	969	948	11.1	23.2	554	34.0	.3	.05	.66	.66	9.0	8.5 D
170	2240	586.04	121	116	132	115	7.93	2620	563.66	8.7	8.7	970	955	11.1	23.2	555	35.0	.3	.05	.51	.51	9.1	8.5 D
171	2241	587.01	138	105	121	116	7.48	2610	563.97	8.7	8.7	969	948	11.1	23.1	554	36.0	.3	.05	.49	.48	9.1	8.5 D
172	2252	588.03	90.1	59.6	110	99	7.53	2600	569.43	8.7	8.7	960	954	11.2	23.6	503	37.0	.4	.05	.54	.54	9.0	8.5 D†
173	2253	589.01	61.8	100	117	96	5.36	2600	569.43	8.7	8.7	968	954	11.2	23.6	485	38.0	.4	.05	.56	.56	9.0	8.5 D
174	2254	590.01	107	118	140	98	6.92	2600	569.43	8.7	8.7	968	947	11.2	23.5	483	39.0	.4	.06	.50	.50	9.0	8.5 D
175	2255	591.02	101	114	136	98	6.84	2600	569.49	8.7	8.7	967	953	11.2	23.5	484	40.0	.4	.06	.50	.50	9.0	8.5 D
176	2256	592.01	53.0	104	133	97	6.46	2600	570.74	8.7	8.7	965	946	11.2	23.4	485	41.0	.4	.06	.61	.61	9.0	8.5 D
177	2256	593.04	107	117	128	95	7.24	2600	571.78	8.7	8.7	966	953	11.2	23.4	485	42.0	.4	.06	.49	.49	9.0	8.5 D
178	2257	594.00	71.8	89.9	112	101	5.67	2670	572.40	8.7	8.7	972	966	11.2	23.4	485	43.0	.4	.06	.55	.55	9.0	8.5 D
179	2258	595.01	47.4	91.2	118	100	5.80	2670	574.16	8.7	8.7	978	957	11.3	23.3	484	44.0	.4	.07	.62	.62	9.0	8.5 D
180	2259	596.03	149	93.5	117	98	6.27	2670	574.79	8.7	8.7	980	983	11.3	23.3	485	45.0	.5	.07	.43	.43	9.0	8.5 D
181	2259	597.00	66.2	84.3	105	98	6.11	2670	576.21	8.7	8.7	981	962	11.3	23.3	485	46.0	.5	.07	.57	.57	9.0	8.5 D
182	2325	598.00	199	81.4	114	113	5.96	1840	580.00	8.7	8.7	794	798	11.4	23.2	494	47.0	.7	.06	.40	.41	9.2	8.5 D†
183	2326	599.00	91.1	81.4	114	113	5.96	1840	582.00	8.7	8.7	795	788	11.4	23.2	494	48.0	.7	.06	.51	.52	9.2	8.5 D†
184	2326	600.00	41.2	81.4	114	113	5.96	1840	589.01	8.7	8.7	796	783	11.4	23.2	493	49.0	.7	.06	.64	.64	9.2	8.5 D†
185	2326	602.00	80.8	81.4	114	113	5.96	1850	590.00	8.7	8.7	796	783	11.4	23.2	494	51.0	.7	.06	.56	.56	9.2	8.5 D†
186	2326	604.00	113	81.4	114	113	5.96	1840	595.00	8.7	8.7	796	777	11.4	23.2	495	53.0	.7	.06	.56	.56	9.2	8.5 D†
187	2326	606.00	140	81.4	114	113	5.96	1840	596.00	8.7	8.7	797	790	11.4	23.2	494	55.0	.7	.06	.47	.47	9.2	8.5 D†
188	2326	607.00	89.6	81.4	114	113	5.96	1840	598.00	8.7	8.7	797	790	11.4	23.2	494	55.8	.8	.06	.45	.45	9.3	8.5 D†
189	2334	608.06	225	125	140	98	6.28	2110	599.00	8.7	8.7	835	831	11.4	23.9	489	57.0	.8	.06	.35	.35	9.3	8.5 D†
190	2334	609.02	171	117	143	98	6.45	2120	599.00	8.7	8.7	850	835	11.4	24.0	489	58.0	.8	.07	.42	.42	8.9	8.5 D
191	2335	610.02	97.2	95.3	116	98	5.50	2160	599.00	8.7	8.7	857	844	11.4	24.0	488	59.0	.8	.07	.50	.50	8.9	8.5 D
192	2336	611.00	54.7	104	136	114	5.89	2670	599.00	8.7	8.7	957	944	11.5	23.8	485	60.0	.8	.07	.63	.63	8.9	8.5 D
193	2336	612.01	155	128	168	114	8.19	2670	599.00	8.7	8.7	966	975	11.5	23.8	486	60.9	.8	.07	.48	.48	8.9	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 06:26 Date Apr 12 '90
Data Recorded at time 23:36 Date Apr 1 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
194	2336	613.02	218	143	160	114	9.44	2670	599.00	8.7	8.7	969	976	11.5	23.8	486	61.9	.9	.07	.43	.42	8.9	8.5 D
195	2337	614.01	186	112	132	115	7.42	2660	599.00	8.7	8.7	971	977	11.5	23.7	487	63.0	.9	.07	.44	.43	8.9	8.5 D
196	2338	615.02	64.9	88.8	105	116	6.18	2660	599.00	8.7	8.7	972	952	11.5	23.6	486	64.0	.9	.08	.61	.60	9.0	8.5 D
197	2340	616.03	22.0	93.0	167	115	7.78	2670	599.00	8.7	8.7	972	976	11.5	23.5	483	65.0	.9	.09	.83	.82	9.0	8.5 D
198	2351	617.01	72.9	10.0	16.0	81	7.78	480	600.71	8.7	8.7	394	385	11.5	24.1	506	66.0	.9	.09	.55	.55	8.9	8.5 D↑
199	2352	618.02	82.0	99.2	105	96	4.50	510	600.71	8.7	8.7	394	380	11.5	24.1	516	67.0	.9	.09	.51	.51	8.9	8.5 D↑
200	2354	619.03	47.8	92.7	115	98	4.97	2630	602.38	8.7	8.7	897	924	11.5	24.0	523	68.0	.9	.09	.61	.60	9.0	8.5 D
201	2354	620.00	161	120	139	101	7.42	2640	602.43	8.7	8.7	940	957	11.6	23.7	527	69.0	.9	.09	.44	.44	9.0	8.5 D
202	2354	621.04	174	117	134	99	7.52	2640	602.53	8.7	8.7	956	970	11.6	23.7	530	70.0	1.0	.09	.42	.42	9.0	8.5 D
203	2355	622.04	149	119	133	97	7.93	2650	602.64	8.7	8.7	964	952	11.6	23.7	530	71.0	1.0	.09	.45	.45	9.0	8.5 D
204	2355	623.03	120	103	135	99	7.32	2640	602.97	8.7	8.7	966	955	11.6	23.6	531	72.0	1.0	.09	.48	.48	9.0	8.5 D
205	2355	624.02	156	117	129	98	8.33	2640	603.21	8.7	8.7	971	955	11.6	23.6	530	72.9	1.0	.09	.45	.44	9.0	8.5 D
206	2356	625.01	147	119	135	94	8.09	2630	603.41	8.7	8.7	971	956	11.6	23.6	530	74.0	1.0	.09	.45	.44	9.0	8.5 D
	Date	Apr 2 '90																					
207	0004	626.07	141	86.5	139	96	7.39	2720	604.15	8.7	8.7	732	851	11.7	23.6	524	74.9	1.0	.09	.45	.45	9.0	8.5 D↑
208	0004	627.01	241	148	174	116	5.78	2730	604.28	8.7	8.7	838	907	11.7	23.6	524	76.0	1.0	.09	.37	.37	9.0	8.5 D
209	0006	628.00	61.8	104	133	116	4.58	2730	604.73	8.7	8.7	979	967	11.8	23.7	522	77.0	1.0	.10	.58	.57	9.1	8.5 D
210	0007	629.01	76.9	108	137	116	7.45	2730	604.73	8.7	8.7	983	962	11.8	23.7	524	78.0	1.0	.10	.59	.59	9.1	8.5 D
211	0007	630.01	109	107	129	116	7.91	2730	604.73	8.7	8.7	982	960	11.8	23.6	522	79.0	1.0	.10	.53	.53	9.1	8.5 D
212	0008	631.02	90.1	105	125	116	7.71	2730	604.73	8.7	8.7	981	960	11.8	23.6	522	80.0	1.0	.10	.56	.56	9.1	8.5 D
213	0009	632.02	40.6	93.4	119	116	7.39	2720	604.73	8.7	8.7	982	984	11.8	23.6	521	81.0	1.1	.11	.70	.69	9.1	8.5 D
[illegible]	0011	633.03	50.0	88.9	126	117	8.11	2720	604.73	8.7	8.7	982	960	11.8	23.5	521	82.0	1.1	.11	.67	.67	9.1	8.5 D
215	0011	634.03	106	93.9	122	116	8.76	2720	604.73	8.7	8.7	990	982	11.9	23.5	518	83.0	1.1	.11	.55	.54	9.1	8.5 D
216	0019	635.00	30.6	56.7	111	105	8.52	2720	604.73	8.7	8.7	925	941	11.9	23.8	513	84.0	1.1	.12	.75	.75	9.1	8.5 D↑
217	0019	636.05	306	122	131	114	5.11	2720	604.73	8.7	8.7	956	956	11.9	23.8	513	85.0	1.1	.12	.32	.31	9.1	8.5 D↑
218	0021	637.07	197	118	165	115	5.62	2720	604.73	8.7	8.7	976	967	11.9	23.7	509	86.0	1.1	.12	.39	.39	9.2	8.5 D↑
219	0021	638.03	109	106	149	115	6.47	2720	605.17	8.7	8.7	978	959	11.9	23.6	507	87.0	1.1	.12	.50	.50	9.2	8.5 D
220	0022	639.02	119	108	128	115	7.38	2730	606.52	8.7	8.7	978	969	11.9	23.6	508	88.0	1.1	.12	.50	.50	9.2	8.5 D
221	0022	640.02	123	100	112	115	7.42	2730	607.35	8.7	8.7	977	956	11.9	23.6	509	89.0	1.1	.12	.50	.49	9.2	8.5 D-
222	0023	641.05	84.4	106	126	115	7.43	2720	607.98	8.7	8.7	977	963	11.9	23.6	507	90.0	1.2	.12	.56	.56	9.2	8.5 D
223	0024	642.01	86.8	102	125	115	6.98	2720	608.71	8.7	8.7	982	961	11.9	23.6	505	91.0	1.2	.13	.55	.55	9.2	8.5 D
224	0025	643.05	49.5	128	157	115	7.40	2720	611.74	8.7	8.7	977	980	11.9	23.5	507	92.0	1.2	.13	.66	.65	9.2	8.5 D
225	0032	644.00	104	81.0	147	113	8.83	2690	613.33	8.7	8.7	900	941	11.8	24.2	497	93.0	1.2	.13	.54	.54	9.2	8.5 D↑
226	0032	645.02	122	122	150	97	4.00	2690	613.39	8.7	8.7	949	948	11.8	24.2	498	94.0	1.2	.13	.42	.42	9.2	8.5 D
227	0033	646.00	63.5	111	127	96	3.76	2690	613.72	8.7	8.7	965	959	11.8	24.1	497	95.0	1.2	.13	.52	.51	9.2	8.5 D-
228	0034	647.01	59.7	102	117	97	3.43	2690	614.10	8.7	8.7	968	954	11.8	23.9	497	96.0	1.2	.13	.52	.52	9.2	8.5 D
229	0035	648.01	61.4	103	121	93	3.11	2690	614.48	8.7	8.7	970	975	11.8	23.8	498	97.0	1.2	.14	.50	.50	9.2	8.5 D
230	0036	649.05	66.2	143	181	96	3.56	2690	615.43	8.7	8.7	968	948	11.8	23.8	496	98.0	1.2	.14	.50	.50	9.2	8.5 D
231	0037	650.01	43.0	121	165	99	3.43	2690	618.80	8.7	8.7	970	956	11.8	23.7	494	99.0	1.3	.14	.57	.57	9.2	8.5 D
232	0038	651.00	66.9	141	173	95	4.91	2700	620.72	8.7	8.7	971	950	11.8	23.7	493	100	1.3	.14	.53	.53	9.1	8.5 D
233	0040	652.01	31.8	120	165	94	5.16	2690	624.51	8.7	8.7	969	955	11.8	23.6	493	101	1.3	.15	.66	.66	9.1	8.5 D
234	0041	653.00	56.1	97.9	115	97	6.02	2690	624.88	8.7	8.7	968	959	11.8	23.6	489	102	1.3	.15	.59	.58	9.1	8.5 D
235	0055	654.00	37.2	76.2	113	90	5.82	2740	628.29	8.7	8.7	936	966	11.8	23.5	477	103	1.3	.15	.64	.64	9.1	8.5 D↑
236	0055	655.02	82.7	101	115	115	6.89	2740	629.65	8.7	8.7	973	980	11.8	23.5	475	104	1.4	.15	.57	.56	9.1	8.5 D
237	0056	656.03	59.4	144	170	114	7.42	2740	630.66	8.7	8.7	979	968	11.9	23.4	473	105	1.4	.16	.63	.63	9.1	8.5 D
238	0057	657.04	115	149	168	114	8.10	2740	631.04	8.7	8.7	982	973	11.9	23.4	472	106	1.4	.16	.52	.52	9.1	8.5 D
[illegible]	0058	658.05	82.1	157	182	115	7.45	2740	631.66	8.7	8.7	981	983	11.9	23.4	471	107	1.4	.16	.57	.57	9.1	8.5 D
[illegible]	0058	659.01	112	167	187	113	8.74	2740	632.13	8.7	8.7	977	955	11.9	23.4	471	108	1.4	.16	.53	.53	9.1	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 06:32 Date Apr 12 '90
Data Recorded at time 00:59 Date Apr 2 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	hr	EST TW	DXC	NXB	ECD	NXMD
241	0059	660.00	84.2	147	168	115	8.63	2740	633.12	8.7	8.7	978	965	11.9	23.4	471	109	1.4	.16	.59	.58	9.1	8.5 D
242	0100	661.01	45.3	133	148	114	7.68	2740	633.83	8.7	8.7	983	967	11.9	23.4	469	110	1.4	.17	.68	.68	9.1	8.5 D
243	0101	662.01	37.5	148	173	115	8.06	2740	635.70	8.7	8.7	979	964	11.9	23.4	466	111	1.5	.17	.72	.72	9.1	8.5 D
244	0102	663.03	107	176	186	113	10.3	2740	635.70	8.7	8.7	978	981	11.9	23.4	466	112	1.5	.17	.56	.55	9.1	8.5 D
245	0102	664.01	96.7	127	171	98	10.0	2680	636.58	8.7	8.7	984	970	11.9	23.4	470	113	1.5	.17	.55	.54	9.1	8.5 D
246	0110	665.02	82.1	112	148	97	9.35	2710	638.72	8.7	8.7	929	944	11.9	23.5	490	114	1.5	.17	.57	.57	9.1	8.5 D†
247	0110	666.01	147	152	170	114	7.75	2710	639.23	8.7	8.7	959	973	11.9	23.5	494	115	1.5	.18	.47	.47	9.1	8.5 D
248	0111	667.02	80.6	153	166	115	7.32	2720	640.03	8.7	8.7	976	984	12.0	23.5	502	116	1.5	.18	.58	.57	9.1	8.5 D
249	0113	668.01	39.8	154	178	97	6.42	2770	642.11	8.7	8.7	977	967	12.0	23.4	503	117	1.5	.18	.66	.65	9.1	8.5 D
250	0113	669.02	108	155	163	95	8.03	2770	642.59	8.7	8.7	976	964	12.0	23.4	504	118	1.5	.18	.50	.50	9.1	8.5 D
251	0114	670.01	53.7	144	169	95	7.03	2770	643.78	8.7	8.7	979	959	12.0	23.4	501	119	1.6	.18	.61	.61	9.1	8.5 D
252	0116	671.04	49.5	157	184	96	9.36	2770	644.03	8.7	8.7	980	983	12.0	23.4	499	120	1.6	.19	.66	.66	9.1	8.5 D
253	0116	672.00	149	165	181	95	9.93	2770	644.16	8.7	8.7	980	966	12.0	23.4	498	121	1.6	.19	.46	.46	9.1	8.5 D
254	0117	673.01	61.5	151	174	95	8.67	2770	645.02	8.7	8.7	978	982	11.9	23.4	496	122	1.6	.19	.61	.61	9.1	8.5 D
255	0125	674.02	33.4	118	178	100	6.55	2730	648.77	8.7	8.7	967	962	11.9	23.4	489	123	1.6	.19	.70	.69	9.1	8.5 D†
256	0126	675.01	60.7	115	154	116	4.61	2730	649.69	8.7	8.7	969	972	11.9	23.4	489	124	1.6	.20	.58	.57	9.1	8.5 D
257	0127	676.01	115	148	171	114	5.21	2730	650.21	8.7	8.7	969	974	11.9	23.3	488	125	1.7	.20	.48	.48	9.1	8.5 D
258	0128	677.01	55.0	148	175	115	3.25	2730	651.06	8.7	8.7	971	975	11.9	23.3	487	126	1.7	.20	.56	.55	9.1	8.5 D
259	0129	678.02	53.3	149	175	115	5.34	2730	651.87	8.7	8.7	971	974	11.9	23.3	489	127	1.7	.20	.61	.61	9.1	8.5 D
260	0130	679.03	54.6	160	175	114	7.52	2730	652.83	8.7	8.7	966	952	11.9	23.3	486	128	1.7	.21	.65	.64	9.1	8.5 D
261	0131	680.01	50.3	147	160	114	6.91	2730	653.33	8.7	8.7	967	954	11.8	23.3	484	129	1.7	.21	.65	.65	9.1	8.5 D
262	0133	681.01	42.4	160	186	114	8.06	2720	653.64	8.7	8.7	969	955	11.8	23.3	482	130	1.8	.21	.70	.69	9.1	8.5 D
263	0134	682.00	45.5	163	197	114	9.04	2730	654.38	8.7	8.7	968	974	11.8	23.3	484	131	1.8	.22	.70	.70	9.1	8.5 D
264	0135	683.01	72.9	132	180	100	9.94	2730	655.40	8.7	8.7	968	947	11.8	23.3	484	132	1.8	.22	.60	.60	9.1	8.5 D
265	0142	684.01	88.2	125	161	95	9.98	2780	658.75	8.7	8.7	956	948	11.8	23.3	477	133	1.8	.22	.56	.56	9.1	8.5 D†
266	0142	685.01	78.4	119	143	115	9.00	2780	659.91	8.7	8.7	972	959	11.8	23.3	475	134	1.8	.22	.61	.60	9.1	8.5 D
267	0143	686.00	61.1	116	135	115	9.15	1100	660.65	8.7	8.7	950	875	11.8	23.3	477	135	1.8	.22	.65	.65	9.1	8.5 D
268	0144	687.01	63.9	135	168	114	10.1	1000	661.05	8.7	8.7	642	578	11.8	23.3	479	136	1.8	.23	.66	.65	9.1	8.5 D
269	0146	688.03	43.6	119	155	114	9.64	990	661.80	8.7	8.7	565	544	11.8	23.3	479	137	1.9	.23	.72	.72	9.1	8.5 D
270	0146	689.04	75.6	139	166	115	10.8	1000	662.55	8.7	8.7	564	543	11.8	23.3	478	138	1.9	.23	.64	.63	9.1	8.5 D
271	0147	690.00	52.1	140	167	114	11.9	880	663.41	8.7	8.7	565	551	11.8	23.3	477	139	1.9	.24	.72	.71	9.1	8.5 D
272	0150	691.01	27.8	116	166	114	11.2	2730	663.90	8.7	8.7	891	916	11.8	23.3	470	140	1.9	.24	.83	.82	9.1	8.5 D
273	0151	692.00	56.1	119	146	115	12.6	2730	665.43	8.7	8.7	959	965	11.8	23.3	468	141	2.0	.25	.71	.71	9.1	8.5 D
274	0200	693.03	49.2	110	148	74	13.9	420	667.29	8.7	8.7	337	317	11.8	23.3	482	142	2.0	.25	.67	.67	9.0	8.5 D*
275	0204	694.00	71.0	100	115	97	9.17	570	668.26	8.7	8.7	408	413	11.9	23.3	498	143	2.0	.25	.60	.59	9.1	8.5 D†
276	0207	695.01	22.1	91.2	120	95	8.77	2810	670.03	8.7	8.7	962	977	11.9	23.3	512	144	2.1	.26	.80	.80	9.1	8.5 D
277	0209	696.02	33.8	93.6	114	97	10.3	2780	672.50	8.7	8.7	976	952	11.9	23.3	514	145	2.1	.26	.75	.75	9.0	8.5 D
278	0211	697.03	33.1	100	132	97	11.7	2760	672.98	8.7	8.7	967	945	12.0	23.3	513	146	2.1	.26	.78	.77	9.0	8.5 D
279	0212	698.01	47.8	119	149	97	13.2	2750	673.05	8.7	8.7	969	955	12.0	23.3	512	147	2.1	.27	.72	.72	9.1	8.5 D
280	0213	699.00	47.1	117	146	98	14.5	2750	673.82	8.7	8.7	967	953	12.0	23.3	511	148	2.2	.27	.74	.73	9.1	8.5 D
281	0215	700.02	43.3	109	130	94	14.4	2660	675.72	8.7	8.7	953	938	12.0	23.3	510	149	2.2	.27	.75	.74	9.0	8.5 D
282	0215	701.02	62.8	109	135	98	14.6	2610	676.36	8.7	8.7	950	927	12.0	23.3	509	150	2.2	.28	.68	.68	9.0	8.5 D
283	0217	702.01	32.1	104	128	92	14.6	2620	677.89	8.7	8.7	942	921	12.0	23.3	507	151	2.2	.28	.81	.80	9.0	8.5 D
284	0226	703.03	49.5	127	189	82	14.4	2530	680.55	8.7	8.7	914	901	12.1	23.4	503	152	2.3	.28	.70	.69	9.0	8.5 D†
285	0227	704.01	54.5	147	169	116	12.9	2530	681.29	8.7	8.7	921	901	12.1	23.4	503	153	2.3	.28	.73	.72	9.0	8.5 D
286	0228	705.02	57.2	133	152	117	12.7	2530	682.30	8.7	8.7	927	904	12.1	23.4	502	154	2.3	.29	.72	.71	9.0	8.5 D
287	0229	706.02	72.5	130	152	117	12.7	2530	682.75	8.7	8.7	923	914	12.1	23.4	501	155	2.3	.29	.67	.66	9.0	8.5 D
288	0230	707.02	32.3	115	165	117	12.5	2540	683.50	8.7	8.7	924	908	12.1	23.4	500	156	2.3	.29	.83	.82	9.0	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 06:39 Date Apr 12 '90
Data Recorded at time 02:31 Date Apr 2 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	hr	EST TW	DXC	NXB	ECD	NXMD
289	0231	708.01	63.8	158	184	116	15.9	2540	684.72	8.7	8.7	926	905	12.0	23.4	500	157	2.3	.30	.73	.72	9.0	8.5 D
290	0233	709.02	46.5	120	149	117	13.5	2530	686.06	8.7	8.7	927	917	12.0	23.4	499	158	2.4	.30	.77	.76	9.0	8.5 D
291	0234	710.01	45.5	113	139	118	12.8	2540	687.86	8.7	8.7	926	904	12.0	23.4	500	159	2.4	.30	.77	.76	9.0	8.5 D
292	0235	711.00	43.5	103	119	117	13.1	2540	689.90	8.7	8.7	923	909	12.0	23.3	501	160	2.4	.31	.78	.77	9.0	8.5 D
293	0243	712.01	58.8	104	183	107	12.5	2540	691.68	8.7	8.7	841	861	12.0	23.4	495	161	2.4	.31	.70	.69	9.0	8.5 D†
294	0243	713.02	102	164	180	94	10.1	2560	692.07	8.7	8.7	902	921	12.0	23.4	494	162	2.4	.31	.54	.53	9.0	8.5 D
295	0244	714.00	88.2	159	176	94	9.74	2550	692.31	8.7	8.7	923	933	12.0	23.4	495	163	2.5	.31	.56	.55	9.0	8.5 D
296	0245	715.01	73.8	147	159	95	9.55	2550	692.99	8.7	8.7	935	913	12.0	23.4	496	164	2.5	.32	.59	.59	9.0	8.5 D
297	0246	716.01	55.8	131	151	98	8.93	2560	693.80	8.7	8.7	930	934	12.0	23.4	496	165	2.5	.32	.64	.64	9.0	8.5 D
298	0247	717.01	56.1	122	143	96	8.29	2550	694.36	8.7	8.7	925	915	12.0	23.4	496	166	2.5	.32	.63	.62	9.0	8.5 D
299	0248	718.02	46.5	135	155	98	9.41	2560	694.89	8.7	8.7	925	906	12.0	23.4	496	167	2.5	.32	.68	.68	9.0	8.5 D
300	0249	719.01	57.5	161	180	96	12.0	2560	695.40	8.7	8.7	928	914	12.0	23.4	496	168	2.5	.32	.67	.66	9.0	8.5 D
301	0250	720.02	58.0	152	168	97	11.7	2560	696.10	8.7	8.7	928	907	12.0	23.4	494	169	2.6	.33	.67	.66	9.0	8.5 D
302	0251	721.01	73.1	148	162	96	11.8	2560	696.49	8.7	8.7	924	926	12.0	23.4	494	170	2.6	.33	.62	.62	9.0	8.5 D
303	0258	722.01	86.0	161	198	102	11.1	2560	698.13	8.7	8.7	895	912	12.0	23.4	491	171	2.6	.33	.59	.59	9.0	8.5 D†
304	0258	723.03	115	181	195	115	11.6	2560	698.54	8.7	8.7	915	910	12.1	23.4	492	172	2.6	.33	.56	.55	9.0	8.5 D
305	0259	724.02	84.7	141	169	117	9.46	2550	699.02	8.7	8.7	922	928	12.1	23.4	493	173	2.6	.33	.60	.59	9.0	8.5 D
306	0300	725.01	54.2	109	134	117	7.25	2540	699.80	8.7	8.7	919	922	12.1	23.4	492	174	2.6	.34	.65	.64	9.0	8.5 D
307	0301	726.00	42.2	150	184	117	12.4	2550	701.04	8.7	8.7	918	897	12.1	23.4	491	175	2.6	.34	.77	.76	9.0	8.5 D
308	0302	727.00	108	131	159	117	11.7	2550	701.32	8.7	8.7	917	920	12.1	23.4	492	176	2.7	.34	.58	.57	9.0	8.5 D
309	0303	728.01	54.4	137	193	116	11.9	2570	701.79	8.7	8.7	919	924	12.1	23.4	493	177	2.7	.34	.72	.70	9.1	8.5 D
310	0304	729.00	82.4	138	169	117	12.7	2560	702.03	8.7	8.7	919	911	12.1	23.4	491	178	2.7	.35	.64	.63	9.1	8.5 D
311	0305	730.01	62.3	144	161	117	13.2	850	702.26	8.7	8.7	894	820	12.1	23.4	492	179	2.7	.35	.70	.69	9.1	8.5 D
312	0306	731.02	61.3	148	183	114	13.9	830	702.26	8.7	8.7	566	516	12.1	23.4	506	180	2.7	.35	.71	.70	9.1	8.5 D
313	0314	732.00	69.8	148	201	89	14.1	2610	704.51	8.7	8.7	922	931	12.3	23.4	516	181	2.7	.35	.63	.63	9.1	8.5 D†
314	0314	733.02	61.2	145	165	115	13.4	2610	705.40	8.7	8.7	931	936	12.3	23.4	515	182	2.8	.36	.71	.70	9.1	8.5 D
315	0316	734.01	51.6	150	191	115	13.8	2620	706.44	8.7	8.7	931	922	12.3	23.4	516	183	2.8	.36	.75	.73	9.1	8.5 D
316	0316	735.02	68.0	146	169	116	14.2	2620	706.77	8.7	8.7	930	916	12.3	23.4	514	184	2.8	.36	.69	.68	9.1	8.5 D
317	0317	736.01	103	156	173	116	15.0	2620	707.33	8.7	8.7	930	909	12.3	23.4	515	185	2.8	.36	.62	.61	9.1	8.5 D
318	0318	737.01	68.4	143	161	116	14.4	2610	708.07	8.7	8.7	929	915	12.3	23.4	514	186	2.8	.37	.70	.68	9.1	8.5 D
319	0319	738.01	55.6	121	158	118	13.0	2620	708.91	8.7	8.7	936	928	12.3	23.4	514	187	2.8	.37	.72	.71	9.1	8.5 D
320	0320	739.01	63.6	127	148	118	13.4	2620	709.57	8.7	8.7	932	911	12.3	23.4	514	188	2.8	.37	.70	.69	9.1	8.5 D
321	0321	740.05	70.8	120	136	118	13.3	2610	710.20	8.7	8.7	929	933	12.3	23.4	512	189	2.9	.37	.68	.67	9.1	8.5 D
322	0331	741.02	74.1	134	212	112	11.2	2630	711.56	8.7	8.7	917	912	12.3	23.5	506	190	2.9	.38	.64	.63	9.1	8.5 D†
323	0331	742.02	82.1	173	192	116	11.4	2630	712.40	8.7	8.7	927	914	12.3	23.5	507	191	2.9	.38	.63	.62	9.1	8.5 D
324	0332	743.00	54.1	145	167	118	14.2	2640	713.83	8.7	8.7	931	911	12.3	23.5	507	192	2.9	.38	.74	.73	9.1	8.5 D
325	0333	744.02	65.9	169	184	118	16.0	2640	714.91	8.7	8.7	930	916	12.3	23.5	507	193	2.9	.38	.72	.71	9.1	8.5 D
326	0334	745.01	62.8	156	181	117	15.1	2640	715.80	8.7	8.7	934	917	12.3	23.5	507	194	2.9	.39	.72	.71	9.1	8.5 D
327	0335	746.01	47.9	150	173	117	16.1	2630	716.89	8.7	8.7	938	921	12.3	23.5	507	195	3.0	.39	.79	.78	9.1	8.5 D
328	0336	747.01	57.3	180	203	117	18.7	2630	717.77	8.7	8.7	936	937	12.3	23.5	506	196	3.0	.39	.78	.76	9.1	8.5 D
329	0337	748.02	57.3	170	195	117	18.2	2630	718.65	8.7	8.7	932	911	12.3	23.5	505	197	3.0	.40	.77	.76	9.1	8.5 D
330	0338	749.01	68.5	173	191	117	18.6	2640	719.48	8.7	8.7	933	935	12.3	23.5	505	198	3.0	.40	.74	.72	9.1	8.5 D
331	0339	750.01	76.9	168	181	117	18.4	2640	720.26	8.7	8.7	932	917	12.3	23.5	505	199	3.0	.40	.71	.70	9.1	8.5 D
332	0347	751.03	49.7	137	200	100	18.1	2620	721.82	8.7	8.7	905	904	12.4	23.5	500	200	3.0	.40	.77	.76	9.1	8.5 D†
333	0348	752.02	64.9	171	188	117	19.4	2620	723.39	8.7	8.7	925	912	12.4	23.5	501	201	3.1	.41	.76	.74	9.1	8.5 D
334	0349	753.01	49.3	140	162	118	17.9	2620	724.58	8.7	8.7	929	933	12.4	23.5	499	202	3.1	.41	.80	.79	9.1	8.5 D
335	0350	754.01	63.1	127	144	118	16.4	2620	724.99	8.7	8.7	927	914	12.4	23.5	498	203	3.1	.41	.74	.72	9.1	8.5 D
336	0351	755.01	50.8	135	165	118	17.9	2620	726.19	8.7	8.7	927	929	12.4	23.5	499	204	3.1	.42	.80	.78	9.1	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 06:47 Date Apr 12 '90
Data Recorded at time 03:53 Date Apr 2 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
337	0353	756.01	48.9	133	160	118	17.9	2630	727.69	8.7	8.7	929	916	12.4	23.5	499	205	3.1	.42	.81	.79	9.1	8.5 D
338	0354	757.00	34.3	123	153	104	17.4	2620	729.57	8.7	8.7	927	918	12.4	23.5	502	206	3.2	.42	.85	.84	9.1	8.5 D
339	0355	758.01	58.0	131	151	102	18.7	2620	730.72	8.7	8.7	934	911	12.4	23.5	501	207	3.2	.43	.75	.74	9.1	8.5 D
340	0358	759.00	19.1	115	133	100	18.2	2610	732.01	8.7	8.7	926	930	12.4	23.5	500	208	3.2	.43	.98	.97	9.1	8.5 D
341	0417	760.00	16.5	109	183	99	18.6	2600	740.38	8.7	8.7	861	873	12.6	23.5	497	209	3.3	.44	1.02	1.01	9.0	8.5 D†
342	0418	761.02	64.6	225	241	113	24.5	2600	740.52	8.7	8.7	923	912	12.6	23.5	499	210	3.3	.44	.80	.79	9.0	8.5 D
343	0419	762.00	60.1	214	230	119	23.5	2600	741.22	8.7	8.7	921	900	12.6	23.5	497	211	3.3	.45	.82	.81	9.0	8.5 D
344	0419	763.01	83.3	208	229	121	23.3	2600	742.04	8.7	8.7	925	927	12.6	23.5	498	212	3.3	.45	.75	.73	9.0	8.5 D
345	0420	764.01	89.4	210	230	120	24.0	2610	742.71	8.7	8.7	925	907	12.6	23.5	497	213	3.4	.45	.74	.72	9.0	8.5 D
346	0421	765.02	88.8	224	250	118	25.1	2610	743.33	8.7	8.7	926	904	12.6	23.5	498	214	3.4	.45	.74	.73	9.0	8.5 D
347	0421	766.00	82.3	212	241	119	24.7	2600	744.00	8.7	8.7	923	901	12.7	23.5	497	215	3.4	.45	.76	.74	9.0	8.5 D
348	0422	767.01	73.6	183	210	122	22.9	2600	744.81	8.7	8.7	921	901	12.7	23.5	497	216	3.4	.46	.78	.76	9.0	8.5 D
349	0423	768.02	53.5	204	238	120	24.5	2610	745.76	8.7	8.7	922	907	12.7	23.5	500	217	3.4	.46	.86	.84	9.0	8.5 D
350	0424	769.01	72.1	215	228	119	25.8	2600	746.48	8.7	8.7	920	912	12.7	23.5	499	218	3.4	.46	.80	.78	9.0	8.5 D
351	0433	770.05	63.0	192	223	117	26.1	2620	750.53	8.7	8.7	789	869	12.8	23.5	494	219	3.4	.47	.83	.82	9.0	8.5 D†
352	0433	771.01	78.8	205	229	115	29.7	2630	750.70	8.7	8.7	904	895	12.8	23.5	495	220	3.5	.47	.80	.78	9.0	8.5 D
353	0434	772.02	74.3	173	202	117	27.1	2630	750.91	8.7	8.7	925	933	12.8	23.5	500	221	3.5	.47	.80	.78	9.0	8.5 D
354	0436	773.03	41.3	191	233	114	24.1	2630	752.28	8.7	8.7	928	905	12.8	23.5	500	222	3.5	.48	.91	.89	9.0	8.5 D
355	0437	774.01	56.8	192	218	117	24.8	2630	753.16	8.7	8.7	925	903	12.8	23.5	500	223	3.5	.48	.84	.83	9.0	8.5 D
356	0438	775.00	49.6	178	194	118	24.0	2630	754.25	8.7	8.7	947	942	12.8	23.5	499	224	3.5	.48	.87	.85	9.0	8.5 D
357	0439	776.00	42.6	151	185	118	22.1	2630	755.41	8.7	8.7	927	911	12.8	23.5	499	225	3.6	.49	.89	.87	9.0	8.5 D
358	0441	777.01	42.8	159	181	118	23.2	940	756.11	8.7	8.7	813	685	12.8	23.5	502	226	3.6	.49	.90	.88	9.0	8.5 D
359	0442	778.00	42.8	178	191	118	24.2	940	756.82	8.7	8.7	541	512	12.8	23.5	520	227	3.6	.49	.90	.89	9.0	8.5 D
360	0443	779.00	50.1	162	189	117	23.5	970	757.40	8.7	8.7	530	533	12.8	23.6	528	228	3.6	.50	.86	.85	9.0	8.5 D
361	0453	780.03	48.8	188	233	105	20.9	2600	758.80	8.7	8.7	907	906	12.8	23.6	518	229	3.7	.50	.82	.81	9.0	8.5 D
362	0453	781.01	63.6	215	228	113	22.2	2610	758.99	8.7	8.7	918	898	12.8	23.6	518	230	3.7	.50	.79	.77	9.0	8.5 D
363	0454	782.01	59.9	211	226	113	22.7	2620	759.27	8.7	8.7	918	896	12.8	23.6	518	231	3.7	.51	.80	.79	9.0	8.5 D
364	0455	783.02	70.6	211	227	114	22.9	2610	759.48	8.7	8.7	917	909	12.8	23.6	518	232	3.7	.51	.77	.75	9.0	8.5 D
365	0456	784.01	84.4	193	209	116	22.4	2610	759.63	8.7	8.7	918	923	12.8	23.6	516	233	3.7	.51	.73	.71	9.0	8.5 D
366	0457	785.02	89.3	183	208	118	21.5	2610	759.70	8.7	8.7	918	904	12.8	23.6	517	234	3.7	.51	.71	.69	9.0	8.5 D
367	0457	786.01	93.7	158	182	118	20.3	2610	759.73	8.7	8.7	918	903	12.8	23.6	517	235	3.7	.51	.69	.67	9.0	8.5 D
368	0458	787.02	77.3	154	198	117	18.8	2620	759.73	8.7	8.7	918	923	12.8	23.6	517	236	3.7	.51	.72	.70	9.1	8.5 D
369	0459	788.00	58.9	143	202	118	17.4	2610	759.73	8.7	8.7	918	898	12.8	23.6	518	237	3.8	.52	.76	.75	9.1	8.5 D
370	0500	789.01	52.7	152	203	116	18.5	2600	759.73	8.7	8.7	917	920	12.8	23.6	518	238	3.8	.52	.79	.78	9.1	8.5 D
371	0508	790.02	142	195	223	113	19.9	2630	761.08	8.7	8.7	910	909	12.7	23.7	515	239	3.8	.52	.58	.57	9.1	8.5 D†
372	0509	791.01	104	212	225	113	21.5	2640	761.63	8.7	8.7	919	901	12.7	23.7	516	240	3.8	.52	.67	.65	9.1	8.5 D
373	0510	792.01	67.4	195	213	116	21.3	2630	762.78	8.7	8.7	920	923	12.7	23.6	517	241	3.8	.53	.76	.75	9.1	8.5 D
374	0511	793.01	51.2	185	219	117	21.1	2640	764.45	8.7	8.7	918	909	12.7	23.6	516	242	3.8	.53	.83	.81	9.1	8.5 D
375	0512	794.01	38.9	176	212	117	20.8	2640	766.38	8.7	8.7	918	921	12.7	23.6	516	243	3.9	.53	.89	.87	9.1	8.5 D
376	0513	795.04	54.4	200	215	116	22.5	2640	767.39	8.7	8.7	919	898	12.7	23.6	516	244	3.9	.54	.82	.81	9.1	8.5 D
377	0514	796.03	61.8	202	219	116	23.0	2640	768.56	8.7	8.7	916	896	12.7	23.6	515	245	3.9	.54	.80	.78	9.1	8.5 D
378	0515	797.01	51.3	208	223	115	23.9	2640	769.30	8.7	8.7	917	920	12.7	23.6	517	246	3.9	.54	.85	.83	9.1	8.5 D
379	0516	798.01	58.2	212	226	114	25.1	2630	769.65	8.7	8.7	918	897	12.7	23.6	516	247	3.9	.54	.83	.81	9.1	8.5 D
380	0518	799.02	57.4	204	231	84	25.3	2630	769.67	8.7	8.7	916	907	12.7	23.6	516	248	3.9	.55	.76	.75	9.1	8.5 D
381	0527	800.00	93.4	246	269	103	26.8	2690	771.51	8.7	8.7	910	899	12.6	23.7	510	249	4.0	.55	.70	.69	9.1	8.5 D†
382	0527	801.02	77.1	230	252	125	25.3	2700	772.13	8.7	8.7	926	932	12.6	23.7	513	250	4.0	.55	.78	.76	9.1	8.5 D
383	0528	802.00	57.7	183	217	131	22.3	2710	772.82	8.7	8.7	926	904	12.6	23.6	514	251	4.0	.55	.84	.82	9.1	8.5 D
384	0529	803.01	79.8	230	246	125	25.0	2700	773.54	8.7	8.7	927	913	12.6	23.6	514	252	4.0	.56	.77	.75	9.1	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 06:54 Date Apr 12 '90
Data Recorded at time 05:30 Date Apr 2 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
385	0530	804.03	80.7	211	233	128	24.2	2700	774.13	8.7	8.7	927	929	12.6	23.6	515	253	4.0	.56	.77	.75	9.1	8.5 D
386	0531	805.04	67.2	205	231	130	23.5	2700	774.85	8.7	8.7	928	914	12.6	23.6	514	254	4.0	.56	.81	.79	9.1	8.5 D
387	0532	806.01	68.7	206	229	128	23.4	2700	775.38	8.7	8.7	928	907	12.6	23.6	513	255	4.1	.56	.80	.78	9.1	8.5 D
388	0532	807.01	62.2	183	194	132	22.9	2700	776.07	8.7	8.7	925	910	12.6	23.6	514	256	4.1	.57	.82	.80	9.1	8.5 D
389	0533	808.03	71.8	180	200	132	23.2	2700	776.75	8.7	8.7	927	914	12.6	23.6	515	257	4.1	.57	.79	.77	9.1	8.5 D
390	0543	809.00	74.8	207	272	102	24.4	2680	779.25	8.7	8.7	880	886	12.7	23.7	512	258	4.1	.57	.74	.72	9.1	8.5 D
391	0544	810.01	58.0	210	223	97	23.7	2690	779.87	8.7	8.7	922	911	12.7	23.7	512	259	4.1	.58	.78	.76	9.1	8.5 D
392	0545	811.01	61.3	202	218	94	23.0	2700	781.00	8.7	8.7	926	906	12.7	23.6	513	260	4.1	.58	.75	.74	9.1	8.5 D
393	0546	812.01	53.7	198	212	97	22.3	2690	782.18	8.7	8.7	924	927	12.7	23.6	513	261	4.2	.58	.78	.77	9.1	8.5 D
394	0547	813.01	51.4	202	216	96	23.0	2690	783.50	8.7	8.7	922	913	12.7	23.6	512	262	4.2	.58	.80	.78	9.1	8.5 D
395	0548	814.01	61.3	200	220	92	23.1	2690	784.87	8.7	8.7	922	926	12.7	23.6	512	263	4.2	.58	.75	.74	9.1	8.5 D
396	0549	815.01	55.9	195	213	97	23.7	2690	786.32	8.7	8.7	922	902	12.7	23.6	514	264	4.2	.59	.79	.77	9.1	8.5 D
397	0550	816.04	68.8	190	205	96	23.2	2730	787.35	8.7	8.7	927	914	12.7	23.6	512	265	4.2	.59	.73	.72	9.1	8.5 D
398	0551	817.01	57.1	180	197	95	23.1	2730	788.21	8.7	8.7	929	909	12.8	23.6	512	266	4.2	.59	.77	.76	9.1	8.5 D
399	0601	818.02	86.1	192	252	102	23.4	2650	789.03	8.7	8.7	741	819	12.9	23.7	534	267	4.3	.59	.70	.68	9.1	8.5 D
400	0602	819.01	140	220	241	113	23.2	2630	789.63	8.7	8.7	839	897	12.9	23.7	533	268	4.3	.59	.61	.59	9.1	8.5 D
401	0602	820.00	91.1	183	202	115	21.2	2670	790.91	8.7	8.7	912	926	12.9	23.7	533	269	4.3	.59	.70	.68	9.1	8.5 D
402	0604	821.01	37.6	144	202	115	17.8	2700	792.37	8.7	8.7	927	912	13.0	23.7	533	270	4.3	.60	.86	.84	9.1	8.5 D
403	0605	822.02	72.5	146	213	115	18.0	2700	793.00	8.7	8.7	924	927	13.0	23.7	533	271	4.3	.60	.72	.70	9.1	8.5 D
404	0606	823.02	65.8	164	221	115	19.2	2690	793.58	8.7	8.7	925	904	13.0	23.7	534	272	4.3	.60	.75	.73	9.1	8.5 D
405	0607	824.02	53.8	176	204	115	21.1	2700	794.50	8.7	8.7	924	911	13.0	23.7	534	273	4.4	.61	.81	.79	9.1	8.5 D
406	0608	825.01	50.2	188	223	114	22.6	2700	795.60	8.7	8.7	923	909	13.0	23.7	533	274	4.4	.61	.84	.82	9.1	8.5 D
407	0609	826.02	54.1	199	217	115	23.4	2700	796.62	8.7	8.7	926	906	13.0	23.7	534	275	4.4	.61	.83	.81	9.1	8.5 D
408	0610	827.01	75.3	162	199	114	22.9	2710	797.63	8.7	8.7	925	916	13.0	23.7	518	276	4.4	.61	.75	.73	9.1	8.5 D†
409	0620	828.02	98.3	212	236	115	25.9	2730	800.60	8.8	8.9	929	934	13.0	23.8	474	277	4.4	.62	.71	.69	9.0	8.5 D
410	0621	829.01	86.7	218	232	116	26.5	2730	801.32	8.8	8.9	929	909	13.0	23.8	474	278	4.4	.62	.75	.73	9.1	8.5 D
411	0622	830.00	76.1	223	247	115	27.4	2730	802.21	8.8	8.9	930	909	13.1	23.7	473	279	4.5	.62	.78	.76	9.1	8.5 D
412	0622	831.01	82.6	226	239	115	27.8	2740	803.09	8.8	8.9	928	908	13.0	23.7	475	280	4.5	.62	.77	.75	9.1	8.5 D
413	0623	832.01	67.8	212	241	116	27.2	2740	804.10	8.8	8.9	930	916	13.0	23.7	475	281	4.5	.62	.81	.79	9.1	8.5 D
414	0624	833.00	60.3	211	249	116	27.4	2730	805.16	8.8	8.9	927	931	13.0	23.7	476	282	4.5	.63	.84	.82	9.1	8.5 D
415	0625	834.01	62.3	168	202	117	25.1	2030	806.10	8.8	8.9	925	911	13.0	23.7	476	283	4.5	.63	.82	.80	9.1	8.5 D
416	0626	835.00	62.3	198	220	97	26.3	980	806.80	8.8	8.9	635	560	13.0	23.7	489	284	4.5	.63	.78	.77	9.1	8.5 D
417	0627	836.01	51.9	172	204	99	25.2	1010	807.40	8.8	8.9	540	542	13.0	23.7	503	285	4.5	.63	.82	.80	9.1	8.5 D
418	0637	837.01	47.8	196	270	94	25.8	2690	808.56	8.9	9.0	907	900	13.0	23.8	517	286	4.6	.64	.83	.81	9.1	8.5 D†
419	0637	838.00	103	243	262	113	26.7	2690	809.11	8.9	9.0	916	909	13.0	23.8	518	287	4.6	.64	.70	.68	9.1	8.5 D
420	0638	839.01	88.3	231	245	114	26.2	2690	809.78	8.9	9.0	917	904	13.1	23.8	519	288	4.6	.64	.73	.71	9.1	8.5 D
421	0638	840.01	103	214	235	115	24.8	2690	810.33	8.9	9.0	919	906	13.1	23.8	518	289	4.6	.64	.69	.67	9.1	8.5 D
422	0639	841.00	77.4	198	219	115	24.2	2690	811.02	8.9	9.0	918	902	13.1	23.8	520	290	4.6	.64	.75	.73	9.1	8.5 D
423	0640	842.01	57.1	199	217	115	24.8	2700	811.96	8.9	9.0	919	898	13.1	23.8	521	291	4.6	.65	.82	.80	9.1	8.5 D
424	0641	843.01	57.9	202	219	115	25.2	2700	812.75	8.9	9.0	917	895	13.1	23.8	523	292	4.7	.65	.82	.80	9.1	8.5 D
425	0642	844.00	75.0	212	229	115	26.0	2690	813.41	8.9	9.0	917	897	13.1	23.8	522	293	4.7	.65	.77	.75	9.1	8.5 D
426	0643	845.02	91.7	184	201	116	24.7	2690	814.06	8.9	9.0	918	923	13.1	23.8	524	294	4.7	.65	.72	.70	9.2	8.5 D
427	0650	846.06	78.2	176	250	115	22.8	2830	816.52	8.9	9.0	874	893	13.2	23.8	525	295	4.7	.65	.74	.72	9.1	8.5 D†
428	0650	847.05	187	236	243	99	24.4	2830	816.70	8.9	9.0	914	910	13.2	23.8	525	296	4.7	.65	.52	.50	9.1	8.5 D
429	0650	848.02	169	225	238	96	23.5	2830	816.87	8.9	9.0	931	941	13.2	23.8	526	297	4.7	.66	.53	.51	9.2	8.5 D
430	0651	849.02	128	206	215	98	22.3	2830	817.09	8.9	9.0	940	923	13.2	23.8	528	298	4.7	.66	.59	.57	9.2	8.5 D
431	0651	850.01	104	188	208	95	21.3	2840	817.11	8.9	9.0	943	948	13.2	23.8	527	299	4.7	.66	.61	.60	9.2	8.5 D
432	0652	851.02	82.4	178	195	100	21.5	2830	817.19	9.0	9.1	942	921	13.2	23.8	528	300	4.7	.66	.68	.66	9.2	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 07:02 Date Apr 12 '90
Data Recorded at time 06:53 Date Apr 2 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
433	0653	852.01	105	160	183	94	20.4	2830	817.62	9.0	9.1	942	921	13.2	23.8	528	301	4.8	.66	.60	.59	9.2	8.5D
434	0653	853.05	84.4	145	181	96	19.1	2830	818.43	9.0	9.1	942	921	13.2	23.8	529	302	4.8	.66	.64	.63	9.2	8.5D
435	0654	854.03	59.7	159	212	95	18.3	2840	819.94	9.0	9.1	943	924	13.2	23.8	529	303	4.8	.66	.71	.70	9.2	8.5D
436	0655	855.02	68.8	149	206	98	18.3	2830	820.30	9.0	9.2	943	921	13.2	23.8	530	304	4.8	.66	.68	.67	9.3	8.5D
437	0703	856.01	59.1	156	249	82	20.6	2720	823.09	9.1	9.3	899	891	13.3	23.9	533	305	4.8	.67	.70	.69	9.3	8.5D†
438	0704	857.01	60.2	218	231	97	23.1	2720	823.91	9.1	9.3	917	903	13.3	23.9	534	306	4.8	.67	.75	.73	9.4	8.5D
439	0705	858.01	58.2	223	237	96	23.6	2730	824.79	9.1	9.3	919	900	13.3	23.9	536	307	4.9	.67	.76	.74	9.4	8.5D
440	0706	859.02	76.5	217	241	98	23.4	2730	825.51	9.1	9.3	923	909	13.3	23.9	535	308	4.9	.67	.70	.68	9.4	8.5D
441	0706	860.01	104	195	214	98	22.1	2730	826.17	9.1	9.3	922	924	13.3	23.9	536	309	4.9	.67	.62	.61	9.4	8.5D
442	0707	861.00	71.8	190	212	98	22.3	2730	826.55	9.2	9.3	921	900	13.3	23.9	537	310	4.9	.67	.70	.69	9.4	8.5D
443	0708	862.01	54.1	195	212	98	23.1	2720	826.57	9.2	9.3	921	926	13.3	23.8	514	311	4.9	.68	.77	.75	9.3	8.5D
444	0709	863.02	59.7	196	209	97	23.5	2720	826.57	9.2	9.3	921	926	13.3	23.8	494	312	4.9	.68	.75	.73	9.3	8.5D
445	0710	864.01	64.2	191	208	98	23.8	2720	826.57	9.2	9.3	920	911	13.3	23.8	494	313	4.9	.68	.73	.72	9.4	8.5D
446	0711	865.02	51.9	192	215	96	24.4	2720	826.67	9.2	9.3	919	906	13.3	23.9	492	314	5.0	.68	.78	.76	9.4	8.5D
447	0719	866.01	71.1	228	283	109	30.8	2700	830.21	9.2	9.3	895	909	13.3	23.9	496	315	5.0	.68	.78	.76	9.4	8.5D†
448	0720	867.02	68.4	239	260	117	32.1	2700	831.13	9.2	9.3	914	896	13.4	23.9	497	316	5.0	.69	.81	.79	9.4	8.5D
449	0720	868.06	84.7	221	243	117	31.2	2700	831.92	9.2	9.3	915	894	13.4	23.9	498	317	5.0	.69	.76	.74	9.4	8.5D
450	0721	869.02	102	200	214	118	29.6	2700	832.39	9.2	9.3	915	920	13.4	23.9	499	318	5.0	.69	.71	.69	9.4	8.5D
451	0722	870.00	74.7	187	205	120	29.1	2700	833.24	9.3	9.3	914	905	13.4	23.9	499	319	5.0	.69	.78	.76	9.4	8.5D
452	0723	871.00	82.0	199	207	121	29.2	2700	834.31	9.3	9.3	916	919	13.4	23.9	500	320	5.0	.69	.42	.40	9.4	8.5D
453	0726	872.00	124	184	207	120	27.8	2700	836.28	9.3	9.3	914	900	13.4	23.9	501	325	5.1	.70	.65	.63	9.5	8.5D
454	0727	873.00	79.1	182	202	120	28.1	2710	836.55	9.3	9.3	917	923	13.4	23.9	502	327	5.1	.70	.61	.60	9.5	8.5D
455	0728	874.00	72.1	182	202	120	28.1	2710	836.55	9.3	9.3	917	894	13.4	23.9	500	323	5.1	.71	.67	.65	9.8	8.5D
456	0729	875.00	56.5	182	202	120	28.1	2705	837.09	9.3	9.3	209	185	13.4	23.9	513	324	5.1	.71	.56	.55	9.7	8.5D
457	0735	876.01	76.6	264	279	119	24.8	2740	840.34	9.3	9.3	917	897	13.4	23.9	504	325	5.1	.71	.72	.70	9.7	8.5D
458	0736	877.03	79.9	252	268	119	24.6	2740	841.02	9.3	9.3	920	899	13.4	23.9	503	326	5.1	.71	.71	.69	9.7	8.5D
459	0736	878.02	78.4	218	248	100	23.1	2750	841.68	9.3	9.3	920	922	13.4	23.9	504	327	5.2	.71	.67	.65	9.7	8.5D
460	0737	879.01	50.8	232	250	100	24.1	2740	842.77	9.3	9.4	920	899	13.5	23.9	505	328	5.2	.71	.76	.75	9.7	8.5D
461	0739	880.02	48.3	238	262	99	24.5	2740	844.28	9.3	9.4	920	907	13.5	23.9	507	329	5.2	.72	.78	.76	9.7	8.5D
462	0740	881.00	44.9	250	271	102	25.5	2740	845.14	9.3	9.4	922	909	13.5	23.9	507	330	5.2	.72	.81	.79	9.7	8.5D
463	0741	882.01	53.3	261	279	98	26.5	2740	845.14	9.3	9.4	921	906	13.5	23.9	506	331	5.2	.72	.77	.75	9.7	8.5D
464	0742	883.01	46.2	257	280	100	26.9	1400	847.47	9.3	9.4	785	739	13.5	23.9	518	332	5.3	.72	.81	.79	9.7	8.5D
465	0744	884.01	42.6	216	242	99	24.9	1060	849.01	9.3	9.4	558	540	13.5	23.9	540	333	5.3	.73	.81	.79	9.7	8.5D
466	0746	885.00	31.3	200	231	98	25.3	2760	850.43	9.3	9.4	625	711	13.6	23.9	550	334	5.3	.73	.88	.86	9.7	8.5D
467	0759	886.01	55.1	262	317	88	24.5	2810	855.13	9.3	9.4	930	910	13.6	24.1	547	335	5.3	.73	.73	.71	9.6	8.5D
468	0800	887.03	122	251	270	96	24.3	2810	855.24	9.3	9.4	930	910	13.6	24.1	550	336	5.4	.73	.57	.56	9.6	8.5D
469	0800	888.01	122	226	260	96	22.4	2810	855.37	9.3	9.4	930	917	13.6	24.1	542	337	5.4	.73	.56	.55	9.7	8.5D
470	0802	889.02	38.5	228	258	100	23.2	2810	856.57	9.3	9.4	930	921	13.6	24.1	511	338	5.4	.74	.82	.80	9.7	8.5D
471	0803	890.04	62.2	246	267	101	25.2	2810	857.58	9.3	9.4	933	939	13.6	24.1	509	339	5.4	.74	.74	.72	9.7	8.5D
472	0804	891.05	75.2	235	261	96	25.0	2810	858.47	9.3	9.4	932	923	13.7	24.1	512	340	5.4	.74	.68	.66	9.7	8.5D
473	0805	892.01	55.0	240	277	97	26.1	2800	859.60	9.3	9.4	931	934	13.7	24.1	510	341	5.4	.74	.76	.74	9.7	8.5D
474	0806	893.07	62.8	261	281	101	27.4	2800	860.53	9.3	9.4	931	917	13.7	24.1	513	342	5.4	.74	.75	.73	9.7	8.5D
475	0820	894.01	60.7	225	303	98	28.1	2780	864.15	9.3	9.4	918	924	13.6	24.2	517	343	5.5	.74	.76	.74	9.6	8.5D†
476	0821	895.00	72.2	282	310	116	31.4	2770	864.58	9.3	9.4	922	908	13.6	24.2	520	344	5.5	.75	.78	.75	9.6	8.5D
477	0822	896.01	61.5	262	285	119	30.1	2770	865.58	9.3	9.4	922	902	13.6	24.1	521	345	5.5	.75	.81	.79	9.6	8.5D
478	0822	897.01	91.9	253	278	119	29.6	2780	866.22	9.3	9.4	923	904	13.6	24.1	520	346	5.5	.75	.72	.69	9.6	8.5D
479	0823	898.01	59.7	238	280	120	29.5	2770	867.57	9.3	9.4	923	909	13.6	24.1	521	347	5.5	.75	.82	.79	9.6	8.5D
480	0824	899.02	55.1	274	289	118	31.9	2780	870.73	9.3	9.4	921	925	13.6	24.1	522	348	5.5	.76	.85	.82	9.6	8.5D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 07:09 Date Apr 12 '90
Data Recorded at time 08:25 Date Apr 2 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
481	0825	900.01	59.3	271	284	118	32.3	2770	873.48	9.3	9.4	920	900	13.6	24.1	522	349	5.6	.76	.84	.81	9.6	8.5 D
482	0826	901.01	62.8	256	280	119	32.0	2770	873.52	9.3	9.4	920	923	13.6	24.1	523	350	5.6	.76	.82	.80	9.6	8.5 D
483	0827	902.01	60.7	239	256	120	31.7	2770	873.84	9.3	9.4	920	925	13.6	24.1	523	351	5.6	.76	.83	.80	9.6	8.5 D
484	0830	903.00	45.2	188	282	97	27.6	2760	875.41	9.3	9.4	919	909	13.6	24.1	524	352	5.6	.77	.82	.80	9.6	8.5 D†
485	0848	904.01	24.0	206	291	111	28.4	2720	880.71	9.3	9.4	908	897	13.5	24.2	480	353	5.7	.77	1.00	.98	9.6	8.5 D†
486	0849	905.02	69.2	253	302	111	31.2	2730	881.31	9.3	9.4	909	889	13.6	24.3	460	354	5.7	.78	.78	.76	9.6	8.5 D
487	0850	906.01	57.0	232	253	113	29.8	2730	882.08	9.3	9.4	910	889	13.6	24.2	458	355	5.7	.78	.82	.80	9.6	8.5 D
488	0851	907.00	50.8	233	250	113	30.1	2720	883.09	9.3	9.4	912	903	13.6	24.2	458	356	5.7	.78	.85	.83	9.6	8.5 D
489	0852	908.01	53.2	235	249	114	30.3	2720	884.03	9.3	9.4	912	897	13.6	24.2	460	357	5.7	.78	.84	.82	9.6	8.5 D
490	0853	909.00	56.0	231	246	116	30.4	2720	885.03	9.3	9.4	911	890	13.6	24.2	459	358	5.8	.79	.83	.81	9.6	8.5 D
491	0855	910.00	48.6	240	255	104	31.2	2720	885.79	9.3	9.4	912	917	13.6	24.2	458	359	5.8	.79	.85	.83	9.6	8.5 D
492	0856	911.00	40.8	257	271	105	32.1	2720	886.10	9.3	9.4	911	898	13.6	24.2	460	360	5.8	.79	.89	.87	9.6	8.5 D
493	0858	912.00	45.0	228	266	86	32.6	2720	886.14	9.3	9.4	909	888	13.6	24.2	464	361	5.8	.79	.83	.81	9.6	8.5 D†
494	0909	913.01	46.4	290	312	106	31.0	2770	889.41	9.3	9.4	904	898	13.6	24.2	472	362	5.8	.80	.86	.84	9.6	8.5 D†
495	0910	914.00	67.9	277	295	115	29.2	2770	889.96	9.3	9.4	916	922	13.7	24.3	476	363	5.8	.80	.78	.76	9.6	8.5 D
496	0910	915.01	74.9	260	282	101	28.5	2770	890.48	9.3	9.4	919	924	13.7	24.3	476	364	5.9	.80	.72	.70	9.6	8.5 D
497	0911	916.01	50.2	232	252	101	26.9	2770	891.90	9.3	9.4	918	921	13.7	24.3	479	365	5.9	.80	.80	.78	9.6	8.5 D
498	0913	917.01	56.4	233	254	103	27.3	2760	892.87	9.3	9.4	918	898	13.7	24.3	480	366	5.9	.80	.78	.76	9.6	8.5 D
499	0914	918.00	48.1	225	263	104	28.0	2770	894.09	9.3	9.4	919	905	13.8	24.3	482	367	5.9	.81	.83	.80	9.6	8.5 D
500	0915	919.01	55.0	224	257	103	28.4	2770	894.75	9.3	9.4	920	911	13.8	24.3	482	368	5.9	.81	.80	.78	9.6	8.5 D
501	0916	920.00	49.6	224	244	103	28.2	880	895.00	9.3	9.4	849	764	13.8	24.3	487	369	6.0	.81	.82	.80	9.6	8.5 D
[illegible]	0918	921.01	37.3	225	273	100	27.5	940	895.03	9.3	9.4	509	489	13.8	24.3	511	370	6.0	.81	.87	.85	9.6	8.5 D
503	0919	922.05	37.0	246	264	102	29.0	2800	895.32	9.3	9.4	754	819	13.8	24.3	513	371	6.0	.82	.89	.87	9.6	8.5 D
504	0929	923.01	46.2	222	310	104	29.8	2810	897.68	9.3	9.4	916	924	13.9	24.4	521	372	6.0	.82	.85	.83	9.6	8.5 D†
505	0931	924.00	51.0	279	301	120	30.3	2810	899.00	9.3	9.4	926	917	13.9	24.3	522	373	6.0	.82	.86	.84	9.6	8.5 D
506	0932	925.01	64.1	275	287	119	29.6	2810	899.94	9.3	9.4	923	909	13.9	24.3	524	374	6.1	.83	.80	.78	9.6	8.5 D
507	0933	926.01	52.1	251	282	120	28.9	2810	901.06	9.3	9.4	922	912	13.9	24.3	525	375	6.1	.83	.85	.82	9.6	8.5 D
508	0934	927.01	43.8	246	263	121	28.8	2800	902.43	9.3	9.4	924	929	13.9	24.3	527	376	6.1	.83	.89	.86	9.6	8.5 D
509	0935	928.01	46.3	252	271	121	29.8	2800	903.74	9.3	9.4	925	910	13.9	24.3	528	377	6.1	.83	.88	.86	9.6	8.5 D
510	0937	929.01	46.1	262	301	120	30.8	2810	904.58	9.3	9.4	924	910	13.9	24.3	528	378	6.1	.84	.89	.86	9.6	8.5 D
511	0938	930.02	49.3	257	281	121	31.4	2800	904.82	9.3	9.4	923	910	13.9	24.3	530	379	6.2	.84	.88	.85	9.6	8.5 D
512	0939	931.03	41.8	243	272	121	30.9	2800	905.23	9.3	9.4	923	909	13.9	24.3	530	380	6.2	.85	.91	.89	9.6	8.5 D
513	0951	932.01	31.9	228	335	118	30.0	2810	906.13	9.3	9.4	899	916	13.8	24.3	542	381	6.2	.85	.96	.94	9.6	8.5 D†
514	0952	933.01	56.2	320	346	110	36.7	2810	907.07	9.3	9.4	920	912	13.8	24.4	546	382	6.2	.85	.86	.84	9.6	8.5 D
515	0954	934.03	42.6	265	290	122	34.3	2810	908.49	9.3	9.4	920	900	13.8	24.4	546	383	6.3	.86	.94	.91	9.6	8.5 D
516	0955	935.01	37.0	260	279	122	32.7	2810	909.87	9.3	9.4	918	897	13.8	24.4	548	384	6.3	.86	.96	.93	9.6	8.5 D
517	0957	936.01	43.9	269	295	122	33.6	2800	911.15	9.3	9.4	920	925	13.8	24.4	549	385	6.3	.86	.92	.90	9.6	8.5 D
518	0958	937.01	43.3	264	290	122	33.8	2800	912.23	9.3	9.4	922	913	13.8	24.4	552	386	6.3	.87	.93	.90	9.6	8.5 D
519	0959	938.00	40.2	237	273	123	32.1	2780	913.28	9.3	9.4	921	900	13.8	24.4	553	387	6.4	.87	.94	.91	9.6	8.5 D
520	1001	939.01	33.3	272	297	122	32.1	2800	914.39	9.3	9.4	919	905	13.8	24.4	554	388	6.4	.88	.98	.95	9.6	8.5 D
521	1003	940.01	45.5	275	299	122	32.4	2800	914.95	9.3	9.4	918	921	13.8	24.4	556	389	6.4	.88	.91	.88	9.6	8.5 D
522	1004	941.02	45.0	249	290	123	31.8	2800	915.18	9.3	9.4	917	904	13.8	24.4	555	390	6.4	.89	.91	.88	9.6	8.5 D
523	1013	942.00	50.8	211	255	118	29.1	2750	918.28	9.3	9.4	899	887	13.9	24.5	531	391	6.5	.89	.85	.82	9.6	8.5 D†
524	1014	943.00	46.1	246	277	121	22.2	2750	919.47	9.3	9.4	910	889	13.9	24.5	496	392	6.5	.89	.82	.80	9.6	8.5 D
525	1015	944.00	50.9	264	286	120	24.1	2770	920.52	9.3	9.4	912	915	13.9	24.5	487	393	6.5	.89	.82	.79	9.6	8.5 D
526	1017	945.01	40.5	239	267	121	24.6	2780	921.77	9.3	9.4	912	891	13.9	24.5	495	394	6.5	.90	.87	.85	9.6	8.5 D
[illegible]	1018	946.01	44.6	238	277	121	26.3	2740	922.97	9.3	9.4	911	890	13.9	24.5	492	395	6.6	.90	.87	.84	9.6	8.5 D
528	1019	947.01	57.1	284	303	119	30.2	2700	924.03	9.3	9.4	911	917	13.9	24.4	483	396	6.6	.90	.84	.81	9.6	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 07:16 Date Apr 12 '90
Data Recorded at time 10:20 Date Apr 2 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
1529	1020	948.04	54.5	275	291	119	30.6	2750	924.63	9.3	9.4	913	916	13.9	24.4	449	397	6.6	.91	.85	.82	9.6	8.5 D
1530	1021	949.02	52.0	273	297	120	31.5	2740	924.63	9.3	9.4	911	897	13.9	24.4	422	398	6.6	.91	.87	.84	9.6	8.5 D
1531	1023	950.01	46.8	274	297	120	32.3	2730	924.63	9.3	9.4	910	913	14.0	24.4	415	399	6.6	.91	.90	.87	9.6	8.5 D
1532	1024	951.05	55.2	263	283	109	32.4	2730	925.06	9.3	9.4	909	888	14.0	24.4	420	400	6.6	.91	.84	.81	9.6	8.5 D
1533	1034	952.04	59.7	255	282	106	33.2	2790	929.42	9.3	9.4	891	913	14.0	24.5	424	401	6.7	.92	.82	.79	9.5	8.5 D↑
1534	1034	953.00	67.8	293	311	124	35.0	2780	930.04	9.3	9.4	917	921	14.0	24.5	427	402	6.7	.92	.84	.81	9.6	8.5 D
1535	1035	954.01	65.9	277	294	126	34.6	2780	930.65	9.3	9.4	919	898	14.1	24.5	428	403	6.7	.92	.85	.82	9.6	8.5 D
1536	1036	955.02	55.9	266	288	127	34.5	2780	931.44	9.3	9.4	917	896	14.1	24.5	429	404	6.7	.93	.88	.85	9.6	8.5 D
1537	1038	956.01	46.2	258	274	127	34.9	2780	932.41	9.3	9.4	921	907	14.1	24.5	431	405	6.7	.93	.93	.90	9.6	8.5 D
1538	1039	957.01	38.5	258	277	127	35.6	2780	933.43	9.3	9.4	916	901	14.2	24.5	433	406	6.8	.93	.98	.95	9.6	8.5 D
1539	1040	958.01	46.9	259	277	127	36.2	2780	933.83	9.3	9.4	920	901	14.2	24.5	434	407	6.8	.94	.94	.91	9.6	8.5 D
1540	1042	959.02	54.1	261	279	127	36.4	2790	933.85	9.3	9.4	919	899	14.2	24.5	435	408	6.8	.94	.90	.87	9.6	8.5 D
1541	1043	960.01	48.4	253	271	128	36.2	2780	933.88	9.3	9.4	923	914	14.2	24.5	436	409	6.8	.95	.93	.90	9.6	8.5 D
1542	1044	961.02	55.0	247	263	128	36.6	2770	934.06	9.3	9.4	918	898	14.2	24.5	436	410	6.8	.95	.90	.87	9.6	8.5 D
1543	1053	962.02	72.4	252	310	106	31.2	2800	937.10	9.3	9.4	921	900	14.4	24.5	440	411	6.9	.95	.76	.73	9.6	8.5 D↑
1544	1054	963.00	59.5	282	300	98	28.4	2800	937.77	9.3	9.4	920	922	14.4	24.5	441	412	6.9	.95	.77	.74	9.6	8.5 D
1545	1055	964.02	54.5	289	309	98	28.9	2800	938.55	9.3	9.4	922	927	14.4	24.5	441	413	6.9	.95	.79	.77	9.6	8.5 D
1546	1056	965.00	50.0	279	292	100	29.4	2800	939.42	9.3	9.4	917	896	14.4	24.5	443	414	6.9	.96	.82	.79	9.6	8.5 D
1547	1057	966.02	53.8	269	284	100	29.5	2800	939.89	9.3	9.4	921	907	14.4	24.5	445	415	6.9	.96	.80	.78	9.6	8.5 D
1548	1058	967.00	51.7	264	281	101	29.9	2800	940.58	9.3	9.4	922	901	14.4	24.5	443	416	7.0	.96	.82	.79	9.6	8.5 D
1549	1059	968.01	46.0	270	293	100	30.5	2800	941.48	9.3	9.4	920	923	14.4	24.5	445	417	7.0	.96	.84	.82	9.6	8.5 D
1550	1101	969.00	43.8	276	304	101	31.0	2800	942.46	9.3	9.4	919	922	14.4	24.5	446	418	7.0	.97	.86	.84	9.6	8.5 D
1551	1102	970.01	46.1	281	307	99	31.9	2800	943.25	9.3	9.4	920	912	14.5	24.5	447	419	7.0	.97	.85	.83	9.6	8.5 D
1552	1109	971.01	48.8	290	320	100	33.7	2780	943.94	9.3	9.4	894	887	14.5	24.6	451	420	7.0	.97	.85	.83	9.6	8.5 D↑
1553	1110	972.02	62.9	306	324	110	34.8	2780	944.68	9.3	9.4	912	891	14.5	24.6	452	421	7.1	.97	.82	.79	9.6	8.5 D
1554	1111	973.00	56.5	297	312	113	34.4	2780	945.56	9.3	9.4	915	895	14.5	24.6	453	422	7.1	.97	.85	.82	9.6	8.5 D
1555	1112	974.01	47.6	287	307	114	34.4	2780	946.48	9.3	9.4	915	919	14.5	24.6	455	423	7.1	.98	.89	.86	9.6	8.5 D
1556	1113	975.01	45.4	276	297	118	34.3	2790	947.33	9.3	9.4	915	894	14.5	24.6	456	424	7.1	.98	.91	.88	9.6	8.5 D
1557	1115	976.02	48.0	275	293	120	34.4	2780	948.32	9.3	9.4	915	920	14.5	24.6	457	425	7.1	.98	.90	.87	9.6	8.5 D
1558	1116	977.01	46.9	255	284	121	34.6	2780	949.38	9.3	9.4	912	891	14.5	24.6	457	426	7.2	.99	.91	.88	9.6	8.5 D
1559	1117	978.01	40.0	278	299	120	35.0	2780	950.71	9.3	9.4	913	892	14.5	24.6	458	427	7.2	.99	.95	.92	9.6	8.5 D
1560	1119	979.00	50.9	263	301	120	34.6	2780	951.68	9.3	9.4	912	917	14.5	24.6	460	428	7.2	.99	.89	.86	9.6	8.5 D
1561	1120	980.02	38.6	229	260	121	33.7	2780	952.99	9.3	9.4	913	917	14.5	24.6	459	429	7.2	1.00	.95	.92	9.6	8.5 D
1562	1128	981.01	49.1	220	300	104	26.6	2810	953.95	9.3	9.4	908	899	14.6	24.7	464	430	7.2	1.00	.81	.78	9.6	8.5 D
1563	1129	982.01	53.7	296	311	98	29.2	2810	954.01	9.3	9.4	917	903	14.6	24.7	467	431	7.3	1.00	.79	.77	9.6	8.5 D
1564	1130	983.01	56.8	291	306	102	28.5	2810	954.96	9.3	9.4	918	909	14.6	24.7	468	432	7.3	1.00	.79	.76	9.6	8.5 D
1565	1131	984.01	50.5	279	301	99	28.1	2810	956.07	9.3	9.4	916	907	14.6	24.7	468	433	7.3	1.01	.80	.78	9.6	8.5 D
1566	1132	985.01	49.0	281	298	101	28.3	2810	957.17	9.3	9.4	915	902	14.6	24.7	468	434	7.3	1.01	.82	.79	9.6	8.5 D
1567	1133	986.00	55.1	282	297	102	29.1	2800	957.99	9.3	9.4	915	895	14.6	24.7	469	435	7.3	1.01	.80	.77	9.6	8.5 D
1568	1134	987.02	50.5	276	293	100	29.5	2810	958.66	9.3	9.4	917	897	14.7	24.7	471	436	7.4	1.01	.82	.79	9.6	8.5 D
1569	1135	988.00	58.7	276	296	98	29.4	2810	959.34	9.3	9.4	918	921	14.7	24.7	471	437	7.4	1.01	.78	.75	9.6	8.5 D
1570	1136	989.02	58.8	266	286	101	29.4	2810	960.14	9.3	9.4	916	897	14.7	24.7	472	438	7.4	1.02	.78	.76	9.6	8.5 D
1571	1146	990.01	56.8	246	278	102	28.4	2880	963.46	9.3	9.4	899	896	14.8	24.8	500	439	7.4	1.02	.79	.76	9.6	8.5 D↑
1572	1147	991.01	49.1	270	287	120	25.9	2860	963.67	9.3	9.4	917	897	14.8	24.7	516	440	7.4	1.02	.84	.81	9.6	8.5 D
1573	1149	992.02	48.6	275	290	118	26.5	2760	964.01	9.3	9.4	917	920	14.8	24.7	516	441	7.5	1.02	.84	.81	9.6	8.5 D
1574	1150	993.01	51.5	277	295	118	26.6	2810	964.74	9.3	9.4	917	923	14.8	24.7	516	442	7.5	1.03	.83	.80	9.6	8.5 D
1575	1151	994.00	41.7	291	312	116	26.6	2810	966.10	9.3	9.4	917	908	14.8	24.7	517	443	7.5	1.03	.87	.84	9.6	8.5 D
1576	1153	995.00	43.9	286	303	117	26.6	2810	967.40	9.3	9.4	918	905	14.8	24.7	518	444	7.5	1.03	.86	.83	9.6	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 07:23 Date Apr 12 '90
Data Recorded at time 11:54 Date Apr 2 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	hr	EST TW	DXC	NXB	ECD	NXMD
1577	1154	996.01	55.3	286	304	121	26.5	2850	968.24	9.3	9.4	920	911	14.8	24.7	519	445	7.5	1.03	.82	.79	9.6	8.5|D
1578	1155	997.03	53.3	282	302	122	26.5	2890	969.23	9.3	9.4	929	916	14.9	24.8	521	446	7.6	1.04	.83	.80	9.6	8.5|D
1579	1156	998.04	77.2	276	300	123	25.5	2890	969.88	9.3	9.4	930	916	14.9	24.8	520	447	7.6	1.04	.74	.71	9.6	8.5|D
1580	1205	999.03	62.2	248	285	124	25.1	2800	973.06	9.3	9.4	895	910	14.9	24.8	523	448	7.6	1.04	.79	.76	9.6	8.5|D↑
1582	1209	1000.0	40.0	241	288	97	28.5	2990	974.68	9.3	9.4	898	913	15.0	24.8	528	449	7.6	1.04	.86	.83	9.6	8.5|D↑
1583	1210	1001.0	50.0	260	280	101	28.0	2990	975.77	9.3	9.4	946	934	15.0	24.8	528	450	7.7	1.05	.81	.78	9.6	8.5|D
1584	1211	1002.0	53.2	273	293	100	28.9	2980	976.70	9.3	9.4	948	927	15.0	24.8	526	451	7.7	1.05	.80	.77	9.6	8.5|D
1585	1213	1003.0	48.6	274	297	97	29.1	2980	977.58	9.3	9.4	946	931	15.0	24.8	527	452	7.7	1.05	.82	.79	9.6	8.5|D
1586	1214	1004.0	50.7	273	297	99	29.4	2970	978.61	9.3	9.4	946	925	15.0	24.8	528	453	7.7	1.05	.81	.79	9.6	8.5|D
1587	1215	1005.0	48.3	273	294	96	29.6	2990	979.50	9.3	9.4	946	926	15.0	24.8	529	454	7.7	1.05	.82	.79	9.6	8.5|D
1588	1216	1006.0	49.2	284	305	97	30.0	2980	980.38	9.3	9.4	946	932	15.0	24.8	530	455	7.8	1.06	.82	.79	9.6	8.5|D
1589	1217	1007.0	47.3	280	297	99	29.8	2990	981.41	9.3	9.4	945	930	15.0	24.8	531	456	7.8	1.06	.83	.81	9.6	8.5|D
1590	1218	1008.0	45.5	280	295	100	29.9	2990	981.67	9.3	9.4	944	949	15.0	24.8	532	457	7.8	1.06	.84	.82	9.6	8.5|D-
1591	1219	1009.0	48.1	274	303	97	29.7	2980	982.47	9.3	9.4	944	947	15.0	24.8	531	458	7.8	1.06	.82	.80	9.6	8.5|D
1592	1229	1010.0	54.3	264	303	109	31.3	2860	984.87	9.3	9.4	921	928	15.1	24.9	540	459	7.8	1.06	.83	.80	9.6	8.5|D
1593	1230	1011.0	60.7	264	285	116	31.3	2860	985.70	9.3	9.4	922	928	15.1	24.9	542	460	7.9	1.07	.82	.79	9.6	8.5|D
1594	1231	1012.0	53.8	271	305	116	31.7	2870	986.69	9.3	9.4	922	923	15.1	24.9	525	461	7.9	1.07	.85	.82	9.6	8.5|D
1595	1233	1013.0	54.1	277	313	115	32.2	2870	987.65	9.5	9.5	922	903	15.1	24.9	498	462	7.9	1.07	.85	.82	9.6	8.5|D
1596	1234	1014.0	53.8	259	281	117	32.5	2870	988.62	9.5	9.5	924	902	15.1	24.9	468	463	7.9	1.07	.86	.83	9.6	8.5|D
1597	1235	1015.0	53.0	232	270	118	31.2	2860	989.60	9.5	9.5	923	909	15.1	24.9	449	464	7.9	1.08	.86	.82	9.6	8.5|D
1598	1236	1016.0	54.9	216	234	118	30.7	2860	990.59	9.4	9.5	923	908	15.1	24.9	452	465	7.9	1.08	.84	.81	9.6	8.5|D
[illegible]7	1237	1017.0	57.7	221	243	118	31.1	2850	991.48	9.5	9.5	922	908	15.1	24.9	454	466	8.0	1.08	.83	.80	9.6	8.5|D
1600	1238	1018.0	44.3	218	240	118	31.5	2860	992.25	9.4	9.5	924	903	15.2	24.9	456	467	8.0	1.08	.90	.87	9.6	8.5|D
1601	1247	1019.0	52.0	257	298	94	27.7	2980	993.74	9.4	9.5	940	932	15.2	25.0	463	468	8.0	1.09	.78	.76	9.6	8.5|D↑
1602	1248	1020.0	45.2	280	299	90	28.2	2980	994.83	9.5	9.5	943	928	15.2	25.0	464	469	8.0	1.09	.81	.78	9.6	8.5|D
1603	1250	1021.0	48.3	291	308	92	29.4	2980	995.82	9.4	9.5	941	920	15.2	25.0	467	470	8.1	1.09	.80	.78	9.6	8.5|D
1604	1251	1022.0	47.3	286	300	89	29.7	2970	996.72	9.5	9.5	944	946	15.2	25.0	468	471	8.1	1.09	.80	.78	9.6	8.5|D
1605	1252	1023.0	48.7	291	308	91	30.5	2970	997.58	9.5	9.5	944	947	15.3	25.0	469	472	8.1	1.09	.81	.78	9.6	8.5|D
1606	1253	1024.0	58.7	277	290	91	30.7	2970	998.47	9.5	9.5	942	947	15.3	25.0	468	473	8.1	1.10	.77	.74	9.6	8.5|D
1607	1254	1025.0	71.0	259	283	93	30.0	2970	999.34	9.5	9.5	942	946	15.3	25.0	470	474	8.1	1.10	.72	.70	9.6	8.5|D
1608	1255	1026.0	60.1	244	265	94	29.8	2970	1000.5	9.5	9.5	942	921	15.3	25.0	470	475	8.1	1.10	.76	.74	9.6	8.5|D
1609	1256	1027.0	55.8	244	261	98	29.7	2970	1001.1	9.4	9.5	942	928	15.3	25.0	472	476	8.2	1.10	.79	.76	9.6	8.5|D
1610	1304	1028.0	50.7	241	303	106	28.8	2790	1002.0	9.5	9.5	904	896	15.4	25.1	479	477	8.2	1.10	.82	.79	9.6	8.5|D↑
1611	1305	1029.0	49.4	279	300	113	27.9	2800	1002.2	9.5	9.5	908	913	15.4	25.1	481	478	8.2	1.11	.83	.80	9.7	8.5|D
1612	1307	1030.0	51.9	281	302	114	28.6	2790	1002.5	9.5	9.5	908	888	15.4	25.1	482	479	8.2	1.11	.83	.80	9.7	8.5|D
1613	1307	1031.0	57.7	267	276	117	28.3	2780	1002.6	9.5	9.5	908	913	15.4	25.1	481	480	8.2	1.11	.81	.77	9.7	8.5|D-
1614	1308	1032.0	47.8	271	290	116	28.9	3030	1003.4	9.5	9.5	936	944	15.5	25.1	484	481	8.3	1.11	.85	.82	9.7	8.5|D
1615	1309	1033.0	53.7	267	285	116	29.2	3030	1004.3	9.5	9.5	949	955	15.5	25.1	484	482	8.3	1.11	.82	.79	9.7	8.5|D
1616	1310	1034.0	53.8	260	285	116	29.3	3030	1005.2	9.5	9.5	951	954	15.5	25.1	485	483	8.3	1.12	.82	.79	9.7	8.5|D
1617	1311	1035.0	50.6	254	277	116	29.5	3020	1006.2	9.5	9.5	949	933	15.5	25.1	486	484	8.3	1.12	.84	.81	9.7	8.5|D
1618	1313	1036.0	47.0	246	267	116	29.8	3020	1007.3	9.5	9.5	949	939	15.5	25.1	488	485	8.3	1.12	.86	.83	9.7	8.5|D
1619	1314	1037.0	44.2	245	263	117	30.6	3030	1008.3	9.5	9.5	949	928	15.5	25.1	489	486	8.4	1.12	.88	.85	9.7	8.5|D
1620	1324	1038.0	39.5	206	282	109	31.2	2920	1011.4	9.5	9.5	927	914	15.5	25.2	497	487	8.4	1.13	.89	.86	9.7	8.5|D↑
1621	1325	1039.0	52.2	291	306	111	28.4	2920	1011.5	9.5	9.5	930	936	15.5	25.2	500	488	8.4	1.13	.81	.78	9.7	8.5|D
1622	1327	1040.0	48.0	297	315	110	29.1	2930	1012.1	9.4	9.5	929	916	15.5	25.2	503	489	8.4	1.13	.83	.80	9.7	8.5|D
1623	1328	1041.0	47.7	297	317	110	29.9	2930	1013.3	9.5	9.5	929	914	15.5	25.2	503	490	8.4	1.13	.84	.81	9.7	8.5|D
[illegible]24	1329	1042.0	42.4	293	308	111	30.5	2930	1014.6	9.5	9.5	932	911	15.5	25.2	498	491	8.5	1.14	.87	.84	9.7	8.5|D
1625	1330	1043.0	50.2	298	311	114	31.1	2920	1015.7	9.5	9.5	932	911	15.5	25.2	469	492	8.5	1.14	.85	.81	9.7	8.5|D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 07:30 Date Apr 12 '90
Data Recorded at time 13:32 Date Apr 2 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT- m	THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
626	1332	1044.0	50.9	275	293	120	31.4	2910	1016.8	9.5	9.5	930	908	15.5	25.2	439	493	8.5	1.14	.86	.82	9.7	8.5 D
627	1333	1045.0	44.6	281	295	103	32.0	2910	1018.0	9.5	9.5	931	911	15.5	25.2	431	494	8.5	1.14	.86	.83	9.7	8.5 D
628	1334	1046.0	53.7	277	288	102	32.3	2910	1018.9	9.5	9.5	931	934	15.5	25.2	435	495	8.5	1.15	.82	.79	9.7	8.5 D
629	1335	1047.0	41.1	275	297	103	32.7	2940	1020.2	9.4	9.5	935	916	15.5	25.2	434	496	8.6	1.15	.88	.85	9.7	8.5 D
630	1349	1048.0	49.3	300	348	103	32.6	2950	1023.3	9.5	9.5	931	914	15.5	25.3	472	497	8.6	1.15	.84	.81	9.7	8.5 D↑
631	1350	1049.0	54.4	317	330	107	32.0	2940	1024.2	9.5	9.5	933	912	15.5	25.3	474	498	8.6	1.15	.82	.79	9.7	8.5 D
632	1351	1050.0	54.4	321	340	108	32.5	2950	1025.1	9.5	9.5	935	921	15.5	25.3	476	499	8.6	1.15	.83	.80	9.7	8.5 D
633	1352	1051.0	59.9	306	329	110	32.1	2940	1025.9	9.5	9.5	935	927	15.5	25.3	477	500	8.6	1.16	.81	.78	9.7	8.5 D
634	1353	1052.0	59.0	297	310	113	32.2	2950	1026.8	9.5	9.5	932	918	15.5	25.3	478	501	8.7	1.16	.82	.78	9.7	8.5 D
635	1354	1053.0	52.3	290	311	114	32.5	2940	1027.9	9.5	9.5	934	913	15.5	25.3	479	502	8.7	1.16	.85	.82	9.7	8.5 D
636	1356	1054.0	42.2	275	293	115	33.0	2960	1029.5	9.5	9.5	933	939	15.5	25.3	481	503	8.7	1.16	.90	.87	9.7	8.5 D
637	1357	1055.0	41.6	273	292	115	34.0	2950	1030.6	9.5	9.5	933	924	15.5	25.3	483	504	8.7	1.17	.91	.88	9.7	8.5 D
638	1359	1056.0	37.6	267	303	115	33.3	2950	1031.0	9.5	9.5	932	918	15.5	25.3	485	505	8.8	1.17	.93	.90	9.7	8.5 D
639	1408	1057.0	42.4	255	284	115	31.9	2970	1033.0	9.5	9.5	910	905	15.5	25.3	492	506	8.8	1.17	.90	.86	9.7	8.5 D↑
640	1409	1058.0	55.6	310	346	107	30.9	2970	1033.7	9.4	9.5	931	912	15.5	25.4	495	507	8.8	1.18	.81	.78	9.7	8.5 D
641	1410	1059.0	47.6	320	338	104	32.4	2970	1034.7	9.5	9.5	931	935	15.5	25.4	497	508	8.8	1.18	.85	.82	9.7	8.5 D
642	1411	1060.0	51.5	316	332	105	32.6	2960	1035.6	9.5	9.5	933	912	15.5	25.4	499	509	8.8	1.18	.84	.80	9.7	8.5 D
643	1412	1061.0	53.3	304	321	97	32.8	2970	1036.5	9.5	9.5	933	939	15.5	25.4	501	510	8.9	1.18	.81	.78	9.7	8.5 D
644	1413	1062.0	51.7	294	320	93	33.1	2980	1037.5	9.5	9.5	933	919	15.5	25.4	501	511	8.9	1.18	.81	.78	9.7	8.5 D
645	1415	1063.0	47.1	283	301	93	33.5	2970	1038.4	9.5	9.5	932	922	15.5	25.4	504	512	8.9	1.19	.83	.81	9.7	8.5 D
646	1416	1064.0	42.1	281	308	96	34.7	2970	1039.4	9.5	9.5	931	935	15.5	25.4	504	513	8.9	1.19	.87	.84	9.7	8.5 D
647	1418	1065.0	34.3	286	322	93	36.3	2960	1040.6	9.5	9.5	931	911	15.5	25.4	505	514	8.9	1.19	.93	.90	9.7	8.5 D
648	1419	1066.0	35.5	282	308	98	37.8	2950	1041.3	9.5	9.5	931	934	15.5	25.4	509	515	9.0	1.19	.94	.91	9.7	8.5 D
649	1428	1067.1	39.7	289	460	97	44.4	2890	1042.8	9.5	9.5	912	905	15.5	25.5	514	516	9.0	1.20	.95	.92	9.7	8.5 D
650	1431	1068.0	42.0	298	375	97	32.1	3050	1044.9	9.5	9.5	923	935	15.5	25.5	520	517	9.0	1.20	.86	.83	9.7	8.5 D↑
651	1432	1069.0	51.2	303	322	102	30.2	3050	1045.8	9.5	9.5	945	925	15.5	25.5	521	518	9.1	1.20	.81	.78	9.7	8.5 D
652	1433	1070.0	50.6	297	311	103	30.2	3050	1046.8	9.5	9.5	945	923	15.6	25.5	522	519	9.1	1.20	.82	.79	9.7	8.5 D
653	1435	1071.0	44.6	289	310	104	30.6	3080	1047.9	9.4	9.5	950	938	15.6	25.5	523	520	9.1	1.21	.85	.82	9.7	8.5 D
654	1436	1072.0	46.2	295	311	105	31.0	3080	1048.9	9.4	9.5	949	929	15.6	25.5	524	521	9.1	1.21	.85	.82	9.7	8.5 D
655	1437	1073.0	49.5	298	314	100	31.4	2980	1049.7	9.5	9.5	941	930	15.6	25.5	526	522	9.1	1.21	.83	.79	9.7	8.5 D
656	1438	1074.0	53.2	295	310	103	31.6	2980	1050.3	9.5	9.5	935	938	15.6	25.5	527	523	9.2	1.21	.82	.79	9.7	8.5 D
657	1440	1075.0	49.2	279	296	104	31.5	2980	1050.8	9.5	9.5	935	921	15.6	25.5	528	524	9.2	1.21	.84	.80	9.7	8.5 D
658	1441	1076.0	45.6	278	293	103	31.7	2980	1050.8	9.5	9.5	937	916	15.6	25.5	530	525	9.2	1.22	.85	.82	9.7	8.5 D
659	1450	1077.0	55.4	288	310	112	30.2	2890	1052.0	9.5	9.5	916	907	15.6	25.6	535	526	9.2	1.22	.82	.78	9.7	8.5 D↑
660	1451	1078.0	43.2	302	315	118	30.3	3000	1053.3	9.5	9.5	927	910	15.6	25.6	520	527	9.3	1.22	.89	.85	9.7	8.5 D
661	1452	1079.0	47.1	301	313	119	30.6	3030	1054.4	9.4	9.5	934	913	15.6	25.6	489	528	9.3	1.22	.87	.84	9.7	8.5 D
662	1454	1080.0	46.9	300	313	121	31.1	3040	1055.5	9.4	9.5	943	922	15.6	25.6	467	529	9.3	1.23	.88	.84	9.7	8.5 D
663	1455	1081.0	44.3	291	319	122	31.5	3030	1056.6	9.4	9.5	945	926	15.6	25.6	467	530	9.3	1.23	.90	.86	9.7	8.5 D
664	1456	1082.0	44.4	292	312	121	31.8	3030	1057.5	9.5	9.5	946	926	15.6	25.6	469	531	9.3	1.23	.90	.86	9.7	8.5 D
665	1458	1083.0	43.4	299	313	121	32.3	3020	1058.4	9.5	9.5	944	930	15.7	25.6	471	532	9.4	1.23	.90	.87	9.7	8.5 D
666	1459	1084.0	37.8	299	338	120	32.5	3030	1059.4	9.5	9.5	944	923	15.7	25.6	473	533	9.4	1.24	.94	.90	9.7	8.5 D
667	1500	1085.0	43.8	297	313	120	32.8	3030	1060.1	9.5	9.5	943	924	15.7	25.6	475	534	9.4	1.24	.90	.87	9.7	8.5 D
668	1502	1086.0	42.9	299	320	120	33.8	3030	1060.1	9.5	9.5	944	923	15.7	25.6	475	535	9.4	1.24	.92	.88	9.7	8.5 D
669	1510	1087.0	47.9	289	323	108	32.6	2910	1062.9	9.4	9.5	911	896	15.9	25.6	425	536	9.5	1.25	.86	.82	9.7	8.5 D
670	1512	1088.0	48.9	308	327	122	32.7	2910	1064.0	9.4	9.5	921	907	15.9	25.6	406	537	9.5	1.25	.88	.85	9.7	8.5 D
671	1513	1089.0	55.2	308	328	120	32.6	2900	1064.9	9.5	9.5	922	901	15.9	25.6	388	538	9.5	1.25	.85	.81	9.7	8.5 D
672	1514	1090.0	52.7	293	307	125	32.7	2900	1065.8	9.5	9.5	921	907	15.9	25.6	374	539	9.5	1.26	.87	.83	9.7	8.5 D
673	1515	1091.0	45.3	256	279	128	31.4	2920	1066.7	9.5	9.5	922	907	15.9	25.6	354	540	9.5	1.26	.90	.86	9.7	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 07:37 Date Apr 12 '90
Data Recorded at time 15:17 Date Apr 2 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TWI	DXC	NXB	ECD	NXMD
1674	1517	1092.0	36.7	250	269	125	31.9	2920	1067.7	9.5	9.5	921	913	16.0	25.6	332	541	9.6	1.26	.95	.91	9.7	8.5|D
1675	1519	1093.0	30.8	243	262	123	33.4	3000	1068.8	9.5	9.5	919	900	16.1	25.6	338	542	9.6	1.27	1.00	.96	9.7	8.5|D
1676	1521	1094.0	31.2	252	275	122	35.3	3000	1069.7	9.5	9.5	934	914	16.1	25.6	358	543	9.6	1.27	1.01	.97	9.7	8.5|D
1677	1523	1095.0	28.2	225	248	123	34.1	3050	1069.9	9.5	9.5	939	920	16.1	25.6	374	544	9.7	1.28	1.02	.98	9.7	8.5|D
1678	1533	1096.0	27.3	212	290	114	32.1	2980	1071.9	9.5	9.5	915	903	15.9	25.7	401	545	9.7	1.28	1.00	.96	9.7	8.5|D↑
1679	1534	1097.0	32.6	272	303	100	28.6	2990	1073.3	9.4	9.5	931	936	15.9	25.7	414	546	9.7	1.28	.90	.87	9.7	8.5|D
1680	1536	1098.0	36.8	296	332	96	30.3	2990	1074.6	9.5	9.5	931	917	15.9	25.7	429	547	9.8	1.29	.87	.84	9.7	8.5|D
1681	1537	1099.0	41.9	308	341	93	30.7	2990	1075.6	9.5	9.5	931	911	15.9	25.7	439	548	9.8	1.29	.84	.81	9.7	8.5|D
1682	1539	1100.0	42.4	306	322	95	31.2	2980	1076.8	9.5	9.5	931	917	15.8	25.7	443	549	9.8	1.29	.85	.82	9.7	8.5|D
1683	1540	1101.0	40.7	307	324	94	31.3	2970	1077.9	9.5	9.5	930	916	15.8	25.7	444	550	9.8	1.29	.86	.83	9.7	8.5|D
1684	1542	1102.0	42.3	315	328	93	32.4	2970	1079.0	9.5	9.5	929	932	15.8	25.7	446	551	9.9	1.29	.85	.82	9.7	8.5|D
1685	1543	1103.0	41.3	315	330	95	33.0	3010	1079.6	9.5	9.5	932	924	15.8	25.8	448	552	9.9	1.30	.87	.84	9.7	8.5|D
1686	1544	1104.0	43.9	312	343	94	33.1	3010	1079.6	9.5	9.5	937	917	15.7	25.8	450	553	9.9	1.30	.85	.82	9.7	8.5|D
1687	1546	1105.0	40.5	312	329	93	33.5	3010	1079.8	9.5	9.5	939	917	15.7	25.8	451	554	9.9	1.30	.87	.84	9.7	8.5|D
1688	1557	1106.0	46.2	286	376	103	30.5	3000	1084.1	9.4	9.5	937	918	15.6	25.8	488	555	9.9	1.30	.84	.81	9.7	8.5|D↑
1689	1559	1107.0	38.2	325	392	111	33.1	3000	1085.3	9.5	9.5	940	919	15.6	25.8	490	556	10.0	1.30	.92	.89	9.7	8.5|D
1690	1601	1108.0	34.9	273	309	122	30.7	3000	1086.5	9.5	9.5	940	920	15.6	25.8	492	557	10.0	1.31	.95	.91	9.7	8.5|D
1691	1602	1109.0	31.6	264	280	123	30.1	2990	1087.7	9.5	9.5	937	923	15.6	25.8	493	558	10.0	1.31	.97	.93	9.7	8.5|D
1692	1604	1110.0	31.6	254	272	124	30.9	2990	1089.1	9.5	9.5	938	941	15.6	25.8	495	559	10.1	1.32	.98	.94	9.7	8.5|D
1693	1606	1111.0	34.0	255	279	124	31.8	2990	1089.8	9.4	9.5	940	918	15.6	25.8	495	560	10.1	1.32	.97	.93	9.7	8.5|D
1694	1608	1112.0	26.6	243	265	124	31.2	2990	1090.2	9.5	9.5	939	942	15.6	25.8	497	561	10.1	1.33	1.02	.98	9.7	8.5|D
1695	1610	1113.0	29.3	252	274	112	32.4	3000	1091.5	9.5	9.5	938	924	15.7	25.8	499	562	10.2	1.33	.98	.94	9.7	8.5|D
1696	1612	1114.0	29.2	244	266	100	32.9	3000	1093.4	9.5	9.5	939	945	15.7	25.8	500	563	10.2	1.33	.96	.93	9.7	8.5|D
1697	1614	1115.0	29.1	249	277	99	33.5	3000	1094.9	9.5	9.5	937	928	15.7	25.8	502	564	10.2	1.34	.96	.93	9.7	8.5|D
1698	1624	1116.0	40.9	284	350	107	32.8	2730	1097.6	9.5	9.5	891	896	15.8	25.9	506	565	10.3	1.34	.90	.86	9.6	8.5|D
1699	1626	1117.0	34.7	293	313	117	31.3	2740	1098.4	9.5	9.5	891	882	15.8	25.9	507	566	10.3	1.34	.95	.91	9.6	8.5|D
1700	1627	1118.0	34.5	328	366	114	32.1	2740	1099.1	9.5	9.5	891	870	15.9	25.9	507	567	10.3	1.35	.95	.91	9.6	8.5|D
1701	1629	1119.0	34.0	287	320	125	32.7	3000	1099.6	9.5	9.5	931	919	15.9	25.9	507	568	10.4	1.35	.98	.94	9.6	8.5|D
1702	1631	1120.0	30.1	282	295	127	33.5	3020	1099.8	9.5	9.5	940	944	15.9	25.9	505	569	10.4	1.35	1.01	.97	9.7	8.5|D
1703	1633	1121.0	33.5	273	296	125	33.6	3020	1100.5	9.5	9.5	940	943	16.0	25.9	504	570	10.4	1.36	.99	.95	9.7	8.5|D
1704	1635	1122.0	32.0	269	300	122	34.0	3030	1101.7	9.5	9.5	939	919	16.0	25.9	504	571	10.4	1.36	1.00	.96	9.7	8.5|D
1705	1637	1123.0	25.6	257	293	122	34.1	3030	1103.3	9.5	9.5	940	919	16.1	25.9	504	572	10.5	1.37	1.05	1.01	9.6	8.5|D
1706	1639	1124.0	27.5	247	276	122	33.9	3030	1104.8	9.4	9.5	941	920	16.2	25.9	502	573	10.5	1.37	1.03	.99	9.6	8.5|D
1707	1650	1125.0	34.9	299	356	104	36.3	3070	1108.6	9.5	9.5	933	941	16.4	26.0	502	574	10.6	1.38	.96	.92	9.6	8.5|D
1708	1652	1126.0	29.5	270	294	100	30.8	3070	1109.3	9.5	9.5	944	950	16.4	26.0	500	575	10.6	1.38	.95	.91	9.6	8.5|D
1709	1654	1127.0	26.6	260	287	102	31.1	3080	1109.3	9.5	9.5	941	932	16.4	26.0	498	576	10.6	1.38	.97	.94	9.6	8.5|D
1710	1656	1128.0	25.8	269	303	98	33.3	3070	1110.1	9.4	9.5	941	919	16.5	26.0	497	577	10.7	1.39	.99	.95	9.6	8.5|D
1711	1659	1129.0	26.4	261	288	99	33.7	3070	1111.5	9.4	9.5	940	931	16.5	26.0	495	578	10.7	1.39	.99	.95	9.6	8.5|D
1712	1701	1130.0	24.3	255	276	99	34.3	3070	1112.8	9.5	9.5	937	928	16.6	26.0	495	579	10.8	1.39	1.02	.98	9.6	8.5|D
1713	1703	1131.0	26.1	258	283	98	35.6	3080	1113.9	9.5	9.5	940	919	16.7	26.0	494	580	10.8	1.40	1.01	.97	9.6	8.5|D
1714	1706	1132.0	27.3	253	279	99	35.9	3070	1115.0	9.4	9.5	941	920	16.7	26.0	494	581	10.8	1.40	1.00	.96	9.6	8.5|D
1715	1708	1133.0	25.1	253	291	99	36.5	3100	1116.1	9.5	9.5	944	923	16.7	26.0	494	582	10.9	1.40	1.03	.99	9.6	8.5|D
1716	1721	1134.1	22.7	245	302	97	35.7	2990	1119.0	9.4	9.5	922	903	16.9	26.0	490	583	10.9	1.41	1.04	1.00	9.6	8.5|D↑
1717	1722	1135.0	30.3	304	353	91	29.6	3060	1119.8	9.5	9.5	936	929	16.9	26.0	491	584	11.0	1.41	.91	.88	9.6	8.5|D
1718	1724	1136.0	32.0	297	332	96	30.0	3050	1120.9	9.5	9.5	938	917	16.9	26.0	490	585	11.0	1.41	.91	.88	9.6	8.5|D
1719	1726	1137.0	28.5	297	347	95	30.5	3060	1122.1	9.5	9.5	936	916	16.9	26.0	490	586	11.0	1.42	.94	.91	9.6	8.5|D
1720	1728	1138.0	31.7	297	318	96	31.0	3060	1123.0	9.5	9.5	939	918	16.9	26.0	490	587	11.0	1.42	.92	.89	9.6	8.5|D
1721	1730	1139.0	30.5	306	341	93	32.4	3060	1124.1	9.5	9.5	941	920	17.0	26.0	489	588	11.1	1.42	.94	.90	9.6	8.5|D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 07:44 Date Apr 12 '90
Data Recorded at time 17:32 Date Apr 2 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD IN	MD OUT	lb/gal IN	lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	hr	EST TW	DXC	NXB	ECD	NXMD
722	1732	1140.0	34.0	308	336	94	32.7	3050	1125.0	9.5	9.5	937	918	17.0	26.1			489	589	11.1	1.42	.91	.88	9.6	8.5 D
723	1734	1141.0	29.1	298	325	95	32.1	3050	1125.9	9.5	9.5	940	918	17.0	26.1			488	590	11.1	1.43	.95	.91	9.6	8.5 D
+ POOH with NB#2, HTC X3A at 1141m to run 13.375" casing.																									
+ RIH with NB#3, 12.25" HYCALOG PDC DS40 with 3 X 13, 2 X 15 jets at 1141m.																									
	Date	Apr 4 '90																							
732	2105	1142.0	22.8	191	258	104	5.19	1900	1141.0	9.5	9.5	772	770	22.7	32.2			503	.99	0.0	0.00	.75	.77	9.5	8.5 D
733	2106	1143.0	38.2	211	242	109	7.14	1890	1141.0	9.5	9.5	774	753	22.7	32.2			503	2.00	.1	0.00	.71	.74	9.5	8.5 D
+ Perform FIT at 1144m.																									
735	2319	1144.0	29.8	180	223	107	7.02	2220	1144.0	9.5	9.5	852	843	22.7	31.9			487	2.99	.1	.00	.75	.78	9.5	8.5 D+
736	2324	1145.0	11.6	294	366	105	6.44	2220	1144.0	9.4	9.5	853	844	22.2	31.9			491	4.00	.2	.02	.90	.93	9.5	8.5 D
737	2329	1146.0	12.3	322	394	113	9.09	2270	1144.0	9.4	9.5	858	836	21.7	31.8			492	4.99	.3	.05	.97	1.00	9.5	8.5 D
738	2339	1147.0	7.78	445	518	112	14.4	2270	1144.0	9.4	9.5	860	838	21.1	31.8			496	6.00	.4	.09	1.16	1.20	9.6	8.5 D
739	2344	1148.0	11.3	562	598	121	35.9	2070	1144.0	9.5	9.5	862	841	20.9	31.7			499	7.00	.5	.14	1.40	1.44	9.6	8.5 D
740	2351	1149.0	9.47	598	617	132	42.8	1960	1144.0	9.5	9.5	796	776	20.8	31.7			503	7.99	.6	.21	1.55	1.59	9.6	8.5 D
741	2358	1150.0	7.85	552	618	125	41.1	1960	1144.3	9.5	9.5	794	780	21.0	31.6			505	8.98	.8	.28	1.57	1.60	9.6	8.5 D
	Date	Apr 5 '90																							
742	0018	1151.0	13.3	554	582	124	32.0	1950	1146.4	9.5	9.5	793	798	21.4	31.4			515	9.99	1.0	.35	1.32	1.35	9.6	8.5 D
743	0020	1152.0	11.4	563	574	134	12.3	1870	1146.5	9.5	9.5	793	779	21.4	31.4			514	11.0	1.0	.36	1.08	1.10	9.6	8.5 D-
744	0025	1153.0	11.8	576	617	140	15.5	1860	1147.5	9.5	9.5	794	780	21.5	31.4			516	12.0	1.1	.39	1.14	1.16	9.6	8.5 D
745	0030	1154.0	12.4	576	594	137	17.9	1860	1148.3	9.5	9.5	794	774	21.5	31.4			518	13.0	1.1	.42	1.17	1.19	9.6	8.5 D
746	0034	1155.0	15.2	578	598	136	19.0	1860	1149.0	9.5	9.5	794	796	21.6	31.3			519	14.0	1.2	.45	1.14	1.16	9.6	8.5 D
747	0037	1156.0	15.7	581	610	124	18.2	1860	1149.6	9.5	9.5	794	799	21.6	31.3			520	15.0	1.3	.47	1.10	1.12	9.6	8.5 D
748	0041	1157.0	14.9	576	593	115	16.2	1860	1150.1	9.4	9.5	793	795	21.7	31.3			523	16.0	1.3	.49	1.06	1.08	9.6	8.5 D
749	0046	1158.0	12.9	567	593	122	15.3	1870	1150.7	9.3	9.4	794	772	21.7	31.3			523	17.0	1.4	.51	1.09	1.11	9.6	8.5 D
750	0053	1159.0	9.19	525	567	119	17.5	1870	1150.7	9.2	9.3	794	780	21.8	31.3			528	18.0	1.5	.54	1.19	1.22	9.6	8.5 D
751	0106	1160.0	18.7	444	574	129	8.35	1870	1152.6	9.2	9.3	793	772	21.9	31.3			535	19.0	1.6	.55	.90	.92	9.5	8.5 D
752	0109	1161.0	19.3	568	593	142	5.88	1860	1153.2	9.2	9.3	791	772	21.9	31.3			535	20.0	1.6	.57	.85	.87	9.5	8.5 D
753	0113	1162.0	17.9	581	596	131	8.62	1870	1153.9	9.2	9.3	793	784	21.9	31.3			538	21.0	1.7	.58	.92	.94	9.5	8.5 D
754	0116	1163.0	17.2	592	603	125	10.5	1870	1154.8	9.2	9.3	789	767	21.9	31.3			539	22.0	1.7	.60	.96	.98	9.4	8.5 D
755	0119	1164.0	19.2	583	597	132	11.1	1870	1155.6	9.2	9.3	790	776	21.9	31.3			540	23.0	1.8	.61	.96	.98	9.4	8.5 D
756	0127	1165.0	7.90	569	598	137	13.2	1870	1157.5	9.2	9.3	790	770	21.9	31.3			541	24.0	1.9	.65	1.20	1.22	9.4	8.5 D
757	0139	1166.0	5.54	511	570	111	16.4	1620	1159.3	9.2	9.3	731	737	22.1	31.3			548	25.0	2.1	.70	1.30	1.32	9.3	8.5 D
758	0144	1167.0	12.1	591	623	98	18.9	1630	1159.4	9.2	9.3	734	738	22.2	31.3			550	26.0	2.2	.71	1.14	1.16	9.3	8.5 D
759	0145	1168.0	38.2	553	606	121	18.1	1630	1160.0	9.2	9.3	735	721	22.2	31.3			550	27.0	2.2	.72	.92	.93	9.3	8.5 D
760	0147	1169.0	27.9	430	519	132	17.3	1630	1160.6	9.2	9.3	736	740	22.2	31.3			552	28.0	2.3	.73	.99	1.01	9.3	8.5 D
761	0159	1170.0	19.3	488	530	111	10.9	1730	1162.6	9.2	9.3	756	735	22.3	31.4			534	29.0	2.4	.75	.93	.95	9.3	8.5 D
762	0202	1171.0	20.0	533	575	112	14.2	1670	1163.6	9.2	9.3	743	721	22.3	31.4			507	30.0	2.4	.76	.99	1.00	9.3	8.5 D
763	0207	1172.1	16.0	499	536	141	16.3	1670	1164.3	9.2	9.3	744	723	22.3	31.4			512	31.1	2.5	.78	1.12	1.13	9.3	8.5FD
764	0213	1173.0	12.9	491	587	108	15.6	1710	1164.5	9.2	9.3	753	744	22.3	31.4			515	32.0	2.6	.80	1.09	1.11	9.3	8.5 D
765	0218	1174.0	11.8	528	548	112	16.5	1710	1164.7	9.2	9.3	754	741	22.3	31.4			519	33.0	2.7	.81	1.14	1.15	9.4	8.5 D
766	0223	1175.0	14.4	547	560	98	17.8	1720	1164.8	9.2	9.3	754	756	22.4	31.4			517	34.0	2.7	.82	1.08	1.10	9.4	8.5 D
767	0225	1176.0	14.7	543	560	100	18.9	1710	1164.9	9.2	9.3	754	735	22.4	31.4			517	35.0	2.8	.83	1.10	1.12	9.4	8.5 D
768	0230	1177.0	12.1	544	557	100	20.1	1720	1165.4	9.2	9.3	755	760	22.4	31.4			520	36.0	2.8	.84	1.16	1.18	9.4	8.5 D
769	0234	1178.0	14.2	543	553	102	20.1	1720	1166.3	9.2	9.3	755	733	22.4	31.5			521	37.0	2.9	.85	1.13	1.15	9.4	8.5 D
770	0250	1179.0	12.8	534	571	107	11.5	1720	1170.0	9.2	9.3	754	746	22.6	31.5			531	38.0	3.0	.87	1.02	1.03	9.4	8.5 D
771	0253	1180.0	16.8	568	576	104	7.06	1720	1172.2	9.2	9.3	754	740	22.6	31.5			532	39.0	3.1	.88	.87	.88	9.3	8.5 D
772	0257	1181.0	18.3	570	577	103	8.46	1730	1172.6	9.2	9.3	753	733	22.6	31.5			534	40.0	3.1	.89	.88	.89	9.3	8.5 D
773	0300	1182.0	16.3	566	576	107	8.93	1720	1173.3	9.2	9.3	753	744	22.6	31.5			534	41.0	3.2	.90	.92	.93	9.4	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 07:51 Date Apr 12 '90
Data Recorded at time 03:04 Date Apr 5 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS m	BIT-hr	EST TW	DXC	NXB	ECD	NXMD
774	0304	1183.0	14.9	552	571	114	9.20	1710	1174.2	9.2	9.3	754	733	22.6	31.5	537	42.0	3.3	.91	.95	.97	9.4	8.5 D
775	0308	1184.0	16.9	557	575	111	11.3	1720	1175.0	9.2	9.3	753	731	22.6	31.5	539	43.0	3.3	.92	.97	.98	9.4	8.5 D
776	0312	1185.0	15.9	552	574	116	13.1	1720	1175.9	9.2	9.3	755	736	22.6	31.5	542	44.0	3.4	.93	1.02	1.03	9.4	8.5 D
777	0315	1186.0	17.4	556	568	113	14.6	1720	1176.5	9.2	9.3	753	733	22.6	31.5	542	45.0	3.4	.93	1.02	1.03	9.4	8.5 D
778	0321	1187.0	10.3	500	577	116	14.4	1730	1177.8	9.2	9.3	754	734	22.6	31.5	546	46.0	3.5	.94	1.13	1.15	9.4	8.5 D
779	0333	1188.0	8.00	386	454	105	14.7	1690	1178.4	9.2	9.3	736	724	22.7	31.6	550	47.0	3.5	.95	1.17	1.19	9.4	8.5 D†
780	0333	1189.0	10.3	124	175	80	8.36	1680	1178.4	9.2	9.3	739	730	22.7	31.6	551	48.0	3.5	.95	1.28	1.29	9.4	8.5 D
781	0342	1190.0	11.0	497	569	120	15.8	1700	1180.8	9.2	9.3	748	728	22.8	31.6	536	49.0	3.7	.97	1.15	1.17	9.4	8.5 D
782	0348	1191.0	9.78	547	589	127	20.8	1700	1182.5	9.2	9.3	746	731	22.8	31.6	491	50.0	3.8	.99	1.28	1.29	9.3	8.5 D
783	0356	1192.0	7.32	517	530	116	22.1	1700	1184.6	9.2	9.3	745	747	22.9	31.6	495	51.0	3.9	1.01	1.35	1.36	9.3	8.5 D
784	0403	1193.0	8.40	513	527	117	21.8	1690	1186.6	9.2	9.3	746	726	23.0	31.6	499	52.0	4.0	1.02	1.31	1.32	9.3	8.5 D
785	0411	1194.0	7.71	512	526	119	20.9	1690	1187.4	9.2	9.3	747	750	23.1	31.7	505	53.0	4.1	1.04	1.32	1.33	9.3	8.5 D
786	0420	1195.0	6.42	521	533	115	21.5	1690	1189.5	9.2	9.3	746	750	23.3	31.7	510	54.0	4.3	1.07	1.37	1.38	9.3	8.5 D
787	0430	1196.0	5.87	491	532	117	21.8	1700	1191.2	9.2	9.3	747	734	23.3	31.7	515	55.0	4.5	1.09	1.40	1.41	9.3	8.5 D
788	0441	1197.0	5.74	476	539	109	21.3	1690	1192.5	9.2	9.3	746	725	23.4	31.7	520	56.0	4.6	1.10	1.38	1.39	9.3	8.5 D
789	0451	1198.0	6.07	516	533	121	21.2	1710	1193.7	9.2	9.3	746	725	23.5	31.8	525	57.0	4.8	1.11	1.39	1.40	9.3	8.5 D
790	0507	1199.0	18.5	525	583	97	9.43	1650	1195.1	9.2	9.3	736	741	23.6	31.8	532	58.0	4.9	1.12	.89	.90	9.3	8.5 D†
791	0509	1200.0	26.3	537	578	137	9.04	1650	1195.3	9.2	9.3	736	715	23.6	31.8	531	59.0	4.9	1.12	.88	.88	9.3	8.5 D
792	0511	1201.0	29.9	516	574	150	9.81	1650	1195.6	9.2	9.3	735	721	23.6	31.8	530	60.0	5.0	1.13	.89	.89	9.3	8.5 D
793	0513	1202.0	40.2	508	555	106	11.4	1650	1195.7	9.2	9.3	734	713	23.6	31.8	531	61.0	5.0	1.13	.78	.80	9.3	8.5 D
794	0515	1203.0	34.2	520	566	98	12.3	1650	1195.8	9.2	9.3	734	737	23.7	31.8	530	62.0	5.0	1.13	.82	.83	9.3	8.5 D
795	0516	1204.0	32.1	516	563	101	13.2	1660	1196.0	9.2	9.3	734	720	23.7	31.9	530	63.0	5.1	1.13	.85	.86	9.3	8.5 D
796	0518	1205.0	34.4	506	565	104	13.7	1660	1196.2	9.2	9.3	734	739	23.7	31.9	530	64.0	5.1	1.13	.85	.86	9.3	8.5 D
797	0520	1206.0	38.8	478	539	119	14.2	1660	1196.3	9.2	9.3	735	720	23.7	31.9	528	65.0	5.1	1.13	.86	.86	9.4	8.5 D
798	0521	1207.0	40.1	516	561	102	15.3	1650	1196.5	9.2	9.3	734	737	23.8	31.9	529	66.0	5.1	1.13	.83	.84	9.4	8.5 D
799	0534	1208.0	33.5	385	452	150	3.62	1690	1197.1	9.2	9.3	742	721	23.9	31.9	539	67.0	5.2	1.14	.71	.71	9.4	8.5 D
800	0537	1209.0	22.3	391	485	126	4.39	1690	1197.4	9.2	9.3	741	743	23.9	31.9	543	68.0	5.2	1.14	.77	.78	9.4	8.5 D
801	0543	1210.0	8.80	411	546	121	6.74	1690	1198.1	9.2	9.3	744	723	23.8	31.9	555	69.0	5.3	1.15	1.00	1.00	9.4	8.5 D
802	0547	1211.0	14.8	543	548	114	10.4	1690	1198.1	9.2	9.3	742	720	23.8	31.9	561	70.0	5.4	1.15	.98	.99	9.4	8.5 D
803	0552	1212.0	14.8	542	548	115	12.1	1680	1198.6	9.2	9.3	742	723	23.8	31.9	568	71.0	5.5	1.16	1.01	1.02	9.4	8.5 D
804	0556	1213.0	14.2	539	549	119	13.1	1680	1199.4	9.2	9.3	742	734	23.8	32.0	573	72.0	5.6	1.16	1.05	1.05	9.4	8.5 D
805	0605	1214.0	6.81	524	543	132	15.4	1670	1204.2	9.2	9.3	742	722	23.8	32.0	588	73.0	5.7	1.17	1.27	1.27	9.4	8.5 D
+ POOH with NB#3 at 1214m.																							
RIH with NB#4, 12.25" HTC ATJ1 with 3 X 16 jets at 1214m.																							
811	1418	1215.0	20.8	313	357	102	17.6	2620	1214.0	9.2	9.3	788	767	20.7	29.4	543	.98	.0	.01	1.01	1.05	9.3	8.5 D
812	1421	1216.0	20.7	292	314	114	19.0	2640	1214.0	9.2	9.3	793	796	20.2	30.1	542	2.00	.1	.02	1.06	1.10	9.3	8.5 D
813	1433	1217.0	12.9	258	305	119	19.0	2580	1214.0	9.2	9.3	769	765	18.3	30.0	540	3.00	.1	.03	1.18	1.21	9.3	8.5 D†
814	1437	1218.0	17.3	273	307	122	14.0	2600	1214.0	9.2	9.3	783	762	18.0	29.9	537	4.00	.2	.04	1.03	1.07	9.3	8.5 D
815	1440	1219.1	21.9	298	321	120	17.2	2600	1214.0	9.2	9.3	785	788	17.8	29.9	540	4.98	.2	.06	1.03	1.06	9.3	8.5 D
816	1442	1220.0	21.7	319	342	117	19.9	2620	1214.0	9.2	9.3	786	772	17.7	29.9	536	6.00	.3	.07	1.06	1.10	9.3	8.5 D
817	1445	1221.0	19.1	288	313	122	19.9	2620	1214.0	9.2	9.3	786	791	17.6	29.8	533	7.00	.3	.08	1.10	1.14	9.3	8.5 D
818	1448	1222.0	20.1	283	307	122	20.9	2620	1214.0	9.1	9.2	787	772	17.7	29.8	509	8.00	.4	.10	1.10	1.14	9.3	8.5 D
819	1452	1223.0	16.4	253	287	123	24.5	2630	1214.0	9.1	9.2	786	778	17.9	29.8	508	8.99	.4	.12	1.20	1.24	9.3	8.5 D
820	1502	1224.0	10.6	187	247	123	21.0	2620	1215.0	9.1	9.2	787	779	18.5	29.7	512	10.0	.5	.14	1.26	1.29	9.3	8.5 D
821	1508	1225.0	16.9	243	300	107	19.9	2620	1217.0	9.1	9.2	788	774	18.9	29.7	515	11.0	.6	.16	1.10	1.14	9.3	8.5 D†
822	1512	1226.0	15.0	255	297	107	22.7	2620	1217.0	9.1	9.2	789	794	19.1	29.7	515	12.0	.6	.17	1.17	1.21	9.3	8.5 D
823	1520	1227.0	20.7	284	311	115	23.0	2710	1217.9	9.1	9.2	796	780	19.3	29.6	515	13.0	.7	.18	1.11	1.15	9.3	8.5 D†
824	1524	1228.0	15.3	269	308	120	22.1	2640	1219.3	9.1	9.2	793	796	19.5	29.6	517	14.0	.7	.20	1.19	1.22	9.3	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 07:59 Date Apr 12 '90
Data Recorded at time 15:27 Date Apr 5 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
1825	1527	1229.0	18.4	274	299	119	22.1	2940	1220.5	9.1	9.2	793	772	19.6	29.6	518	15.0	.8	.21	1.14	1.18	9.3	8.5 D
1826	1530	1230.0	17.4	262	291	117	20.5	2970	1221.5	9.1	9.2	792	771	19.7	29.6	519	16.0	.9	.22	1.13	1.16	9.3	8.5 D
1827	1534	1231.0	17.7	245	274	118	21.2	2960	1222.6	9.1	9.2	793	773	19.7	29.6	520	17.0	.9	.24	1.14	1.17	9.2	8.5 D
1828	1538	1232.0	13.2	214	241	120	19.9	2960	1223.3	9.1	9.2	795	799	19.9	29.6	521	18.0	1.0	.26	1.19	1.22	9.3	8.5 D
1829	1543	1233.0	13.8	210	237	118	20.5	2970	1223.8	9.1	9.2	796	801	19.9	29.6	522	19.0	1.1	.27	1.19	1.22	9.3	8.5 D
1830	1547	1234.0	14.4	217	242	120	21.8	2970	1224.1	9.1	9.2	794	774	20.0	29.6	522	20.0	1.1	.29	1.20	1.23	9.3	8.5 D
1831	1551	1235.0	13.1	207	234	118	20.6	2970	1225.1	9.1	9.2	795	800	20.0	29.6	524	21.0	1.2	.31	1.20	1.23	9.3	8.5 D
1832	1555	1236.0	14.8	213	238	119	20.7	2970	1226.2	9.1	9.2	795	775	20.1	29.6	526	22.0	1.3	.32	1.18	1.21	9.3	8.5 D
1833	1607	1237.0	16.3	256	302	118	16.8	2950	1228.0	9.1	9.2	791	770	20.2	29.6	528	23.0	1.3	.34	1.09	1.12	9.3	8.5 D
1834	1610	1238.0	16.7	271	299	121	19.1	2950	1229.0	9.1	9.2	791	771	20.2	29.6	530	24.0	1.4	.35	1.13	1.16	9.3	8.5 D
1835	1614	1239.0	16.1	254	286	122	20.2	2970	1230.1	9.1	9.2	793	795	20.2	29.6	530	25.0	1.5	.37	1.16	1.18	9.3	8.5 D
1836	1619	1240.0	12.1	232	282	122	21.0	2960	1231.4	9.1	9.2	794	797	20.2	29.6	530	26.0	1.5	.39	1.23	1.26	9.3	8.5 D
1837	1624	1241.0	12.0	217	264	122	19.2	2950	1232.5	9.1	9.2	791	795	20.2	29.6	533	27.0	1.6	.40	1.21	1.24	9.3	8.5 D
1838	1628	1242.0	16.8	236	266	122	21.8	2960	1233.4	9.1	9.2	794	798	20.2	29.6	534	28.0	1.7	.42	1.17	1.20	9.3	8.5 D
1839	1632	1243.0	14.7	225	251	122	22.8	2950	1234.3	9.1	9.2	792	778	20.1	29.6	535	29.0	1.8	.43	1.21	1.24	9.3	8.5 D
1840	1636	1244.0	14.9	217	243	122	20.6	2960	1235.3	9.1	9.2	793	796	20.1	29.6	536	30.0	1.8	.45	1.18	1.20	9.3	8.5 D
1841	1640	1245.0	13.8	207	233	122	21.0	2960	1236.2	9.1	9.2	792	795	20.1	29.6	536	31.0	1.9	.47	1.20	1.23	9.3	8.5 D
1842	1653	1246.0	15.4	221	333	122	20.5	2900	1237.7	9.1	9.2	781	760	20.2	29.7	537	32.0	1.9	.48	1.17	1.20	9.2	8.5 D↑
1843	1655	1247.0	21.9	284	356	149	20.1	2880	1238.4	9.1	9.2	781	765	20.2	29.7	536	33.0	2.0	.49	1.13	1.15	9.3	8.5 D
1844	1659	1248.0	17.2	250	275	151	20.3	2880	1239.3	9.1	9.2	781	766	20.2	29.7	539	34.0	2.0	.51	1.19	1.21	9.3	8.5 D
1845	1702	1249.0	20.7	241	267	128	20.6	2890	1239.9	9.1	9.2	782	762	20.3	29.7	542	35.0	2.1	.52	1.11	1.14	9.3	8.5 D
1846	1704	1250.0	24.2	238	270	125	20.9	2880	1240.3	9.1	9.2	779	784	20.3	29.7	541	36.0	2.1	.53	1.07	1.10	9.3	8.5 D
1847	1708	1251.0	16.1	228	264	120	21.5	2890	1241.0	9.1	9.2	780	759	20.3	29.7	542	37.0	2.2	.54	1.17	1.19	9.3	8.5 D
1848	1711	1252.0	20.2	242	269	121	22.0	2880	1241.8	9.1	9.2	779	758	20.3	29.7	543	38.0	2.2	.55	1.12	1.15	9.3	8.5 D
1849	1714	1253.0	17.5	226	253	121	20.5	2890	1242.7	9.1	9.2	782	787	20.4	29.7	545	39.0	2.3	.57	1.14	1.16	9.3	8.5 D
1850	1717	1254.0	17.3	226	256	119	21.6	2890	1243.6	9.1	9.2	779	765	20.4	29.7	545	40.0	2.4	.58	1.15	1.17	9.3	8.5 D
1851	1721	1255.0	19.1	237	265	124	23.1	2890	1244.3	9.1	9.2	782	768	20.4	29.7	543	41.0	2.4	.59	1.16	1.18	9.3	8.5 D
1852	1738	1256.0	18.7	256	378	117	18.1	2940	1246.3	9.1	9.2	784	790	20.4	29.8	546	42.0	2.5	.60	1.08	1.10	9.3	8.5 D↑
1853	1741	1257.0	25.1	294	321	118	13.8	2930	1247.2	9.1	9.2	787	768	20.4	29.8	548	43.0	2.5	.61	.95	.97	9.3	8.5 D
1854	1743	1258.0	26.2	285	314	123	15.3	2930	1247.7	9.1	9.2	787	768	20.4	29.8	546	44.0	2.5	.61	.97	.99	9.3	8.5 D
1855	1746	1259.0	17.6	268	295	122	16.1	2120	1248.6	9.1	9.2	514	564	20.4	29.8	551	45.0	2.6	.62	1.07	1.09	9.2	8.5 D
1856	1749	1260.0	21.9	264	316	123	17.3	2960	1249.6	9.1	9.2	787	768	20.4	29.8	546	46.0	2.6	.63	1.04	1.06	9.3	8.5 D
1857	1752	1261.0	22.2	236	273	126	16.9	2960	1250.6	9.1	9.2	792	778	20.4	29.8	548	47.0	2.7	.64	1.04	1.06	9.3	8.5 D
1858	1755	1262.0	18.5	222	253	122	17.7	2960	1251.5	9.1	9.2	789	792	20.4	29.8	548	48.0	2.7	.65	1.08	1.10	9.3	8.5 D
1859	1758	1263.0	20.7	234	257	125	19.1	2960	1252.4	9.1	9.2	789	767	20.4	29.8	548	49.0	2.8	.66	1.08	1.10	9.3	8.5 D
1860	1801	1264.0	16.4	215	245	122	18.0	2950	1253.6	9.1	9.2	791	770	20.4	29.8	550	50.0	2.9	.67	1.12	1.14	9.3	8.5 D
1861	1805	1265.0	18.2	223	278	128	15.7	2970	1254.6	9.1	9.2	793	799	20.4	29.8	548	51.0	2.9	.68	1.07	1.08	9.3	8.5 D
1862	1816	1266.0	26.4	287	335	147	14.5	2080	1256.0	9.1	9.2	656	642	20.3	29.8	550	52.0	3.0	.69	1.00	1.01	9.3	8.5 D
1863	1819	1267.0	18.5	251	286	127	15.2	2930	1256.0	9.1	9.2	698	717	20.3	29.8	550	53.0	3.0	.70	1.05	1.07	9.3	8.5 D
1864	1822	1268.0	21.7	249	273	122	17.0	2930	1256.0	9.1	9.2	784	763	20.2	29.8	548	54.0	3.1	.71	1.04	1.06	9.3	8.5 D
1865	1824	1269.0	24.8	258	291	124	18.5	2940	1256.0	9.1	9.2	785	791	20.2	29.8	548	55.0	3.1	.72	1.03	1.05	9.3	8.5 D
1866	1827	1270.0	22.6	260	302	120	19.5	2930	1257.0	9.1	9.2	784	775	20.2	29.8	550	56.0	3.1	.73	1.06	1.08	9.3	8.5 D
1867	1829	1271.0	22.4	233	265	118	19.6	2930	1258.2	9.1	9.2	784	769	20.2	29.8	551	57.0	3.2	.74	1.06	1.08	9.3	8.5 D
1868	1832	1272.0	21.5	238	279	122	19.3	2940	1259.2	9.1	9.2	785	770	20.1	29.8	551	58.0	3.2	.75	1.07	1.09	9.3	8.5 D
1869	1835	1273.0	21.1	238	264	117	20.0	2930	1260.3	9.1	9.2	787	773	20.1	29.8	552	59.0	3.3	.75	1.08	1.09	9.3	8.5 D
1870	1837	1274.0	26.3	248	279	120	19.9	2930	1261.2	9.1	9.2	788	774	20.1	29.8	553	60.0	3.3	.76	1.03	1.05	9.3	8.5 D
1871	1848	1275.0	29.7	259	318	133	17.1	2880	1263.3	9.1	9.2	765	758	19.9	29.8	551	61.0	3.3	.77	.99	1.00	9.3	8.5 D↑
1872	1849	1276.0	42.7	319	336	156	15.7	2880	1263.8	9.1	9.2	777	782	19.9	29.8	552	62.0	3.4	.77	.92	.93	9.3	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 08:06 Date Apr 12 '90
Data Recorded at time 18:51 Date Apr 5 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD IN lb/gal	MD OUT lb/gal	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
1873	1851	1277.0	37.5	313	328	144	15.9	2880	1264.2	9.1	9.2	779	765	19.9	29.7	551	63.0	3.4	.78	.94	.95	9.3	8.5 D
1874	1852	1278.0	44.7	342	414	120	19.0	2890	1264.5	9.1	9.2	780	766	19.9	29.8	551	64.0	3.4	.78	.89	.91	9.3	8.5 D
1875	1854	1279.0	28.9	336	417	117	26.2	2890	1265.1	9.1	9.2	779	765	19.9	29.8	553	65.0	3.5	.79	1.07	1.09	9.3	8.5 D
1876	1857	1280.0	20.6	258	293	126	21.3	2880	1265.4	9.1	9.2	779	765	19.9	29.8	553	66.0	3.5	.80	1.11	1.13	9.3	8.5 D
1877	1901	1281.0	17.0	242	276	127	19.8	2890	1265.7	9.1	9.2	778	765	19.9	29.8	552	67.0	3.6	.81	1.14	1.16	9.3	8.5 D
1878	1905	1282.0	13.4	226	296	128	22.0	2880	1267.4	9.1	9.2	775	762	19.9	29.8	553	68.0	3.6	.83	1.23	1.25	9.3	8.5 D
1879	1908	1283.0	22.2	273	301	129	24.3	2880	1268.4	9.1	9.2	776	781	19.9	29.8	553	69.0	3.7	.83	1.14	1.16	9.3	8.5 D
1880	1911	1284.0	16.2	246	270	127	24.8	2880	1269.8	9.1	9.2	778	756	19.9	29.8	554	70.0	3.7	.85	1.22	1.24	9.3	8.5 D
1881	1924	1285.0	23.9	247	298	139	20.0	2880	1273.2	9.1	9.2	775	762	19.9	29.7	551	71.0	3.8	.86	1.09	1.10	9.3	8.5 D
1882	1926	1286.0	31.8	323	345	112	20.8	2880	1274.0	9.1	9.2	775	755	19.9	29.7	553	72.0	3.8	.86	.98	1.00	9.3	8.5 D
1883	1928	1287.0	33.8	320	345	111	21.8	2900	1274.7	9.1	9.2	776	767	19.9	29.7	553	73.0	3.8	.87	.98	.99	9.3	8.5 D
1884	1930	1288.0	32.9	319	333	111	22.2	2900	1275.0	9.1	9.2	778	757	19.9	29.8	548	74.0	3.9	.87	.99	1.00	9.3	8.5 D
1885	1931	1289.0	37.0	318	333	114	23.6	2890	1275.0	9.1	9.2	776	756	19.9	29.7	546	75.0	3.9	.88	.98	1.00	9.3	8.5 D
1886	1933	1290.0	27.3	300	320	114	24.0	2890	1275.2	9.1	9.2	774	753	19.9	29.8	547	76.0	3.9	.88	1.06	1.07	9.3	8.5 D
1887	1935	1291.0	31.6	295	308	116	24.8	2890	1276.5	9.1	9.2	776	756	19.9	29.8	548	77.0	4.0	.89	1.03	1.05	9.3	8.5 D
1888	1937	1292.0	30.4	279	299	119	24.7	2890	1277.7	9.1	9.2	776	767	19.9	29.8	548	78.0	4.0	.89	1.05	1.07	9.3	8.5 D
1889	1940	1293.0	24.2	260	284	120	24.5	2900	1279.2	9.1	9.2	777	781	19.9	29.8	547	79.0	4.0	.90	1.11	1.12	9.3	8.5 D
1890	1943	1294.0	19.3	241	268	122	25.0	2900	1280.2	9.1	9.2	777	769	19.9	29.8	548	80.0	4.1	.91	1.17	1.19	9.3	8.5 D
1891	1958	1295.0	29.7	294	356	124	21.0	2890	1283.1	9.1	9.2	775	753	19.8	29.8	549	81.0	4.1	.92	1.02	1.04	9.3	8.5 D
1892	2000	1296.0	29.4	333	373	105	21.2	2890	1283.7	9.1	9.2	775	761	19.8	29.8	550	82.0	4.2	.92	.99	1.01	9.3	8.5 D
1893	2002	1297.0	29.6	337	354	116	22.3	2880	1284.2	9.1	9.2	776	754	19.8	29.8	549	83.0	4.2	.93	1.02	1.04	9.3	8.5 D
[illegible]	2004	1298.0	23.1	327	343	118	23.4	2880	1284.7	9.1	9.2	773	753	19.8	29.8	550	84.0	4.3	.94	1.10	1.11	9.3	8.5 D
1895	2009	1299.0	17.1	285	355	134	23.7	2880	1284.7	9.1	9.2	775	766	19.8	29.8	551	85.0	4.3	.95	1.21	1.22	9.3	8.5 D
1896	2013	1300.0	16.4	334	448	140	22.5	2880	1286.0	9.1	9.2	776	756	19.8	29.8	553	86.0	4.4	.96	1.21	1.22	9.3	8.5 D
1897	2016	1301.0	19.4	282	309	139	22.8	2880	1287.6	9.1	9.2	775	753	19.8	29.8	550	87.0	4.4	.98	1.17	1.18	9.3	8.5 D
1898	2019	1302.0	18.4	280	304	125	24.5	2880	1289.4	9.1	9.2	774	780	19.8	29.7	552	88.0	4.5	.99	1.19	1.20	9.3	8.5 D
1899	2022	1303.0	17.7	267	289	130	25.2	2890	1291.1	9.1	9.2	775	761	19.7	29.7	552	89.0	4.5	1.00	1.21	1.22	9.3	8.5 D
1900	2045	1304.0	20.4	288	320	134	23.5	2900	1295.8	9.1	9.2	777	757	19.7	29.7	553	90.0	4.6	1.01	1.17	1.18	9.2	8.5 D
1901	2047	1305.0	23.2	323	339	149	19.7	2920	1297.0	9.1	9.2	776	767	19.7	29.7	554	91.0	4.6	1.02	1.11	1.12	9.2	8.5 D
1902	2050	1306.0	25.4	325	335	149	21.3	2920	1298.0	9.1	9.2	780	784	19.7	29.7	554	92.0	4.7	1.03	1.11	1.12	9.2	8.5 D
1903	2054	1307.0	14.0	328	513	129	20.3	2910	1299.0	9.1	9.2	778	783	19.8	29.7	504	93.0	4.8	1.04	1.20	1.21	9.2	8.5 D
1904	2057	1308.0	20.1	284	311	130	21.3	2900	1299.9	9.1	9.2	778	757	19.8	29.7	507	93.9	4.8	1.05	1.13	1.14	9.2	8.5 D
1905	2100	1309.0	19.2	297	322	129	23.6	2910	1300.7	9.1	9.2	776	761	19.9	29.7	508	95.0	4.9	1.06	1.17	1.18	9.2	8.5 D
1906	2103	1310.0	16.9	267	308	132	24.3	2900	1301.7	9.1	9.2	776	756	19.9	29.7	508	96.0	4.9	1.07	1.22	1.23	9.2	8.5 D
1907	2106	1311.0	21.6	269	293	132	25.7	2910	1302.5	9.1	9.2	777	756	19.9	29.7	509	97.0	5.0	1.08	1.18	1.19	9.2	8.5 D
1908	2109	1312.0	19.8	245	300	124	23.8	2900	1303.4	9.1	9.2	775	755	20.0	29.7	508	98.0	5.0	1.09	1.16	1.17	9.2	8.5 D
1909	2113	1313.0	17.6	213	240	112	19.7	2920	1304.1	9.1	9.2	777	764	20.0	29.7	510	99.0	5.1	1.09	1.11	1.12	9.3	8.5 D
1910	2125	1314.0	18.9	251	298	129	17.7	2950	1304.1	9.1	9.2	779	759	20.0	29.7	511	100	5.1	1.11	1.09	1.10	9.3	8.5 D
1911	2127	1315.0	36.2	332	361	123	21.3	2950	1304.1	9.1	9.2	781	783	20.0	29.7	510	101	5.1	1.11	.98	.99	9.3	8.5 D
1912	2129	1316.0	33.7	331	344	104	22.5	2940	1304.1	9.1	9.2	781	759	20.1	29.7	511	102	5.2	1.11	.97	.98	9.3	8.5 D
1913	2130	1317.0	35.1	300	329	108	21.7	2930	1304.1	9.1	9.2	780	771	20.1	29.7	511	103	5.2	1.12	.96	.97	9.3	8.5 D
1914	2132	1318.0	35.9	318	347	106	23.5	2940	1304.3	9.1	9.2	781	786	20.1	29.7	512	104	5.2	1.12	.97	.98	9.3	8.5 D
1915	2134	1319.0	29.5	328	347	108	25.0	2950	1305.1	9.1	9.2	779	765	20.0	29.7	510	105	5.3	1.12	1.04	1.05	9.3	8.5 D
1916	2137	1320.0	19.9	310	379	121	24.6	2930	1306.3	9.1	9.2	779	758	20.0	29.7	513	106	5.3	1.13	1.16	1.17	9.3	8.5 D
1917	2141	1321.0	16.4	282	307	129	24.7	2920	1307.2	9.1	9.2	781	772	20.0	29.7	514	107	5.4	1.14	1.22	1.23	9.3	8.5 D
1918	2144	1322.0	15.5	279	308	124	25.1	2930	1308.5	9.1	9.2	780	759	20.0	29.7	515	108	5.4	1.15	1.23	1.24	9.3	8.5 D
[illegible]	2149	1323.0	14.4	263	289	125	25.5	2950	1309.7	9.1	9.2	780	767	19.9	29.7	515	109	5.5	1.17	1.26	1.26	9.3	8.5 D
1920	2200	1324.0	20.1	281	330	137	18.4	2930	1312.3	9.1	9.2	776	755	19.9	29.7	516	110	5.6	1.18	1.10	1.11	9.3	8.5 D

ESSO AUSTRALIA: Terakihi No.1 --

Data Printed at time 08:13 Date Apr 12 '90
Data Recorded at time 22:03 Date Apr 5 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	hr	EST TW	DXC	NXB	ECD	NXMD
1921	2203	1325.0	17.8	295	314	138	20.7	2920	1313.2	9.1	9.2	777	781	19.8	29.7	514	111	5.6	1.19	1.16	1.17	9.3	8.5 D
1922	2206	1326.0	18.5	299	323	137	22.6	2920	1313.8	9.1	9.2	778	763	19.8	29.7	515	112	5.7	1.20	1.18	1.18	9.3	8.5 D
1923	2209	1327.0	19.2	280	301	141	22.9	2920	1313.8	9.1	9.2	777	781	19.8	29.7	516	113	5.7	1.21	1.18	1.18	9.3	8.5 D
1924	2213	1328.0	17.5	273	290	116	21.9	2930	1315.2	9.1	9.2	776	761	19.8	29.7	516	114	5.8	1.22	1.14	1.15	9.3	8.5 D
1925	2216	1329.0	20.4	288	305	114	23.9	2930	1316.8	9.1	9.2	776	763	19.7	29.6	517	115	5.8	1.22	1.13	1.14	9.3	8.5 D
1926	2219	1330.0	16.2	265	292	114	27.2	2930	1318.9	9.1	9.2	777	782	19.7	29.6	520	116	5.9	1.23	1.23	1.24	9.3	8.5 D
1927	2223	1331.0	18.4	250	270	117	26.9	2920	1320.0	9.1	9.2	776	756	19.6	29.6	517	117	5.9	1.24	1.20	1.21	9.3	8.5 D
1928	2226	1332.0	16.1	260	284	116	26.8	2940	1321.2	9.1	9.2	778	758	19.6	29.6	518	118	6.0	1.25	1.23	1.24	9.3	8.5 D
1929	2240	1333.0	15.2	253	300	123	23.0	2990	1323.5	9.1	9.2	782	761	19.6	29.6	518	119	6.1	1.27	1.21	1.21	9.3	8.5 D
1930	2244	1334.0	13.4	250	275	138	20.0	2980	1323.8	9.1	9.2	784	775	19.6	29.6	518	120	6.2	1.28	1.22	1.22	9.3	8.5 D
1931	2247	1335.0	21.4	300	336	131	24.5	2980	1324.5	9.1	9.2	783	762	19.6	29.6	519	121	6.2	1.29	1.16	1.16	9.3	8.5 D
1932	2250	1336.0	17.8	288	314	133	25.7	2990	1325.5	9.1	9.2	784	763	19.6	29.6	520	122	6.3	1.30	1.23	1.23	9.3	8.5 D
1933	2255	1337.0	14.8	271	301	127	26.9	3000	1326.8	9.1	9.2	783	768	19.7	29.7	519	123	6.4	1.31	1.28	1.28	9.3	8.5 D
1934	2258	1338.0	15.3	265	293	112	27.9	2990	1327.8	9.1	9.2	784	764	19.7	29.7	521	124	6.4	1.32	1.25	1.25	9.3	8.5 D
1935	2303	1339.0	13.2	250	284	115	26.8	2990	1329.3	9.1	9.2	786	766	19.7	29.7	519	125	6.5	1.33	1.28	1.28	9.3	8.5 D
1936	2307	1340.0	12.5	253	276	114	27.8	3000	1330.5	9.1	9.2	783	762	19.7	29.7	521	126	6.6	1.34	1.30	1.31	9.3	8.5 D
1937	2313	1341.0	15.7	265	335	123	22.4	3020	1332.0	9.1	9.2	786	772	19.7	29.7	525	127	6.6	1.35	1.19	1.20	9.3	8.5 D
1938	2317	1342.0	15.0	290	322	114	23.8	3000	1332.9	9.1	9.2	785	763	19.7	29.7	523	128	6.7	1.36	1.21	1.21	9.3	8.5 D
1939	2331	1343.0	16.4	281	333	124	18.6	2910	1334.7	9.1	9.2	772	752	19.8	29.8	525	129	6.8	1.37	1.13	1.13	9.2	8.5 D
1940	2334	1344.0	17.3	324	360	113	22.5	2910	1335.8	9.1	9.2	773	759	19.9	29.5	526	130	6.8	1.37	1.15	1.16	9.2	8.5 D
1941	2338	1345.0	15.2	271	296	123	22.9	3140	1336.9	9.1	9.2	803	794	19.9	29.6	528	131	6.9	1.38	1.21	1.21	9.2	8.5 D
1942	2343	1346.0	13.5	260	311	120	24.2	2980	1338.1	9.1	9.2	778	782	19.9	29.6	525	132	7.0	1.40	1.25	1.25	9.2	8.5 D
1943	2350	1347.0	11.6	249	334	99	28.9	2760	1339.8	9.1	9.2	782	769	19.9	29.5	527	133	7.1	1.40	1.30	1.31	9.2	8.5 D↑
1944	2356	1348.0	10.3	233	288	107	31.4	2750	1340.9	9.1	9.2	782	761	19.9	29.5	529	134	7.1	1.42	1.39	1.39	9.2	8.5 D
	Date	Apr 6 '90																					
1945	0001	1349.0	12.8	240	263	111	31.2	2760	1341.9	9.1	9.2	783	768	19.9	29.5	528	135	7.2	1.43	1.34	1.34	9.2	8.5 D
1946	0005	1350.0	12.0	248	271	112	31.8	2750	1342.8	9.1	9.2	782	769	20.0	29.5	528	136	7.3	1.44	1.36	1.37	9.2	8.5 D
1947	0011	1351.0	11.4	239	292	114	29.7	2750	1342.9	9.1	9.2	783	761	20.0	29.5	530	137	7.4	1.45	1.35	1.36	9.2	8.5 D
1948	0032	1352.0	10.8	228	326	118	24.9	2810	1346.1	9.1	9.2	782	773	20.2	29.5	532	138	7.5	1.47	1.31	1.32	9.2	8.5 D
1949	0036	1353.0	16.8	301	329	142	29.0	2790	1346.8	9.1	9.2	788	773	20.2	29.5	532	139	7.5	1.48	1.30	1.30	9.2	8.5 D
1950	0040	1354.0	14.0	278	296	149	29.3	2740	1347.5	9.1	9.2	780	766	20.2	29.5	533	140	7.6	1.49	1.37	1.36	9.2	8.5 D
1951	0045	1355.0	12.6	253	277	149	28.7	2740	1348.2	9.1	9.2	779	757	20.2	29.5	535	141	7.7	1.51	1.39	1.38	9.2	8.5 D
1952	0049	1356.0	12.8	243	270	121	29.2	2740	1349.1	9.1	9.2	780	767	20.2	29.5	535	142	7.8	1.52	1.34	1.33	9.2	8.5 D
1953	0055	1357.0	11.5	235	259	124	26.5	2750	1350.2	9.1	9.2	780	784	20.2	29.5	535	143	7.9	1.54	1.33	1.33	9.2	8.5 D
1954	0100	1358.0	10.8	232	267	121	25.3	2740	1351.2	9.1	9.2	779	765	20.1	29.5	534	144	7.9	1.55	1.33	1.32	9.2	8.5 D
1955	0105	1359.0	10.1	222	247	123	25.9	2740	1352.2	9.1	9.2	780	766	20.1	29.5	536	145	8.0	1.56	1.35	1.35	9.2	8.5 D
1956	0111	1360.0	16.7	293	387	103	23.1	2740	1352.4	9.1	9.2	781	773	20.1	29.5	537	146	8.1	1.57	1.15	1.15	9.2	8.5 D
1957	0115	1361.0	14.2	304	336	116	26.2	2750	1352.5	9.1	9.2	783	767	20.1	29.5	539	147	8.2	1.58	1.26	1.25	9.2	8.5 D
1958	0127	1362.0	17.7	308	348	126	25.5	2840	1354.3	9.1	9.2	790	773	20.1	29.5	537	148	8.2	1.59	1.21	1.21	9.2	8.5 D
1959	0131	1363.0	15.2	317	335	140	25.6	2840	1355.2	9.1	9.2	793	795	20.1	29.4	538	149	8.3	1.60	1.28	1.27	9.2	8.5 D
1960	0135	1364.0	14.3	286	305	147	26.1	2840	1356.1	9.2	9.2	794	773	20.1	29.4	540	150	8.4	1.61	1.31	1.30	9.2	8.5 D
1961	0139	1365.0	16.3	294	318	149	27.9	2840	1356.9	9.2	9.2	794	774	20.1	29.4	538	151	8.4	1.63	1.31	1.30	9.3	8.5 D
1962	0143	1366.0	16.2	299	319	129	29.3	2840	1357.6	9.2	9.2	794	784	20.1	29.4	539	152	8.5	1.64	1.29	1.28	9.3	8.5 D
1963	0147	1367.0	13.9	287	310	139	28.7	2810	1358.4	9.2	9.2	792	771	20.2	29.4	539	153	8.6	1.65	1.34	1.33	9.3	8.5 D
1964	0151	1368.0	13.4	270	286	148	29.1	2820	1359.2	9.2	9.2	790	776	20.2	29.4	540	154	8.6	1.67	1.37	1.36	9.3	8.5 D
1965	0155	1369.0	14.2	272	296	147	29.6	2830	1359.8	9.2	9.2	791	778	20.2	29.4	540	155	8.7	1.68	1.35	1.34	9.3	8.5 D
1966	0201	1370.0	10.0	234	291	154	24.2	2810	1361.2	9.2	9.2	791	778	20.3	29.4	539	156	8.8	1.70	1.38	1.36	9.3	8.5 D
3	0216	1371.0	12.5	248	320	154	22.1	2730	1362.8	9.2	9.2	774	780	20.4	29.4	545	157	8.9	1.72	1.29	1.27	9.3	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 08:43 Date Apr 12 '90
Data Recorded at time 02:19 Date Apr 6 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
4	0219	1372.0	16.9	321	347	169	21.0	2720	1363.7	9.2	9.2	775	762	20.4	29.4	545	158	9.0	1.73	1.22	1.21	9.3	8.5 D
5	0222	1373.0	18.0	291	313	178	21.9	2810	1364.5	9.2	9.2	792	796	20.5	29.4	545	159	9.0	1.75	1.23	1.22	9.3	8.5 D
6	0226	1374.0	15.5	277	307	182	22.8	2830	1365.5	9.2	9.2	791	793	20.5	29.4	544	160	9.1	1.76	1.29	1.27	9.3	8.5 D
7	0229	1375.0	19.1	316	332	173	26.0	2830	1366.3	9.2	9.2	791	793	20.5	29.4	543	161	9.1	1.78	1.27	1.25	9.3	8.5 D
8	0233	1376.0	17.3	284	313	180	26.0	2810	1367.2	9.2	9.2	790	782	20.5	29.4	544	162	9.2	1.79	1.30	1.28	9.3	8.5 D
9	0239	1377.0	15.9	283	371	174	26.5	2820	1368.5	9.2	9.2	790	770	20.5	29.4	544	163	9.3	1.81	1.32	1.30	9.3	8.5 D
10	0242	1378.0	17.4	294	312	171	26.1	2820	1369.2	9.2	9.2	791	777	20.5	29.4	544	164	9.3	1.82	1.29	1.27	9.3	8.5 D
11	0246	1379.0	15.2	274	294	145	26.0	2820	1370.0	9.2	9.2	791	795	20.5	29.4	544	165	9.4	1.83	1.28	1.27	9.3	8.5 D
12	0251	1380.0	13.0	255	279	146	26.7	2810	1370.9	9.2	9.2	790	794	20.4	29.4	545	166	9.5	1.85	1.33	1.31	9.3	8.5 D
13	0303	1381.0	16.8	315	386	118	23.1	2800	1371.6	9.2	9.2	786	776	20.5	29.4	543	167	9.5	1.86	1.17	1.16	9.3	8.5 D
14	0306	1382.0	19.0	331	367	118	24.5	2800	1372.4	9.2	9.2	788	779	20.5	29.4	542	168	9.6	1.86	1.16	1.15	9.4	8.5 D
15	0310	1383.0	14.9	299	319	127	25.0	2820	1373.6	9.3	9.2	790	795	20.5	29.4	511	169	9.7	1.87	1.24	1.22	9.3	8.5 D
16	0314	1384.0	15.0	278	299	126	25.6	2820	1374.7	9.3	9.2	791	771	20.5	29.4	510	170	9.7	1.88	1.24	1.23	9.4	8.5 D
17	0319	1385.0	13.1	268	304	138	26.1	2820	1376.1	9.3	9.2	790	795	20.5	29.4	511	171	9.8	1.89	1.30	1.29	9.4	8.5 D
18	0323	1386.0	14.9	262	290	142	26.0	2820	1377.0	9.3	9.2	791	769	20.6	29.4	514	172	9.9	1.91	1.27	1.26	9.4	8.5 D
19	0327	1387.0	12.9	253	278	141	26.5	2820	1377.9	9.3	9.2	791	777	20.6	29.4	513	173	9.9	1.92	1.31	1.30	9.4	8.5 D
20	0333	1388.0	19.2	326	402	122	23.8	2820	1379.3	9.3	9.2	790	777	20.6	29.4	513	174	10.0	1.92	1.14	1.13	9.4	8.5 D
21	0336	1389.0	19.0	332	350	131	26.6	2830	1380.0	9.3	9.2	788	780	20.7	29.4	514	175	10.1	1.93	1.20	1.18	9.4	8.5 D
22	0346	1390.0	19.2	331	467	127	24.9	2780	1381.0	9.3	9.2	783	773	20.8	29.5	511	176	10.1	1.94	1.17	1.15	9.4	8.5 D
23	0349	1391.0	19.9	346	408	147	25.5	2760	1381.0	9.3	9.2	780	758	20.8	29.5	513	177	10.2	1.95	1.20	1.18	9.4	8.5 D
24	0353	1392.0	18.2	329	352	170	26.3	2760	1382.1	9.3	9.2	782	787	20.8	29.5	514	178	10.2	1.96	1.27	1.24	9.4	8.5 D
25	0356	1393.0	17.3	314	328	176	26.8	2750	1383.2	9.3	9.2	780	762	20.9	29.5	513	179	10.3	1.98	1.29	1.27	9.4	8.5 D
26	0400	1394.0	16.4	299	322	171	27.0	2760	1384.0	9.3	9.2	780	783	20.9	29.5	514	180	10.3	1.99	1.30	1.28	9.4	8.5 D
27	0405	1395.0	19.0	309	367	135	24.3	2780	1385.1	9.3	9.2	785	771	20.9	29.5	514	181	10.4	2.00	1.17	1.15	9.5	8.5 D
28	0407	1396.0	22.8	372	388	118	25.6	2770	1385.7	9.3	9.2	781	782	20.9	29.5	512	182	10.4	2.00	1.11	1.10	9.5	8.5 D
29	0410	1397.0	21.9	362	375	132	25.6	2760	1386.3	9.3	9.2	777	782	20.9	29.5	514	183	10.5	2.01	1.15	1.13	9.5	8.5 D
30	0413	1398.0	20.8	333	357	144	25.6	2760	1387.0	9.3	9.2	783	762	20.9	29.5	515	184	10.5	2.02	1.18	1.16	9.5	8.5 D
31	0416	1399.0	17.0	314	330	138	25.9	2760	1387.7	9.3	9.2	780	760	20.9	29.5	516	185	10.6	2.03	1.22	1.20	9.5	8.5 D
32	0426	1400.0	20.3	341	417	122	28.1	2830	1389.0	9.3	9.2	788	769	20.9	29.5	516	186	10.6	2.03	1.18	1.16	9.5	8.5 D†
33	0429	1401.0	22.5	374	387	149	24.8	2830	1389.8	9.3	9.2	788	774	20.9	29.5	515	187	10.7	2.04	1.16	1.14	9.5	8.5 D
34	0431	1402.0	23.2	352	365	164	25.3	2830	1390.4	9.3	9.2	789	770	20.9	29.5	515	188	10.7	2.05	1.18	1.16	9.5	8.5 D
35	0434	1403.0	19.6	336	351	172	25.5	2830	1390.6	9.3	9.2	790	776	20.9	29.5	515	189	10.8	2.06	1.24	1.21	9.5	8.5 D
36	0439	1404.0	19.9	322	354	167	24.7	2830	1392.1	9.3	9.2	789	770	20.9	29.5	517	190	10.8	2.07	1.21	1.19	9.5	8.5 D
37	0442	1405.0	19.8	330	352	165	25.5	2830	1393.1	9.3	9.2	788	767	20.9	29.5	517	191	10.9	2.08	1.22	1.20	9.5	8.5 D
38	0447	1406.0	18.4	314	372	159	23.8	2830	1394.6	9.3	9.2	789	768	20.9	29.5	516	192	10.9	2.09	1.21	1.19	9.5	8.5 D†
39	0450	1407.0	18.9	346	417	155	26.5	2820	1395.4	9.3	9.2	789	767	20.9	29.5	515	193	11.0	2.10	1.23	1.21	9.5	8.5 D
40	0454	1408.0	16.7	305	324	154	26.1	2830	1396.2	9.3	9.2	789	794	20.9	29.5	515	194	11.0	2.11	1.26	1.23	9.5	8.5 D
41	0457	1409.0	16.2	292	312	137	25.2	2820	1397.7	9.3	9.2	789	769	20.9	29.5	514	195	11.1	2.12	1.22	1.20	9.5	8.5 D
42	0511	1410.0	19.6	301	348	152	16.0	2740	1400.4	9.3	9.3	776	766	21.0	29.5	506	196	11.2	2.13	1.07	1.05	9.4	8.5 D
43	0513	1411.0	22.7	362	374	142	21.4	2740	1400.7	9.3	9.3	776	761	21.0	29.5	507	197	11.2	2.14	1.10	1.08	9.5	8.5 D
44	0516	1412.0	20.2	357	368	147	22.5	2740	1401.4	9.3	9.3	773	752	21.0	29.6	506	198	11.3	2.15	1.15	1.13	9.5	8.5 D
45	0519	1413.0	22.0	342	361	153	23.2	2740	1402.4	9.3	9.3	774	779	21.0	29.6	507	199	11.3	2.15	1.15	1.13	9.5	8.5 D
46	0522	1414.0	20.1	320	339	162	23.2	2730	1403.4	9.3	9.3	774	760	21.0	29.6	506	200	11.3	2.16	1.19	1.16	9.5	8.5 D
47	0525	1415.0	17.9	301	327	149	23.1	2740	1404.4	9.3	9.3	774	760	21.0	29.6	505	201	11.4	2.17	1.19	1.17	9.5	8.5 D
48	0528	1416.0	18.7	293	315	124	24.4	2740	1404.9	9.3	9.3	775	762	21.0	29.6	506	202	11.5	2.18	1.15	1.14	9.5	8.5 D
49	0533	1417.0	18.8	296	384	128	22.8	2730	1406.3	9.3	9.3	776	781	20.9	29.6	505	203	11.5	2.18	1.14	1.12	9.5	8.5 D
50	0536	1418.0	25.3	355	369	148	23.6	2750	1406.7	9.3	9.3	774	779	20.9	29.6	505	204	11.6	2.19	1.11	1.09	9.5	8.5 D
51	0548	1419.0	23.1	352	366	134	24.6	2830	1408.4	9.3	9.3	783	775	20.9	30.8	500	205	11.6	2.20	1.12	1.10	9.5	8.5 D†

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 08:50 Date Apr 12 '90
Data Recorded at time 05:50 Date Apr 6 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
52	0550	1420.0	29.0	390	421	122	23.1	2830	1409.0	9.3	9.3	786	790	20.9	30.8	500	206	11.6	2.20	1.03	1.01	9.5	8.5 D
53	0552	1421.0	25.3	386	423	135	24.7	2880	1409.6	9.3	9.3	793	779	20.9	30.8	499	207	11.7	2.20	1.11	1.08	9.5	8.5 D
54	0555	1422.0	26.3	358	379	154	25.0	2870	1410.1	9.3	9.3	794	799	20.9	30.8	499	208	11.7	2.21	1.13	1.10	9.5	8.5 D
55	0557	1423.0	22.2	329	352	167	24.9	2810	1410.2	9.3	9.3	786	790	20.9	30.8	498	209	11.7	2.22	1.19	1.16	9.5	8.5 D
56	0600	1424.0	24.2	322	335	170	25.1	2810	1410.2	9.3	9.3	783	788	21.0	23.8	499	210	11.8	2.23	1.18	1.15	9.5	8.5 D
57	0602	1425.0	20.9	304	322	176	24.6	2810	1411.1	9.3	9.3	783	761	21.0	21.3	500	211	11.8	2.24	1.21	1.18	9.5	8.5 D
58	0606	1426.0	19.3	292	315	172	24.9	2800	1412.2	9.3	9.3	784	770	20.9	22.0	498	212	11.9	2.25	1.23	1.20	9.5	8.5 D
59	0610	1427.0	21.9	305	371	155	20.0	2810	1413.8	9.3	9.3	781	787	20.9	22.1	496	213	11.9	2.26	1.11	1.08	9.5	8.5 D
60	0612	1428.0	26.8	368	382	143	23.7	2800	1414.6	9.3	9.3	781	783	20.9	22.0	498	214	12.0	2.26	1.09	1.07	9.5	8.5 D
61	0624	1429.0	23.6	326	402	142	23.2	2840	1417.1	9.3	9.3	787	768	20.8	30.7	492	215	12.0	2.27	1.12	1.09	9.5	8.5 D
62	0627	1430.0	22.8	345	363	125	24.3	2840	1417.8	9.3	9.3	789	793	20.8	30.7	491	216	12.1	2.28	1.11	1.09	9.5	8.5 D
63	0630	1431.1	22.0	318	339	131	25.2	2850	1418.4	9.3	9.3	789	768	20.8	30.7	491	217	12.1	2.28	1.14	1.11	9.5	8.5 D
64	0632	1433.0	19.9	310	312	133	25.5	2840	1418.5	9.3	9.3	789	768	20.8	30.7	491	219	12.1	2.28	1.21	1.18	9.5	8.5 D
65	0635	1435.0	20.6	306	317	131	25.3	2850	1418.6	9.3	9.3	788	780	20.8	30.7	492	221	12.1	2.28	1.15	.32	9.5	8.5 D
66	0636	1436.0	24.6	303	327	129	25.9	2850	1419.5	9.3	9.3	789	781	20.8	30.7	490	222	12.2	2.29	1.11	1.09	9.5	8.5 D
67	0637	1437.0	18.9	297	353	141	23.3	2850	1420.4	9.3	9.3	788	767	20.8	30.7	492	223	12.2	2.30	1.16	1.14	9.5	8.5 D
68	0640	1438.0	20.1	352	375	131	24.5	2850	1421.4	9.3	9.3	788	791	20.9	30.7	496	224	12.3	2.30	1.15	1.12	9.5	8.5 D
69	0643	1439.0	19.9	341	355	125	25.2	2850	1422.7	9.3	9.3	787	779	20.9	29.7	498	225	12.3	2.31	1.15	1.12	9.5	8.5 D
70	0708	1440.4	21.6	324	405	142	23.8	1210	1428.6	9.3	9.3	503	506	20.8	30.7	507	126	12.6	2.35	1.15	1.12	9.4	8.5 D
71	0709	1441.0	20.5	328	341	155	22.5	1200	1431.5	9.3	9.3	500	502	20.9	29.7	507	227	12.6	2.35	1.09	1.06	9.5	8.5 D
72	0714	1442.0	18.1	305	341	161	21.2	2820	1436.5	9.3	9.3	783	764	20.9	29.7	503	228	12.7	2.36	1.18	1.16	9.4	8.5 D
73	0717	1443.0	28.0	370	382	144	24.1	2830	1436.5	9.3	9.3	782	761	20.9	29.7	504	229	12.7	2.37	1.09	1.07	9.4	8.5 D
74	0719	1444.0	22.4	355	383	155	25.0	2820	1436.6	9.3	9.3	783	762	20.9	29.7	505	230	12.8	2.37	1.18	1.15	9.4	8.5 D
75	0722	1445.0	20.2	331	346	167	24.8	2820	1436.6	9.3	9.3	784	769	20.9	29.7	507	231	12.8	2.38	1.22	1.18	9.4	8.5 D
76	0725	1446.0	18.7	315	332	172	25.2	2800	1436.7	9.3	9.3	781	786	20.8	29.7	506	232	12.9	2.39	1.25	1.21	9.4	8.5 D
77	0729	1447.0	17.0	293	316	154	24.1	2820	1436.7	9.3	9.3	781	767	20.8	29.7	507	233	12.9	2.40	1.23	1.20	9.5	8.5 D
78	0732	1448.0	21.5	333	348	134	24.8	2810	1436.7	9.3	9.3	782	773	20.7	29.7	508	234	13.0	2.41	1.14	1.12	9.5	8.5 D
79	0741	1449.0	22.5	352	421	137	25.5	2750	1436.9	9.3	9.3	772	777	20.6	29.8	509	235	13.0	2.42	1.15	1.12	9.5	8.5 D
80	0745	1450.0	17.7	320	348	163	25.0	2840	1438.0	9.3	9.3	784	787	20.6	29.8	511	236	13.1	2.43	1.24	1.21	9.5	8.5 D
81	0748	1451.0	19.6	323	345	162	24.1	2840	1439.2	9.3	9.3	784	787	20.6	29.8	511	237	13.1	2.44	1.20	1.17	9.5	8.5 D
82	0751	1452.0	17.5	316	348	164	23.6	2840	1439.3	9.3	9.3	783	788	20.6	29.8	512	238	13.2	2.45	1.23	1.19	9.5	8.5 D
83	0754	1453.0	20.3	337	351	164	24.4	2830	1440.1	9.3	9.3	783	788	20.6	29.8	513	239	13.2	2.45	1.20	1.17	9.5	8.5 D
84	0757	1454.0	18.0	323	381	140	24.2	2840	1441.5	9.3	9.3	782	760	20.5	29.8	514	240	13.3	2.46	1.19	1.16	9.5	8.5 D
85	0800	1455.0	20.2	338	356	121	23.9	2840	1441.5	9.3	9.3	784	770	20.5	29.8	514	241	13.3	2.47	1.12	1.10	9.5	8.5 D
86	0803	1456.0	20.5	329	359	127	24.3	2840	1441.8	9.3	9.3	783	762	20.5	29.8	513	242	13.4	2.47	1.13	1.11	9.5	8.5 D
87	0806	1457.0	20.6	338	350	130	23.9	2830	1443.1	9.3	9.3	785	775	20.5	29.8	515	243	13.4	2.48	1.14	1.11	9.5	8.5 D
88	0817	1458.0	21.6	323	346	136	23.3	850	1445.2	9.3	9.3	641	569	20.4	29.8	517	244	13.5	2.49	1.13	1.10	9.5	8.5 D
89	0820	1459.0	15.9	317	360	180	20.2	2840	1445.9	9.3	9.3	702	723	20.4	29.8	518	245	13.5	2.50	1.22	1.19	9.5	8.5 D
90	0824	1460.0	17.6	293	310	194	20.6	2830	1446.9	9.3	9.3	785	792	20.4	29.8	519	246	13.6	2.51	1.22	1.18	9.5	8.5 D
91	0827	1461.0	19.6	328	343	181	24.0	2840	1447.9	9.3	9.3	786	765	20.4	29.8	519	247	13.6	2.52	1.23	1.19	9.5	8.5 D
92	0830	1462.0	19.8	326	380	171	23.5	2850	1448.1	9.3	9.3	782	769	20.3	29.8	518	248	13.7	2.53	1.20	1.17	9.5	8.5 D
93	0833	1463.0	20.6	360	382	155	25.5	2860	1448.9	9.3	9.3	784	787	20.3	29.8	519	249	13.7	2.54	1.20	1.16	9.5	8.5 D
94	0836	1464.0	20.0	334	350	165	24.2	2850	1449.8	9.3	9.3	784	774	20.3	29.8	519	250	13.8	2.55	1.20	1.17	9.5	8.5 D
95	0839	1465.0	18.4	321	340	152	23.6	2840	1450.8	9.3	9.3	783	768	20.3	29.8	519	251	13.8	2.56	1.19	1.16	9.5	8.5 D
96	0842	1466.0	18.7	332	347	128	25.0	2850	1451.7	9.3	9.3	782	762	20.2	29.8	519	252	13.9	2.56	1.17	1.14	9.5	8.5 D
97	0845	1467.0	19.4	331	361	123	23.8	2850	1452.8	9.3	9.3	784	786	20.2	29.8	521	253	14.0	2.57	1.14	1.11	9.5	8.5 D
98	0902	1468.0	20.9	332	398	118	21.1	2740	1454.7	9.3	9.3	696	740	20.1	29.8	519	254	14.0	2.57	1.07	1.05	9.5	8.5 D
99	0905	1469.0	20.6	367	397	133	23.6	2770	1455.6	9.3	9.3	771	750	20.1	29.8	526	255	14.0	2.58	1.14	1.11	9.5	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 08:58 Date Apr 12 '90
Data Recorded at time 09:08 Date Apr 6 '90

#	TIME	DEPTH	ROP	TORQUE		RPM	WOB	PUMP	RTRNS	MD lb/gal		FLOW/MIN		TEMP (C)		PVT	-THIS	BIT-	EST	DXC	NXB	ECD	NXMD	
		m	m/hr	AVG	MAX	AVG	AVG	PRES	DEPTH	IN	OUT	IN	OUT	IN	OUT		m	hr	TW					
100	0908	1470.0	19.6	357	378	159	23.9	2780	1456.7	9.3	9.3	772	751	20.1	29.8	526	256	14.1	2.59	1.20	1.16	9.5	8.5	D
101	0911	1471.0	19.4	354	372	161	24.6	2770	1457.7	9.3	9.3	772	752	20.1	29.8	527	257	14.2	2.60	1.21	1.17	9.5	8.5	D
102	0914	1472.0	20.5	344	368	166	23.6	2780	1457.9	9.3	9.3	771	776	20.1	29.8	527	258	14.2	2.61	1.19	1.15	9.5	8.5	D
103	0917	1473.0	19.7	345	363	159	25.1	2840	1458.9	9.3	9.3	781	787	20.1	29.8	528	259	14.3	2.61	1.21	1.17	9.5	8.5	D
104	0920	1474.0	20.4	332	343	156	26.4	2850	1459.8	9.3	9.3	782	762	20.1	29.8	528	260	14.3	2.62	1.21	1.17	9.5	8.5	D
105	0923	1475.0	17.2	314	339	155	26.4	2840	1460.9	9.3	9.3	783	762	20.1	29.8	528	261	14.4	2.63	1.25	1.22	9.5	8.5	D
106	0929	1476.0	16.3	343	380	145	24.4	2850	1462.6	9.3	9.3	781	767	20.0	29.8	530	262	14.4	2.64	1.22	1.19	9.5	8.5	D
107	0932	1477.0	17.9	345	377	136	24.7	2850	1463.7	9.3	9.3	782	787	20.0	29.8	531	263	14.5	2.65	1.19	1.16	9.5	8.5	D
108	0942	1478.0	20.1	338	382	130	26.3	2760	1465.9	9.3	9.3	770	756	19.9	29.9	532	264	14.5	2.65	1.17	1.14	9.5	8.5	D↑
109	0946	1479.0	16.9	350	375	135	28.5	2740	1467.0	9.3	9.3	766	752	20.0	29.8	533	265	14.6	2.66	1.25	1.21	9.5	8.5	D
110	0949	1480.0	17.5	338	358	139	26.2	2830	1467.7	9.3	9.3	779	765	20.0	29.9	534	266	14.7	2.67	1.22	1.19	9.5	8.5	D
111	0952	1481.0	18.2	339	351	142	25.2	2830	1468.2	9.3	9.3	777	756	20.0	29.9	534	267	14.7	2.68	1.20	1.17	9.5	8.5	D
112	0956	1482.0	18.5	341	363	137	29.7	2840	1469.3	9.3	9.3	778	764	20.0	29.9	535	268	14.8	2.68	1.25	1.21	9.5	8.5	D
113	0959	1483.0	18.0	348	376	130	26.8	2830	1470.4	9.3	9.3	778	781	20.0	29.9	535	269	14.8	2.69	1.21	1.17	9.5	8.5	D
114	1002	1484.0	19.1	343	357	134	27.3	2830	1471.3	9.3	9.3	778	769	20.0	29.9	536	270	14.9	2.70	1.20	1.17	9.5	8.5	D
115	1006	1485.0	16.8	339	354	120	26.2	2820	1472.6	9.3	9.3	779	766	20.0	29.9	537	271	14.9	2.70	1.19	1.16	9.5	8.5	D
116	1010	1486.0	19.0	335	359	110	24.5	2820	1474.1	9.3	9.3	776	762	20.0	29.9	537	272	15.0	2.71	1.12	1.09	9.5	8.5	D
117	1014	1487.0	15.6	340	359	112	24.4	2820	1475.1	9.3	9.3	776	781	20.0	29.9	536	273	15.0	2.71	1.17	1.14	9.5	8.5	D
118	1025	1488.0	20.1	339	398	111	24.5	2850	1476.8	9.3	9.3	778	757	20.0	29.9	535	274	15.1	2.72	1.11	1.08	9.5	8.5	D
119	1028	1489.0	18.6	365	376	120	25.3	2850	1477.6	9.3	9.3	779	784	20.0	29.9	538	275	15.2	2.72	1.16	1.13	9.5	8.5	D
120	1031	1490.0	17.7	349	372	114	25.4	2850	1477.7	9.3	9.3	779	758	20.0	29.9	538	276	15.2	2.73	1.16	1.13	9.5	8.5	D
121	1034	1491.0	18.5	329	352	115	24.6	2850	1478.5	9.3	9.3	780	771	20.0	29.9	536	277	15.3	2.73	1.14	1.11	9.5	8.5	D
122	1037	1492.0	20.5	365	379	108	25.3	2840	1479.3	9.3	9.3	779	757	20.0	29.9	536	278	15.3	2.73	1.11	1.08	9.5	8.5	D
123	1040	1493.0	18.9	344	357	119	25.3	2840	1480.3	9.3	9.3	778	758	20.0	29.9	536	279	15.4	2.74	1.15	1.12	9.5	8.5	D
124	1044	1494.0	19.1	336	350	122	25.8	2840	1481.2	9.3	9.3	778	781	20.0	29.9	537	280	15.4	2.74	1.16	1.13	9.5	8.5	D
125	1047	1495.0	18.0	335	355	121	24.9	2850	1482.2	9.3	9.3	781	786	20.0	29.9	539	281	15.5	2.75	1.16	1.13	9.5	8.5	D
126	1050	1496.0	17.0	336	375	123	24.8	2840	1483.2	9.3	9.3	576	622	20.0	29.9	541	282	15.5	2.76	1.18	1.14	9.5	8.5	D
127	1054	1497.0	17.5	334	361	124	25.6	2830	1484.2	9.3	9.3	777	764	20.0	29.9	540	283	15.6	2.76	1.18	1.15	9.5	8.5	D
128	1106	1498.0	20.3	332	394	124	24.8	2930	1486.1	9.3	9.3	787	766	20.0	29.9	535	284	15.6	2.77	1.14	1.10	9.5	8.5	D
129	1108	1499.0	21.4	364	397	133	25.9	2870	1486.8	9.3	9.3	783	762	20.0	29.9	535	285	15.7	2.77	1.16	1.12	9.5	8.5	D
130	1111	1500.0	19.8	346	382	136	25.7	2870	1487.6	9.3	9.3	782	768	20.0	29.9	535	286	15.7	2.78	1.18	1.14	9.5	8.5	D
131	1115	1501.0	19.3	340	377	137	24.2	2870	1487.6	9.3	9.3	781	786	20.0	29.9	536	287	15.8	2.78	1.17	1.13	9.5	8.5	D
132	1117	1502.0	24.9	397	467	125	29.6	2860	1488.2	9.3	9.3	781	761	20.0	29.9	537	288	15.8	2.79	1.14	1.11	9.5	8.5	D
133	1119	1503.0	22.9	394	437	117	31.0	2870	1488.9	9.3	9.3	783	773	20.0	29.9	537	289	15.9	2.79	1.16	1.13	9.5	8.5	D
134	1125	1504.0	20.9	373	436	106	29.9	2880	1490.4	9.3	9.3	786	765	20.0	29.9	538	290	16.0	2.80	1.15	1.12	9.5	8.5	D
135	1127	1505.0	26.9	419	440	106	30.8	2900	1491.1	9.3	9.3	784	787	20.0	29.9	539	291	16.0	2.80	1.10	1.06	9.5	8.5	D
136	1129	1506.0	21.8	400	435	104	30.6	2890	1492.0	9.3	9.3	786	790	20.0	29.9	539	292	16.0	2.81	1.14	1.11	9.5	8.5	D
137	1141	1507.0	25.2	391	439	105	29.3	2700	1494.5	9.3	9.3	761	759	20.0	29.9	540	293	16.1	2.81	1.10	1.06	9.5	8.5	D
138	1143	1508.0	25.4	401	432	103	30.1	2830	1495.0	9.3	9.3	775	766	20.0	29.9	540	294	16.2	2.81	1.10	1.06	9.5	8.5	D
139	1146	1509.0	21.5	378	412	104	29.7	2830	1495.9	9.3	9.3	776	761	20.0	29.9	540	295	16.2	2.82	1.14	1.10	9.5	8.5	D
140	1148	1510.0	30.9	443	490	106	33.6	2840	1496.4	9.3	9.3	775	761	20.0	29.9	540	296	16.2	2.82	1.09	1.05	9.5	8.5	D
141	1150	1511.0	27.7	468	494	102	36.0	2830	1496.8	9.3	9.3	776	767	20.0	29.9	542	297	16.3	2.82	1.13	1.09	9.5	8.5	D
142	1152	1512.0	27.3	477	520	102	36.4	2830	1496.8	9.3	9.3	775	755	20.0	29.9	541	298	16.3	2.83	1.14	1.10	9.5	8.5	D
143	1155	1513.0	25.7	444	497	105	36.1	2830	1497.1	9.3	9.3	773	752	20.1	29.9	543	299	16.3	2.83	1.15	1.12	9.5	8.5	D
144	1157	1514.0	26.4	428	459	104	35.8	2830	1497.7	9.3	9.3	774	754	20.1	29.9	542	300	16.4	2.83	1.15	1.11	9.5	8.5	D
145	1159	1515.0	23.2	406	432	106	35.6	2820	1498.6	9.3	9.3	775	754	20.1	29.9	544	301	16.4	2.84	1.18	1.14	9.5	8.5	D
146	1209	1516.0	26.6	403	469	116	36.0	2820	1500.7	9.3	9.3	772	757	20.2	29.9	547	302	16.5	2.84	1.17	1.13	9.5	8.5	D↑
147	1212	1517.0	23.8	421	468	129	36.5	2830	1501.6	9.3	9.3	774	776	20.2	29.9	547	303	16.5	2.85	1.24	1.19	9.5	8.5	D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 09:06 Date Apr 12 '90
Data Recorded at time 12:14 Date Apr 6 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
148	1214	1518.0	24.3	414	451	129	36.4	2820	1502.4	9.3	9.3	773	776	20.2	29.9	548	304	16.6	2.85	1.23	1.19	9.5	8.5 D
149	1217	1519.0	20.9	393	432	129	35.8	2820	1503.3	9.3	9.3	774	753	20.2	29.9	548	305	16.6	2.86	1.27	1.22	9.5	8.5 D
150	1220	1520.0	22.5	376	408	128	35.1	2820	1504.3	9.3	9.3	771	762	20.2	29.9	548	306	16.6	2.86	1.24	1.19	9.5	8.5 D
151	1223	1521.0	21.0	372	403	104	35.4	2830	1505.4	9.3	9.3	774	777	20.2	29.9	546	307	16.7	2.87	1.20	1.16	9.5	8.5 D
152	1230	1522.0	26.6	391	474	115	34.6	2820	1506.3	9.3	9.3	743	738	20.3	29.9	547	308	16.7	2.87	1.16	1.12	9.5	8.5 D↑
153	1232	1523.0	30.3	465	494	128	35.2	2820	1506.7	9.3	9.3	772	759	20.3	29.9	546	309	16.8	2.88	1.16	1.11	9.5	8.5 D
154	1234	1524.0	29.5	463	494	129	35.6	2820	1507.5	9.3	9.3	773	776	20.3	29.9	547	310	16.8	2.88	1.17	1.12	9.5	8.5 D
155	1244	1525.0	25.3	450	511	111	35.8	2840	1510.6	9.3	9.3	770	752	20.3	29.9	548	311	16.9	2.89	1.17	1.13	9.5	8.5 D↑
156	1247	1526.0	25.0	413	447	128	36.4	2830	1511.7	9.3	9.3	774	759	20.4	29.9	549	312	16.9	2.89	1.22	1.18	9.5	8.5 D
157	1249	1527.0	22.5	420	468	128	36.6	2840	1512.9	9.3	9.3	773	760	20.4	29.9	554	313	16.9	2.90	1.25	1.21	9.5	8.5 D
158	1252	1528.0	21.3	396	429	128	36.8	2830	1514.0	9.3	9.3	773	751	20.4	29.9	544	314	17.0	2.90	1.27	1.22	9.5	8.5 D
159	1255	1529.0	19.6	375	420	128	36.3	2830	1515.2	9.3	9.3	774	754	20.4	29.9	509	315	17.0	2.91	1.29	1.24	9.5	8.5 D
160	1258	1530.0	21.6	388	440	128	37.8	2840	1515.7	9.3	9.3	776	767	20.4	29.9	509	316	17.1	2.91	1.28	1.23	9.5	8.5 D
161	1301	1531.0	20.9	367	401	128	37.8	2860	1515.9	9.3	9.3	774	754	20.5	29.9	509	317	17.1	2.92	1.28	1.24	9.5	8.5 D
162	1303	1532.0	23.4	370	429	128	35.7	2850	1516.8	9.3	9.3	775	778	20.5	29.9	509	318	17.2	2.93	1.23	1.19	9.5	8.5 D
163	1307	1533.0	18.1	352	380	129	36.3	2840	1518.1	9.3	9.3	777	764	20.5	29.9	511	319	17.2	2.93	1.31	1.26	9.5	8.5 D
164	1310	1534.0	18.8	338	372	110	36.4	2840	1519.3	9.3	9.3	775	761	20.5	29.9	509	320	17.3	2.94	1.26	1.21	9.5	8.5 D
165	1322	1535.0	19.9	346	414	109	35.1	2810	1521.6	9.3	9.3	769	750	20.5	30.0	509	321	17.3	2.94	1.23	1.19	9.5	8.5 D↑
166	1325	1536.0	22.3	404	437	127	32.1	2820	1521.8	9.3	9.3	772	751	20.5	30.0	510	322	17.4	2.95	1.21	1.16	9.5	8.5 D
167	1328	1537.0	22.2	413	452	127	33.0	2820	1522.7	9.3	9.3	772	774	20.5	30.0	509	323	17.4	2.95	1.22	1.17	9.5	8.5 D
168	1330	1538.0	22.1	409	446	127	34.0	2830	1524.1	9.3	9.3	775	754	20.5	30.0	507	324	17.5	2.96	1.23	1.18	9.5	8.5 D
169	1333	1539.0	22.0	396	435	116	34.5	2830	1525.2	9.3	9.3	773	776	20.5	30.0	505	325	17.5	2.96	1.21	1.17	9.5	8.5 D
170	1336	1540.0	19.4	374	414	104	34.4	2820	1525.3	9.3	9.3	772	758	20.6	30.0	503	326	17.6	2.97	1.21	1.17	9.5	8.5 D
171	1339	1541.0	20.7	365	391	104	34.6	2820	1525.7	9.3	9.3	773	752	20.6	30.0	502	327	17.6	2.97	1.20	1.16	9.5	8.5 D
172	1342	1542.0	20.4	354	396	102	34.8	2820	1526.9	9.3	9.3	774	760	20.6	30.0	503	328	17.6	2.97	1.20	1.16	9.5	8.5 D
173	1346	1543.0	15.4	335	367	104	34.4	2830	1528.4	9.3	9.3	775	765	20.6	30.0	504	329	17.7	2.98	1.28	1.24	9.5	8.5 D
174	1349	1544.0	16.8	335	373	104	35.2	2830	1529.6	9.3	9.3	775	753	20.5	30.0	504	330	17.8	2.98	1.26	1.22	9.5	8.5 D
175	1401	1545.0	22.7	358	484	116	34.8	2820	1532.4	9.3	9.3	733	758	20.5	30.0	506	331	17.8	2.99	1.21	1.16	9.5	8.5 D↑
176	1403	1546.0	23.4	445	499	128	37.0	2810	1533.2	9.3	9.3	771	761	20.5	30.0	506	332	17.9	2.99	1.25	1.20	9.5	8.5 D
177	1407	1547.0	22.1	418	482	123	35.6	2830	1534.4	9.3	9.3	772	753	20.6	29.9	507	333	17.9	3.00	1.24	1.19	9.5	8.5 D
178	1410	1548.0	17.0	430	535	90	35.1	2830	1535.1	9.3	9.3	772	775	20.6	29.9	507	334	18.0	3.00	1.22	1.18	9.5	8.5 D
179	1413	1549.0	23.1	421	486	102	35.7	2820	1535.5	9.3	9.3	774	765	20.6	29.9	508	335	18.0	3.01	1.18	1.14	9.5	8.5 D
180	1415	1550.0	28.1	464	475	120	37.6	2830	1535.9	9.3	9.3	773	778	20.6	29.9	508	336	18.0	3.01	1.18	1.14	9.5	8.5 D
181	1417	1551.0	26.6	465	479	113	37.6	2830	1536.7	9.3	9.3	771	758	20.6	29.9	509	337	18.1	3.01	1.18	1.14	9.5	8.5 D
182	1420	1552.0	25.3	455	466	120	37.2	2820	1537.6	9.3	9.3	773	764	20.6	29.9	509	338	18.1	3.02	1.21	1.16	9.5	8.5 D
183	1422	1553.0	29.4	455	470	117	37.2	2830	1538.3	9.3	9.3	772	751	20.6	29.9	513	339	18.2	3.02	1.16	1.11	9.5	8.5 D
184	1424	1554.0	24.9	464	486	115	37.4	2840	1539.2	9.3	9.3	773	754	20.6	29.9	515	340	18.2	3.03	1.20	1.16	9.5	8.5 D
185	1436	1555.0	21.7	434	509	128	38.3	2860	1541.8	9.3	9.3	778	783	20.6	29.9	516	341	18.3	3.03	1.28	1.23	9.5	8.5 D
186	1439	1556.0	19.2	402	454	128	37.6	2860	1542.8	9.3	9.3	776	762	20.6	29.9	515	342	18.3	3.04	1.31	1.26	9.5	8.5 D
187	1442	1557.0	19.9	413	443	129	37.9	2860	1543.6	9.3	9.3	775	756	20.6	29.9	515	343	18.4	3.05	1.30	1.25	9.5	8.5 D
188	1445	1558.0	19.4	414	450	129	37.2	2870	1544.5	9.3	9.3	774	777	20.6	29.9	515	344	18.4	3.05	1.30	1.25	9.5	8.5 D
189	1449	1559.0	17.6	410	459	129	36.9	2860	1545.1	9.3	9.3	775	766	20.6	29.9	516	345	18.5	3.06	1.32	1.27	9.5	8.5 D
190	1451	1560.0	22.8	436	467	128	36.8	2850	1545.2	9.3	9.3	773	759	20.6	29.9	516	346	18.5	3.07	1.25	1.20	9.5	8.5 D
191	1453	1561.0	27.8	465	514	128	36.1	2860	1545.5	9.3	9.3	775	780	20.6	29.9	517	347	18.5	3.07	1.19	1.14	9.5	8.5 D
192	1456	1562.0	24.0	473	519	128	36.1	2860	1546.6	9.3	9.3	774	761	20.6	30.0	517	348	18.6	3.07	1.23	1.18	9.5	8.5 D
193	1458	1563.0	25.5	489	518	128	36.9	2860	1547.4	9.3	9.3	776	755	20.6	30.0	517	349	18.6	3.08	1.22	1.17	9.5	8.5 D
194	1511	1564.0	23.4	447	516	124	31.6	2850	1550.1	9.3	9.3	772	777	20.7	30.0	515	350	18.7	3.09	1.18	1.13	9.5	8.5 D
195	1514	1565.0	26.4	516	541	130	36.4	2840	1551.2	9.3	9.3	774	753	20.7	30.0	515	351	18.7	3.09	1.21	1.16	9.5	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 09:14 Date Apr 12 '90
Data Recorded at time 15:16 Date Apr 6 '90

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
196	1516	1566.0	24.2	503	538	130	36.6	2840	1552.3	9.3	9.3	773	776	20.8	30.1	516	352	18.8	3.10	1.24	1.19	9.5	8.5 D
197	1519	1567.0	21.9	483	530	130	37.3	2850	1553.5	9.3	9.3	774	754	20.8	30.1	516	353	18.8	3.10	1.27	1.22	9.5	8.5 D
198	1522	1568.0	21.4	460	505	130	37.6	2850	1554.5	9.3	9.3	775	779	20.8	30.1	517	354	18.9	3.11	1.28	1.23	9.5	8.5 D
199	1525	1569.0	18.3	433	475	120	37.9	2840	1554.7	9.3	9.3	775	766	20.8	30.1	517	355	18.9	3.11	1.30	1.25	9.5	8.5 D
200	1528	1570.0	18.0	429	490	105	38.6	2840	1555.3	9.3	9.3	771	750	20.9	30.1	516	356	19.0	3.12	1.28	1.23	9.5	8.5 D
201	1532	1571.0	17.2	408	457	107	38.0	2850	1556.3	9.3	9.3	774	765	20.9	30.1	517	357	19.0	3.12	1.29	1.24	9.5	8.5 D
202	1535	1572.0	19.4	404	438	107	38.7	2850	1557.4	9.3	9.3	777	756	20.9	30.1	516	358	19.1	3.13	1.26	1.22	9.5	8.5 D
203	1547	1573.0	16.4	380	445	107	39.1	2840	1559.5	9.3	9.3	772	771	21.0	30.2	519	359	19.2	3.13	1.32	1.27	9.5	8.5 D
204	1549	1574.0	26.9	487	529	102	34.3	2840	1560.3	9.3	9.3	772	778	21.0	30.2	519	360	19.2	3.14	1.12	1.08	9.5	8.5 D
205	1552	1575.0	21.7	495	543	104	36.7	2840	1561.4	9.3	9.3	771	756	21.0	30.2	520	361	19.3	3.14	1.21	1.16	9.5	8.5 D
206	1555	1576.0	21.1	447	487	103	37.0	2830	1562.6	9.3	9.3	772	775	21.0	30.2	522	362	19.3	3.14	1.22	1.17	9.5	8.5 D
207	1558	1577.0	20.3	439	482	106	37.7	2830	1563.8	9.3	9.3	770	761	21.1	30.2	523	363	19.3	3.15	1.24	1.19	9.5	8.5 D
208	1601	1578.0	18.0	421	488	103	38.1	2830	1564.0	9.3	9.3	768	755	21.1	30.2	523	364	19.4	3.15	1.27	1.22	9.5	8.5 D
209	1604	1579.0	27.9	460	491	100	35.8	2830	1564.0	9.3	9.3	771	758	21.1	30.2	524	365	19.4	3.16	1.12	1.07	9.5	8.5 D
210	1607	1580.0	27.0	471	486	106	36.9	2820	1564.8	9.3	9.3	771	751	21.1	30.2	521	366	19.5	3.16	1.15	1.11	9.5	8.5 D
211	1609	1581.0	24.0	469	483	104	38.7	2820	1565.9	9.3	9.3	760	720	21.1	30.2	523	367	19.5	3.16	1.20	1.15	9.5	8.5 D
212	1613	1582.0	31.2	458	542	105	34.3	2820	1566.9	9.3	9.3	770	761	21.0	30.2	530	368	19.6	3.17	1.09	1.04	9.5	8.5 D
213	1626	1583.0	20.8	477	543	107	35.8	2830	1570.2	9.3	9.3	770	756	21.0	30.2	528	369	19.6	3.17	1.22	1.17	9.5	8.5 D
214	1630	1584.0	17.3	397	415	121	33.9	2830	1571.2	9.3	9.3	771	762	21.0	30.2	528	370	19.7	3.18	1.28	1.23	9.5	8.5 D
215	1634	1585.0	14.7	366	397	122	33.6	2820	1572.4	9.3	9.3	770	761	21.0	30.2	529	371	19.7	3.18	1.32	1.27	9.5	8.5 D
216	1638	1586.0	13.6	353	380	121	33.3	2820	1573.6	9.3	9.3	769	748	21.1	30.2	528	372	19.8	3.19	1.34	1.29	9.5	8.5 D
217	1643	1587.0	13.4	341	383	121	32.5	2820	1574.4	9.3	9.3	770	776	21.1	30.2	530	373	19.9	3.20	1.33	1.28	9.5	8.5 D
218	1648	1588.0	11.4	334	364	120	33.2	2820	1576.4	9.3	9.3	773	753	21.1	30.1	531	374	20.0	3.21	1.38	1.33	9.5	8.5 D
219	1652	1589.0	17.2	374	392	122	32.1	2820	1577.6	9.3	9.3	770	773	21.1	30.1	530	375	20.0	3.21	1.26	1.21	9.5	8.5 D
220	1656	1590.0	14.0	364	389	121	33.6	2820	1578.9	9.3	9.3	770	750	21.1	30.1	531	376	20.1	3.22	1.33	1.28	9.5	8.5 D
221	1701	1591.0	12.5	340	368	122	39.1	2820	1580.7	9.3	9.3	771	751	21.1	30.1	531	377	20.2	3.23	1.43	1.38	9.4	8.5 D
222	1706	1592.0	12.0	330	393	123	38.7	2820	1582.7	9.3	9.3	769	772	21.1	30.0	532	378	20.3	3.24	1.44	1.39	9.4	8.5 D
223	1720	1593.0	16.4	348	401	120	28.5	2870	1583.9	9.3	9.3	777	757	21.1	29.9	531	379	20.4	3.25	1.23	1.18	9.4	8.5 D
224	1723	1594.0	19.5	438	480	120	33.8	2860	1584.6	9.3	9.3	778	769	21.1	29.9	533	380	20.4	3.25	1.25	1.20	9.4	8.5 D
225	1726	1595.0	19.7	424	478	120	38.5	2870	1585.4	9.3	9.3	774	765	21.1	29.9	534	381	20.5	3.26	1.29	1.24	9.4	8.5 D
226	1730	1596.0	17.1	383	447	118	38.6	2880	1586.3	9.3	9.3	775	780	21.1	29.8	533	382	20.5	3.26	1.33	1.27	9.4	8.5 D
227	1734	1597.0	15.3	357	382	123	38.4	2870	1587.1	9.3	9.3	776	757	21.1	29.8	534	383	20.6	3.27	1.37	1.31	9.4	8.5 D
228	1738	1598.0	14.3	333	363	125	38.9	2880	1588.0	9.3	9.3	777	755	21.1	29.8	536	384	20.7	3.28	1.40	1.34	9.4	8.5 D
229	1743	1599.0	11.9	295	339	126	38.7	2870	1589.1	9.3	9.3	774	779	21.1	29.8	537	385	20.7	3.29	1.45	1.39	9.4	8.5 D
230	1749	1600.0	10.5	270	297	123	39.7	2870	1590.5	9.3	9.3	774	752	21.0	29.0	538	386	20.8	3.30	1.49	1.43	9.4	8.5 D
231	1753	1601.0	13.1	292	352	125	36.7	2880	1591.5	9.3	9.3	775	782	21.0	29.1	538	387	20.9	3.31	1.40	1.34	9.4	8.5 D
232	1807	1602.0	15.5	325	420	115	36.2	2760	1593.1	9.4	9.5	753	732	21.0	29.7	539	388	21.0	3.31	1.32	1.27	9.4	8.5 D
233	1812	1603.0	18.8	397	453	92	37.1	2880	1593.2	9.5	9.5	777	762	21.0	27.7	541	389	21.0	3.32	1.22	1.17	9.5	8.5 D
234	1816	1604.0	15.1	378	421	107	38.0	2880	1594.3	9.5	9.5	776	781	21.0	27.8	541	390	21.1	3.32	1.33	1.27	9.5	8.5 D
235	1821	1605.0	13.6	348	392	107	38.8	2890	1595.8	9.4	9.5	776	779	21.0	27.6	543	391	21.2	3.33	1.36	1.31	9.5	8.5 D
236	1825	1606.0	12.5	314	340	106	39.2	2860	1597.1	9.4	9.5	772	759	21.0	27.5	543	392	21.3	3.34	1.39	1.33	9.5	8.5 D
237	1831	1607.0	10.9	291	340	107	37.0	2860	1598.5	9.4	9.5	772	759	21.0	28.4	544	393	21.3	3.34	1.40	1.35	9.5	8.5 D
238	1836	1608.0	10.7	276	312	105	37.1	2850	1599.7	9.4	9.5	773	775	21.0	29.3	544	394	21.4	3.35	1.40	1.34	9.5	8.5 D
239	1842	1609.0	10.7	261	283	107	37.9	2850	1600.7	9.5	9.5	772	763	21.0	28.0	547	395	21.5	3.36	1.41	1.35	9.5	8.5 D
240	1848	1610.0	10.3	261	289	107	37.5	2860	1601.9	9.4	9.5	772	750	21.0	29.0	547	396	21.6	3.37	1.41	1.36	9.6	8.5 D
241	1853	1611.0	12.1	276	300	108	37.0	2840	1602.6	9.5	9.5	772	758	21.1	29.0	548	397	21.7	3.37	1.36	1.31	9.6	8.5 D
242	1906	1612.0	19.4	366	431	125	35.0	2870	1603.8	9.4	9.5	774	760	21.2	29.8	548	398	21.8	3.38	1.26	1.20	9.6	8.5 D
243	1910	1613.0	16.1	366	409	129	35.3	2870	1604.8	9.5	9.5	775	781	21.2	29.8	548	399	21.8	3.39	1.32	1.26	9.6	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 09:22 Date Apr 12 '90
Data Recorded at time 19:14 Date Apr 6 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
244	1914	1614.0	17.5	352	382	129	36.0	2860	1605.6	9.5	9.5	774	760	21.2	29.8	549	400	21.9	3.39	1.30	1.24	9.6	8.5 D
245	1917	1615.0	15.6	329	355	110	36.3	2870	1606.4	9.5	9.5	776	781	21.2	29.8	551	401	22.0	3.40	1.29	1.24	9.6	8.5 D
246	1921	1616.0	17.0	333	367	104	37.8	2870	1607.1	9.5	9.5	775	778	21.3	29.8	550	402	22.0	3.40	1.27	1.22	9.6	8.5 D
247	1925	1617.0	14.3	277	348	103	37.0	2870	1607.8	9.4	9.5	779	765	21.3	29.8	551	403	22.1	3.41	1.31	1.25	9.6	8.5 D
248	1929	1618.0	14.7	278	314	104	37.4	2870	1608.6	9.5	9.5	777	781	21.3	27.9	550	404	22.1	3.41	1.30	1.25	9.6	8.5 D
249	1935	1619.0	10.9	280	324	106	38.2	2870	1609.6	9.5	9.5	777	756	21.3	27.8	553	405	22.2	3.42	1.40	1.34	9.6	8.5 D
250	1940	1620.0	11.5	265	297	105	37.9	2870	1610.5	9.5	9.5	776	779	21.3	27.7	553	406	22.3	3.43	1.38	1.32	9.6	8.5 D
251	2112	1621.0	12.0	263	311	112	35.9	2540	1620.8	9.5	9.5	725	731	20.9	29.6	486	407	22.4	3.44	1.37	1.31	9.5	8.5 D
252	2123	1622.0	24.0	370	413	119	35.4	2640	1620.8	9.5	9.5	733	715	20.9	29.6	483	408	22.5	3.44	1.20	1.14	9.5	8.5 D↑
253	2127	1623.0	16.5	396	410	113	36.1	2840	1620.8	9.4	9.5	770	773	20.9	29.6	485	409	22.5	3.45	1.29	1.23	9.5	8.5 D
254	2130	1624.0	17.1	377	403	123	37.0	2860	1620.8	9.5	9.5	770	750	20.9	29.6	485	410	22.6	3.45	1.31	1.25	9.5	8.5 D
255	2134	1625.0	16.3	355	367	133	40.1	2860	1620.8	9.5	9.5	773	766	20.9	29.5	488	411	22.7	3.46	1.38	1.31	9.6	8.5 D
256	2138	1626.0	14.6	327	354	141	38.9	2870	1620.8	9.5	9.5	771	756	20.8	29.6	491	412	22.7	3.47	1.41	1.34	9.6	8.5 D
257	2143	1627.0	11.3	286	318	147	39.4	2870	1620.8	9.5	9.5	773	778	20.7	29.6	492	413	22.8	3.48	1.49	1.43	9.6	8.5 D
258	2149	1628.0	11.0	268	297	150	39.4	2870	1620.8	9.4	9.5	774	779	20.7	29.6	494	414	22.9	3.50	1.51	1.44	9.6	8.5 D
259	2155	1629.0	9.59	257	313	150	37.9	2860	1620.8	9.4	9.5	774	754	20.7	29.6	492	415	23.0	3.51	1.52	1.46	9.6	8.5 D
260	2200	1630.0	11.1	282	310	145	39.7	2870	1620.8	9.4	9.5	774	765	20.7	29.6	495	416	23.1	3.53	1.50	1.43	9.6	8.5 D
261	2219	1631.0	10.3	299	420	127	38.9	2800	1622.4	9.4	9.5	764	743	20.7	29.6	494	417	23.3	3.55	1.47	1.41	9.6	8.5 D
262	2222	1632.0	16.3	384	405	141	37.3	2800	1623.4	9.5	9.5	763	743	20.7	29.6	493	418	23.3	3.55	1.36	1.29	9.6	8.5 D
263	2226	1633.0	16.2	359	372	128	38.3	2790	1624.3	9.5	9.5	765	750	20.7	29.6	492	419	23.4	3.56	1.34	1.28	9.6	8.5 D
264	2229	1634.0	16.1	334	361	120	39.1	2810	1625.3	9.5	9.5	765	750	20.7	29.6	493	420	23.4	3.57	1.34	1.27	9.6	8.5 D
265	2234	1635.0	15.0	314	332	120	38.3	2810	1626.1	9.5	9.5	762	754	20.7	29.6	493	421	23.5	3.57	1.35	1.28	9.6	8.5 D
266	2239	1636.0	10.2	281	325	122	39.7	2800	1627.2	9.4	9.5	763	767	20.7	29.6	493	422	23.6	3.58	1.47	1.41	9.6	8.5 D
267	2245	1637.0	11.3	265	294	123	38.6	2810	1628.0	9.4	9.5	765	751	20.8	29.6	495	423	23.7	3.59	1.44	1.37	9.6	8.5 D
268	2250	1638.0	11.1	272	291	122	38.4	2810	1628.8	9.4	9.5	764	749	20.8	29.6	496	424	23.8	3.60	1.43	1.37	9.6	8.5 D
269	2257	1639.0	8.99	252	286	123	39.1	2800	1629.9	9.5	9.5	765	751	20.9	29.7	496	425	23.9	3.62	1.50	1.43	9.6	8.5 D
270	2323	1640.0	9.58	246	375	122	36.9	2850	1632.5	9.4	9.5	771	757	21.1	29.6	499	426	24.0	3.63	1.46	1.39	9.6	8.5 D↑
271	2324	1641.0	8.87	325	371	120	37.5	2850	1632.6	9.4	9.5	771	757	21.1	29.6	499	427	24.0	3.63	1.48	1.42	9.6	8.5 D-
272	2329	1642.0	12.6	358	395	110	38.3	2850	1634.1	9.5	9.5	768	746	21.1	29.6	501	428	24.1	3.63	1.37	1.31	9.6	8.5 D
273	2333	1643.0	13.8	339	360	116	39.0	2840	1635.4	9.4	9.5	768	759	21.2	29.7	500	429	24.2	3.64	1.37	1.30	9.6	8.5 D
274	2337	1644.0	17.0	350	368	113	38.9	2850	1636.3	9.4	9.5	769	755	21.2	29.7	501	430	24.2	3.65	1.31	1.24	9.6	8.5 D
275	2340	1645.0	15.9	354	378	113	39.2	2850	1637.0	9.4	9.5	766	769	21.2	29.7	501	431	24.3	3.65	1.33	1.26	9.6	8.5 D
276	2345	1646.0	14.6	364	379	110	40.1	2850	1637.9	9.5	9.5	767	772	21.3	29.7	503	432	24.4	3.66	1.35	1.29	9.6	8.5 D
277	2349	1647.0	14.6	343	358	116	40.1	2710	1638.7	9.5	9.5	748	727	21.3	29.7	504	433	24.4	3.66	1.37	1.30	9.6	8.5 D
278	2353	1648.0	14.0	339	355	115	39.2	2780	1639.6	9.5	9.5	758	738	21.3	29.7	502	434	24.5	3.67	1.37	1.30	9.6	8.5 D
279	2357	1649.0	16.0	354	367	110	39.7	2770	1640.2	9.4	9.5	756	735	21.3	29.7	505	435	24.6	3.68	1.32	1.26	9.6	8.5 D
	Date	Apr 7 '90																					
280	0010	1650.0	17.7	389	436	113	39.9	2790	1641.2	9.5	9.5	760	738	21.4	29.7	505	436	24.7	3.68	1.30	1.24	9.6	8.5 D
281	0013	1651.0	17.9	417	433	118	39.7	2800	1641.2	9.4	9.5	760	740	21.5	29.7	505	437	24.7	3.69	1.31	1.24	9.6	8.5 D
282	0017	1652.0	16.1	393	411	130	40.6	2780	1641.2	9.5	9.5	757	738	21.5	29.7	506	438	24.8	3.70	1.37	1.30	9.6	8.5 D
283	0020	1653.0	16.4	379	392	137	39.8	2790	1641.7	9.4	9.5	757	748	21.5	29.7	507	439	24.8	3.71	1.37	1.30	9.6	8.5 D
284	0024	1654.0	15.0	371	392	138	40.3	2780	1642.5	9.5	9.5	756	758	21.5	29.7	508	440	24.9	3.71	1.41	1.33	9.6	8.5 D
285	0028	1655.0	15.7	367	382	114	39.3	2790	1643.4	9.5	9.5	756	762	21.5	29.7	507	441	25.0	3.72	1.33	1.26	9.6	8.5 D
286	0032	1656.0	16.6	365	396	115	37.8	2780	1644.4	9.5	9.5	756	742	21.5	29.7	510	442	25.0	3.73	1.30	1.23	9.6	8.5 D
287	0035	1657.0	16.5	392	400	104	38.5	2780	1645.2	9.4	9.5	757	762	21.5	29.7	509	443	25.1	3.73	1.28	1.22	9.6	8.5 D
288	0039	1658.0	17.0	384	398	107	40.0	2780	1646.2	9.5	9.5	757	737	21.5	29.8	510	444	25.2	3.73	1.30	1.23	9.6	8.5 D
289	0052	1659.0	18.3	367	398	113	37.8	2660	1648.4	9.5	9.5	734	715	21.5	29.8	510	445	25.2	3.74	1.27	1.20	9.6	8.5 D
290	0055	1660.0	19.4	434	452	107	39.1	2670	1649.2	9.4	9.5	736	722	21.6	29.8	511	446	25.3	3.74	1.25	1.19	9.6	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 09:29 Date Apr 12 '90
Data Recorded at time 00:58 Date Apr 7 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT- m	THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
291	0058	1661.0	17.2	426	451	125	40.5	2660	1650.1	9.5	9.5	739	717	21.6	29.8	510	447	25.3	3.75	1.34	1.27	9.6	8.5 D
292	0102	1662.0	14.8	417	453	134	40.4	2660	1650.1	9.5	9.5	737	718	21.6	29.8	510	448	25.4	3.76	1.40	1.33	9.6	8.5 D
293	0107	1663.0	11.3	375	417	144	40.7	2810	1651.1	9.5	9.5	762	749	21.7	29.8	508	449	25.5	3.77	1.50	1.42	9.6	8.5 D
294	0114	1664.0	12.6	416	456	112	36.9	2790	1653.0	9.5	9.5	757	737	21.8	29.8	510	450	25.6	3.78	1.36	1.29	9.6	8.5 D
295	0118	1665.0	16.7	429	442	115	39.2	2800	1653.9	9.5	9.5	759	766	21.8	29.8	510	451	25.6	3.78	1.31	1.25	9.6	8.5 D
296	0121	1666.0	16.9	401	417	126	39.7	2790	1654.8	9.5	9.5	757	747	21.9	29.9	510	452	25.7	3.79	1.34	1.27	9.6	8.5 D
297	0125	1667.0	19.0	395	418	119	39.5	2780	1655.7	9.5	9.5	756	746	21.9	29.9	511	453	25.7	3.79	1.29	1.22	9.6	8.5 D
298	0128	1668.0	17.3	389	407	127	39.8	2800	1656.6	9.5	9.5	757	735	22.0	29.9	510	454	25.8	3.80	1.34	1.27	9.6	8.5 D
299	0139	1669.0	22.2	420	463	113	37.2	2800	1658.8	9.5	9.5	759	745	22.1	29.9	511	455	25.8	3.80	1.21	1.14	9.6	8.5 D
300	0143	1670.0	18.6	437	462	128	40.1	2800	1659.3	9.5	9.5	759	738	22.1	29.9	510	456	25.9	3.81	1.32	1.25	9.6	8.5 D
301	0146	1671.0	18.3	405	420	143	40.7	2800	1659.4	9.4	9.5	759	745	22.2	29.9	512	457	25.9	3.82	1.36	1.29	9.6	8.5 D
302	0149	1672.0	19.7	408	434	142	40.5	2800	1659.9	9.5	9.5	758	737	22.2	29.9	513	458	26.0	3.83	1.34	1.26	9.6	8.5 D
303	0152	1673.0	18.1	411	424	148	40.1	2800	1660.9	9.5	9.5	757	736	22.2	29.9	513	459	26.0	3.83	1.37	1.29	9.6	8.5 D
304	0156	1674.0	16.3	377	397	160	40.0	2800	1661.9	9.5	9.5	759	739	22.2	29.9	512	460	26.1	3.84	1.42	1.34	9.6	8.5 D
305	0200	1675.0	15.9	349	369	159	40.6	2800	1662.9	9.5	9.5	758	737	22.2	29.9	515	461	26.2	3.85	1.43	1.35	9.6	8.5 D
306	0203	1676.0	17.1	360	381	143	40.1	2810	1663.6	9.4	9.5	758	763	22.2	29.9	514	462	26.2	3.86	1.37	1.30	9.6	8.5 D
307	0207	1677.0	14.5	359	378	138	39.7	2800	1663.8	9.5	9.5	758	744	22.2	29.9	516	463	26.3	3.87	1.40	1.33	9.6	8.5 D
308	0219	1678.0	15.9	351	370	124	38.6	2810	1665.9	9.4	9.5	751	734	22.1	30.0	515	464	26.4	3.88	1.34	1.27	9.6	8.5 DX
309	0222	1679.0	23.4	416	466	120	35.3	2820	1666.6	9.5	9.5	758	745	22.1	30.0	516	465	26.4	3.88	1.20	1.13	9.6	8.5 D
310	0225	1680.0	16.8	437	449	111	40.1	2820	1667.7	9.4	9.5	760	763	22.1	30.0	516	466	26.5	3.89	1.31	1.24	9.6	8.5 D
311	0229	1681.0	14.2	406	433	129	41.3	2810	1668.8	9.5	9.5	760	762	22.2	30.0	517	467	26.5	3.89	1.41	1.33	9.6	8.5 D
312	0234	1682.0	14.4	380	398	142	41.6	2810	1668.9	9.5	9.5	759	738	22.2	30.0	517	468	26.6	3.90	1.44	1.36	9.6	8.5 D
313	0238	1683.0	14.6	358	372	150	42.0	2800	1670.0	9.4	9.5	760	739	22.2	30.0	519	469	26.7	3.91	1.45	1.37	9.6	8.5 D
314	0243	1684.0	11.8	392	504	134	38.5	2800	1671.6	9.5	9.5	756	736	22.3	30.0	517	470	26.8	3.92	1.44	1.36	9.6	8.5 D
315	0247	1685.0	12.8	347	362	119	40.1	2800	1673.2	9.4	9.5	756	760	22.3	30.0	519	471	26.8	3.93	1.40	1.33	9.6	8.5 D
316	0252	1686.0	13.8	343	361	118	39.9	2800	1674.4	9.5	9.5	759	746	22.3	30.0	517	472	26.9	3.94	1.38	1.31	9.6	8.5 D
317	0256	1687.0	13.2	346	359	114	40.8	2800	1675.5	9.5	9.5	757	742	22.3	30.0	518	473	27.0	3.94	1.39	1.32	9.6	8.5 D
318	0307	1688.0	17.2	388	460	104	38.9	2750	1677.5	9.5	9.5	749	752	22.5	30.0	518	474	27.0	3.95	1.28	1.21	9.6	8.5 D
319	0311	1689.0	15.2	424	448	107	39.5	2740	1678.3	9.5	9.5	749	752	22.5	30.0	519	475	27.1	3.95	1.32	1.25	9.6	8.5 D
320	0315	1690.0	14.6	398	411	115	39.3	2840	1678.5	9.5	9.5	762	741	22.5	30.0	521	476	27.2	3.96	1.35	1.28	9.6	8.5 D
321	0319	1691.0	14.3	388	402	110	39.7	2830	1679.9	9.5	9.5	764	744	22.6	30.0	521	477	27.2	3.97	1.35	1.28	9.6	8.5 D
322	0325	1692.0	13.5	369	389	113	38.3	2830	1681.4	9.5	9.5	761	746	22.6	30.1	522	478	27.3	3.97	1.36	1.28	9.6	8.5 D†
323	0329	1693.0	15.8	422	464	95	38.0	2840	1682.3	9.4	9.5	761	746	22.6	30.1	523	479	27.4	3.98	1.26	1.20	9.6	8.5 D
324	0333	1694.0	14.5	405	482	108	39.8	2840	1683.3	9.4	9.5	761	764	22.6	30.1	520	480	27.5	3.98	1.34	1.27	9.6	8.5 D
325	0337	1695.0	14.2	383	396	113	39.7	2840	1684.2	9.4	9.5	762	748	22.6	30.1	521	481	27.5	3.99	1.36	1.28	9.6	8.5 D
326	0341	1696.0	15.1	380	392	114	40.6	2840	1685.0	9.4	9.5	765	755	22.6	30.1	521	482	27.6	3.99	1.35	1.28	9.6	8.5 D
327	0353	1697.0	16.1	367	417	115	40.3	2750	1686.8	9.4	9.5	745	749	22.7	30.1	519	483	27.7	4.00	1.33	1.26	9.6	8.5 D†
328	0357	1698.0	13.7	430	452	114	40.0	2730	1687.7	9.5	9.5	747	726	22.7	30.1	521	484	27.7	4.00	1.37	1.30	9.6	8.5 D
329	0401	1699.0	14.2	376	393	135	39.8	2730	1687.9	9.5	9.5	745	724	22.8	30.1	523	485	27.8	4.01	1.41	1.33	9.6	8.5 D
330	0407	1700.0	15.1	365	436	127	39.2	2900	1689.2	9.4	9.5	751	734	22.8	30.1	522	486	27.9	4.02	1.37	1.29	9.6	8.5 D
331	0411	1701.0	14.5	408	440	122	40.3	2890	1690.3	9.5	9.5	768	754	22.8	30.1	521	487	27.9	4.03	1.38	1.30	9.6	8.5 D
332	0415	1702.0	14.5	364	384	147	40.2	2890	1691.3	9.5	9.5	769	748	22.9	30.1	522	488	28.0	4.04	1.43	1.35	9.6	8.5 D
333	0419	1703.0	14.3	356	372	137	39.7	2890	1692.1	9.5	9.5	768	770	22.9	30.1	522	489	28.1	4.05	1.41	1.33	9.6	8.5 D
334	0424	1704.0	12.9	352	370	113	40.8	2880	1693.1	9.4	9.5	769	749	22.9	30.1	523	490	28.2	4.05	1.40	1.32	9.6	8.5 D
335	0429	1705.0	14.3	347	379	116	38.9	2890	1694.3	9.4	9.5	768	773	22.9	30.1	526	491	28.2	4.06	1.36	1.28	9.6	8.5 D†
336	0433	1706.0	14.4	389	476	105	38.6	2890	1695.2	9.5	9.5	768	746	23.0	30.1	525	492	28.3	4.06	1.32	1.25	9.6	8.5 D
337	0444	1707.0	17.2	389	443	126	39.6	2820	1697.1	9.5	9.5	763	748	23.1	30.1	525	493	28.4	4.07	1.34	1.26	9.6	8.5 D
338	0449	1708.0	13.2	377	393	136	40.7	2820	1697.3	9.5	9.5	760	739	23.2	30.1	525	494	28.4	4.08	1.44	1.36	9.6	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 09:36 Date Apr 12 '90
Data Recorded at time 04:53 Date Apr 7 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
339	0453	1709.0	13.0	357	379	138	41.4	2820	1698.5	9.4	9.5	759	745	23.2	30.1	525	495	28.5	4.09	1.46	1.37	9.6	8.5 D
340	0459	1710.0	10.8	334	355	138	39.2	2820	1699.8	9.5	9.5	759	763	23.2	30.1	526	496	28.6	4.10	1.48	1.40	9.6	8.5 D
341	0504	1711.0	11.8	310	327	145	40.5	2820	1700.7	9.4	9.5	758	737	23.2	30.1	527	497	28.7	4.11	1.49	1.40	9.6	8.5 D
342	0512	1712.0	9.14	277	346	117	41.7	2820	1702.6	9.5	9.5	759	745	23.1	30.1	526	498	28.8	4.12	1.51	1.43	9.6	8.5 D
343	0520	1713.0	7.66	245	269	119	41.5	2820	1704.4	9.5	9.5	759	762	23.1	30.1	529	499	28.9	4.14	1.57	1.48	9.6	8.5 D
344	0525	1714.0	13.6	325	384	118	34.8	2830	1705.5	9.4	9.5	759	746	23.1	30.1	531	500	29.0	4.14	1.33	1.25	9.6	8.5 D
345	0530	1715.0	13.2	359	378	117	39.3	2840	1706.6	9.4	9.5	757	736	23.1	30.1	532	501	29.1	4.15	1.39	1.31	9.6	8.5 D
346	0542	1716.0	13.9	348	408	115	37.8	2870	1707.7	9.5	9.5	760	751	23.1	28.4	534	502	29.2	4.15	1.35	1.27	9.6	8.5 D
347	0546	1717.0	15.0	394	410	107	40.4	2830	1708.6	9.4	9.5	762	767	23.1	28.4	535	503	29.2	4.16	1.34	1.26	9.6	8.5 D
348	0550	1718.0	14.7	366	385	114	41.4	1400	1709.5	9.5	9.5	715	641	23.1	28.4	538	504	29.3	4.16	1.37	1.29	9.6	8.5 D
349	0557	1719.0	11.1	345	386	118	40.5	2870	1710.7	9.4	9.5	765	771	23.1	28.4	538	505	29.4	4.17	1.45	1.37	9.6	8.5 D
350	0602	1720.0	13.0	364	379	108	40.9	2860	1711.6	9.4	9.5	764	743	23.0	28.4	540	506	29.5	4.18	1.39	1.31	9.6	8.5 D
351	0606	1721.0	13.1	348	360	115	40.7	2870	1712.2	9.5	9.5	765	756	23.1	27.9	540	507	29.5	4.19	1.40	1.32	9.6	8.5 D
352	0610	1722.0	14.1	355	369	112	40.0	2860	1712.7	9.5	9.5	766	757	23.1	27.9	542	508	29.6	4.19	1.36	1.28	9.6	8.5 D
353	0615	1723.0	13.0	347	360	117	39.6	2860	1713.3	9.5	9.5	766	745	23.1	27.9	543	509	29.7	4.20	1.39	1.31	9.6	8.5 D
354	0620	1724.0	11.9	347	363	114	40.3	2860	1713.8	9.4	9.5	764	770	23.1	27.9	545	510	29.8	4.20	1.42	1.33	9.6	8.5 D
355	0625	1725.0	12.9	326	339	120	41.4	2860	1714.8	9.5	9.5	763	743	23.1	27.9	546	511	29.8	4.21	1.42	1.34	9.6	8.5 D
356	0638	1726.0	15.0	391	499	97	39.7	2800	1716.2	9.5	9.5	757	736	23.3	28.4	547	512	29.9	4.22	1.30	1.23	9.6	8.5 D
357	0642	1727.0	14.1	374	390	109	41.2	2800	1717.2	9.5	9.5	755	741	23.3	28.4	548	513	30.0	4.22	1.37	1.29	9.6	8.5 D
358	0646	1728.0	15.0	369	376	110	39.2	2800	1718.1	9.4	9.5	755	746	23.3	28.4	551	514	30.1	4.23	1.33	1.25	9.6	8.5 D
359	0650	1729.0	14.1	359	373	114	40.7	2800	1719.2	9.5	9.5	754	734	23.3	29.6	552	515	30.1	4.23	1.38	1.29	9.6	8.5 D
360	0655	1730.0	13.8	333	348	120	39.7	2800	1719.6	9.5	9.5	755	741	23.3	29.6	507	516	30.2	4.24	1.38	1.30	9.6	8.5 D
361	0659	1731.0	13.0	306	327	128	39.4	2770	1720.6	9.5	9.5	771	739	23.3	29.7	510	517	30.3	4.25	1.42	1.33	9.6	8.5 D
362	0706	1732.0	12.7	287	306	132	38.4	2780	1722.1	9.5	9.5	753	739	23.3	30.1	511	518	30.4	4.26	1.42	1.33	9.6	8.5 D
363	0709	1733.0	17.1	358	372	113	37.2	2780	1722.8	9.4	9.5	753	732	23.3	30.1	513	519	30.4	4.26	1.28	1.20	9.6	8.5 D
364	0713	1734.0	14.4	349	367	116	39.2	2780	1723.7	9.5	9.5	753	757	23.3	30.3	513	520	30.5	4.27	1.36	1.27	9.6	8.5 D
365	0726	1735.0	19.1	335	360	123	38.9	2780	1725.4	9.4	9.5	747	736	23.4	30.4	516	521	30.5	4.27	1.29	1.21	9.6	8.5 D
366	0731	1736.0	11.8	340	393	120	39.2	2850	1725.8	9.5	9.5	764	744	23.4	30.4	517	522	30.6	4.28	1.42	1.34	9.6	8.5 D
367	0735	1737.0	13.1	345	358	125	39.7	2850	1726.4	9.4	9.5	763	743	23.4	30.3	518	523	30.7	4.29	1.41	1.32	9.6	8.5 D
368	0740	1738.0	12.8	334	350	128	40.0	2840	1727.5	9.5	9.5	761	765	23.4	30.3	520	524	30.8	4.29	1.43	1.34	9.6	8.5 D
369	0745	1739.0	14.7	333	394	141	35.7	2820	1728.7	9.5	9.5	760	740	23.4	30.3	522	525	30.9	4.30	1.36	1.28	9.6	8.5 D
370	0750	1740.0	14.5	380	400	122	38.7	2820	1729.6	9.5	9.5	758	737	23.4	30.3	523	526	30.9	4.31	1.36	1.28	9.6	8.5 D
371	0754	1741.0	13.6	351	367	126	39.2	2820	1730.7	9.4	9.5	759	739	23.4	30.3	525	527	31.0	4.32	1.40	1.31	9.6	8.5 D
372	0758	1742.0	13.4	335	350	131	39.2	2820	1731.6	9.4	9.5	759	738	23.4	30.3	527	528	31.1	4.32	1.41	1.32	9.6	8.5 D
373	0803	1743.0	12.3	333	349	129	38.2	2820	1732.5	9.5	9.5	758	737	23.4	30.3	526	529	31.1	4.33	1.42	1.33	9.6	8.5 D
374	0808	1744.0	12.0	322	349	130	39.3	2810	1733.6	9.5	9.5	759	750	23.5	30.3	527	530	31.2	4.34	1.44	1.35	9.6	8.5 D
375	0821	1745.0	14.5	313	375	138	37.1	2820	1735.5	9.4	9.5	753	757	23.6	30.2	531	531	31.3	4.35	1.38	1.29	9.6	8.5 D
376	0826	1746.0	12.8	337	376	161	40.1	2800	1736.0	9.5	9.5	757	742	23.6	30.2	533	532	31.4	4.36	1.49	1.39	9.6	8.5 D
377	0831	1747.0	14.5	353	370	152	37.0	2810	1737.1	9.5	9.5	756	737	23.6	30.2	533	533	31.5	4.37	1.40	1.31	9.6	8.5 D
378	0836	1748.0	11.6	340	357	156	39.6	2800	1738.1	9.5	9.5	756	735	23.6	30.2	533	534	31.5	4.38	1.50	1.41	9.6	8.5 D
379	0839	1749.0	12.8	331	344	161	39.9	2800	1738.7	9.5	9.5	755	741	23.6	30.2	537	535	31.6	4.39	1.49	1.39	9.6	8.5 D
380	0844	1750.0	11.8	324	339	133	39.9	2810	1739.8	9.4	9.5	758	762	23.6	30.2	539	536	31.7	4.40	1.46	1.37	9.6	8.5 D
381	0849	1751.0	15.9	348	369	121	36.0	2810	1741.0	9.5	9.5	757	743	23.6	30.2	481	537	31.7	4.40	1.31	1.22	9.6	8.5 D
382	0852	1752.0	18.5	352	365	119	38.0	1310	1741.6	9.5	9.5	508	494	23.6	30.2	490	538	31.8	4.41	1.29	1.20	9.6	8.5 D
383	0900	1753.0	10.0	349	381	121	38.1	1410	1742.8	9.5	9.5	531	511	23.6	30.2	497	539	31.9	4.42	1.46	1.37	9.6	8.5 D
384	0904	1754.0	14.4	358	374	120	39.1	1350	1743.4	9.5	9.5	517	520	23.6	30.2	498	540	32.0	4.42	1.37	1.28	9.6	8.5 D
385	0921	1755.0	9.68	349	400	123	39.6	1110	1745.3	9.4	9.5	466	445	23.5	30.2	510	541	32.1	4.43	1.49	1.40	9.6	8.5 D
386	0926	1756.0	12.0	383	419	152	40.3	1100	1745.5	9.5	9.5	463	465	23.5	30.1	512	542	32.2	4.45	1.49	1.40	9.6	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 09:43 Date Apr 12 '90
Data Recorded at time 09:44 Date Apr 7 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT- m	THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
387	0944	1757.0	6.01	384	519	123	38.0	1480	1747.6	9.5	9.5	541	526	23.4	30.1	522	543	32.4	4.46	1.60	1.51	9.6	8.5 D
388	0959	1758.0	5.78	287	350	116	37.5	2720	1749.7	9.5	9.5	743	730	23.4	30.1	524	544	32.6	4.48	1.59	1.50	9.6	8.5 D
389	1003	1759.0	15.2	358	391	118	41.5	2890	1750.5	9.5	9.5	775	754	23.4	30.1	525	545	32.6	4.48	1.37	1.28	9.6	8.5 D
390	1009	1760.0	10.7	335	357	127	40.4	2940	1751.7	9.5	9.5	766	748	23.4	30.1	530	546	32.7	4.49	1.48	1.38	9.6	8.5 D
391	1015	1761.0	10.1	305	330	133	39.5	2910	1753.2	9.4	9.5	771	750	23.4	30.1	533	547	32.8	4.50	1.50	1.40	9.6	8.5 D
392	1021	1762.0	9.43	275	292	139	40.0	2910	1755.0	9.5	9.5	772	775	23.5	30.1	534	548	32.9	4.51	1.53	1.44	9.6	8.5 D
393	1029	1763.0	12.5	289	361	131	35.3	2930	1755.8	9.5	9.5	771	750	23.5	30.1	541	549	33.0	4.52	1.39	1.29	9.6	8.5 D
394	1036	1764.0	14.2	348	377	114	38.2	2930	1757.2	9.5	9.5	773	776	23.5	30.1	543	550	33.1	4.53	1.35	1.26	9.6	8.5 D
395	1041	1765.0	11.0	331	350	120	38.9	2930	1757.6	9.4	9.5	776	782	23.5	30.1	546	551	33.2	4.54	1.44	1.35	9.6	8.5 D
396	1056	1766.0	13.3	374	505	136	36.1	2900	1758.4	9.5	9.5	775	758	23.6	30.2	554	552	33.2	4.54	1.39	1.30	9.6	8.5 D
397	1101	1767.0	12.8	343	353	146	38.1	2910	1759.6	9.4	9.5	770	756	23.6	30.2	515	553	33.3	4.55	1.44	1.34	9.6	8.5 D
398	1106	1768.0	11.7	332	363	147	39.3	2980	1760.5	9.4	9.5	776	781	23.7	30.2	519	554	33.4	4.56	1.48	1.38	9.6	8.5 D
399	1111	1769.0	11.7	301	313	159	39.1	2970	1761.4	9.5	9.5	779	784	23.7	30.2	520	555	33.5	4.58	1.50	1.40	9.6	8.5 D
400	1116	1770.0	15.0	319	371	138	34.7	2980	1762.3	9.5	9.5	779	760	23.8	30.2	522	556	33.6	4.58	1.35	1.25	9.6	8.5 D
401	1120	1771.0	14.5	356	371	126	37.3	2980	1762.9	9.4	9.5	780	760	23.8	30.2	523	557	33.6	4.59	1.36	1.26	9.6	8.5 D
402	1125	1772.0	13.6	340	355	126	38.7	2980	1763.2	9.4	9.5	780	771	23.9	30.2	523	558	33.7	4.60	1.39	1.29	9.6	8.5 D
403	1130	1773.0	11.9	319	339	131	39.0	2980	1763.9	9.5	9.5	778	757	24.0	30.2	526	559	33.8	4.60	1.44	1.34	9.6	8.5 D
404	1134	1774.0	13.1	314	323	131	41.0	2980	1764.8	9.4	9.5	781	760	24.0	30.2	527	560	33.9	4.61	1.44	1.34	9.6	8.5 D
+ POOH with NB#4, HTC ATJ1 at 1774m.																							
+ RIH with RRB#5, HYCALOG PDC DS40 12.25", with 3 X 13, 1 X 12, 1 X 15 jets at 1774m.																							
409	2117	1775.0	8.44	425	603	140	7.22	2520	1774.0	9.5	9.5	753	742	19.4	27.2	501	1.00	.1	.01	1.03	1.06	9.5	8.5 D†
[illegible]	2127	1776.0	6.22	401	694	115	10.1	2540	1774.0	9.5	9.5	765	756	17.7	27.1	500	1.99	.2	.02	1.04	1.05	9.5	8.5 D
[illegible]	2131	1777.0	14.4	620	669	106	13.8	2540	1774.0	9.5	9.5	766	770	17.0	27.1	500	3.00	.3	.03	1.04	1.05	9.5	8.5 D
412	2135	1778.0	15.9	567	682	112	15.3	2540	1774.1	9.4	9.5	771	777	16.7	27.1	501	4.00	.4	.03	1.03	1.06	9.6	8.5 D-
413	2139	1779.0	14.2	602	713	108	14.0	2560	1774.1	9.4	9.5	771	751	16.4	27.0	500	5.00	.4	.06	1.02	1.06	9.6	8.5 D-
414	2143	1780.0	14.4	640	696	108	14.4	2560	1774.1	9.5	9.5	774	760	16.5	27.0	499	6.00	.5	.10	1.03	1.06	9.6	8.5 D-
415	2148	1781.0	11.9	513	695	116	14.8	2570	1774.1	9.4	9.5	773	778	16.9	27.1	498	7.00	.5	.15	1.09	1.12	9.6	8.5 D
416	2152	1782.0	13.9	584	695	114	14.8	2570	1774.0	9.4	9.5	774	752	17.3	27.1	491	7.98	.6	.19	1.05	1.08	9.6	8.5 D-
417	2157	1783.0	13.6	568	669	116	15.9	2580	1774.3	9.5	9.5	776	754	17.6	27.1	485	9.00	.7	.23	1.08	1.11	9.6	8.5 D
418	2201	1784.0	15.6	603	685	112	14.9	2580	1774.6	9.5	9.5	776	755	18.0	27.2	484	10.0	.8	.26	1.02	1.05	9.6	8.5 D
419	2229	1785.0	35.5	582	668	113	8.76	2650	1776.1	9.5	9.5	784	780	19.8	27.3	482	11.0	.8	.27	.76	.78	9.6	8.5 D†
420	2235	1786.0	13.8	541	809	128	5.96	2650	1776.6	9.5	9.5	784	762	20.1	27.3	479	12.0	.9	.31	.88	.91	9.6	8.5 D
421	2241	1787.0	11.8	502	648	132	10.2	2650	1777.2	9.4	9.5	783	774	20.2	27.3	479	13.0	.9	.36	1.02	1.05	9.6	8.5 D
422	2247	1788.0	9.76	475	632	134	12.3	2630	1778.5	9.4	9.5	780	783	20.4	27.3	480	14.0	1.0	.42	1.11	1.13	9.6	8.5 D
423	2253	1789.0	9.35	481	649	134	13.4	2640	1779.8	9.4	9.5	781	762	20.4	27.3	480	15.0	1.1	.49	1.14	1.16	9.6	8.5 D
424	2259	1790.0	10.4	519	664	133	13.2	2630	1781.0	9.5	9.5	782	768	20.5	27.4	482	16.0	1.2	.54	1.11	1.13	9.6	8.5 D
425	2304	1791.0	12.0	503	665	116	13.0	2630	1782.1	9.5	9.5	781	767	20.5	27.4	482	17.0	1.3	.58	1.05	1.07	9.6	8.5 D
426	2307	1792.0	16.8	576	681	104	14.0	2620	1783.1	9.5	9.5	782	762	20.5	27.4	482	18.0	1.4	.60	.98	1.00	9.6	8.5 D
427	2313	1793.0	10.9	504	662	110	14.0	2620	1783.5	9.5	9.5	783	774	20.5	27.5	483	19.0	1.5	.63	1.08	1.10	9.6	8.5 D
428	2317	1794.0	13.2	533	653	109	13.4	2620	1783.5	9.5	9.5	782	760	20.6	27.5	488	20.0	1.5	.66	1.03	1.05	9.6	8.5 D
429	2331	1795.0	19.9	597	725	124	7.05	2610	1784.1	9.4	9.5	781	771	20.5	27.6	525	21.0	1.6	.69	.84	.86	9.6	8.5 D
430	2335	1796.0	14.5	554	669	141	8.05	2610	1784.8	9.4	9.5	780	771	20.5	27.6	527	22.0	1.7	.73	.95	.96	9.6	8.5 D
431	2339	1797.0	14.5	518	676	142	10.6	2600	1785.6	9.5	9.5	787	770	20.4	27.6	529	23.0	1.8	.76	1.01	1.02	9.6	8.5 D
432	2346	1798.0	9.93	494	631	122	10.5	2610	1786.7	9.4	9.5	781	770	20.5	27.7	532	24.0	1.9	.80	1.05	1.06	9.6	8.5 D
433	2351	1799.0	11.8	588	641	123	13.6	2600	1787.4	9.4	9.5	781	772	20.6	27.7	533	25.0	1.9	.84	1.08	1.09	9.6	8.5 D
Date Apr 8 '90																							
[illegible]	0001	1800.0	10.2	484	845	119	9.26	2600	1789.1	9.5	9.5	780	766	20.6	27.8	536	26.0	2.1	.88	1.01	1.02	9.6	8.5 D†
[illegible]	0005	1801.0	16.6	577	734	115	11.8	2600	1789.9	9.4	9.5	781	769	20.7	27.8	538	27.0	2.1	.90	.96	.98	9.6	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 09:51 Date Apr 12 '90
Data Recorded at time 00:07 Date Apr 8 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
436	0007	1802.0	29.2	474	647	137	12.4	2600	1790.4	9.4	9.5	780	766	20.7	27.8	540	28.0	2.1	.91	.90	.90	9.6	8.5 D
437	0009	1803.0	26.0	392	538	133	12.9	2590	1790.9	9.4	9.5	782	762	20.7	27.8	542	29.0	2.2	.93	.92	.93	9.6	8.5 D
438	0026	1804.0	19.5	327	488	139	10.2	2760	1792.7	9.5	9.5	806	787	20.8	28.0	549	30.0	2.2	.96	.94	.94	9.6	8.5 D
439	0029	1805.0	20.6	335	482	153	7.53	2750	1792.4	9.5	9.5	808	793	20.8	28.0	551	31.0	2.3	.98	.89	.89	9.6	8.5 D
440	0032	1806.0	21.0	312	452	157	9.02	2760	1793.1	9.4	9.5	807	793	20.8	28.0	553	32.0	2.3	1.01	.92	.92	9.6	8.5 D
441	0035	1807.0	19.7	323	476	156	10.6	2750	1794.0	9.5	9.5	807	793	20.8	28.0	554	33.0	2.4	1.04	.96	.97	9.6	8.5 D
442	0038	1808.0	20.0	338	456	157	10.6	2740	1794.7	9.5	9.5	807	785	20.8	28.0	555	34.0	2.4	1.07	.96	.97	9.6	8.5 D
443	0042	1809.0	17.1	361	527	133	11.4	2740	1795.5	9.4	9.5	807	799	20.8	28.0	558	35.0	2.5	1.09	.98	.98	9.6	8.5 D
444	0044	1810.0	22.8	392	510	128	12.1	2740	1795.9	9.5	9.5	806	811	20.8	28.0	558	36.0	2.5	1.11	.92	.93	9.6	8.5 D
445	0047	1811.0	24.6	384	509	132	12.3	2740	1796.2	9.4	9.5	806	810	20.8	28.0	559	37.0	2.6	1.12	.92	.92	9.6	8.5 D
446	0049	1812.0	22.4	391	508	128	11.5	2750	1796.9	9.5	9.5	808	798	20.8	28.1	560	38.0	2.6	1.14	.92	.92	9.6	8.5 D
447	0052	1813.0	23.2	390	501	128	12.0	2740	1797.3	9.5	9.5	805	810	20.8	28.1	562	39.0	2.7	1.16	.92	.92	9.6	8.5 D
448	0107	1814.0	20.6	370	519	137	8.57	2610	1798.4	9.5	9.5	784	770	20.9	28.2	527	40.0	2.7	1.18	.89	.89	9.6	8.5 D↑
449	0109	1815.0	33.0	450	554	162	9.09	2610	1798.8	9.5	9.5	785	765	20.9	28.2	527	41.0	2.8	1.20	.84	.84	9.6	8.5 D
450	0111	1816.0	31.3	429	537	162	11.4	2630	1799.5	9.5	9.5	785	764	20.9	28.2	528	42.0	2.8	1.22	.89	.89	9.6	8.5 D
451	0114	1817.0	25.4	407	524	163	11.6	2620	1800.6	9.5	9.5	784	790	20.9	28.2	530	43.0	2.8	1.24	.94	.94	9.6	8.5 D
452	0116	1818.0	26.6	405	548	165	10.9	2600	1801.5	9.5	9.5	784	763	21.0	28.2	531	44.0	2.9	1.26	.92	.92	9.6	8.5 D
453	0118	1819.0	28.4	386	484	165	11.4	2610	1802.1	9.5	9.5	784	763	21.0	28.2	532	45.0	2.9	1.28	.92	.91	9.6	8.5 D
454	0120	1820.0	25.9	380	511	166	9.92	2610	1802.1	9.5	9.5	785	771	21.0	28.2	533	46.0	2.9	1.30	.91	.90	9.6	8.5 D
455	0122	1821.0	31.1	422	546	165	11.5	2610	1802.1	9.5	9.5	785	772	21.0	28.2	534	47.0	3.0	1.32	.90	.90	9.6	8.5 D
456	0124	1822.0	31.3	416	537	141	12.0	2610	1802.1	9.5	9.5	784	769	21.0	28.2	534	48.0	3.0	1.33	.88	.88	9.6	8.5 D
457	0126	1823.0	26.8	397	511	132	11.6	2610	1802.3	9.5	9.5	784	770	21.0	28.2	536	49.0	3.0	1.35	.89	.89	9.7	8.5 D
458	0143	1824.0	19.7	339	482	148	6.71	2650	1805.6	9.4	9.5	788	794	21.1	28.3	543	50.0	3.1	1.37	.86	.86	9.6	8.5 D
459	0146	1825.0	24.7	412	570	147	9.21	2660	1806.5	9.5	9.5	790	770	21.1	28.3	544	51.0	3.1	1.39	.88	.88	9.6	8.5 D
460	0148	1826.0	31.5	432	554	162	11.1	2700	1806.9	9.5	9.5	790	796	21.1	28.3	546	52.0	3.2	1.40	.89	.88	9.6	8.5 D
461	0150	1827.0	22.4	376	482	162	10.7	2700	1807.8	9.5	9.5	797	777	21.2	28.4	547	53.0	3.2	1.42	.94	.94	9.6	8.5 D
462	0152	1828.0	29.6	391	529	162	11.2	2680	1808.6	9.5	9.5	796	782	21.2	28.4	548	54.0	3.2	1.44	.90	.89	9.6	8.5 D
463	0155	1829.0	24.3	412	551	162	10.8	2680	1809.5	9.4	9.5	797	801	21.2	28.4	550	55.0	3.3	1.46	.93	.93	9.6	8.5 D
464	0157	1830.0	29.5	424	529	162	10.8	2690	1810.3	9.5	9.5	797	788	21.2	28.4	549	56.0	3.3	1.48	.89	.89	9.6	8.5 D
465	0159	1831.0	28.6	400	524	162	10.7	2690	1811.0	9.4	9.5	800	780	21.2	28.4	552	57.0	3.4	1.50	.90	.89	9.6	8.5 D
466	0201	1832.0	25.3	375	511	162	10.3	2680	1811.7	9.5	9.5	797	802	21.2	28.4	553	58.0	3.4	1.52	.91	.91	9.6	8.5 D
467	0221	1833.0	30.5	310	475	153	8.05	2680	1814.9	9.4	9.5	791	770	21.3	31.3	562	59.0	3.4	1.53	.82	.82	9.6	8.5 D↑
468	0224	1834.0	31.8	324	486	127	3.60	2660	1816.2	9.4	9.5	791	782	21.3	31.3	564	60.0	3.5	1.54	.67	.67	9.6	8.5 D↑
469	0226	1835.0	28.4	406	547	129	5.86	2670	1817.2	9.4	9.5	794	773	21.4	31.4	566	61.0	3.5	1.55	.76	.75	9.6	8.5 D
470	0227	1836.0	35.0	422	551	130	7.19	2660	1818.0	9.4	9.5	794	799	21.4	28.5	566	62.0	3.5	1.56	.75	.75	9.6	8.5 D
471	0229	1837.0	28.4	365	483	131	7.53	2690	1819.1	9.5	9.5	798	789	21.4	28.5	567	63.0	3.6	1.57	.80	.79	9.6	8.5 D
472	0231	1838.0	29.4	382	501	132	9.01	2670	1820.1	9.5	9.5	797	776	21.5	28.5	568	64.0	3.6	1.58	.82	.82	9.6	8.5 D
473	0233	1839.0	30.9	394	495	132	9.68	2680	1820.9	9.5	9.5	796	774	21.5	28.5	569	65.0	3.6	1.59	.83	.82	9.6	8.5 D
474	0235	1840.0	29.4	396	560	133	10.7	2680	1821.5	9.5	9.5	798	778	21.5	28.5	571	66.0	3.7	1.60	.85	.85	9.6	8.5 D
475	0237	1841.0	31.2	422	528	131	12.0	2700	1821.5	9.4	9.5	797	777	21.6	28.6	572	67.0	3.7	1.61	.86	.86	9.6	8.5 D
476	0240	1842.0	21.2	392	541	132	10.0	2670	1821.5	9.4	9.5	794	773	21.6	28.6	573	68.0	3.7	1.63	.90	.90	9.6	8.5 D
477	0257	1843.0	28.8	417	549	156	7.16	2700	1824.8	9.4	9.5	798	777	21.7	31.7	580	69.0	3.8	1.64	.82	.81	9.6	8.5 D
478	0259	1844.0	25.2	432	563	160	7.69	2690	1825.7	9.5	9.5	800	779	21.7	31.7	581	70.0	3.8	1.66	.86	.85	9.6	8.5 D
479	0302	1845.0	20.5	403	565	161	8.97	2700	1827.0	9.4	9.5	797	801	21.7	31.7	583	71.0	3.9	1.69	.92	.92	9.6	8.5 D
480	0305	1846.0	20.1	353	488	161	8.88	2690	1828.4	9.5	9.5	797	776	21.7	31.7	559	72.0	3.9	1.71	.93	.92	9.6	8.5 D
481	0308	1847.0	19.3	355	471	161	9.74	2690	1829.8	9.5	9.5	798	790	21.7	28.7	558	73.0	4.0	1.73	.95	.94	9.6	8.5 D
482	0310	1848.0	27.7	443	577	155	10.7	2650	1830.7	9.5	9.5	797	775	21.7	28.7	560	74.0	4.0	1.74	.90	.89	9.6	8.5 D
483	0313	1849.0	21.5	373	503	129	10.7	2670	1831.2	9.4	9.5	793	770	21.7	28.7	560	75.0	4.0	1.76	.91	.90	9.6	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 09:58 Date Apr 12 '90
Data Recorded at time 03:16 Date Apr 8 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS m	BIT-hr	EST TW	DXC	NXB	ECD	NXMD
484	0316	1850.0	21.7	382	522	133	10.1	2660	1831.2	9.4	9.5	794	773	21.7	28.7	560	176.0	4.1	1.77	.90	.89	9.6	8.5 D
485	0318	1851.0	21.2	370	496	133	10.3	2730	1831.2	9.5	9.5	805	791	21.7	28.7	564	177.0	4.1	1.79	.91	.90	9.6	8.5 D
486	0331	1852.0	21.4	382	542	136	8.94	2700	1832.8	9.5	9.5	798	789	21.6	31.6	570	178.0	4.2	1.80	.89	.88	9.6	8.5 D
487	0333	1853.0	29.3	453	572	153	7.37	2690	1833.9	9.4	9.5	798	784	21.6	31.6	571	179.0	4.2	1.82	.81	.80	9.6	8.5 D
488	0335	1854.0	30.5	455	594	153	9.28	2680	1834.9	9.5	9.5	796	774	21.6	31.6	571	180.0	4.3	1.83	.85	.84	9.6	8.5 D
489	0337	1855.0	25.9	448	557	153	10.7	2690	1836.0	9.4	9.5	797	801	21.6	31.6	573	181.0	4.3	1.85	.91	.89	9.6	8.5 D
490	0340	1856.0	21.9	396	542	154	10.5	2690	1837.4	9.4	9.5	797	783	21.6	31.6	576	182.0	4.3	1.86	.94	.92	9.6	8.5 D
491	0342	1857.0	25.8	409	518	158	10.1	2690	1838.5	9.5	9.5	798	801	21.7	28.8	577	183.0	4.4	1.88	.90	.89	9.6	8.5 D
492	0345	1858.0	24.3	391	571	160	8.87	2690	1839.7	9.5	9.5	794	786	21.7	28.8	578	184.0	4.4	1.90	.89	.88	9.6	8.5 D
493	0347	1859.0	24.8	396	569	160	7.56	2690	1840.4	9.5	9.5	797	777	21.7	28.8	579	185.0	4.5	1.91	.86	.84	9.6	8.5 D
494	0349	1860.0	30.0	403	514	160	9.05	2690	1840.7	9.5	9.5	795	774	21.7	28.8	580	186.0	4.5	1.93	.86	.84	9.6	8.5 D
495	0352	1861.0	24.8	367	482	130	9.54	2680	1840.7	9.5	9.5	797	776	21.7	28.9	582	187.0	4.5	1.94	.86	.85	9.6	8.5 D
496	0405	1862.0	45.5	389	526	148	3.36	2620	1843.1	9.4	9.5	784	770	21.8	31.8	587	188.0	4.6	1.94	.63	.62	9.6	8.5 D
497	0407	1863.0	38.9	426	558	154	3.08	2600	1843.7	9.5	9.5	785	776	21.9	31.8	587	189.0	4.6	1.95	.65	.64	9.6	8.5 D
498	0408	1864.0	33.9	425	569	137	4.35	2600	1844.2	9.5	9.5	781	785	21.9	31.9	590	190.0	4.6	1.96	.69	.68	9.6	8.5 D
499	0410	1865.0	44.7	437	560	125	5.75	2610	1844.7	9.5	9.5	783	764	21.9	31.9	590	191.0	4.6	1.97	.67	.66	9.6	8.5 D
500	0411	1866.0	36.3	424	550	124	6.61	2620	1845.2	9.4	9.5	785	790	21.9	31.9	592	192.0	4.7	1.97	.72	.71	9.6	8.5 D
501	0413	1867.0	38.6	445	545	126	7.34	2600	1845.7	9.4	9.5	784	788	21.9	31.9	592	193.0	4.7	1.98	.73	.72	9.7	8.5 D
502	0414	1868.0	39.0	444	553	129	8.61	2610	1846.4	9.4	9.5	781	767	21.9	31.9	594	194.0	4.7	1.99	.76	.74	9.7	8.5 D
503	0416	1869.0	41.4	461	561	129	9.62	2610	1847.0	9.4	9.5	783	769	21.9	22.3	594	195.0	4.7	1.99	.76	.75	9.7	8.5 D
504	0417	1870.0	37.9	459	542	123	9.69	2610	1847.5	9.5	9.5	784	775	21.9	28.9	593	196.0	4.8	2.00	.77	.76	9.7	8.5 D
[illegible]	0430	1871.0	40.1	424	592	135	7.99	2650	1850.1	9.4	9.5	791	778	22.0	32.0	559	197.0	4.8	2.01	.75	.74	9.6	8.5 D
[illegible]	0431	1872.0	33.7	418	582	155	4.47	2670	1850.1	9.5	9.5	794	785	22.0	29.0	560	198.0	4.8	2.02	.72	.71	9.7	8.5 D
507	0433	1873.0	38.9	462	583	131	6.18	2660	1850.1	9.5	9.5	791	769	22.0	29.0	561	199.0	4.8	2.02	.71	.70	9.7	8.5 D
508	0435	1874.0	35.0	450	577	125	7.14	2670	1850.2	9.5	9.5	791	783	22.0	29.0	563	100	4.9	2.03	.74	.73	9.7	8.5 D
509	0436	1875.0	32.2	412	561	125	8.60	2660	1850.6	9.5	9.5	793	772	22.0	29.0	564	101	4.9	2.04	.79	.77	9.7	8.5 D
510	0438	1876.0	31.9	453	585	126	10.4	2670	1851.6	9.4	9.5	794	773	22.0	29.0	565	102	4.9	2.05	.82	.81	9.7	8.5 D
511	0440	1877.0	30.6	420	534	125	9.60	2670	1852.4	9.4	9.5	793	772	22.0	29.0	566	103	5.0	2.05	.81	.80	9.7	8.5 D
512	0442	1878.0	35.4	502	590	125	11.3	2680	1853.2	9.4	9.5	791	770	22.0	29.0	566	104	5.0	2.06	.81	.80	9.7	8.5 D
513	0444	1879.0	34.7	495	610	124	11.8	2670	1853.9	9.5	9.5	793	772	22.0	29.0	566	105	5.0	2.07	.82	.81	9.7	8.5 D
514	0445	1880.0	33.5	472	576	124	10.8	2660	1854.5	9.4	9.5	791	769	22.1	29.0	568	106	5.0	2.08	.81	.80	9.7	8.5 D
515	0458	1881.0	23.6	434	566	139	6.29	2600	1857.6	9.4	9.5	778	758	22.1	29.1	574	107	5.1	2.09	.81	.79	9.7	8.5 D
516	0500	1882.0	26.1	455	581	139	7.67	2600	1858.7	9.5	9.5	781	762	22.1	29.1	575	108	5.1	2.10	.82	.81	9.7	8.5 D
517	0503	1883.0	19.4	366	532	143	8.93	2610	1859.6	9.4	9.5	781	760	22.1	29.1	577	109	5.2	2.11	.91	.89	9.7	8.5 D
518	0506	1884.0	19.6	369	534	143	9.25	2610	1859.7	9.5	9.5	780	785	22.1	29.1	578	110	5.2	2.13	.92	.90	9.7	8.5 D
519	0508	1885.0	33.3	505	632	137	9.66	2600	1859.7	9.5	9.5	780	759	22.1	29.1	580	111	5.3	2.14	.81	.80	9.7	8.5 D
520	0510	1886.0	24.0	421	543	140	9.72	2590	1859.9	9.4	9.5	779	782	22.1	29.1	579	112	5.3	2.15	.88	.86	9.7	8.5 D
521	0512	1887.0	29.1	493	607	137	12.4	2600	1861.0	9.4	9.5	779	765	22.1	29.1	580	113	5.3	2.16	.89	.87	9.7	8.5 D
522	0514	1888.0	31.5	495	653	112	13.6	2600	1862.1	9.4	9.5	780	758	22.1	29.1	549	114	5.4	2.17	.85	.84	9.7	8.5 D
523	0516	1889.0	32.0	507	610	109	13.5	2600	1863.3	9.4	9.5	778	764	22.1	29.1	547	115	5.4	2.17	.84	.83	9.7	8.5 D
524	0528	1890.0	27.4	448	623	118	11.1	2760	1868.6	9.5	9.5	805	785	22.1	29.1	550	116	5.4	2.18	.85	.84	9.7	8.5 D
525	0530	1891.0	28.9	460	658	152	5.97	2760	1869.1	9.4	9.5	805	785	22.1	29.1	549	117	5.5	2.20	.78	.76	9.7	8.5 D
526	0532	1892.0	36.4	502	624	153	7.94	2740	1869.1	9.4	9.5	804	807	22.1	29.1	550	118	5.5	2.20	.79	.77	9.7	8.5 D
527	0534	1893.0	34.2	465	598	157	8.84	2730	1869.1	9.4	9.5	803	805	22.1	29.1	551	119	5.5	2.22	.82	.80	9.7	8.5 D
528	0536	1894.0	29.2	413	527	159	9.53	2730	1869.5	9.5	9.5	803	788	22.1	29.1	551	120	5.6	2.23	.87	.84	9.7	8.5 D
529	0538	1895.0	24.7	401	543	159	9.98	2740	1870.8	9.5	9.5	801	780	22.1	29.1	553	121	5.6	2.24	.91	.88	9.7	8.5 D
530	0540	1896.0	32.5	428	548	159	11.6	2730	1871.9	9.5	9.5	801	806	22.1	29.1	554	122	5.6	2.25	.88	.86	9.7	8.5 D
[illegible]	0542	1897.0	30.0	405	505	130	11.1	2720	1873.0	9.5	9.5	802	788	22.1	29.1	554	123	5.7	2.26	.85	.83	9.7	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 10:05 Date Apr 12 '90
Data Recorded at time 05:44 Date Apr 8 '90

F#	TIME	DEPTH	ROP	TORQUE		RPM	WOB	PUMP	RTRNS	MD lb/gal		FLOW/MIN		TEMP (C)		PVT	-THIS BIT-		EST	DXC	NXB	ECD	NXMD
		m	m/hr	AVG	MAX	AVG	AVG	PRES	DEPTH	IN	OUT	IN	OUT	IN	OUT		m	hr	TW				
532	0544	1898.0	29.1	408	546	126	10.5	2720	1874.2	9.4	9.5	802	788	22.1	29.1	555	124	5.7	2.27	.84	.82	9.7	8.5 D
533	0546	1899.0	27.9	423	578	129	8.54	2730	1875.3	9.4	9.5	802	807	22.1	29.1	556	125	5.7	2.28	.82	.80	9.7	8.5 D
534	0557	1900.0	33.9	441	647	122	6.05	2650	1878.5	9.5	9.5	788	768	22.1	29.1	560	126	5.8	2.29	.72	.70	9.7	8.5 D
535	0559	1901.0	40.6	532	649	119	5.69	2660	1878.5	9.5	9.5	789	768	22.1	29.1	561	127	5.8	2.29	.68	.66	9.7	8.5 D
536	0601	1902.0	23.3	375	544	125	5.42	2650	1878.8	9.5	9.5	788	791	22.1	29.1	562	128	5.8	2.30	.77	.76	9.7	8.5 D
537	0604	1903.0	27.0	372	514	125	7.27	2640	1879.6	9.5	9.5	787	773	22.1	29.1	564	129	5.9	2.31	.79	.77	9.7	8.5 D
538	0606	1904.0	23.2	341	460	130	8.33	2640	1880.7	9.5	9.5	789	768	22.2	29.1	566	130	5.9	2.32	.85	.83	9.7	8.5 D
539	0608	1905.0	27.0	433	551	124	10.4	2640	1881.4	9.4	9.5	790	794	22.2	29.1	566	131	6.0	2.33	.85	.83	9.7	8.5 D
540	0610	1906.0	33.2	463	571	126	11.3	2760	1882.0	9.4	9.5	804	795	22.2	29.1	567	132	6.0	2.33	.83	.81	9.7	8.5 D
541	0612	1907.0	29.6	441	562	121	11.8	2760	1882.9	9.5	9.5	806	809	22.2	29.1	568	133	6.0	2.34	.85	.83	9.7	8.5 D
542	0614	1908.0	32.5	520	630	120	13.3	2750	1883.7	9.4	9.5	806	811	22.2	29.1	569	134	6.0	2.35	.85	.83	9.7	8.5 D
543	0627	1909.0	25.8	441	603	128	10.5	2680	1887.9	9.5	9.5	791	776	22.3	29.2	574	135	6.1	2.36	.87	.85	9.6	8.5 D
544	0629	1910.0	22.1	403	561	144	4.30	2680	1888.2	9.5	9.5	792	771	22.3	29.2	576	136	6.1	2.37	.77	.75	9.7	8.5 D
545	0631	1911.0	33.9	483	593	152	7.34	2680	1888.2	9.5	9.5	793	779	22.3	29.1	576	137	6.2	2.38	.79	.76	9.7	8.5 D
546	0633	1912.0	31.4	494	638	148	9.27	2680	1888.2	9.5	9.5	792	772	22.3	29.1	578	138	6.2	2.38	.83	.81	9.7	8.5 D
547	0635	1913.0	27.6	463	583	151	10.4	2680	1888.7	9.5	9.5	796	774	22.3	29.1	578	139	6.2	2.39	.88	.86	9.7	8.5 D
548	0637	1914.0	29.7	461	599	152	12.3	2680	1889.8	9.5	9.5	796	776	22.3	29.1	580	140	6.2	2.40	.90	.88	9.7	8.5 D
549	0639	1915.0	29.1	478	592	151	12.4	2680	1891.1	9.5	9.5	793	778	22.4	29.1	581	141	6.3	2.41	.91	.88	9.7	8.5 D
550	0641	1916.0	27.1	459	597	129	11.4	2670	1892.1	9.5	9.5	794	796	22.4	29.1	582	142	6.3	2.41	.87	.85	9.7	8.5 D
551	0644	1917.0	25.6	423	577	123	9.85	2670	1893.2	9.5	9.5	792	772	22.4	29.2	584	143	6.4	2.42	.85	.83	9.7	8.5 D
552	0646	1918.0	30.4	462	579	122	11.1	2660	1894.1	9.5	9.5	794	796	22.4	29.2	585	144	6.4	2.42	.83	.81	9.7	8.5 D
553	0701	1919.0	37.9	312	540	134	5.82	2710	1897.9	9.5	9.5	797	801	22.4	29.2	592	145	6.4	2.43	.71	.69	9.7	8.5 D
554	0703	1920.0	27.9	420	552	153	3.35	2720	1898.2	9.5	9.5	796	776	22.4	29.2	592	146	6.5	2.43	.71	.69	9.7	8.5 D
555	0704	1921.0	35.1	491	610	149	5.53	2710	1899.1	9.5	9.5	797	775	22.4	29.2	593	147	6.5	2.43	.73	.71	9.7	8.5 D
556	0706	1922.0	32.9	477	602	155	6.72	2720	1900.0	9.5	9.5	798	802	22.4	29.2	593	148	6.5	2.44	.78	.76	9.7	8.5 D
557	0708	1923.0	29.6	454	583	156	8.51	2870	1900.8	9.5	9.5	802	791	22.4	29.2	595	149	6.5	2.44	.84	.81	9.7	8.5 D
558	0710	1924.0	31.7	462	583	156	9.79	2890	1901.6	9.5	9.5	821	803	22.4	29.2	596	150	6.6	2.44	.85	.82	9.7	8.5 D
559	0712	1925.0	35.3	470	608	150	11.0	2870	1902.3	9.5	9.5	824	811	22.4	29.2	597	151	6.6	2.45	.84	.82	9.7	8.5 D
560	0714	1926.0	34.0	492	614	149	12.3	2880	1903.0	9.5	9.5	825	829	22.4	29.2	566	152	6.6	2.45	.87	.84	9.7	8.5 D
561	0715	1927.0	40.5	523	659	149	12.9	2870	1903.8	9.5	9.5	823	809	22.4	29.2	549	153	6.7	2.45	.84	.82	9.7	8.5 D
562	0717	1928.0	32.6	528	686	147	13.9	2880	1904.8	9.5	9.5	824	829	22.4	29.2	549	154	6.7	2.46	.90	.87	9.7	8.5 D
563	0730	1929.0	29.4	371	546	149	6.27	2860	1907.2	9.5	9.5	824	804	22.4	29.3	549	155	6.7	2.46	.78	.76	9.7	8.5 D
564	0732	1930.0	32.9	488	632	156	5.79	2870	1907.6	9.5	9.5	822	827	22.4	29.3	552	156	6.8	2.47	.76	.73	9.7	8.5 D
565	0733	1931.0	34.3	467	580	136	7.34	2870	1908.2	9.5	9.5	822	808	22.4	29.3	552	157	6.8	2.47	.76	.74	9.7	8.5 D
566	0735	1932.0	35.6	475	640	125	8.37	2860	1909.0	9.5	9.5	819	798	22.4	29.3	552	158	6.8	2.47	.76	.74	9.7	8.5 D
567	0737	1933.0	33.2	483	652	123	9.65	2860	1910.0	9.5	9.5	825	830	22.4	29.3	553	159	6.8	2.47	.79	.77	9.7	8.5 D
568	0739	1934.0	34.2	502	610	125	11.0	2870	1910.9	9.5	9.5	822	803	22.5	29.3	552	160	6.9	2.48	.81	.79	9.7	8.5 D
569	0740	1935.0	44.8	576	719	127	12.8	2850	1911.5	9.5	9.5	820	825	22.5	29.3	554	161	6.9	2.48	.79	.77	9.7	8.5 D
570	0742	1936.0	32.2	471	617	132	12.9	2840	1912.4	9.5	9.6	822	828	22.5	29.3	553	162	6.9	2.48	.87	.84	9.7	8.5 D
571	0744	1937.0	32.0	476	619	128	13.1	2860	1913.4	9.5	9.6	820	799	22.5	29.3	554	163	7.0	2.48	.86	.84	9.7	8.5 D
572	0746	1938.0	29.7	454	588	128	13.2	2850	1914.3	9.5	9.6	823	808	22.5	29.3	554	164	7.0	2.49	.88	.86	9.7	8.5 D
573	0756	1939.0	27.1	422	576	150	7.07	2910	1916.9	9.5	9.6	829	819	22.6	29.3	554	165	7.0	2.49	.81	.79	9.7	8.5 D
574	0759	1940.0	25.4	423	559	125	8.02	2940	1916.9	9.5	9.6	831	818	22.6	29.3	558	166	7.1	2.49	.81	.79	9.7	8.5 D
575	0800	1941.0	35.4	501	639	124	10.2	2870	1916.9	9.5	9.6	825	826	22.6	29.3	557	167	7.1	2.50	.79	.77	9.7	8.5 D
576	0802	1942.0	27.3	478	660	126	11.5	2870	1917.1	9.5	9.6	822	828	22.6	29.3	558	168	7.1	2.50	.86	.84	9.7	8.5 D
577	0805	1943.0	27.0	450	573	124	11.9	2860	1917.6	9.5	9.6	821	799	22.6	29.3	558	169	7.2	2.50	.87	.85	9.7	8.5 D
578	0807	1944.0	29.1	453	601	126	12.5	2880	1918.5	9.5	9.6	821	799	22.6	29.3	559	170	7.2	2.51	.87	.84	9.7	8.5 D
579	0808	1945.0	32.9	462	591	127	12.7	2860	1919.5	9.5	9.6	821	805	22.7	29.3	560	171	7.2	2.51	.85	.82	9.7	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 10:12 Date Apr 12 '90
Data Recorded at time 08:10 Date Apr 8 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT- m	THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
580	0810	1946.0	31.2	442	627	123	12.6	2860	1920.6	9.5	9.6	818	821	22.7	29.3	560	172	7.3	2.51	.85	.83	9.7	8.5 D
581	0812	1947.0	29.8	475	610	125	12.6	2850	1921.6	9.5	9.6	822	808	22.7	29.3	561	173	7.3	2.51	.86	.84	9.7	8.5 D
582	0825	1948.0	30.6	457	567	120	9.48	2680	1925.7	9.5	9.6	792	771	22.7	29.4	561	174	7.3	2.52	.80	.78	9.7	8.5 D↑
583	0827	1949.0	34.3	535	701	117	5.95	2680	1926.4	9.5	9.6	790	769	22.8	29.4	562	175	7.3	2.52	.70	.68	9.7	8.5 D
584	0829	1950.0	35.7	522	678	122	7.71	2710	1926.7	9.5	9.6	794	798	22.8	29.4	562	176	7.4	2.52	.74	.72	9.7	8.5 D
585	0831	1951.0	28.6	451	617	125	7.61	2680	1926.7	9.5	9.6	788	793	22.8	29.4	563	177	7.4	2.52	.78	.76	9.7	8.5 D
586	0833	1952.0	31.5	521	657	125	9.73	2700	1926.7	9.5	9.6	791	769	22.8	29.4	563	178	7.4	2.52	.80	.78	9.7	8.5 D
587	0834	1953.0	34.7	521	652	130	10.9	2690	1926.8	9.5	9.6	789	781	22.8	29.4	561	179	7.5	2.52	.81	.79	9.7	8.5 D
588	0836	1954.0	30.8	459	584	130	11.5	2680	1927.3	9.5	9.6	790	776	22.8	29.4	562	180	7.5	2.52	.85	.82	9.7	8.5 D
589	0838	1955.0	27.8	443	555	131	12.0	2680	1928.5	9.5	9.6	792	798	22.8	29.4	563	181	7.5	2.53	.88	.85	9.7	8.5 D
590	0840	1956.0	28.4	473	606	132	12.1	2670	1929.6	9.5	9.6	791	794	22.7	29.4	564	182	7.6	2.53	.88	.85	9.7	8.5 D
591	0843	1957.0	27.1	464	632	131	12.5	2680	1930.9	9.5	9.6	790	793	22.7	29.4	564	183	7.6	2.53	.89	.86	9.7	8.5 D
592	0853	1958.0	50.0	384	631	148	7.74	2820	1934.5	9.5	9.6	809	800	22.7	29.4	564	184	7.6	2.53	.72	.69	9.7	8.5 D↑
593	0855	1959.0	28.1	462	685	158	3.61	2810	1935.6	9.5	9.6	809	812	22.7	29.4	564	185	7.7	2.53	.72	.70	9.7	8.5 D
594	0857	1960.0	33.1	521	669	161	5.73	2800	1936.4	9.5	9.6	812	816	22.7	29.4	565	186	7.7	2.53	.76	.73	9.7	8.5 D
595	0858	1961.0	35.8	527	685	163	7.38	2790	1936.5	9.5	9.6	811	790	22.7	29.4	565	187	7.7	2.54	.79	.76	9.7	8.5 D
596	0900	1962.0	36.4	561	727	160	10.9	2800	1936.5	9.5	9.6	809	812	22.7	29.4	567	188	7.7	2.54	.85	.82	9.7	8.5 D
597	0901	1963.0	40.4	559	721	159	12.1	2800	1936.6	9.5	9.6	811	791	22.7	29.4	566	189	7.8	2.54	.84	.81	9.7	8.5 D
598	0903	1964.0	35.3	528	685	163	12.2	2810	1937.0	9.5	9.6	809	800	22.7	29.4	567	190	7.8	2.54	.87	.85	9.7	8.5 D
599	0904	1965.0	42.7	582	701	161	13.3	2790	1937.6	9.5	9.6	809	788	22.7	29.4	568	191	7.8	2.54	.85	.82	9.7	8.5 D
600	0906	1966.0	38.4	574	715	161	14.1	2810	1938.3	9.5	9.6	806	808	22.7	29.4	568	192	7.8	2.54	.89	.85	9.7	8.5 D
[illegible]	0916	1967.0	30.3	470	667	136	14.0	2830	1941.4	9.5	9.6	809	790	22.8	29.4	537	193	7.9	2.55	.90	.87	9.7	8.5 D↑
[illegible]	0918	1968.0	36.2	564	730	159	9.84	2840	1942.3	9.5	9.6	809	811	22.8	29.5	539	194	7.9	2.55	.83	.80	9.7	8.5 D
603	0919	1969.0	37.8	538	726	158	10.4	2840	1943.1	9.5	9.6	808	787	22.7	29.5	540	195	7.9	2.55	.83	.80	9.7	8.5 D
604	0921	1970.0	34.5	530	692	157	12.1	2850	1943.9	9.5	9.6	810	815	22.7	29.5	540	196	8.0	2.55	.87	.84	9.7	8.5 D
605	0923	1971.0	31.4	486	628	163	13.2	2850	1944.9	9.5	9.6	813	803	22.7	29.5	540	197	8.0	2.55	.92	.89	9.7	8.5 D
606	0925	1972.0	27.4	494	680	163	13.6	2830	1945.8	9.5	9.6	810	801	22.7	29.5	542	198	8.0	2.56	.95	.92	9.7	8.5 D
607	0927	1973.0	29.1	457	606	162	13.7	2860	1946.1	9.5	9.6	813	805	22.7	29.5	543	199	8.1	2.56	.94	.91	9.7	8.5 D
608	0929	1974.0	26.1	439	585	166	13.3	2830	1946.1	9.5	9.6	813	818	22.8	29.5	543	200	8.1	2.56	.96	.93	9.7	8.5 D
609	0931	1975.0	26.3	453	619	144	14.2	2840	1946.7	9.5	9.6	815	818	22.8	29.5	544	201	8.1	2.56	.94	.91	9.7	8.5 D
610	0934	1976.0	22.4	421	593	133	13.8	2830	1948.3	9.5	9.6	814	794	22.8	29.5	544	202	8.2	2.57	.95	.92	9.7	8.5 D
611	0948	1977.0	35.2	461	672	138	9.39	2830	1952.4	9.5	9.6	812	791	23.0	29.6	546	203	8.2	2.57	.80	.77	9.7	8.5 D
612	0949	1978.0	35.2	556	690	130	9.83	2830	1953.1	9.5	9.6	811	792	23.0	29.6	546	204	8.3	2.57	.79	.77	9.7	8.5 D
613	0951	1979.0	33.5	550	689	126	10.6	2820	1954.0	9.5	9.6	810	789	23.0	29.6	548	205	8.3	2.57	.81	.79	9.7	8.5 D
614	0953	1980.0	37.4	530	680	126	12.0	2820	1954.7	9.5	9.6	810	801	23.0	29.6	549	206	8.3	2.57	.81	.79	9.7	8.5 D
615	0955	1981.0	29.5	496	620	126	13.6	2830	1955.6	9.5	9.6	810	813	23.0	29.6	548	207	8.4	2.57	.88	.86	9.7	8.5 D
616	0956	1982.0	33.4	500	645	130	14.6	2840	1955.7	9.5	9.6	810	789	23.0	29.6	549	208	8.4	2.58	.88	.85	9.7	8.5 D
617	0959	1983.0	24.2	440	559	130	13.3	2860	1955.9	9.5	9.6	818	796	23.1	29.6	549	209	8.4	2.58	.92	.90	9.7	8.5 D
618	1001	1984.0	27.7	456	614	128	13.6	2860	1956.7	9.5	9.6	817	820	23.1	29.6	550	210	8.5	2.58	.90	.87	9.7	8.5 D
619	1003	1985.0	26.1	445	565	131	13.7	2860	1957.9	9.5	9.6	817	796	23.1	29.6	549	211	8.5	2.58	.92	.89	9.7	8.5 D
620	1006	1986.0	23.7	429	619	130	10.6	2850	1959.3	9.5	9.6	818	821	23.1	29.6	551	212	8.5	2.58	.88	.86	9.7	8.5 D
621	1021	1987.0	30.3	451	667	157	7.93	2820	1964.6	9.5	9.6	802	784	23.1	29.6	554	213	8.6	2.58	.82	.79	9.7	8.5 D↑
622	1022	1988.0	38.4	595	744	155	10.5	2810	1964.8	9.5	9.6	808	793	23.1	29.6	554	214	8.6	2.59	.82	.80	9.7	8.5 D
623	1024	1989.0	36.5	582	754	158	11.7	2820	1964.9	9.5	9.6	806	786	23.1	29.6	554	215	8.6	2.59	.86	.83	9.7	8.5 D
624	1026	1990.0	34.1	526	680	164	12.3	2800	1965.1	9.5	9.6	805	784	23.1	29.6	555	216	8.7	2.59	.89	.86	9.7	8.5 D
625	1027	1991.0	33.1	485	636	164	13.7	2820	1965.7	9.5	9.6	806	797	23.1	29.6	557	217	8.7	2.59	.91	.88	9.7	8.5 D
[illegible]	1030	1992.0	23.7	424	601	147	13.0	2790	1967.1	9.5	9.6	806	812	23.1	29.6	556	218	8.7	2.59	.95	.92	9.7	8.5 D
[illegible]	1032	1993.0	32.3	473	621	138	12.8	2810	1968.1	9.5	9.6	808	794	23.1	29.6	555	219	8.8	2.60	.87	.84	9.7	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 10:19 Date Apr 12 '90
Data Recorded at time 10:34 Date Apr 8 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
628	1034	1994.0	29.3	439	659	134	14.1	2790	1969.1	9.5	9.6	805	791	23.1	29.6	555	220	8.8	2.60	.90	.88	9.7	8.5 D
629	1036	1995.0	25.5	418	604	134	13.1	2810	1970.1	9.5	9.6	808	794	23.2	29.6	555	221	8.8	2.60	.92	.89	9.7	8.5 D
630	1047	1996.0	32.0	496	702	153	9.66	2830	1973.6	9.5	9.6	809	788	23.2	29.7	557	222	8.9	2.60	.84	.81	9.7	8.5 D
631	1049	1997.0	40.6	559	720	147	9.48	2840	1974.2	9.5	9.6	810	789	23.2	29.7	558	223	8.9	2.60	.79	.76	9.7	8.5 D
632	1051	1998.0	32.9	448	601	135	10.6	2820	1974.4	9.5	9.6	810	789	23.2	29.7	559	224	8.9	2.61	.83	.80	9.7	8.5 D
633	1053	1999.0	23.3	378	537	135	10.5	2830	1974.9	9.5	9.6	809	800	23.2	29.7	559	225	9.0	2.61	.89	.87	9.7	8.5 D
634	1055	2000.0	27.3	428	598	133	12.8	2830	1975.6	9.5	9.6	812	815	23.3	29.7	561	226	9.0	2.61	.90	.87	9.7	8.5 D
635	1058	2001.0	23.3	351	535	135	12.4	2820	1977.1	9.5	9.6	812	798	23.3	29.7	560	227	9.1	2.61	.93	.90	9.7	8.5 D
636	1100	2002.0	37.3	431	549	137	13.5	2840	1978.0	9.5	9.6	811	798	23.3	29.7	561	228	9.1	2.61	.85	.82	9.7	8.5 D
637	1101	2003.0	42.0	486	623	132	13.8	2810	1978.8	9.5	9.6	812	802	23.3	29.7	561	229	9.1	2.61	.82	.80	9.7	8.5 D
638	1103	2004.0	37.8	482	618	131	14.0	2840	1979.6	9.5	9.6	810	796	23.3	29.7	562	230	9.1	2.61	.85	.82	9.7	8.5 D
639	1104	2005.0	34.9	497	647	130	13.9	2830	1980.5	9.5	9.6	812	792	23.3	29.7	563	231	9.2	2.62	.86	.83	9.7	8.5 D
640	1115	2006.0	33.2	477	705	148	10.0	2890	1983.7	9.5	9.6	813	819	23.4	29.7	562	232	9.2	2.62	.83	.81	9.7	8.5 D↑
641	1117	2007.0	39.7	513	668	159	9.46	2850	1984.2	9.5	9.6	814	801	23.4	29.7	562	233	9.2	2.62	.80	.77	9.7	8.5 D
642	1119	2008.0	31.8	497	669	161	10.9	2880	1984.7	9.5	9.6	814	805	23.4	29.7	564	234	9.3	2.62	.87	.84	9.7	8.5 D
643	1122	2009.0	36.1	537	696	161	13.1	2860	1984.8	9.5	9.6	814	817	23.4	29.7	564	235	9.3	2.63	.88	.85	9.7	8.5 D
644	1124	2010.0	31.8	492	626	163	14.3	2930	1984.8	9.5	9.6	825	811	23.4	29.7	564	236	9.4	2.63	.93	.90	9.7	8.5 D
645	1126	2011.0	22.9	435	688	164	11.9	2940	1985.4	9.5	9.6	823	815	23.4	29.7	564	237	9.4	2.63	.96	.93	9.7	8.5 D
646	1128	2012.0	25.6	490	749	159	12.5	2940	1986.8	9.5	9.6	824	803	23.4	29.7	564	238	9.4	2.63	.94	.91	9.7	8.5 D
647	1133	2013.0	13.1	316	457	165	10.9	2940	1989.3	9.5	9.6	825	804	23.4	29.7	565	239	9.5	2.64	1.05	1.02	9.7	8.5 D
648	1146	2014.0	13.6	310	484	154	9.68	2780	1993.4	9.5	9.6	799	803	23.4	29.8	567	240	9.6	2.64	1.00	.98	9.7	8.5 D
649	1149	2015.0	18.5	375	573	121	10.3	2870	1993.7	9.5	9.6	814	800	23.4	29.8	570	241	9.6	2.65	.91	.89	9.7	8.5 D
650	1152	2016.0	23.2	413	619	122	13.4	2840	1993.9	9.5	9.6	813	799	23.4	29.8	569	242	9.7	2.65	.92	.90	9.7	8.5 D
651	1154	2017.0	25.4	450	718	121	15.9	2850	1995.3	9.5	9.6	813	797	23.5	29.8	572	243	9.7	2.65	.94	.91	9.7	8.5 D
652	1156	2018.0	24.5	450	600	117	15.5	2860	1996.6	9.5	9.6	816	818	23.5	29.8	571	244	9.8	2.65	.94	.91	9.7	8.5 D
653	1158	2019.0	30.4	515	663	117	15.8	2870	1997.4	9.5	9.6	814	818	23.5	29.8	572	245	9.8	2.65	.89	.87	9.7	8.5 D
654	1201	2020.0	18.8	400	626	121	16.3	2850	1998.7	9.5	9.6	812	817	23.5	29.8	572	246	9.9	2.65	1.01	.98	9.7	8.5 D
655	1205	2021.0	16.5	366	524	124	16.0	2850	2000.4	9.5	9.6	812	792	23.6	29.8	573	247	9.9	2.66	1.04	1.01	9.7	8.5 D
656	1212	2022.0	10.7	318	583	125	13.2	2870	2003.7	9.5	9.6	815	794	23.7	29.9	524	248	10.0	2.66	1.08	1.06	9.7	8.5 D
657	1214	2023.0	36.5	602	761	118	18.3	2870	2003.7	9.5	9.6	811	797	23.7	29.9	524	249	10.0	2.66	.89	.86	9.7	8.5 D
658	1227	2024.0	29.2	474	603	136	17.9	2820	2006.9	9.5	9.6	805	784	23.9	29.9	527	250	10.1	2.66	.97	.93	9.7	8.5 D↑
659	1247	2025.0	25.7	416	584	148	16.9	2830	2011.9	9.5	9.6	808	788	24.1	30.0	532	251	10.1	2.67	1.00	.97	9.7	8.5 D↑
660	1250	2026.0	24.7	444	582	128	6.77	2800	2011.9	9.5	9.6	809	795	24.1	30.0	533	252	10.2	2.67	.80	.77	9.7	8.5 D
661	1252	2027.0	22.8	434	578	108	11.4	2830	2012.1	9.5	9.6	808	795	24.2	30.0	534	253	10.2	2.67	.87	.85	9.7	8.5 D
662	1254	2028.0	28.8	466	601	115	13.8	2840	2012.6	9.5	9.6	807	812	24.2	30.0	534	254	10.2	2.67	.88	.85	9.7	8.5 D
663	1257	2029.0	25.8	477	635	115	14.2	2830	2013.5	9.5	9.6	808	788	24.2	30.0	535	255	10.3	2.67	.91	.88	9.7	8.5 D
664	1259	2030.0	29.6	528	682	114	15.4	2840	2014.4	9.5	9.6	808	813	24.2	30.0	534	256	10.3	2.67	.89	.86	9.7	8.5 D
665	1301	2031.0	24.5	528	727	108	15.6	2830	2015.2	9.5	9.6	809	788	24.3	30.0	534	257	10.3	2.67	.92	.90	9.7	8.5 D
666	1303	2032.0	24.2	443	640	115	14.0	2830	2016.3	9.5	9.6	808	794	24.4	30.0	535	258	10.4	2.68	.92	.89	9.7	8.5 D
667	1305	2033.0	28.9	457	631	112	13.0	2850	2017.3	9.5	9.6	806	785	24.4	30.0	534	259	10.4	2.68	.86	.83	9.7	8.5 D
668	1317	2034.0	40.5	575	696	130	7.82	2850	2019.1	9.5	9.6	809	794	24.6	28.5	536	260	10.5	2.68	.74	.71	9.7	8.5 D
669	1318	2035.0	47.5	600	682	135	8.52	2840	2019.4	9.5	9.6	808	813	24.6	28.5	536	261	10.5	2.68	.73	.70	9.7	8.5 D
670	1320	2036.0	32.0	495	652	145	9.03	2840	2019.6	9.5	9.6	809	814	24.6	28.5	537	262	10.5	2.68	.82	.79	9.7	8.5 D
671	1322	2037.0	29.7	462	630	147	11.1	2840	2019.8	9.5	9.6	809	800	24.6	28.5	536	263	10.5	2.68	.87	.84	9.7	8.5 D
672	1324	2038.0	29.5	494	667	145	11.5	2830	2020.5	9.5	9.6	809	788	24.6	28.5	537	264	10.6	2.68	.88	.85	9.7	8.5 D
673	1325	2039.0	34.4	516	673	143	12.7	2850	2021.2	9.5	9.6	807	812	24.6	28.5	537	265	10.6	2.69	.87	.84	9.7	8.5 D
674	1327	2040.0	36.1	588	735	135	14.7	2840	2021.6	9.5	9.6	808	788	24.7	28.5	536	266	10.6	2.69	.88	.85	9.7	8.5 D
675	1329	2041.0	30.2	536	695	140	12.5	2850	2021.7	9.5	9.6	808	788	24.7	28.5	539	267	10.7	2.69	.88	.85	9.7	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 10:26 Date Apr 12 '90
Data Recorded at time 13:31 Date Apr 8 '90

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
1676	1331	2042.0	31.5	556	650	138	13.6	2840	2022.2	9.5	9.6	807	785	24.7	28.5	538	268	10.7	2.69	.89	.86	9.7	8.5 D
1677	1341	2043.0	29.2	537	662	135	10.2	2820	2023.4	9.5	9.6	802	780	24.7	30.0	539	269	10.7	2.69	.85	.82	9.7	8.5 D↑
1678	1343	2044.0	34.0	584	696	113	5.18	2800	2023.4	9.5	9.6	800	791	24.7	30.1	538	270	10.8	2.69	.68	.66	9.7	8.5 D
1679	1345	2045.0	30.0	532	704	115	6.70	2790	2023.4	9.5	9.6	801	780	24.7	30.1	540	271	10.8	2.69	.74	.72	9.7	8.5 D
1680	1347	2046.0	30.3	530	683	115	8.48	2820	2023.4	9.5	9.6	799	784	24.7	30.1	541	272	10.8	2.69	.78	.75	9.7	8.5 D
1681	1349	2047.0	29.6	511	692	115	10.5	2810	2023.4	9.5	9.6	801	780	24.7	30.1	540	273	10.9	2.70	.82	.79	9.7	8.5 D
1682	1351	2048.0	23.8	448	601	119	9.28	2790	2023.4	9.5	9.6	802	793	24.7	30.1	541	274	10.9	2.70	.84	.82	9.7	8.5 D
1683	1354	2049.0	25.4	461	604	119	9.64	2810	2023.4	9.5	9.6	801	788	24.7	30.1	541	275	10.9	2.70	.84	.81	9.7	8.5 D
1684	1356	2050.0	29.7	524	671	120	12.1	2800	2023.9	9.5	9.6	804	782	24.7	30.2	542	276	11.0	2.70	.85	.82	9.7	8.5 D
1685	1358	2051.0	29.5	503	679	116	12.0	2810	2024.7	9.5	9.6	801	781	24.7	30.2	543	277	11.0	2.70	.84	.82	9.7	8.5 D
1686	1359	2052.0	34.1	492	614	119	11.4	2800	2025.4	9.5	9.6	802	804	24.7	30.2	542	278	11.0	2.70	.81	.78	9.7	8.5 D
1687	1407	2053.0	43.9	465	625	145	3.70	2830	2027.8	9.5	9.6	804	791	24.7	30.2	542	279	11.1	2.70	.64	.61	9.7	8.5 D↑
1688	1409	2054.0	29.2	388	539	151	2.79	2820	2028.7	9.5	9.6	805	810	24.7	30.2	265	280	11.1	2.70	.67	.65	9.7	8.5 D
1689	1412	2055.0	26.7	407	557	151	4.50	2860	2029.7	9.5	9.6	810	815	24.7	30.2	265	281	11.1	2.71	.75	.72	9.7	8.5 D
1690	1413	2056.0	36.8	491	677	146	6.99	2880	2030.2	9.5	9.6	810	790	24.6	30.2	266	282	11.2	2.71	.75	.72	9.7	8.5 D
1691	1414	2057.0	50.9	632	727	134	9.18	2870	2030.6	9.5	9.6	811	797	24.6	30.2	267	283	11.2	2.71	.72	.69	9.7	8.5 D
1692	1416	2058.0	48.6	675	748	124	10.8	2880	2031.2	9.5	9.6	809	795	24.6	30.2	272	284	11.2	2.71	.74	.71	9.7	8.5 D
1693	1417	2059.0	44.0	704	769	117	11.7	2880	2031.7	9.5	9.6	811	803	24.6	30.2	301	285	11.2	2.71	.76	.73	9.7	8.5 D
1694	1419	2060.0	36.6	552	733	113	11.0	2880	2031.7	9.5	9.6	810	790	24.6	30.2	318	286	11.2	2.71	.78	.75	9.7	8.5 D
1695	1420	2061.0	37.9	635	734	103	12.7	2880	2031.7	9.5	9.6	810	790	24.6	30.2	258	287	11.3	2.71	.78	.75	9.7	8.5 D
1696	1430	2062.0	33.7	609	760	104	11.2	2840	2035.5	9.5	9.6	800	781	24.6	30.2	247	288	11.3	2.71	.78	.76	9.7	8.5 D↑
1697	1432	2063.0	31.2	563	767	134	6.12	2860	2036.4	9.5	9.6	804	791	24.6	30.2	248	289	11.3	2.71	.75	.72	9.7	8.5 D
1698	1434	2064.0	34.5	719	818	112	9.17	2850	2037.3	9.5	9.6	803	783	24.6	30.2	248	290	11.4	2.72	.76	.73	9.7	8.5 D
1699	1436	2065.0	28.8	625	793	127	8.77	2840	2038.5	9.5	9.6	804	785	24.5	30.2	247	291	11.4	2.72	.81	.78	9.7	8.5 D
1700	1438	2066.0	31.2	564	694	142	9.32	2840	2039.5	9.5	9.6	804	790	24.5	30.2	247	292	11.4	2.72	.82	.79	9.7	8.5 D
1701	1440	2067.0	32.8	641	761	111	12.1	2830	2040.5	9.5	9.6	803	782	24.5	30.2	247	293	11.5	2.72	.81	.79	9.7	8.5 D
1702	1442	2068.0	34.1	641	779	106	12.6	2850	2041.2	9.5	9.6	804	809	24.6	30.2	248	294	11.5	2.72	.80	.78	9.7	8.5 D
1703	1443	2069.0	33.4	727	831	82	14.8	2860	2041.4	9.5	9.6	804	795	24.7	30.2	248	295	11.5	2.72	.78	.76	9.7	8.5 D
1704	1445	2070.0	31.4	660	802	101	14.6	2850	2041.4	9.5	9.6	802	782	24.7	30.2	248	296	11.6	2.72	.84	.81	9.7	8.5 D
1705	1447	2071.0	34.5	659	832	99	12.4	2860	2041.7	9.5	9.6	803	794	24.7	30.2	248	297	11.6	2.72	.78	.76	9.7	8.5 D↑
1706	1458	2072.0	32.2	565	706	118	8.80	2870	2045.5	9.5	9.6	806	812	24.8	30.3	246	298	11.6	2.72	.77	.75	9.7	8.5 D↑
1707	1500	2073.0	35.5	625	746	128	4.87	2890	2046.3	9.5	9.6	808	814	24.8	30.3	247	299	11.6	2.72	.69	.66	9.7	8.5 D
1708	1501	2074.0	38.0	668	770	116	6.24	2880	2047.0	9.5	9.6	807	794	24.8	30.3	246	300	11.7	2.73	.69	.67	9.7	8.5 D
1709	1503	2075.0	32.4	640	754	128	7.55	2870	2047.7	9.5	9.6	806	798	24.9	30.3	247	301	11.7	2.73	.76	.74	9.7	8.5 D
1710	1506	2076.0	25.9	538	673	145	6.43	2880	2049.0	9.5	9.6	807	786	24.9	30.3	246	302	11.7	2.73	.80	.77	9.7	8.5 D
1711	1508	2077.0	23.2	479	599	145	6.32	2870	2050.3	9.5	9.6	808	787	25.0	30.3	250	303	11.8	2.73	.81	.79	9.7	8.5 D
1712	1511	2078.0	24.2	482	609	149	7.63	2890	2051.1	9.5	9.6	807	786	25.0	30.3	249	304	11.8	2.73	.84	.81	9.7	8.5 D
1713	1514	2079.0	20.8	466	620	150	9.91	2880	2051.5	9.5	9.6	808	813	25.0	30.3	250	305	11.9	2.73	.92	.89	9.7	8.5 D
1714	1516	2080.0	26.9	497	626	147	9.05	2860	2052.4	9.5	9.6	807	786	25.1	30.3	250	306	11.9	2.74	.85	.82	9.7	8.5 D
1715	1519	2081.0	22.5	484	599	122	8.83	2860	2053.7	9.5	9.6	807	798	25.1	30.3	249	307	11.9	2.74	.85	.82	9.7	8.5 D
1716	1532	2082.0	46.3	575	755	133	3.29	2890	2057.9	9.5	9.6	804	791	25.0	30.3	248	308	12.0	2.74	.60	.58	9.7	8.5 D↑
1717	1534	2083.0	37.3	694	805	115	4.54	2870	2059.0	9.5	9.6	806	798	24.9	30.3	250	309	12.0	2.74	.65	.63	9.7	8.5 D
1718	1536	2084.0	34.5	696	795	116	6.01	2880	2060.1	9.5	9.6	806	808	24.9	30.3	251	310	12.0	2.74	.70	.68	9.7	8.5 D
1719	1537	2085.0	39.5	687	777	121	7.79	2890	2060.9	9.5	9.6	806	792	24.8	30.3	250	311	12.0	2.74	.72	.70	9.7	8.5 D
1720	1539	2086.0	40.5	576	710	144	7.59	2890	2060.9	9.5	9.6	807	786	24.8	30.3	251	312	12.1	2.74	.75	.72	9.7	8.5 D
1721	1540	2087.0	38.2	595	734	137	9.21	2880	2060.9	9.5	9.6	808	811	24.9	30.3	250	313	12.1	2.74	.78	.75	9.7	8.5 D
1722	1542	2088.0	35.3	552	716	143	7.59	2890	2061.0	9.5	9.6	807	792	24.9	30.2	251	314	12.1	2.75	.77	.74	9.7	8.5 D
1723	1543	2089.0	42.2	627	770	135	8.76	2900	2061.2	9.5	9.6	806	809	24.9	30.2	251	315	12.1	2.75	.75	.72	9.7	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 10:33 Date Apr 12 '90
Data Recorded at time 15:45 Date Apr 8 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD 1b/gal IN	MD 1b/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
724	1545	2090.0	43.9	697	772	114	10.9	2900	2061.9	9.5	9.6	804	790	24.9	30.2	251	316	12.2	2.75	.74	.72	9.7	8.5 D
725	1554	2091.0	37.0	604	791	102	11.3	2840	2065.3	9.5	9.6	798	785	24.8	30.4	251	317	12.2	2.75	.76	.74	9.7	8.5 D↑
726	1556	2092.0	107	571	697	139	1.46	2840	2066.2	9.5	9.6	800	792	24.7	30.4	252	318	12.2	2.75	.42	.40	9.7	8.5 D↑
727	1557	2093.0	36.1	660	787	124	3.79	2850	2067.2	9.5	9.6	798	804	24.6	30.4	252	319	12.2	2.75	.65	.63	9.7	8.5 D
728	1559	2094.0	29.5	600	739	117	4.29	2850	2068.2	9.5	9.6	802	806	24.6	30.4	253	320	12.3	2.75	.69	.66	9.7	8.5 D
729	1601	2095.0	30.0	621	737	105	6.31	2850	2069.2	9.5	9.6	800	786	24.6	30.4	254	321	12.3	2.75	.72	.69	9.7	8.5 D
730	1603	2096.0	33.3	625	736	108	8.09	2840	2070.1	9.5	9.6	800	805	24.5	30.4	254	322	12.3	2.75	.74	.71	9.7	8.5 D
731	1605	2097.0	35.5	680	784	102	10.7	2840	2070.7	9.5	9.6	799	779	24.5	30.4	254	323	12.3	2.75	.76	.74	9.7	8.5 D
732	1606	2098.0	33.2	605	762	109	11.4	2860	2070.9	9.5	9.6	799	786	24.5	30.4	254	324	12.4	2.75	.80	.77	9.7	8.5 D
733	1609	2099.0	22.3	541	775	110	12.3	2850	2071.0	9.5	9.6	800	780	24.5	30.4	253	325	12.4	2.75	.89	.86	9.7	8.5 D
734	1611	2100.0	28.6	564	702	113	12.5	2820	2071.7	9.5	9.6	799	778	24.5	30.4	253	326	12.5	2.76	.85	.82	9.7	8.5 D
735	1620	2101.0	41.2	664	786	119	10.1	2880	2074.9	9.5	9.6	803	806	24.4	30.4	247	327	12.5	2.76	.75	.73	9.7	8.5 D
736	1621	2102.0	36.8	692	832	110	11.2	2870	2075.4	9.5	9.6	807	792	24.4	30.4	247	328	12.5	2.76	.78	.75	9.7	8.5 D
737	1623	2103.0	39.1	611	743	133	11.6	2880	2076.0	9.5	9.6	803	806	24.4	30.4	246	329	12.5	2.76	.81	.78	9.7	8.5 D
738	1624	2104.0	40.4	648	767	127	13.7	2890	2076.5	9.5	9.6	805	796	24.4	30.4	243	330	12.6	2.76	.82	.79	9.7	8.5 D
739	1626	2105.0	38.4	616	736	131	14.2	2860	2077.1	9.5	9.6	806	792	24.4	30.4	241	331	12.6	2.76	.85	.81	9.7	8.5 D
740	1627	2106.0	38.6	561	695	140	14.9	2880	2077.7	9.5	9.6	804	807	24.5	30.4	238	332	12.6	2.76	.87	.83	9.7	8.5 D
741	1629	2107.0	43.8	635	750	133	14.8	2900	2078.2	9.5	9.6	804	784	24.5	30.4	236	333	12.6	2.76	.83	.80	9.7	8.5 D
742	1630	2108.0	45.0	634	729	132	14.8	2890	2078.7	9.5	9.6	806	810	24.5	30.4	234	334	12.7	2.76	.82	.79	9.7	8.5 D
743	1631	2109.0	51.8	657	750	130	15.0	2870	2079.2	9.5	9.6	803	809	24.5	30.4	233	335	12.7	2.77	.79	.76	9.7	8.5 D
744	1639	2110.0	47.3	577	743	136	12.2	2860	2080.7	9.5	9.6	790	799	24.6	30.4	219	336	12.7	2.77	.78	.75	9.7	8.5 D↑
745	1640	2111.0	60.8	627	698	133	4.57	2880	2080.8	9.5	9.6	797	776	24.6	30.5	222	337	12.7	2.77	.59	.57	9.7	8.5 D
746	1641	2112.0	60.9	683	738	104	6.71	2880	2080.8	9.5	9.6	798	778	24.6	30.5	223	338	12.7	2.77	.60	.58	9.7	8.5 D
747	1642	2113.0	52.1	646	719	106	6.22	2850	2081.0	9.5	9.6	801	806	24.6	30.4	222	339	12.8	2.77	.62	.60	9.7	8.5 D
748	1644	2114.0	31.6	626	766	102	8.24	2860	2082.3	9.5	9.6	801	806	24.6	30.5	224	340	12.8	2.77	.74	.72	9.7	8.5 D
749	1646	2115.0	29.9	655	766	103	9.96	2860	2083.4	9.5	9.6	799	778	24.6	30.5	224	341	12.8	2.77	.78	.76	9.7	8.5 D
750	1648	2116.0	25.6	645	757	103	11.3	2870	2084.8	9.5	9.6	799	790	24.6	30.5	223	342	12.9	2.77	.83	.81	9.7	8.5 D
751	1650	2117.0	28.3	588	754	110	10.5	2870	2086.2	9.5	9.6	801	787	24.6	30.5	224	343	12.9	2.77	.81	.79	9.7	8.5 D
752	1653	2118.0	22.5	540	695	117	12.2	2850	2087.8	9.5	9.6	800	779	24.6	30.5	222	344	12.9	2.77	.90	.87	9.7	8.5 D
753	1721	2120.0	19.1	470	674	132	7.18	2860	2097.9	9.5	9.6	803	789	24.9	30.6	222	346	13.1	2.78	.86	.83	9.7	8.5 D
754	1724	2121.0	19.4	478	669	118	10.3	2840	2099.1	9.5	9.6	801	793	25.0	30.6	222	347	13.2	2.78	.90	.87	9.7	8.5 D
755	1727	2122.0	19.3	489	619	109	10.1	2840	2100.5	9.5	9.6	800	792	25.0	30.6	223	348	13.2	2.78	.88	.86	9.7	8.5 D
756	1730	2123.0	20.3	484	640	115	12.3	2840	2100.8	9.5	9.6	800	787	25.0	30.6	223	349	13.3	2.78	.92	.89	9.7	8.5 D
757	1734	2124.0	15.9	465	699	122	13.3	2860	2102.9	9.5	9.6	802	783	25.0	30.6	223	350	13.3	2.79	1.00	.97	9.7	8.5 D
758	1737	2125.0	20.4	502	737	119	14.1	2850	2104.8	9.5	9.6	800	786	25.0	30.6	226	351	13.4	2.79	.96	.93	9.7	8.5 D
759	1739	2126.0	23.1	482	608	118	15.5	2830	2106.5	9.5	9.6	800	805	24.9	30.6	225	352	13.4	2.79	.95	.92	9.7	8.5 D
760	1742	2127.0	20.0	506	677	118	14.7	2860	2108.8	9.5	9.6	799	777	24.9	30.6	225	353	13.5	2.79	.97	.94	9.7	8.5 D
761	1744	2128.0	27.2	582	697	106	14.7	2840	2109.9	9.5	9.6	800	778	24.8	30.6	224	354	13.5	2.79	.88	.85	9.7	8.5 D
762	1755	2129.0	25.4	619	772	96	12.9	2890	2113.5	9.5	9.6	798	778	24.8	30.7	224	355	13.5	2.79	.85	.83	9.7	8.5 D↑
763	1758	2130.0	23.6	574	767	124	8.50	2880	2114.8	9.5	9.6	799	789	24.8	30.7	225	356	13.6	2.80	.84	.81	9.7	8.5 D
764	1800	2131.0	24.7	617	721	114	11.3	2850	2116.0	9.5	9.6	801	787	24.8	30.7	226	357	13.6	2.80	.87	.84	9.7	8.5 D
765	1803	2132.0	22.1	534	728	131	10.2	2860	2117.2	9.5	9.6	801	782	24.8	30.7	225	358	13.7	2.80	.90	.87	9.7	8.5 D
766	1804	2133.0	32.9	597	700	129	11.9	2870	2117.9	9.5	9.6	802	808	24.8	30.7	226	359	13.7	2.80	.85	.81	9.7	8.5 D
767	1806	2134.0	30.5	617	723	124	14.0	2880	2118.5	9.5	9.6	800	779	24.9	30.7	227	360	13.7	2.80	.88	.85	9.7	8.5 D
768	1809	2135.0	22.1	602	762	120	14.3	2870	2118.8	9.5	9.6	800	779	24.9	30.7	227	361	13.8	2.80	.95	.92	9.7	8.5 D
769	1811	2136.0	30.8	599	686	124	10.1	2870	2118.8	9.5	9.6	800	803	24.9	30.7	227	362	13.8	2.80	.82	.79	9.7	8.5 D
770	1813	2137.0	28.8	663	776	102	13.7	2880	2118.8	9.5	9.6	799	785	25.0	30.7	227	363	13.8	2.80	.85	.82	9.7	8.5 D
771	1816	2138.0	26.4	617	683	122	15.2	2870	2118.8	9.5	9.6	801	780	25.0	30.7	228	364	13.9	2.81	.93	.89	9.7	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 10:40 Date Apr 12 '90
Data Recorded at time 18:25 Date Apr 8 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	hr	EST TW	DXC	NXB	ECD	NXMD
1772	1825	2139.0	21.0	514	639	114	10.5	2910	2119.7	9.5	9.6	802	780	25.1	30.7	230	365	13.9	2.81	.88	.86	9.7	8.5↑D↑
1773	1827	2140.0	27.6	590	707	103	8.17	2900	2119.8	9.5	9.6	805	783	25.1	30.7	231	366	13.9	2.81	.77	.74	9.7	8.5↑D
1774	1830	2141.0	28.6	595	731	101	10.4	2900	2120.1	9.5	9.6	803	807	25.1	30.7	231	367	14.0	2.81	.80	.77	9.7	8.5↑D
1775	1832	2142.0	25.8	586	767	101	12.8	2910	2120.8	9.5	9.6	804	791	25.1	30.7	230	368	14.0	2.81	.86	.83	9.7	8.5↑D
1776	1835	2143.0	21.8	536	718	109	13.1	2900	2121.8	9.5	9.6	805	783	25.1	30.8	232	369	14.1	2.81	.91	.88	9.7	8.5↑D
1777	1837	2144.0	21.3	507	645	112	12.6	2870	2122.7	9.5	9.6	803	781	25.2	30.8	233	370	14.1	2.81	.91	.88	9.7	8.5↑D
1778	1840	2145.0	24.7	498	665	113	12.4	2900	2123.5	9.5	9.6	804	809	25.2	30.8	231	371	14.1	2.81	.88	.85	9.7	8.5↑D
1779	1842	2146.0	25.8	539	660	110	12.2	2880	2124.1	9.5	9.6	803	781	25.2	30.8	231	372	14.2	2.82	.86	.83	9.7	8.5↑D
1780	1844	2147.0	26.3	565	692	103	13.2	2890	2124.9	9.5	9.6	802	807	25.3	30.8	231	373	14.2	2.82	.86	.84	9.7	8.5↑D
1781	1846	2148.0	27.8	596	722	101	14.8	2890	2125.7	9.5	9.6	803	809	25.3	30.8	232	374	14.3	2.82	.87	.84	9.7	8.5↑D
1782	1856	2149.0	24.8	388	610	111	6.31	2880	2128.1	9.5	9.6	801	804	25.4	30.9	231	375	14.3	2.82	.76	.74	9.7	8.5↑D↑
1783	1858	2150.0	27.9	603	717	96	9.11	2890	2129.1	9.5	9.6	802	794	25.4	30.9	231	376	14.3	2.82	.77	.75	9.7	8.5↑D
1784	1901	2151.0	26.5	560	687	102	11.7	2890	2129.4	9.5	9.6	800	779	25.5	30.9	231	377	14.4	2.82	.83	.81	9.7	8.5↑D
1785	1903	2152.0	23.9	610	722	94	14.0	2890	2129.4	9.5	9.6	802	782	25.6	30.9	230	378	14.4	2.82	.87	.85	9.7	8.5↑D
1786	1906	2153.0	22.5	511	624	110	14.8	2890	2130.2	9.5	9.6	802	782	25.6	30.9	230	379	14.5	2.82	.93	.90	9.7	8.5↑D
1787	1908	2154.0	23.8	556	720	103	11.3	2890	2131.2	9.5	9.6	802	805	25.6	30.9	230	380	14.5	2.82	.85	.83	9.7	8.5↑D
1788	1911	2155.0	21.4	513	645	107	12.6	2880	2132.3	9.5	9.6	802	806	25.6	30.9	232	381	14.6	2.82	.90	.87	9.7	8.5↑D
1789	1914	2156.0	24.2	514	632	111	13.0	2930	2133.6	9.5	9.6	805	785	25.6	30.9	230	382	14.6	2.83	.89	.86	9.7	8.5↑D
1790	1916	2157.0	25.9	633	743	96	15.7	2920	2134.8	9.5	9.6	807	787	25.6	30.9	231	383	14.6	2.83	.88	.86	9.7	8.5↑D
1791	1925	2158.0	21.8	545	704	108	12.7	2880	2137.7	9.5	9.6	793	776	25.5	31.0	231	384	14.7	2.83	.90	.87	9.7	8.5↑D↑
1792	1927	2159.0	25.4	626	744	94	4.47	2890	2138.8	9.5	9.6	800	786	25.4	31.0	231	385	14.7	2.83	.68	.66	9.7	8.5↑D
[illegible]	1930	2160.0	25.7	645	740	92	7.14	2890	2139.1	9.5	9.6	799	802	25.4	31.0	233	386	14.8	2.83	.74	.72	9.7	8.5↑D
1794	1932	2161.0	23.8	612	737	98	9.32	2890	2139.5	9.5	9.6	797	799	25.3	31.0	232	387	14.8	2.83	.81	.78	9.7	8.5↑D
1795	1935	2162.0	20.8	648	766	86	12.1	2870	2140.0	9.5	9.6	799	786	25.3	31.0	233	388	14.8	2.83	.86	.83	9.7	8.5↑D
1796	1938	2163.0	24.7	602	763	98	14.3	2880	2141.2	9.5	9.6	800	780	25.3	31.0	233	389	14.9	2.83	.88	.85	9.7	8.5↑D
1797	1940	2164.0	22.3	622	730	99	14.9	2890	2142.4	9.5	9.6	800	804	25.3	31.0	235	390	14.9	2.83	.91	.88	9.7	8.5↑D
1798	1943	2165.0	23.5	617	763	98	16.5	2890	2143.3	9.5	9.6	800	779	25.4	31.0	235	391	15.0	2.84	.92	.89	9.7	8.5↑D
1799	1945	2166.0	24.0	603	765	102	15.6	2880	2144.3	9.5	9.6	797	800	25.4	31.0	235	392	15.0	2.84	.91	.88	9.7	8.5↑D↑
1800	1948	2167.0	23.3	688	781	80	14.5	2880	2145.4	9.5	9.6	799	778	25.4	31.0	237	393	15.1	2.84	.85	.83	9.7	8.5↑D↑
1801	2003	2168.0	24.4	608	698	110	9.27	2910	2149.0	9.5	9.6	804	783	25.4	31.1	236	394	15.1	2.84	.82	.80	9.7	8.5↑D
1802	2005	2169.0	22.8	641	755	102	7.52	2910	2149.7	9.5	9.6	803	794	25.5	31.1	237	395	15.1	2.84	.79	.76	9.7	8.5↑D↑
1803	2008	2170.0	24.8	627	736	110	9.94	2910	2150.7	9.5	9.6	804	806	25.5	31.1	236	396	15.2	2.84	.83	.81	9.7	8.5↑D
1804	2010	2171.0	24.4	659	760	99	12.0	2890	2151.8	9.5	9.6	803	780	25.6	31.1	237	397	15.2	2.84	.85	.83	9.7	8.5↑D
1805	2013	2172.0	21.8	598	754	124	13.6	2910	2152.8	9.5	9.6	804	807	25.8	31.1	238	398	15.3	2.84	.94	.91	9.7	8.5↑D
1806	2015	2173.0	24.0	558	723	131	13.4	2900	2153.8	9.5	9.6	803	794	25.8	31.1	239	399	15.3	2.85	.93	.90	9.7	8.5↑D
1807	2018	2174.0	25.0	634	759	113	14.1	2890	2154.7	9.5	9.6	800	805	25.9	31.1	239	400	15.4	2.85	.91	.88	9.7	8.5↑D
1808	2021	2175.0	23.3	609	782	113	14.3	2920	2155.8	9.5	9.6	805	792	25.9	31.2	234	401	15.4	2.85	.92	.89	9.7	8.5↑D
1809	2023	2176.0	27.5	618	690	118	14.0	2910	2156.7	9.5	9.6	807	810	25.9	31.2	234	402	15.4	2.85	.89	.86	9.7	8.5↑D
1810	2025	2177.0	27.3	650	720	113	15.2	2940	2157.7	9.5	9.6	806	793	25.9	31.2	236	403	15.5	2.85	.90	.87	9.7	8.5↑D
1811	2034	2178.0	23.5	584	753	109	6.76	2870	2158.6	9.5	9.6	795	775	25.9	31.2	239	404	15.5	2.85	.78	.75	9.7	8.5↑D
1812	2036	2179.0	22.2	644	760	86	8.81	2860	2159.4	9.5	9.6	796	798	25.9	31.2	238	405	15.6	2.85	.79	.76	9.7	8.5↑D
1813	2039	2180.0	23.4	625	746	97	11.2	2860	2160.5	9.5	9.6	795	786	25.9	31.2	240	406	15.6	2.85	.84	.82	9.7	8.5↑D
1814	2041	2181.0	22.8	608	759	95	14.1	2860	2161.6	9.5	9.6	795	798	25.9	31.2	240	407	15.6	2.85	.89	.86	9.7	8.5↑D↑
1815	2045	2182.0	17.8	496	628	115	14.8	2880	2162.7	9.5	9.6	796	776	26.0	31.3	241	408	15.7	2.86	.99	.96	9.7	8.5↑D
1816	2048	2183.0	19.8	565	729	103	15.7	2850	2163.9	9.5	9.6	795	800	25.9	31.3	243	409	15.8	2.86	.96	.93	9.7	8.5↑D
1817	2050	2184.0	22.5	576	688	104	14.9	2860	2164.8	9.5	9.6	797	782	25.9	31.3	245	410	15.8	2.86	.92	.89	9.7	8.5↑D
[illegible]	2053	2185.0	20.4	501	654	117	12.5	2860	2166.0	9.5	9.6	796	782	25.9	31.3	241	411	15.8	2.86	.93	.90	9.7	8.5↑D
[illegible]	2056	2186.0	21.5	599	688	105	13.7	2870	2167.0	9.5	9.6	796	775	25.9	31.3	242	412	15.9	2.86	.91	.89	9.7	8.5↑D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 10:47 Date Apr 12 '90
Data Recorded at time 21:05 Date Apr 8 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
1820	2105	2187.0	21.5	562	693	104	11.0	2930	2168.1	9.5	9.6	802	782	25.8	31.3	247	413	16.0	2.86	.87	.84	9.7	8.5 D
1821	2108	2188.0	21.1	642	776	88	8.96	2930	2168.1	9.5	9.6	804	782	25.8	31.3	248	414	16.0	2.86	.80	.78	9.7	8.5 D
1822	2111	2189.0	23.7	609	773	97	11.6	2920	2168.4	9.5	9.6	805	809	25.8	31.3	244	415	16.0	2.87	.85	.82	9.7	8.5 D↑
1823	2114	2190.0	22.4	632	767	94	14.6	2930	2169.3	9.5	9.6	805	796	25.8	31.3	245	416	16.1	2.87	.90	.87	9.7	8.5 D↑
1824	2117	2191.0	20.2	623	781	88	16.2	2920	2170.5	9.5	9.6	805	796	25.9	31.4	245	417	16.1	2.87	.93	.90	9.7	8.5 D
1825	2120	2192.0	19.8	560	748	105	14.3	2930	2171.7	9.5	9.6	804	807	25.9	31.4	245	418	16.2	2.87	.94	.91	9.7	8.5 D
1826	2122	2193.0	25.3	618	703	96	15.6	2930	2172.5	9.5	9.6	806	792	25.9	31.4	242	419	16.2	2.87	.89	.86	9.7	8.5 D
1827	2125	2194.0	23.1	618	743	93	16.1	2920	2173.6	9.5	9.6	804	790	25.9	31.4	242	420	16.3	2.87	.91	.88	9.7	8.5 D
1828	2129	2195.0	19.8	641	769	80	13.0	2930	2175.1	9.5	9.6	805	810	25.8	31.4	243	421	16.3	2.87	.86	.84	9.7	8.5 D↑
1829	2132	2196.0	21.0	662	782	85	13.9	2910	2176.3	9.5	9.6	804	786	25.8	31.4	243	422	16.4	2.87	.88	.86	9.7	8.5 D
1830	2143	2197.0	19.0	537	720	129	6.35	2860	2178.3	9.5	9.6	797	784	25.9	31.5	247	423	16.4	2.88	.83	.81	9.7	8.5 D
1831	2146	2198.0	19.9	507	711	134	8.08	2880	2179.4	9.5	9.6	799	779	25.9	31.5	247	424	16.5	2.88	.87	.84	9.7	8.5 D
1832	2148	2199.0	28.9	598	710	116	11.5	2890	2180.3	9.5	9.6	800	779	26.0	31.5	248	425	16.5	2.88	.84	.81	9.7	8.5 D
1833	2151	2200.0	18.6	471	678	137	12.1	2870	2181.4	9.5	9.6	802	788	26.1	31.5	247	426	16.6	2.88	.97	.94	9.7	8.5 D
1834	2154	2201.0	22.3	557	741	119	10.8	2900	2182.2	9.5	9.6	798	784	26.2	31.5	249	427	16.6	2.88	.88	.85	9.7	8.5 D↑
1835	2158	2202.0	18.6	575	760	117	10.4	2880	2183.3	9.5	9.6	799	777	26.2	31.5	249	428	16.7	2.89	.91	.88	9.7	8.5 D↑
1836	2200	2203.0	25.5	618	740	98	12.2	2880	2184.2	9.5	9.6	798	783	26.1	31.5	246	429	16.7	2.89	.84	.82	9.7	8.5 D
1837	2203	2204.0	23.1	583	701	102	12.6	2870	2184.9	9.5	9.6	799	784	26.1	31.5	248	430	16.8	2.89	.88	.85	9.7	8.5 D
1838	2205	2205.0	25.6	625	717	94	14.8	2890	2185.8	9.5	9.6	796	776	26.1	31.5	248	431	16.8	2.89	.87	.85	9.7	8.5 D
1839	2215	2206.0	23.4	582	685	102	14.0	2960	2187.7	9.5	9.6	798	790	26.1	31.6	248	432	16.8	2.89	.90	.87	9.7	8.5 D↑
1840	2218	2207.0	21.6	598	745	101	5.47	2950	2188.5	9.5	9.6	807	786	26.1	31.6	250	433	16.9	2.89	.75	.72	9.7	8.5 D
1841	2221	2208.0	23.7	606	699	97	8.01	2950	2189.4	9.5	9.6	808	793	26.1	31.6	250	434	16.9	2.89	.78	.76	9.7	8.5 D
1842	2223	2209.0	20.4	566	693	106	10.4	2930	2190.4	9.5	9.6	806	798	26.1	31.6	251	435	17.0	2.89	.87	.84	9.7	8.5 D
1843	2226	2210.0	21.6	573	728	107	12.6	2960	2191.4	9.5	9.6	809	788	26.1	31.6	252	436	17.0	2.89	.90	.87	9.7	8.5 D
1844	2229	2211.0	22.4	587	732	105	12.8	2950	2192.2	9.5	9.6	808	813	26.1	31.6	246	437	17.1	2.90	.89	.86	9.7	8.5 D
1845	2232	2212.0	18.9	521	685	109	13.0	2960	2193.3	9.5	9.6	810	812	26.1	31.6	247	438	17.1	2.90	.94	.91	9.7	8.5 D
1846	2235	2213.0	18.6	561	754	101	13.1	2950	2194.6	9.5	9.6	807	810	26.0	31.6	248	439	17.2	2.90	.93	.90	9.7	8.5 D
1847	2238	2214.0	22.7	604	742	100	11.6	2960	2195.4	9.5	9.6	806	786	25.9	31.6	249	440	17.2	2.90	.86	.83	9.7	8.5 D
1848	2240	2215.0	27.3	660	771	83	13.5	2950	2196.0	9.5	9.6	807	799	25.9	31.6	248	441	17.3	2.90	.82	.79	9.7	8.5 D
1849	2250	2216.0	24.5	573	770	102	9.11	2890	2197.4	9.5	9.6	798	802	25.9	31.6	250	442	17.3	2.90	.81	.78	9.7	8.5 D↑
1850	2254	2217.0	19.9	665	781	83	4.62	2880	2198.2	9.5	9.6	797	800	25.9	31.7	251	443	17.4	2.90	.71	.69	9.7	8.5 D
1851	2257	2218.0	20.6	575	783	106	6.28	2880	2199.1	9.5	9.6	798	783	25.9	31.7	251	444	17.4	2.90	.78	.76	9.7	8.5 D
1852	2259	2219.0	22.5	578	721	106	9.03	2880	2200.2	9.5	9.6	798	784	26.0	31.7	251	445	17.5	2.91	.83	.80	9.7	8.5 D
1853	2302	2220.0	22.0	648	746	95	12.1	2880	2201.1	9.5	9.6	800	781	26.0	31.7	251	446	17.5	2.91	.86	.84	9.7	8.5 D
1854	2305	2221.0	19.0	533	669	110	13.2	2870	2202.0	9.5	9.6	798	778	26.1	31.7	250	447	17.6	2.91	.94	.91	9.7	8.5 D
1855	2309	2222.0	17.5	512	669	113	13.5	2880	2203.2	9.5	9.6	797	776	26.1	31.7	251	448	17.6	2.91	.97	.94	9.7	8.5 D
1856	2311	2223.0	21.4	569	722	106	11.8	2880	2204.3	9.5	9.6	798	803	26.1	31.7	252	449	17.7	2.91	.89	.86	9.7	8.5 D
1857	2314	2224.0	22.8	621	767	95	13.5	2870	2205.3	9.5	9.6	799	785	26.2	31.7	253	450	17.7	2.91	.88	.85	9.7	8.5 D
1858	2324	2225.0	15.7	531	698	109	13.4	2920	2207.0	9.5	9.6	790	802	26.2	31.8	252	451	17.8	2.91	.98	.95	9.7	8.5 D↑
1859	2327	2226.0	23.4	593	720	110	4.73	2920	2207.5	9.5	9.6	801	805	26.2	31.8	253	452	17.8	2.91	.73	.70	9.7	8.5 D
1860	2330	2227.0	16.0	569	742	122	7.25	2920	2208.8	9.5	9.6	800	780	26.2	31.8	254	453	17.9	2.92	.88	.85	9.7	8.5 D
1861	2333	2228.0	23.1	576	653	110	9.45	2920	2209.7	9.5	9.6	803	809	26.2	31.8	254	454	17.9	2.92	.84	.81	9.7	8.5 D
1862	2336	2229.0	19.4	497	669	121	11.4	2920	2210.8	9.5	9.6	803	789	26.3	31.8	254	455	18.0	2.92	.93	.89	9.7	8.5 D
1863	2339	2230.0	16.9	482	633	124	14.2	2900	2211.9	9.5	9.6	801	804	26.3	31.8	252	456	18.0	2.92	1.01	.97	9.7	8.5 D
1864	2343	2231.0	14.3	412	580	127	11.4	2890	2213.3	9.5	9.6	803	782	26.2	31.8	251	457	18.1	2.92	1.00	.96	9.7	8.5 D
1865	2346	2232.0	20.7	509	608	120	13.6	2900	2214.2	9.5	9.6	803	781	26.2	31.8	253	458	18.1	2.93	.95	.92	9.7	8.5 D
1866	2349	2233.0	19.7	519	640	117	14.4	2900	2215.3	9.5	9.6	800	780	26.2	31.8	251	459	18.2	2.93	.97	.93	9.7	8.5 D
1867	2353	2234.0	17.8	516	648	120	13.1	2900	2216.5	9.5	9.6	804	789	26.2	31.9	252	460	18.2	2.93	.97	.94	9.7	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 10:54 Date Apr 12 '90
Data Recorded at time 23:56 Date Apr 8 '90

TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	hr	EST TW	DXC	NXB	ECD	NXMD
0858	2273.1	8.40	287	731	89	5.08	2860	2272.8	9.5	9.6	769	749	22.5	30.7	253	499	20.3	3.01	1.21	1.19	9.6	8.5|D†
0905	2274.0	11.7	476	717	125	11.5	2870	2272.8	9.5	9.6	778	758	19.7	30.7	252	500	20.4	3.01	1.04	1.01	9.6	8.5|D†
0912	2275.0	8.74	355	496	149	13.0	2880	2272.8	9.5	9.6	783	761	17.3	30.6	252	501	20.6	3.02	1.17	1.13	9.6	8.5|D
0920	2276.0	7.33	357	441	135	13.2	2880	2272.8	9.5	9.6	786	765	16.1	30.5	254	502	20.7	3.02	1.18	1.15	9.6	8.5|D
0929	2277.0	12.6	411	598	122	7.25	2880	2272.8	9.5	9.6	789	792	17.5	30.4	253	503	20.8	3.02	.93	.89	9.6	8.5|D
0933	2278.0	15.8	460	635	128	7.31	2860	2272.8	9.5	9.6	790	769	17.9	30.4	253	504	20.8	3.03	.90	.86	9.6	8.5|D
0936	2279.0	17.8	461	644	128	10.6	2870	2272.8	9.5	9.6	794	773	18.7	30.4	250	505	20.9	3.03	.94	.91	9.6	8.5|D
0941	2280.0	13.3	404	578	131	10.3	2870	2272.8	9.5	9.6	793	798	19.4	30.3	248	506	21.0	3.03	1.00	.96	9.6	8.5|D
0945	2281.0	15.9	417	604	131	7.41	2860	2272.8	9.5	9.6	794	775	19.6	30.3	250	507	21.0	3.03	.90	.87	9.6	8.5|D

† Circulate Hi Vis pill. 20 stand wiper trip.

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 11:00 Date Apr 12 '90
Data Recorded at time 09:49 Date Apr 9 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
1917	0949	2282.0	12.8	386	621	129	8.45	2870	2272.8	9.5	9.6	796	800	19.9	30.3	245	508	21.1	3.04	.96	.93	9.6	8.5 D
1918	1004	2283.0	14.3	427	621	152	6.06	2870	2272.8	9.5	9.6	791	770	20.7	30.3	238	509	21.2	3.04	.91	.87	9.6	8.5 D
1919	1008	2284.0	16.5	503	641	152	9.48	2860	2273.1	9.5	9.6	791	770	20.8	30.3	238	510	21.2	3.04	.97	.93	9.6	8.5 D
1920	1013	2285.0	11.4	402	556	156	9.76	2880	2273.9	9.5	9.6	793	771	21.1	30.3	239	511	21.3	3.05	1.05	1.01	9.6	8.5 D
1921	1017	2286.0	14.8	427	586	163	12.3	2900	2274.3	9.5	9.6	791	797	21.2	30.3	241	512	21.4	3.05	1.06	1.02	9.6	8.5 D
1922	1022	2287.0	12.9	402	597	154	12.4	2880	2275.0	9.5	9.6	791	777	21.4	30.3	243	513	21.5	3.06	1.08	1.04	9.6	8.5 D
1923	1027	2288.0	10.8	325	557	130	12.8	2920	2275.7	9.5	9.6	790	776	21.7	30.3	244	514	21.6	3.06	1.09	1.05	9.6	8.5 D
1924	1031	2289.0	16.0	417	598	127	15.3	2910	2276.3	9.5	9.6	794	797	21.8	30.3	246	515	21.6	3.06	1.04	1.01	9.6	8.5 D
1925	1038	2290.0	11.2	394	535	125	15.6	2930	2277.0	9.5	9.6	795	800	22.0	30.3	249	516	21.7	3.07	1.12	1.08	9.6	8.5 D
1926	1042	2291.0	16.3	495	760	126	16.0	2930	2277.9	9.5	9.6	793	799	22.0	30.3	249	517	21.8	3.07	1.05	1.01	9.6	8.5 D
1927	1056	2292.0	14.0	442	673	123	15.1	2970	2280.4	9.6	9.6	801	808	22.1	30.4	257	518	21.9	3.07	1.06	1.02	9.6	8.5 D†
1928	1100	2293.0	16.2	465	680	122	12.3	2950	2281.3	9.6	9.6	801	805	22.2	30.4	254	519	21.9	3.08	.98	.95	9.6	8.5 D
1929	1105	2294.0	13.1	370	535	129	11.3	2960	2282.1	9.6	9.6	803	790	22.3	30.4	256	520	22.0	3.08	1.02	.98	9.7	8.5 D
1930	1108	2295.0	15.6	415	628	123	13.1	2930	2282.1	9.6	9.6	804	809	22.4	30.4	259	521	22.1	3.08	1.00	.97	9.7	8.5 D
1931	1114	2296.0	11.2	378	670	125	11.2	2950	2282.9	9.6	9.6	806	787	22.5	30.4	258	522	22.2	3.08	1.04	1.00	9.7	8.5 D
1932	1117	2297.0	16.8	503	747	121	11.7	2940	2283.9	9.6	9.6	805	796	22.5	30.4	261	523	22.2	3.09	.96	.92	9.7	8.5 D
1933	1121	2298.0	15.1	454	597	126	14.6	2940	2284.6	9.6	9.6	807	809	22.4	30.5	260	524	22.3	3.09	1.04	1.00	9.7	8.5 D
1934	1124	2299.0	21.7	532	733	121	7.68	2950	2285.3	9.6	9.6	807	813	22.4	30.5	262	525	22.3	3.09	.83	.80	9.7	8.5 D
1935	1127	2300.0	18.0	481	663	125	7.14	2950	2286.1	9.6	9.6	806	797	22.5	30.5	263	526	22.4	3.09	.86	.82	9.7	8.5 D
1936	1131	2301.0	16.5	449	639	135	9.23	2950	2286.9	9.6	9.6	806	792	22.5	30.5	259	527	22.5	3.09	.93	.90	9.7	8.5 D
1937	1142	2302.0	26.6	579	854	108	12.0	2920	2288.3	9.6	9.6	795	775	22.7	30.5	265	528	22.5	3.10	.85	.81	9.7	8.5 D†
1938	1144	2303.0	30.9	674	827	100	10.8	2930	2288.8	9.6	9.6	799	785	22.8	30.5	264	529	22.6	3.10	.79	.75	9.7	8.5 D
1939	1146	2304.0	26.4	592	729	111	12.0	2900	2289.3	9.6	9.6	801	781	22.9	30.5	266	530	22.6	3.10	.85	.82	9.7	8.5 D
1940	1149	2305.0	19.6	487	662	115	14.6	2910	2289.8	9.6	9.6	799	785	23.0	30.6	266	531	22.6	3.10	.96	.92	9.7	8.5 D
1941	1152	2306.0	21.0	521	683	114	14.7	2920	2290.0	9.6	9.6	799	786	23.0	30.6	268	532	22.7	3.10	.95	.91	9.7	8.5 D
1942	1154	2307.0	33.0	643	803	99	16.3	2930	2290.4	9.6	9.6	797	799	23.0	30.6	268	533	22.7	3.10	.85	.81	9.7	8.5 D
1943	1156	2308.0	21.5	513	680	115	15.5	2910	2291.3	9.6	9.6	800	781	23.1	30.6	270	534	22.8	3.10	.95	.92	9.8	8.5 D
1944	1159	2309.0	25.7	608	817	109	17.1	2930	2291.8	9.6	9.6	797	783	23.1	30.6	271	535	22.8	3.11	.93	.89	9.8	8.5 D
1945	1201	2310.0	28.5	585	729	110	16.1	2920	2291.9	9.6	9.6	798	801	23.1	30.6	272	536	22.8	3.11	.89	.86	9.8	8.5 D
1946	1203	2311.0	28.5	605	760	110	17.4	2940	2291.9	9.6	9.6	796	786	23.1	30.6	273	537	22.9	3.11	.91	.87	9.8	8.5 D
1947	1212	2312.0	24.7	582	774	119	12.1	2960	2293.1	9.6	9.6	799	785	23.2	30.6	275	538	22.9	3.11	.88	.84	9.8	8.5 D†
1948	1214	2313.0	27.9	617	771	132	6.15	2940	2293.5	9.6	9.6	799	778	23.2	30.6	272	539	23.0	3.11	.76	.73	9.8	8.5 D
1949	1217	2314.0	25.7	649	869	125	9.22	2950	2294.0	9.6	9.6	798	777	23.3	30.6	272	540	23.0	3.11	.83	.79	9.8	8.5 D
1950	1219	2315.0	26.2	621	859	129	10.2	2960	2294.6	9.6	9.6	800	803	23.3	30.6	273	541	23.0	3.11	.85	.81	9.8	8.5 D
1951	1221	2316.0	28.0	672	810	117	11.5	2930	2295.1	9.6	9.6	797	784	23.4	30.6	273	542	23.1	3.11	.84	.80	9.8	8.5 D
1952	1223	2317.0	28.1	621	770	106	13.7	2950	2295.4	9.6	9.6	798	777	23.4	30.6	274	543	23.1	3.11	.85	.82	9.8	8.5 D
1953	1225	2318.0	28.8	656	812	103	15.7	2950	2295.8	9.6	9.6	799	784	23.5	30.6	275	544	23.1	3.12	.87	.83	9.8	8.5 D
1954	1227	2319.0	25.4	603	789	112	16.9	2940	2296.6	9.6	9.6	799	785	23.5	30.6	275	545	23.2	3.12	.93	.89	9.8	8.5 D
1955	1230	2320.0	23.2	578	743	111	17.5	2940	2297.2	9.6	9.6	798	802	23.6	30.6	276	546	23.2	3.12	.96	.92	9.8	8.5 D
1956	1243	2321.0	22.1	539	710	115	17.6	2930	2299.3	9.6	9.6	794	787	23.6	30.7	279	547	23.3	3.12	.98	.94	9.8	8.5 D†
1957	1245	2322.0	26.4	578	791	136	5.69	2930	2300.2	9.6	9.6	795	774	23.6	30.7	278	548	23.3	3.12	.76	.73	9.8	8.5 D†
1958	1249	2323.0	16.9	582	786	135	7.05	2920	2301.1	9.6	9.6	795	775	23.7	30.7	280	549	23.4	3.12	.87	.84	9.8	8.5 D
1959	1251	2324.0	29.6	646	797	129	10.1	2930	2301.8	9.6	9.6	794	773	23.7	30.7	280	550	23.4	3.13	.82	.79	9.8	8.5 D
1960	1253	2325.0	23.4	595	790	137	11.5	2910	2301.8	9.6	9.6	796	782	23.7	30.7	281	551	23.4	3.13	.90	.87	9.8	8.5 D
1961	1256	2326.0	22.7	561	733	129	13.1	2920	2302.2	9.6	9.6	795	773	23.7	30.7	282	552	23.5	3.13	.93	.89	9.8	8.5 D
1962	1259	2327.0	20.8	520	707	116	15.4	2910	2303.6	9.6	9.6	796	801	23.7	30.7	283	553	23.5	3.13	.96	.92	9.8	8.5 D
1963	1302	2328.0	22.1	555	728	115	14.9	2890	2304.5	9.6	9.6	796	802	23.7	30.7	283	554	23.6	3.13	.94	.90	9.8	8.5 D
1964	1304	2329.0	24.0	564	745	115	15.9	2900	2305.4	9.6	9.6	797	802	23.7	30.7	284	555	23.6	3.13	.93	.89	9.8	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 11:07 Date Apr 12 '90
Data Recorded at time 13:07 Date Apr 9 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT- m	THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
965	1307	2330.0	22.3	521	708	116	16.0	2900	2306.6	9.6	9.6	796	782	23.7	30.7	284	556	23.7	3.13	.95	.91	9.8	8.5|D
966	1319	2331.0	30.7	515	722	114	9.77	2950	2310.1	9.6	9.6	800	779	23.8	30.8	284	557	23.7	3.14	.79	.76	9.8	8.5|D†
967	1321	2332.0	27.9	623	726	113	3.26	2930	2310.9	9.6	9.6	801	780	23.8	30.8	284	558	23.7	3.14	.65	.62	9.8	8.5|D
968	1324	2333.0	25.0	619	758	109	6.53	2940	2311.5	9.6	9.6	800	804	23.8	30.8	284	559	23.8	3.14	.75	.72	9.8	8.5|D
969	1327	2334.0	16.4	512	692	118	10.7	2930	2312.0	9.6	9.6	803	790	23.8	30.8	286	560	23.8	3.14	.93	.90	9.8	8.5|D
970	1330	2335.0	26.8	615	792	110	14.8	2960	2312.8	9.6	9.6	799	779	23.8	30.8	284	561	23.9	3.14	.88	.85	9.8	8.5|D
971	1332	2336.0	23.2	531	739	114	15.5	2940	2313.9	9.6	9.6	801	787	23.8	30.8	285	562	23.9	3.14	.93	.90	9.8	8.5|D
972	1335	2337.0	18.6	484	661	116	16.2	2930	2315.4	9.6	9.6	802	781	23.8	30.8	287	563	24.0	3.14	.99	.95	9.8	8.5|D
973	1337	2338.0	28.1	577	742	112	17.6	2930	2316.3	9.6	9.6	802	780	23.8	30.8	287	564	24.0	3.15	.92	.88	9.8	8.5|D
974	1341	2339.0	17.6	446	633	118	17.8	2940	2317.9	9.6	9.6	803	783	23.8	30.8	285	565	24.1	3.15	1.03	.99	9.8	8.5|D
975	1343	2340.0	24.0	596	765	111	16.2	2950	2319.0	9.6	9.6	800	802	23.7	30.8	284	566	24.1	3.15	.93	.89	9.8	8.5|D
976	1355	2341.0	22.3	558	799	131	14.5	2910	2321.1	9.6	9.6	796	782	23.6	30.8	284	567	24.2	3.15	.96	.92	9.8	8.5|D
977	1357	2342.0	22.8	532	728	143	18.6	2930	2321.4	9.6	9.6	796	776	23.5	30.8	285	568	24.2	3.15	1.03	.98	9.8	8.5|D
978	1400	2343.0	21.4	570	806	140	18.0	2900	2322.1	9.6	9.6	796	777	23.5	30.8	285	569	24.3	3.16	1.03	.99	9.8	8.5|D
979	1404	2344.0	15.8	529	731	144	17.3	2920	2323.3	9.6	9.6	798	801	23.4	30.8	286	570	24.3	3.16	1.09	1.05	9.8	8.5|D
980	1406	2345.0	29.8	709	880	110	17.1	2930	2324.2	9.6	9.6	796	782	23.4	30.8	287	571	24.4	3.16	.90	.86	9.8	8.5|D
981	1409	2346.0	23.0	625	829	109	17.0	2930	2325.2	9.6	9.6	797	782	23.4	30.8	286	572	24.4	3.16	.95	.91	9.8	8.5|D
982	1411	2347.0	22.0	558	738	114	18.5	2920	2326.2	9.6	9.6	798	784	23.4	30.8	286	573	24.5	3.16	.99	.95	9.8	8.5|D
983	1414	2348.0	19.6	549	790	114	18.5	2910	2327.3	9.6	9.6	800	780	23.3	30.8	287	574	24.5	3.17	1.01	.97	9.8	8.5|D
984	1417	2349.0	20.1	528	726	115	18.0	2910	2328.4	9.6	9.6	796	776	23.3	30.8	286	575	24.6	3.17	1.00	.96	9.8	8.5|D
985	1438	2350.0	20.5	530	732	124	13.5	2940	2332.5	9.6	9.6	797	778	23.5	30.9	285	576	24.7	3.17	.95	.91	9.8	8.5|D†
[illegible]	1440	2351.0	22.0	563	718	141	8.69	2930	2333.6	9.6	9.6	801	780	23.5	30.9	286	577	24.8	3.18	.87	.83	9.8	8.5|D
987	1444	2352.0	16.7	490	695	147	13.8	2930	2334.7	9.6	9.6	800	786	23.6	30.9	286	578	24.9	3.18	1.03	.99	9.8	8.5|D
988	1446	2353.0	31.6	717	866	115	16.9	2940	2335.5	9.6	9.6	801	782	23.6	30.9	284	579	24.9	3.18	.89	.85	9.8	8.5|D
989	1448	2354.0	30.1	677	820	118	17.5	2930	2336.3	9.6	9.6	800	779	23.6	30.9	284	580	24.9	3.18	.91	.87	9.8	8.5|D
990	1450	2355.0	29.4	602	746	134	17.9	2910	2336.9	9.6	9.6	799	790	23.6	30.9	284	581	24.9	3.18	.95	.91	9.8	8.5|D
991	1452	2356.0	23.4	574	799	136	13.7	2940	2337.8	9.6	9.6	800	791	23.6	30.9	284	582	25.0	3.19	.94	.90	9.8	8.5|D
992	1454	2357.0	29.5	651	791	127	15.8	2910	2338.5	9.6	9.6	801	781	23.6	30.9	284	583	25.0	3.19	.91	.87	9.8	8.5|D
993	1457	2358.0	25.9	642	899	115	12.1	2930	2339.4	9.6	9.6	798	785	23.6	30.9	286	584	25.1	3.19	.86	.83	9.8	8.5|D†
994	1459	2359.0	33.1	727	860	114	12.1	2930	2340.2	9.6	9.6	799	803	23.6	30.9	287	585	25.1	3.19	.81	.78	9.8	8.5|D
3	1520	2360.0	28.5	573	802	112	7.10	2910	2344.6	9.6	9.6	800	778	23.6	31.0	285	586	25.1	3.19	.75	.72	9.8	8.5|D†
4	1523	2361.0	25.9	537	692	112	7.08	2920	2345.2	9.6	9.6	799	786	23.7	31.0	285	587	25.2	3.19	.77	.73	9.8	8.5|D
5	1525	2362.0	24.8	526	685	116	8.92	2930	2346.1	9.6	9.6	799	785	23.7	31.0	285	588	25.2	3.19	.82	.78	9.8	8.5|D
6	1528	2363.0	22.2	480	641	120	11.6	2930	2347.2	9.6	9.6	799	785	23.7	31.0	285	589	25.3	3.19	.89	.86	9.8	8.5|D
7	1530	2364.0	21.4	496	649	116	12.7	2920	2348.2	9.6	9.6	799	779	23.7	31.0	286	590	25.3	3.20	.91	.88	9.8	8.5|D
8	1533	2365.0	24.2	509	626	116	13.0	2900	2349.0	9.6	9.6	801	787	23.7	31.0	286	591	25.3	3.20	.89	.86	9.8	8.5|D
9	1535	2366.0	24.4	524	669	113	12.9	2940	2349.8	9.6	9.6	800	805	23.6	31.0	288	592	25.4	3.20	.88	.85	9.8	8.5|D
10	1538	2367.0	19.4	522	671	116	11.8	2920	2350.8	9.6	9.6	801	780	23.6	31.0	287	593	25.4	3.20	.92	.88	9.8	8.5|D
11	1541	2368.0	21.1	474	616	117	8.86	2930	2351.4	9.6	9.6	797	802	23.5	31.0	288	594	25.5	3.20	.85	.81	9.8	8.5|D
12	1554	2369.0	24.2	488	719	124	9.23	2950	2351.5	9.6	9.6	797	789	23.3	31.0	290	595	25.5	3.20	.84	.80	9.8	8.5|D
13	1556	2370.0	25.9	570	733	140	4.89	2950	2351.6	9.6	9.6	799	804	23.3	31.0	291	596	25.6	3.20	.75	.71	9.8	8.5|D
14	1558	2371.0	29.1	604	795	131	7.93	2950	2352.1	9.6	9.6	798	789	23.3	31.0	292	597	25.6	3.20	.79	.75	9.8	8.5|D
15	1600	2372.0	26.7	569	745	139	9.41	2930	2352.8	9.6	9.6	800	781	23.4	31.0	292	598	25.6	3.21	.85	.81	9.8	8.5|D
16	1602	2373.0	30.5	652	825	129	12.3	2950	2353.3	9.6	9.6	799	785	23.4	31.0	293	599	25.7	3.21	.86	.82	9.8	8.5|D
17	1604	2374.0	29.7	602	804	139	12.7	2940	2354.1	9.6	9.6	798	800	23.4	31.0	294	600	25.7	3.21	.88	.84	9.8	8.5|D
18	1607	2375.0	25.2	516	672	146	11.4	2910	2355.2	9.6	9.6	798	778	23.5	31.0	294	601	25.7	3.21	.90	.86	9.8	8.5|D
19	1609	2376.0	32.4	594	861	124	12.1	2940	2356.1	9.6	9.6	797	776	23.5	31.0	294	602	25.8	3.21	.83	.79	9.8	8.5|D
20	1611	2377.0	26.3	550	769	121	12.0	2920	2357.1	9.6	9.6	798	788	23.5	31.0	295	603	25.8	3.21	.87	.83	9.8	8.5|D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 12:24 Date Apr 12 '90
Data Recorded at time 16:13 Date Apr 9 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
21	1613	2378.0	24.4	504	675	116	10.3	2920	2358.2	9.6	9.6	798	790	23.5	31.0	297	604	25.8	3.21	.84	.81	9.8	8.5 D
22	1624	2379.0	19.1	516	721	103	8.55	2880	2361.0	9.6	9.6	792	772	23.5	31.0	242	605	25.9	3.22	.84	.80	9.8	8.5 D↑
23	1628	2380.0	16.5	454	558	111	6.67	2900	2361.0	9.6	9.6	792	795	23.4	31.0	244	606	25.9	3.22	.83	.80	9.8	8.5 D↑
24	1633	2381.0	14.2	461	552	103	7.96	2930	2361.0	9.6	9.6	798	777	23.3	31.0	245	607	26.0	3.22	.88	.84	9.8	8.5 D↑
25	1636	2382.0	23.0	535	723	114	8.63	2940	2361.8	9.6	9.6	801	804	23.3	31.0	245	608	26.1	3.22	.82	.79	9.8	8.5 D
26	1638	2383.0	27.3	622	818	106	12.2	2930	2362.7	9.6	9.6	799	791	23.3	31.0	245	609	26.1	3.22	.84	.80	9.8	8.5 D
27	1641	2384.0	21.5	539	702	115	14.9	2940	2363.9	9.6	9.6	801	806	23.4	30.9	245	610	26.1	3.22	.94	.90	9.8	8.5 D
28	1643	2385.0	26.5	601	771	112	17.4	2940	2364.8	9.6	9.6	800	803	23.4	30.9	246	611	26.2	3.22	.93	.89	9.8	8.5 D
29	1645	2386.0	25.5	588	716	116	16.9	2920	2365.5	9.6	9.6	800	786	23.4	30.9	247	612	26.2	3.23	.94	.90	9.8	8.5 D
30	1648	2387.0	23.0	539	701	117	17.5	2930	2366.6	9.6	9.6	800	803	23.4	30.9	246	613	26.3	3.23	.97	.93	9.8	8.5 D
31	1650	2388.0	23.7	591	837	110	16.0	2950	2367.6	9.6	9.6	800	786	23.5	30.9	247	614	26.3	3.23	.93	.89	9.8	8.5 D
32	1705	2389.0	20.6	541	736	108	10.1	2860	2370.7	9.6	9.6	790	777	23.5	30.9	251	615	26.4	3.23	.86	.83	9.8	8.5 D↑
33	1707	2390.0	29.4	631	775	106	12.0	2890	2370.7	9.6	9.6	791	796	23.5	30.9	251	616	26.4	3.23	.82	.78	9.8	8.5 D
34	1709	2391.0	28.2	629	834	106	14.7	2880	2370.7	9.6	9.6	790	769	23.4	30.9	252	617	26.4	3.23	.87	.83	9.8	8.5 D
35	1711	2392.0	26.4	628	839	102	15.9	2880	2371.3	9.6	9.6	791	770	23.4	30.9	252	618	26.5	3.23	.89	.85	9.8	8.5 D
36	1713	2393.0	26.6	665	836	103	16.7	2870	2372.3	9.6	9.6	788	773	23.5	30.9	253	619	26.5	3.23	.90	.86	9.8	8.5 D
37	1716	2394.0	28.4	616	747	104	16.4	2880	2373.3	9.6	9.6	789	792	23.5	30.9	252	620	26.6	3.23	.88	.85	9.8	8.5 D
38	1718	2395.0	30.1	697	828	97	15.2	2880	2374.2	9.6	9.6	789	776	23.5	30.9	253	621	26.6	3.24	.84	.81	9.8	8.5 D
39	1720	2396.0	28.3	674	822	97	15.9	2880	2375.3	9.6	9.6	789	769	23.5	30.9	254	622	26.6	3.24	.86	.83	9.8	8.5 D
40	1722	2397.0	29.0	647	810	98	16.7	2870	2376.3	9.6	9.6	788	791	23.5	30.9	255	623	26.7	3.24	.87	.83	9.8	8.5 D
41	1734	2398.0	25.8	595	829	105	14.1	3000	2380.4	9.6	9.6	802	807	23.4	31.0	256	624	26.7	3.24	.88	.84	9.8	8.5 D↑
42	1739	2399.0	17.6	478	671	137	10.0	2940	2381.3	9.6	9.6	802	805	23.3	31.0	258	625	26.8	3.24	.93	.89	9.8	8.5 D
43	1742	2400.0	19.0	508	639	139	13.4	2900	2381.8	9.6	9.6	795	797	23.3	30.9	258	626	26.8	3.24	.98	.94	9.8	8.5 D
44	1746	2401.0	17.5	468	603	146	14.7	2910	2382.7	9.6	9.6	795	781	23.3	30.9	259	627	26.9	3.25	1.03	.99	9.8	8.5 D
45	1748	2402.0	21.8	569	687	135	14.2	2880	2383.3	9.6	9.6	790	775	23.4	30.9	261	628	26.9	3.25	.96	.92	9.8	8.5 D
46	1751	2403.0	19.4	555	737	129	14.6	2900	2384.2	9.6	9.6	790	795	23.4	30.9	261	629	27.0	3.25	.98	.94	9.8	8.5 D
47	1754	2404.0	21.0	632	747	107	14.4	2900	2385.3	9.6	9.6	789	795	23.5	30.9	263	630	27.0	3.25	.93	.89	9.8	8.5 D
48	1758	2405.0	20.5	625	766	95	16.0	2900	2386.7	9.6	9.6	791	794	23.5	30.9	263	631	27.1	3.25	.93	.89	9.8	8.5 D
49	1801	2406.1	26.6	670	766	74	17.8	2910	2387.9	9.6	9.6	790	770	23.5	30.9	265	632	27.1	3.25	.85	.81	9.8	8.5 D↑
50	1814	2407.0	18.7	646	750	87	13.6	2710	2390.6	9.6	9.6	754	762	23.6	31.0	266	633	27.2	3.25	.90	.86	9.8	8.5 D↑
51	1816	2408.0	24.7	586	683	98	8.46	2720	2390.8	9.6	9.6	762	741	23.6	31.0	268	634	27.2	3.26	.78	.75	9.8	8.5 D
52	1819	2409.0	21.9	600	700	85	11.1	2710	2390.9	9.6	9.6	764	743	23.6	31.0	269	635	27.2	3.26	.82	.79	9.8	8.5 D
53	1821	2410.0	26.2	574	699	96	13.4	2730	2391.5	9.6	9.6	765	756	23.6	31.0	270	636	27.3	3.26	.85	.81	9.8	8.5 D
54	1824	2411.0	23.1	638	770	82	15.4	2720	2392.8	9.6	9.6	765	770	23.6	31.0	271	637	27.3	3.26	.87	.83	9.8	8.5 D
55	1826	2412.0	25.8	654	759	80	16.6	2720	2393.9	9.6	9.6	763	749	23.7	31.0	271	638	27.4	3.26	.85	.82	9.8	8.5 D
56	1830	2413.0	18.8	584	769	96	15.1	2690	2395.5	9.6	9.6	763	744	23.7	30.9	273	639	27.4	3.26	.94	.90	9.8	8.5 D
57	1834	2414.0	20.7	613	768	87	16.9	2700	2397.1	9.6	9.6	764	767	23.7	30.9	273	640	27.5	3.26	.92	.89	9.8	8.5 D
58	1837	2415.0	21.5	626	732	88	16.7	2700	2398.4	9.6	9.6	762	767	23.7	30.9	275	641	27.5	3.26	.91	.88	9.8	8.5 D
59	1839	2416.0	23.5	635	748	88	16.9	2710	2399.6	9.6	9.6	760	739	23.7	30.9	274	642	27.6	3.26	.90	.86	9.8	8.5 D
60	1851	2417.0	19.0	625	741	85	17.2	2880	2400.4	9.6	9.6	783	773	23.6	30.9	276	643	27.6	3.26	.94	.90	9.8	8.5 D↑
61	1854	2418.0	23.1	653	754	95	7.93	2880	2400.6	9.6	9.6	789	768	23.6	30.9	276	644	27.7	3.26	.77	.74	9.8	8.5 D
62	1857	2419.0	24.1	581	724	120	10.8	2890	2401.2	9.6	9.6	791	770	23.6	30.9	277	645	27.7	3.27	.86	.82	9.8	8.5 D
63	1859	2420.0	21.8	611	757	111	12.8	2870	2402.2	9.6	9.6	790	776	23.6	30.9	277	646	27.7	3.27	.90	.86	9.8	8.5 D
64	1902	2421.0	23.1	590	757	116	14.1	2880	2403.2	9.6	9.6	788	793	23.6	30.9	278	647	27.8	3.27	.92	.88	9.8	8.5 D↑
65	1906	2422.0	21.1	598	767	109	12.5	2870	2404.3	9.6	9.6	788	768	23.7	30.9	273	648	27.8	3.27	.90	.86	9.8	8.5 D
66	1909	2423.0	22.3	549	653	134	13.4	2880	2405.3	9.6	9.6	790	794	23.7	30.9	232	649	27.9	3.27	.94	.90	9.8	8.5 D
67	1912	2424.0	18.5	570	765	117	15.2	2890	2406.5	9.6	9.6	792	783	23.7	31.0	233	650	27.9	3.27	.98	.94	9.8	8.5 D
68	1915	2425.0	21.7	640	734	101	16.2	2880	2407.2	9.6	9.6	788	780	23.6	31.0	233	651	28.0	3.27	.93	.90	9.8	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 12:27 Date Apr 12 '90
Data Recorded at time 19:18 Date Apr 9 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
69	1918	2426.0	20.5	611	729	92	16.1	2870	2408.3	9.6	9.6	789	775	23.6	31.0	234	652	28.0	3.28	.93	.89	9.8	8.5 D
70	1927	2427.0	26.7	628	737	98	12.0	2900	2409.8	9.6	9.6	787	773	23.6	31.0	233	653	28.1	3.28	.82	.79	9.8	8.5 D†
71	1931	2428.0	18.4	594	764	102	10.6	2880	2410.3	9.6	9.6	787	766	23.6	31.0	235	654	28.1	3.28	.88	.85	9.8	8.5 D
72	1934	2429.0	21.4	557	663	125	11.5	2870	2411.4	9.6	9.6	791	797	23.5	31.0	235	655	28.2	3.28	.91	.87	9.8	8.5 D
73	1937	2430.0	19.4	476	628	138	10.5	2890	2412.6	9.6	9.6	790	770	23.5	31.0	236	656	28.2	3.28	.93	.89	9.8	8.5 D
74	1940	2431.0	21.9	561	684	112	11.0	2880	2413.7	9.6	9.6	790	769	23.5	31.0	237	657	28.2	3.28	.87	.83	9.8	8.5 D
75	1942	2432.0	21.1	498	626	108	10.3	2850	2414.9	9.6	9.6	785	788	23.5	31.0	237	658	28.3	3.28	.86	.82	9.8	8.5 D
76	1946	2433.0	17.2	466	616	115	11.1	2880	2416.0	9.6	9.6	792	796	23.5	31.0	237	659	28.4	3.29	.93	.89	9.8	8.5 D
77	1949	2434.0	22.9	584	739	95	12.0	2900	2416.8	9.6	9.6	792	782	23.4	31.0	238	660	28.4	3.29	.85	.81	9.8	8.5 D
78	1952	2435.0	19.7	546	657	105	13.3	2890	2417.9	9.6	9.6	793	798	23.4	31.0	238	661	28.4	3.29	.92	.88	9.8	8.5 D
79	1955	2436.0	20.3	565	698	101	14.7	2900	2419.1	9.6	9.6	793	774	23.2	31.0	238	662	28.5	3.29	.93	.89	9.8	8.5 D
80	2008	2437.0	27.1	507	670	127	8.89	2850	2420.3	9.6	9.6	785	764	23.1	31.0	243	663	28.6	3.29	.82	.78	9.8	8.5 D†
81	2011	2438.0	20.6	525	656	134	5.73	2850	2421.5	9.6	9.6	787	765	23.0	31.0	235	664	28.6	3.29	.80	.77	9.8	8.5 D
82	2014	2439.0	22.5	536	650	129	8.99	2850	2422.6	9.6	9.6	785	788	23.0	31.0	236	665	28.6	3.29	.86	.82	9.8	8.5 D
83	2016	2440.0	21.9	551	706	127	12.0	2850	2423.6	9.6	9.6	786	766	23.0	31.0	235	666	28.7	3.30	.91	.87	9.8	8.5 D
84	2019	2441.0	23.7	603	732	116	15.3	2860	2424.3	9.6	9.6	785	770	23.0	31.0	236	667	28.7	3.30	.93	.89	9.8	8.5 D
85	2023	2442.0	15.0	497	766	108	15.0	2860	2425.8	9.6	9.6	784	763	22.9	31.0	238	668	28.8	3.30	1.01	.97	9.8	8.5 D
86	2026	2443.0	20.8	534	648	103	17.5	2860	2426.8	9.6	9.6	783	788	22.8	31.0	237	669	28.8	3.30	.97	.93	9.8	8.5 D
87	2030	2444.0	17.7	497	706	106	17.8	2850	2427.6	9.6	9.6	783	763	22.7	31.0	240	670	28.9	3.30	1.01	.97	9.8	8.5 D
88	2032	2445.0	21.6	601	727	93	19.2	2870	2428.6	9.6	9.6	785	787	22.7	31.0	239	671	28.9	3.30	.96	.92	9.8	8.5 D
89	2038	2446.0	17.7	646	766	85	19.2	2830	2429.9	9.6	9.6	782	762	22.7	31.0	239	672	29.0	3.30	.98	.94	9.8	8.5 D†
90	2055	2447.0	15.6	500	638	131	13.3	2870	2433.0	9.6	9.6	787	766	22.9	31.0	243	673	29.1	3.31	1.01	.97	9.7	8.5 D
91	2058	2448.0	23.3	575	684	116	16.4	2830	2434.0	9.6	9.6	786	778	23.0	31.0	245	674	29.2	3.31	.95	.91	9.7	8.5 D
92	2100	2449.0	23.6	570	674	102	18.6	2830	2434.8	9.6	9.6	783	788	23.0	31.0	245	675	29.2	3.31	.95	.91	9.7	8.5 D
93	2103	2450.0	24.5	581	682	98	19.9	2830	2435.6	9.6	9.6	781	767	23.0	31.0	245	676	29.3	3.31	.95	.91	9.7	8.5 D
94	2105	2451.0	20.4	547	659	103	19.3	2820	2436.5	9.6	9.6	783	763	23.0	31.0	246	677	29.3	3.31	.99	.95	9.7	8.5 D
95	2108	2452.0	22.4	533	663	106	19.0	2840	2437.5	9.6	9.6	783	769	23.0	31.0	247	678	29.4	3.31	.98	.93	9.7	8.5 D
96	2111	2453.0	21.7	521	642	109	18.9	2830	2438.4	9.6	9.6	783	769	23.0	31.0	247	679	29.4	3.32	.99	.95	9.7	8.5 D
97	2113	2454.0	24.9	562	677	103	18.2	2840	2439.0	9.6	9.6	781	787	22.9	31.0	246	680	29.4	3.32	.94	.90	9.7	8.5 D
98	2116	2455.0	24.7	572	685	99	18.0	2830	2439.4	9.6	9.6	780	759	22.9	31.1	246	681	29.5	3.32	.93	.89	9.8	8.5 D
99	2126	2456.0	23.4	555	703	105	14.7	2820	2439.9	9.6	9.6	779	784	22.9	31.1	247	682	29.5	3.32	.91	.87	9.8	8.5 D
100	2128	2457.0	28.4	570	697	124	11.9	2790	2440.6	9.6	9.6	779	769	22.9	31.1	248	683	29.6	3.32	.86	.82	9.8	8.5 D
101	2130	2458.0	24.5	560	685	116	13.9	2820	2441.6	9.6	9.6	778	780	22.8	31.1	249	684	29.6	3.32	.91	.86	9.8	8.5 D
102	2132	2459.0	25.6	579	725	97	16.7	2810	2442.4	9.6	9.6	778	756	22.8	31.1	250	685	29.7	3.32	.90	.86	9.8	8.5 D
103	2135	2460.0	25.9	611	721	95	19.7	2820	2443.2	9.6	9.6	779	765	22.8	31.1	252	686	29.7	3.32	.93	.89	9.8	8.5 D
104	2138	2461.0	19.7	540	740	97	20.6	2810	2444.3	9.6	9.6	778	764	22.8	31.1	250	687	29.7	3.32	1.01	.96	9.8	8.5 D†
105	2142	2462.0	22.5	610	740	79	19.5	2840	2445.1	9.6	9.6	779	766	22.8	31.1	251	688	29.8	3.33	.92	.88	9.8	8.5 D†
106	2144	2463.0	23.8	576	716	88	19.4	2840	2445.9	9.6	9.6	780	771	22.8	31.1	252	689	29.8	3.33	.93	.89	9.8	8.5 D
107	2147	2464.0	22.3	522	656	107	17.3	2840	2446.7	9.6	9.6	778	770	22.8	31.1	253	690	29.9	3.33	.96	.91	9.8	8.5 D
108	2149	2465.0	26.1	614	713	83	19.2	2810	2447.5	9.6	9.6	779	759	22.7	31.1	254	691	29.9	3.33	.89	.85	9.8	8.5 D
109	2205	2466.0	25.4	536	722	108	16.4	2830	2449.1	9.6	9.6	780	759	22.7	31.1	257	692	30.0	3.33	.92	.88	9.8	8.5 D
110	2209	2467.0	19.3	460	632	138	13.1	2850	2449.2	9.6	9.6	782	767	22.7	31.1	257	693	30.0	3.33	.98	.93	9.8	8.5 D
111	2211	2468.0	26.5	573	682	115	17.3	2840	2449.2	9.6	9.6	780	766	22.7	31.1	259	694	30.0	3.33	.93	.89	9.8	8.5 D
112	2213	2469.0	23.6	602	725	109	20.5	2830	2449.3	9.6	9.6	781	785	22.7	31.1	257	695	30.1	3.33	.99	.94	9.8	8.5 D
113	2216	2470.0	24.9	531	692	126	18.1	2860	2449.5	9.6	9.6	780	760	22.7	31.1	259	696	30.1	3.34	.98	.93	9.8	8.5 D
114	2218	2471.0	25.6	551	709	120	17.6	2840	2450.2	9.6	9.6	779	765	22.6	31.1	260	697	30.2	3.34	.95	.91	9.8	8.5 D
115	2224	2472.0	17.4	545	737	99	17.6	2830	2452.6	9.6	9.6	778	757	22.6	31.1	259	698	30.2	3.34	.99	.95	9.8	8.5 D†
116	2227	2473.0	23.0	512	660	115	17.8	2830	2453.6	9.6	9.6	781	771	22.5	31.1	261	699	30.3	3.34	.97	.93	9.8	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 12:29 Date Apr 12 '90
Data Recorded at time 22:29 Date Apr 9 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
117	2229	2474.0	29.9	584	723	103	17.3	2850	2454.3	9.6	9.6	779	759	22.5	31.1	261	700	30.3	3.34	.88	.84	9.8	8.5 D
118	2230	2475.0	40.4	596	686	105	18.4	2840	2454.8	9.6	9.6	778	764	22.4	31.1	260	701	30.3	3.34	.84	.80	9.8	8.5 D
119	2240	2476.0	46.3	542	727	120	11.5	2840	2457.1	9.6	9.6	777	768	22.4	31.1	261	702	30.4	3.34	.75	.71	9.8	8.5 D†
120	2242	2477.0	36.3	600	732	99	12.6	2850	2457.8	9.6	9.6	776	781	22.4	31.1	261	703	30.4	3.34	.77	.74	9.8	8.5 D
121	2244	2478.0	36.4	599	699	97	14.3	2830	2458.4	9.6	9.6	778	769	22.4	31.1	261	704	30.4	3.34	.79	.75	9.8	8.5 D
122	2245	2479.0	37.5	588	700	103	15.5	2850	2458.7	9.6	9.6	779	765	22.4	31.1	262	705	30.4	3.34	.81	.77	9.8	8.5 D
123	2247	2480.0	34.9	641	722	92	17.8	2850	2458.8	9.6	9.6	778	757	22.5	31.1	263	706	30.5	3.35	.83	.79	9.8	8.5 D
124	2249	2481.0	32.5	648	732	88	19.4	2850	2458.9	9.6	9.6	778	764	22.5	31.1	260	707	30.5	3.35	.86	.82	9.8	8.5 D
125	2250	2482.0	37.2	621	724	98	20.4	2840	2459.5	9.6	9.6	779	782	22.5	31.1	261	708	30.5	3.35	.86	.82	9.8	8.5 D
126	2252	2483.0	35.0	655	735	90	21.0	2850	2460.2	9.6	9.6	779	770	22.5	31.1	261	709	30.6	3.35	.86	.82	9.8	8.5 D
127	2254	2484.0	30.5	655	766	91	19.3	2850	2461.1	9.6	9.6	778	765	22.5	31.1	261	710	30.6	3.35	.87	.83	9.8	8.5 D
128	2303	2485.0	37.6	571	765	113	13.7	2900	2463.3	9.6	9.6	785	764	22.4	31.1	260	711	30.6	3.35	.81	.77	9.8	8.5 D
129	2305	2486.0	32.3	633	723	113	14.2	2900	2463.9	9.6	9.6	784	788	22.4	31.1	261	712	30.7	3.35	.85	.80	9.8	8.5 D
130	2307	2487.0	32.1	600	705	119	15.7	2880	2464.4	9.6	9.6	783	770	22.4	31.1	263	713	30.7	3.35	.88	.84	9.8	8.5 D
131	2308	2488.0	32.5	521	673	137	15.6	2900	2464.9	9.6	9.6	785	771	22.4	31.1	262	714	30.7	3.35	.90	.86	9.8	8.5 D
132	2310	2489.0	32.0	512	604	138	15.5	2880	2465.5	9.6	9.6	785	765	22.4	31.1	261	715	30.8	3.35	.91	.86	9.8	8.5 D
133	2313	2490.0	30.9	558	795	123	15.4	2870	2466.6	9.6	9.6	784	763	22.3	31.1	261	716	30.8	3.35	.89	.84	9.8	8.5 D†
134	2315	2491.0	35.3	603	704	107	17.1	2880	2467.3	9.6	9.6	785	763	22.2	31.1	264	717	30.8	3.36	.85	.81	9.8	8.5 D
135	2317	2492.0	35.5	606	757	101	14.1	2900	2468.0	9.6	9.6	784	775	22.2	31.1	261	718	30.8	3.36	.80	.76	9.8	8.5 D
136	2319	2493.0	30.0	674	796	87	15.4	2890	2468.3	9.6	9.6	784	769	22.2	31.1	261	719	30.9	3.36	.82	.79	9.8	8.5 D†
137	2330	2494.0	31.5	558	716	128	11.7	2880	2469.3	9.6	9.6	785	776	22.1	31.1	263	720	30.9	3.36	.84	.80	9.8	8.5 D
138	2331	2495.0	39.4	523	666	151	9.68	2870	2469.7	9.6	9.6	783	761	22.1	31.1	261	721	31.0	3.36	.79	.75	9.8	8.5 D
139	2333	2496.0	36.4	487	628	156	10.9	2880	2470.4	9.6	9.6	783	761	22.1	31.1	262	722	31.0	3.36	.83	.79	9.8	8.5 D
140	2335	2497.0	35.9	487	592	159	12.3	2870	2471.0	9.6	9.6	783	770	22.0	31.1	262	723	31.0	3.36	.86	.82	9.8	8.5 D
141	2336	2498.0	36.2	479	604	150	13.1	2890	2471.6	9.6	9.6	783	764	22.0	31.1	262	724	31.0	3.36	.86	.81	9.8	8.5 D
142	2338	2499.0	30.1	450	618	130	9.19	2890	2472.5	9.6	9.6	783	774	22.0	31.1	262	725	31.1	3.37	.80	.76	9.8	8.5 D†
143	2340	2500.0	39.5	522	643	124	2.95	2890	2473.1	9.6	9.6	783	769	22.1	31.0	263	726	31.1	3.37	.60	.57	9.8	8.5 D
144	2342	2501.0	31.3	461	599	127	3.60	2870	2473.7	9.6	9.6	784	788	22.0	31.0	264	727	31.1	3.37	.66	.63	9.8	8.5 D
145	2343	2502.0	39.0	504	636	127	6.04	2880	2473.9	9.6	9.6	785	790	22.0	31.0	264	728	31.2	3.37	.69	.65	9.8	8.5 D
146	2355	2503.0	27.9	414	558	130	6.31	2860	2475.7	9.6	9.6	776	763	22.0	31.0	341	729	31.2	3.37	.76	.72	9.8	8.5 D†
+ Displace Seawater-gel mud system with KCl-polymer mud system.																							
148	2358	2505.0	46.9	484	685	125	2.53	2810	2477.2	9.6	9.6	778	758	22.0	31.0	349	731	31.2	3.37	.56	.53	9.8	8.5 D†
	Date	Apr 10 '90																					
149	0000	2506.0	42.5	558	700	124	3.81	2710	2477.7	9.6	9.6	780	762	21.9	31.0	349	732	31.2	3.37	.62	.58	9.8	8.5 D
150	0001	2507.0	36.0	511	698	126	5.33	2750	2478.0	9.6	9.6	778	756	21.9	31.0	329	733	31.3	3.37	.69	.65	9.8	8.5 D
151	0003	2508.0	40.1	510	630	127	8.83	2790	2478.5	9.6	9.6	778	764	21.9	31.0	318	734	31.3	3.37	.74	.70	9.8	8.5 D
152	0005	2509.0	26.5	435	592	131	9.65	2750	2479.6	9.6	9.6	778	764	21.9	31.0	307	735	31.3	3.37	.84	.80	9.8	8.5 D
153	0007	2510.0	33.0	462	616	129	3.78	2690	2481.0	9.6	9.6	779	783	21.9	31.0	290	736	31.3	3.37	.66	.63	9.8	8.5 D
154	0009	2511.0	31.6	490	641	125	6.43	2690	2482.0	9.6	9.6	778	757	21.9	31.0	290	737	31.4	3.38	.73	.70	9.8	8.5 D
155	0012	2512.0	24.3	508	666	127	8.75	2700	2483.5	9.6	9.6	780	766	21.8	31.0	295	738	31.4	3.38	.83	.79	9.8	8.5 D
156	0025	2513.0	27.9	498	687	136	5.05	2730	2487.3	9.6	9.6	793	774	21.8	30.9	302	739	31.5	3.38	.73	.70	9.8	8.5 D
157	0027	2514.0	33.2	574	705	141	6.25	2710	2487.9	9.6	9.6	793	797	21.8	30.9	306	740	31.5	3.38	.74	.70	9.8	8.5 D
158	0029	2515.0	34.9	521	701	124	8.19	2740	2488.8	9.6	9.6	792	779	21.8	30.9	311	741	31.5	3.38	.75	.71	9.8	8.5 D
159	0031	2516.0	27.7	496	731	126	8.39	2740	2490.0	9.6	9.6	791	796	21.8	30.9	316	742	31.6	3.38	.80	.76	9.8	8.5 D
160	0032	2517.0	43.6	600	745	119	6.73	2740	2490.7	9.6	9.6	792	771	21.8	30.9	301	743	31.6	3.38	.68	.64	9.8	8.5 D
161	0034	2518.0	33.2	535	667	125	6.88	2720	2491.7	9.6	9.6	790	769	21.8	30.8	281	744	31.6	3.38	.73	.70	9.8	8.5 D
162	0036	2519.0	27.2	516	648	127	8.30	2720	2492.8	9.6	9.6	792	784	21.8	30.8	252	745	31.6	3.38	.80	.76	9.8	8.5 D
163	0038	2520.0	34.0	541	690	124	6.93	2690	2493.6	9.6	9.6	789	775	21.8	30.8	240	746	31.7	3.39	.73	.69	9.8	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 12:32 Date Apr 12 '90
Data Recorded at time 00:40 Date Apr 10 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT- m	THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
164	0040	2521.0	28.0	504	648	121	7.73	2680	2494.4	9.6	9.6	791	777	21.8	30.8	241	747	31.7	3.39	.78	.74	9.8	8.5D
165	0043	2522.0	22.1	449	640	128	8.40	2690	2495.9	9.6	9.6	792	772	21.8	30.8	234	748	31.8	3.39	.84	.80	9.8	8.5D
166	0054	2523.0	57.8	483	650	150	2.96	2690	2497.9	9.6	9.6	787	777	21.7	30.7	209	749	31.8	3.39	.57	.54	9.8	8.5D↑
167	0055	2524.0	34.1	512	702	155	3.44	2690	2498.7	9.6	9.6	788	793	21.7	30.6	191	750	31.8	3.39	.67	.64	9.8	8.5D
168	0057	2525.0	33.9	477	649	160	4.71	2630	2499.6	9.6	9.6	788	793	21.7	30.6	186	751	31.8	3.39	.72	.68	9.8	8.5D
169	0059	2526.0	34.5	529	672	157	6.65	2610	2500.7	9.6	9.6	789	775	21.7	30.6	187	752	31.9	3.39	.76	.72	9.8	8.5D
170	0101	2527.0	23.6	475	636	159	7.07	2840	2502.3	9.6	9.6	839	819	21.7	30.6	191	753	31.9	3.40	.84	.80	9.8	8.5D
171	0103	2528.0	42.4	501	663	158	4.37	2850	2503.1	9.6	9.6	842	828	21.7	30.6	200	754	31.9	3.40	.67	.63	9.8	8.5D↑
172	0104	2529.0	40.8	547	695	132	6.05	2850	2503.9	9.6	9.6	839	844	21.7	30.6	212	755	32.0	3.40	.69	.65	9.8	8.5D
173	0106	2530.0	31.2	531	698	124	6.92	2870	2505.1	9.6	9.6	840	843	21.7	30.5	232	756	32.0	3.40	.74	.71	9.8	8.5D
174	0108	2531.0	38.4	563	677	123	9.66	2860	2506.1	9.6	9.6	841	832	21.7	30.5	243	757	32.0	3.40	.76	.72	9.8	8.5D
175	0121	2532.0	40.8	507	679	122	10.3	2620	2507.8	9.6	9.6	797	783	21.7	30.4	275	758	32.0	3.40	.76	.72	9.8	8.5D↑
176	0123	2533.0	51.1	569	731	146	2.45	2630	2508.3	9.6	9.6	800	791	21.7	30.4	271	759	32.1	3.40	.57	.54	9.8	8.5D
177	0124	2534.0	34.7	495	617	156	3.75	2620	2509.3	9.6	9.6	799	785	21.7	30.4	267	760	32.1	3.40	.68	.65	9.8	8.5D
178	0126	2535.0	39.3	517	653	157	5.96	2620	2510.3	9.6	9.6	799	802	21.7	30.4	262	761	32.1	3.40	.72	.68	9.8	8.5D
179	0128	2536.0	27.0	450	648	159	6.20	2610	2511.8	9.6	9.6	796	775	21.6	30.3	256	762	32.1	3.40	.80	.75	9.8	8.5D↑
180	0130	2537.0	24.7	441	640	159	5.74	2040	2513.2	9.6	9.6	787	773	21.6	30.3	250	763	32.2	3.41	.80	.76	9.8	8.5D
181	0132	2538.0	35.7	518	673	156	5.79	1880	2513.7	9.6	9.6	667	648	21.6	30.3	251	764	32.2	3.41	.74	.70	9.8	8.5D↑
182	0134	2539.0	34.3	496	662	158	7.32	1880	2514.4	9.6	9.6	659	663	21.6	30.3	251	765	32.2	3.41	.78	.74	9.8	8.5D
183	0136	2540.0	35.5	464	610	161	8.71	1870	2515.1	9.6	9.6	658	645	21.6	30.3	257	766	32.3	3.41	.81	.76	9.8	8.5D
184	0149	2541.0	34.7	456	614	156	10.7	1830	2516.9	9.6	9.6	651	657	15.1	30.2	280	767	32.3	3.41	.84	.80	9.8	8.5D↑
185	0150	2542.0	37.8	484	638	126	1.72	1850	2516.9	9.6	9.6	662	665	15.1	30.2	257	768	32.3	3.41	.71	.67	9.8	8.5D↑
186	0152	2543.1	30.9	454	596	123	5.02	1850	2517.7	9.6	9.6	662	640	15.6	30.2	149	769	32.4	3.41	.70	.66	9.8	8.5D
187	0154	2544.0	32.6	516	676	123	7.95	1960	2518.5	9.6	9.6	663	652	19.1	30.2	307	770	32.4	3.41	.76	.72	9.8	8.5D
188	0156	2545.0	44.0	519	660	128	7.69	1990	2519.2	9.6	9.6	689	670	19.1	30.2	320	771	32.4	3.42	.71	.67	9.8	8.5D↑
189	0157	2546.0	47.5	503	624	132	5.62	1990	2519.8	9.6	9.6	689	692	19.1	30.2	334	772	32.4	3.42	.66	.62	9.8	8.5D
190	0159	2547.0	34.2	561	723	122	7.97	2010	2520.6	9.6	9.6	688	674	19.1	30.2	344	773	32.5	3.42	.75	.71	9.8	8.5D
191	0200	2548.0	41.5	504	726	130	9.46	1960	2521.3	9.6	9.6	680	658	19.1	30.2	349	774	32.5	3.42	.75	.71	9.8	8.5D
192	0201	2549.0	40.8	536	674	127	11.3	1960	2522.0	9.6	9.6	674	653	19.1	30.2	355	775	32.5	3.42	.78	.74	9.8	8.5D
193	0203	2550.0	40.9	460	631	131	12.6	1970	2522.7	9.6	9.6	673	676	19.1	30.2	362	776	32.5	3.42	.80	.76	9.8	8.5D
194	0218	2551.0	36.0	409	551	143	7.20	1740	2526.6	9.6	9.6	624	627	19.1	30.2	418	777	32.6	3.42	.75	.71	9.8	8.5D↑
195	0220	2552.0	35.3	453	567	156	5.84	1750	2526.8	9.6	9.6	623	628	19.0	30.2	419	778	32.6	3.42	.74	.70	9.8	8.5D
196	0222	2553.0	38.0	474	593	158	8.13	1750	2526.8	9.6	9.6	623	609	19.0	30.2	418	779	32.6	3.42	.78	.73	9.8	8.5D
197	0223	2554.0	35.3	463	613	159	9.76	2340	2527.0	9.6	9.6	738	729	19.0	30.2	415	780	32.6	3.42	.82	.78	9.8	8.5D
198	0225	2555.0	45.5	486	624	158	12.4	2270	2527.2	9.6	9.6	728	705	19.0	30.2	416	781	32.7	3.43	.82	.77	9.8	8.5D
199	0227	2556.0	36.4	472	615	159	11.4	2270	2528.0	9.6	9.6	724	726	19.0	30.2	417	782	32.7	3.43	.85	.80	9.8	8.5D↑
200	0227	2557.0	60.2	599	699	149	9.64	2290	2528.5	9.6	9.6	724	704	19.0	30.2	417	783	32.7	3.43	.71	.66	9.8	8.5D
201	0229	2558.0	34.8	492	663	155	8.43	2270	2529.3	9.6	9.6	724	704	19.0	30.1	416	784	32.7	3.43	.80	.75	9.8	8.5D
202	0230	2559.0	44.6	498	634	158	10.6	2260	2530.0	9.6	9.6	724	704	19.0	30.1	416	785	32.8	3.43	.79	.75	9.8	8.5D
203	0245	2560.0	32.3	443	610	159	11.3	2680	2534.8	9.5	9.6	800	806	19.2	30.1	416	786	32.8	3.43	.87	.82	9.8	8.5D↑
204	0247	2561.0	39.6	538	712	149	7.04	2680	2535.6	9.5	9.6	801	786	18.9	30.1	416	787	32.8	3.43	.74	.70	9.8	8.5D
205	0248	2562.0	43.6	470	581	155	7.46	2660	2536.1	9.5	9.6	802	783	18.9	30.1	415	788	32.8	3.43	.74	.69	9.8	8.5D
206	0250	2563.0	36.7	455	600	157	9.23	2670	2536.3	9.5	9.6	803	784	18.7	30.1	414	789	32.9	3.44	.80	.76	9.8	8.5D
207	0251	2564.0	42.3	499	630	157	11.1	2650	2536.0	9.5	9.6	802	805	18.7	30.1	416	790	32.9	3.44	.81	.76	9.8	8.5D
208	0253	2565.0	35.7	502	612	155	12.9	2670	2536.4	9.5	9.6	803	806	18.5	30.0	416	791	32.9	3.44	.87	.82	9.8	8.5D
209	0255	2566.0	30.1	445	580	158	9.79	2650	2537.3	9.5	9.6	801	804	18.6	30.0	416	792	33.0	3.44	.85	.81	9.8	8.5D
210	0257	2567.0	37.6	453	552	159	10.6	2660	2538.3	9.5	9.6	798	779	18.6	30.0	415	793	33.0	3.44	.83	.78	9.8	8.5D
211	0258	2568.0	41.9	454	590	158	12.7	2620	2539.1	9.5	9.6	801	779	18.8	30.0	415	794	33.0	3.44	.84	.79	9.8	8.5D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 12:34 Date Apr 12 '90
Data Recorded at time 03:00 Date Apr 10 '90

F#	TIME	DEPTH	ROP	TORQUE		RPM	WOB	PUMP	RTRNS	MD lb/gal		FLOW/MIN		TEMP (C)		PVT	-THIS BIT-		EST	DXC	NXB	ECD	NXMD	
		m	m/hr	AVG	MAX	AVG	AVG	PRES	DEPTH	IN	OUT	IN	OUT	IN	OUT		m	hr	TW					
212	0300	2569.0	28.7	420	589	124	13.6	2610	2540.2	9.5	9.6	795	773	18.8	30.0	415	795	33.0	3.44	.88	.84	9.8	8.5	D
213	0332	2570.0	43.6	395	545	144	7.47	2550	2549.5	9.5	9.6	786	777	18.4	29.9	412	796	33.1	3.45	.73	.69	9.7	8.5	D↑
214	0333	2571.0	30.2	447	577	150	5.26	2550	2550.9	9.5	9.6	787	789	18.2	29.9	411	797	33.1	3.45	.75	.71	9.7	8.5	D
215	0335	2572.0	47.1	515	635	148	8.73	2870	2551.9	9.5	9.6	814	803	18.1	29.9	410	798	33.2	3.45	.74	.70	9.7	8.5	D
216	0336	2573.0	35.0	482	630	155	9.84	2860	2553.3	9.5	9.6	843	823	18.1	29.9	410	799	33.2	3.45	.83	.78	9.7	8.5	D
217	0338	2574.0	46.9	525	658	154	13.0	2880	2554.1	9.5	9.6	841	844	18.1	29.9	408	800	33.2	3.45	.82	.77	9.7	8.5	D
218	0339	2575.0	38.6	481	609	159	12.1	2880	2555.0	9.5	9.6	841	846	18.1	29.9	410	801	33.2	3.45	.85	.80	9.7	8.5	D↑
219	0341	2576.0	49.7	501	629	156	4.16	2880	2555.0	9.5	9.6	840	819	18.0	29.8	409	802	33.2	3.45	.64	.61	9.7	8.5	D
220	0342	2577.0	38.3	532	744	150	8.64	2880	2555.0	9.5	9.6	839	819	17.9	29.8	409	803	33.3	3.45	.78	.74	9.7	8.5	D
221	0344	2578.0	37.4	459	614	158	8.24	2870	2555.0	9.5	9.6	838	843	17.9	29.8	409	804	33.3	3.46	.79	.74	9.7	8.5	D
222	0345	2579.0	40.1	453	607	158	9.69	2870	2555.1	9.5	9.6	840	819	18.0	29.8	408	805	33.3	3.46	.80	.76	9.7	8.5	D
223	0402	2580.0	32.1	409	576	128	5.96	2780	2563.3	9.5	9.6	819	805	18.0	29.7	435	806	33.4	3.46	.73	.69	9.7	8.5	D
224	0404	2581.0	33.6	392	506	128	7.47	2800	2564.5	9.5	9.6	819	798	18.0	29.7	435	807	33.4	3.46	.76	.72	9.7	8.5	D
225	0405	2582.0	48.0	462	609	132	11.1	2810	2564.6	9.5	9.6	819	805	17.8	29.7	439	808	33.4	3.46	.76	.72	9.7	8.5	D
226	0407	2583.0	35.3	445	586	130	12.1	2820	2564.6	9.5	9.6	821	825	17.7	29.7	442	809	33.4	3.46	.83	.79	9.7	8.5	D
227	0408	2584.0	48.3	496	638	132	10.0	2820	2564.6	9.5	9.6	820	806	17.7	29.7	443	810	33.5	3.46	.74	.70	9.7	8.5	D
228	0410	2585.0	35.5	472	588	131	10.9	2830	2564.6	9.5	9.6	821	800	17.6	29.7	447	811	33.5	3.46	.82	.77	9.7	8.5	D
229	0411	2586.0	37.8	516	711	127	12.6	2840	2564.7	9.5	9.6	818	804	17.6	29.7	448	812	33.5	3.46	.82	.78	9.7	8.5	D
230	0413	2587.0	28.5	463	651	130	14.0	2860	2566.0	9.5	9.6	820	806	17.7	29.7	451	813	33.6	3.47	.91	.86	9.7	8.5	D
231	0415	2588.0	31.2	531	701	126	10.7	2830	2567.4	9.5	9.6	820	798	18.0	29.7	454	814	33.6	3.47	.83	.79	9.7	8.5	D
232	0428	2589.0	23.5	434	603	130	8.75	2840	2572.5	9.5	9.6	814	820	18.4	29.7	463	815	33.6	3.47	.85	.81	9.7	8.5	D↑
233	0431	2590.0	26.9	497	674	155	7.22	2850	2573.7	9.5	9.6	815	819	18.5	29.7	463	816	33.7	3.47	.83	.78	9.7	8.5	D
234	0432	2591.0	38.6	459	703	167	6.51	2850	2574.0	9.5	9.6	815	806	18.5	29.7	461	817	33.7	3.47	.76	.72	9.7	8.5	D
235	0434	2592.0	34.9	475	631	163	9.51	2840	2574.0	9.5	9.6	815	801	18.6	29.6	463	818	33.7	3.47	.84	.79	9.7	8.5	D
236	0435	2593.0	39.4	506	648	160	11.1	2850	2574.0	9.5	9.6	814	806	18.6	29.6	460	819	33.8	3.47	.84	.79	9.7	8.5	D
237	0437	2594.0	39.0	474	627	162	12.6	2850	2574.0	9.5	9.6	815	801	18.6	29.6	460	820	33.8	3.48	.87	.82	9.7	8.5	D
238	0439	2595.0	27.0	451	594	163	12.3	2840	2574.0	9.5	9.6	814	817	18.7	29.6	461	821	33.8	3.48	.94	.88	9.7	8.5	D
239	0441	2596.0	33.9	474	598	156	11.0	2840	2574.0	9.5	9.6	814	792	18.7	29.6	460	822	33.8	3.48	.86	.81	9.7	8.5	D
240	0443	2597.0	30.4	472	600	131	12.7	2850	2574.0	9.5	9.6	813	793	18.7	29.6	461	823	33.9	3.48	.87	.83	9.7	8.5	D
241	0445	2598.0	26.5	425	570	130	14.9	2810	2574.0	9.5	9.6	812	816	18.7	29.6	461	824	33.9	3.48	.93	.89	9.7	8.5	D
242	0458	2599.0	39.9	469	660	118	10.5	2810	2575.1	9.5	9.6	808	814	18.9	29.6	457	825	34.0	3.48	.77	.72	9.7	8.5	D↑
243	0459	2600.0	34.0	498	702	118	11.2	2790	2576.1	9.5	9.6	809	788	18.9	29.6	459	826	34.0	3.48	.81	.76	9.7	8.5	D
244	0502	2601.0	19.4	400	529	116	12.4	2780	2578.3	9.5	9.6	807	787	18.9	29.6	458	827	34.1	3.49	.93	.89	9.7	8.5	D
245	0507	2602.0	17.4	343	530	120	15.7	2770	2581.3	9.5	9.6	804	807	19.0	29.5	457	828	34.1	3.49	1.02	.97	9.7	8.5	D↑
246	0509	2603.0	31.2	448	673	118	19.8	2760	2582.3	9.5	9.6	804	790	19.0	29.5	458	829	34.2	3.49	.94	.89	9.7	8.5	D
247	0511	2604.0	27.4	398	543	118	21.2	2760	2583.7	9.5	9.6	806	792	19.0	29.5	458	830	34.2	3.49	.99	.94	9.7	8.5	D
248	0513	2605.0	29.1	407	507	121	22.7	2750	2583.7	9.5	9.6	804	809	19.0	29.5	457	831	34.2	3.49	1.00	.95	9.7	8.5	D
249	0515	2606.0	34.3	436	547	115	24.1	2760	2583.7	9.5	9.6	805	797	19.0	29.5	458	832	34.3	3.49	.97	.91	9.7	8.5	D
250	0516	2607.0	50.5	476	615	119	24.7	2760	2583.7	9.5	9.6	806	809	19.0	29.5	457	833	34.3	3.49	.89	.84	9.7	8.5	D
251	0530	2608.0	33.5	393	507	128	20.4	2770	2586.0	9.5	9.6	807	786	19.0	29.5	452	834	34.4	3.50	.95	.90	9.7	8.5	D↑
252	0532	2609.0	48.8	485	642	158	8.09	2840	2586.8	9.5	9.6	809	798	19.0	29.5	452	835	34.4	3.50	.74	.70	9.7	8.5	D
253	0533	2610.0	42.4	486	651	156	9.30	2850	2587.7	9.5	9.6	819	806	18.9	29.5	454	836	34.4	3.50	.79	.74	9.7	8.5	D
254	0536	2611.0	25.0	386	575	161	7.54	2850	2589.4	9.5	9.6	819	824	18.9	29.5	454	837	34.4	3.50	.85	.81	9.7	8.5	D↑
255	0537	2612.0	59.7	518	615	157	5.73	2860	2590.1	9.5	9.6	818	804	18.9	29.4	454	838	34.5	3.50	.66	.61	9.7	8.5	D
256	0538	2613.0	39.1	483	643	159	6.31	2840	2590.9	9.5	9.6	817	821	18.9	29.4	455	839	34.5	3.50	.74	.70	9.7	8.5	D
257	0540	2614.0	40.8	468	636	162	7.95	2860	2591.6	9.5	9.6	817	797	18.9	29.4	455	840	34.5	3.50	.78	.73	9.7	8.5	D
258	0541	2615.0	37.7	440	599	162	9.66	2840	2592.4	9.5	9.6	819	824	18.9	29.4	455	841	34.5	3.50	.82	.77	9.7	8.5	D
259	0543	2616.0	30.7	437	585	161	10.5	2830	2593.0	9.5	9.6	817	822	18.9	29.4	455	842	34.6	3.51	.88	.83	9.7	8.5	D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 12:37 Date Apr 12 '90
Data Recorded at time 05:53 Date Apr 10 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	hr	EST TW	DXC	NXB	ECD	NXMD
260	0553	2617.0	29.3	406	565	160	11.6	2780	2593.5	9.5	9.6	803	792	18.8	29.4	456	843	34.6	3.51	.90	.85	9.7	8.5 D↑
261	0555	2618.0	48.6	486	633	155	8.47	2810	2594.0	9.5	9.6	805	785	18.8	29.4	458	844	34.6	3.51	.74	.70	9.7	8.5 D
262	0556	2619.0	50.0	468	587	162	8.75	2800	2594.5	9.5	9.6	808	811	18.8	29.4	459	845	34.7	3.51	.75	.71	9.7	8.5 D
263	0557	2620.0	41.8	443	595	162	10.4	2800	2595.3	9.5	9.6	809	788	18.8	29.4	461	846	34.7	3.51	.81	.77	9.7	8.5 D
264	0600	2621.0	26.6	401	564	160	9.56	2800	2596.6	9.5	9.6	806	810	18.7	29.4	462	847	34.7	3.51	.88	.84	9.7	8.5 D
265	0601	2622.0	38.6	444	636	158	8.86	2790	2597.6	9.5	9.6	806	812	18.7	29.4	462	848	34.7	3.51	.80	.75	9.7	8.5 D
266	0603	2623.0	26.2	433	642	159	10.0	2810	2598.9	9.5	9.6	806	797	18.6	29.4	463	849	34.8	3.52	.89	.84	9.7	8.5 D
267	0605	2624.0	32.9	466	664	157	11.9	2800	2599.9	9.5	9.6	805	790	18.6	29.4	464	850	34.8	3.52	.88	.83	9.7	8.5 D
268	0607	2625.0	30.7	430	644	161	9.95	2810	2600.9	9.5	9.6	806	784	18.6	29.4	464	851	34.8	3.52	.86	.82	9.7	8.5 D
269	0609	2626.0	32.1	405	566	154	7.71	2800	2601.8	9.5	9.6	804	809	18.6	29.4	466	852	34.9	3.52	.80	.76	9.7	8.5 D
270	0620	2627.0	31.1	426	615	140	9.11	2880	2603.0	9.5	9.6	819	805	18.5	29.3	466	853	34.9	3.52	.82	.77	9.7	8.5 D↑
271	0622	2628.0	44.3	455	677	147	3.45	2890	2603.4	9.5	9.6	820	798	18.5	29.3	466	854	35.0	3.52	.63	.59	9.7	8.5 D
272	0623	2629.0	37.3	427	595	149	4.22	2870	2604.1	9.5	9.6	817	804	18.5	29.3	467	855	35.0	3.53	.69	.65	9.7	8.5 D
273	0625	2630.0	30.2	380	507	159	6.68	2900	2605.0	9.5	9.6	817	808	18.5	29.3	468	856	35.0	3.53	.80	.75	9.7	8.5 D
274	0627	2631.0	32.8	390	543	159	8.21	2900	2605.6	9.5	9.6	817	821	18.6	29.3	468	857	35.0	3.53	.82	.77	9.7	8.5 D
275	0629	2632.0	32.8	432	595	159	9.67	2880	2606.1	9.5	9.6	817	809	18.6	29.3	471	858	35.1	3.53	.84	.80	9.7	8.5 D
276	0631	2633.0	29.2	376	585	158	10.0	2870	2606.5	9.5	9.6	818	820	18.6	29.3	470	859	35.1	3.53	.87	.82	9.7	8.5 D
277	0633	2634.0	33.4	381	502	159	11.6	2900	2607.0	9.5	9.6	816	821	18.6	29.3	471	860	35.1	3.53	.87	.82	9.7	8.5 D
278	0635	2635.0	30.6	393	521	151	12.6	2880	2607.9	9.5	9.6	817	823	18.6	29.3	471	861	35.2	3.54	.90	.85	9.7	8.5 D
279	0645	2636.0	33.3	364	495	130	14.6	2810	2611.8	9.5	9.6	803	794	18.7	29.3	472	862	35.2	3.54	.88	.83	9.7	8.5 D↑
280	0647	2637.0	46.5	435	625	158	5.16	2860	2612.4	9.5	9.6	807	799	18.8	29.3	471	863	35.2	3.54	.68	.64	9.7	8.5 D
281	0648	2638.0	39.8	372	483	165	7.51	2840	2612.4	9.5	9.6	813	820	18.8	29.3	471	864	35.3	3.54	.77	.73	9.7	8.5 D
282	0651	2639.0	25.3	382	588	162	8.55	2870	2612.4	9.5	9.6	812	797	18.8	29.3	474	865	35.3	3.54	.87	.83	9.7	8.5 D
283	0653	2640.0	34.2	392	530	162	8.37	2850	2612.5	9.5	9.6	814	804	18.8	29.2	474	866	35.3	3.54	.81	.77	9.7	8.5 D
284	0654	2641.0	50.4	435	560	162	8.15	2860	2612.7	9.5	9.6	815	819	18.8	29.2	475	867	35.4	3.54	.74	.69	9.7	8.5 D
285	0655	2642.0	38.3	411	573	161	7.82	2850	2613.3	9.5	9.6	813	817	18.8	29.2	474	868	35.4	3.54	.78	.73	9.7	8.5 D-
286	0656	2643.0	34.9	435	573	161	9.72	2860	2614.5	9.5	9.6	812	798	18.8	29.2	475	869	35.4	3.55	.84	.79	9.7	8.5 D
287	0658	2644.0	27.9	392	528	162	11.6	2840	2615.4	9.5	9.6	813	792	18.9	29.2	476	870	35.4	3.55	.91	.86	9.7	8.5 D
288	0700	2645.0	34.1	420	611	145	13.6	2840	2616.5	9.5	9.6	815	794	18.9	29.2	477	871	35.5	3.55	.88	.83	9.7	8.5 D
289	0702	2646.0	19.3	362	497	128	13.4	2830	2617.6	9.5	9.6	812	792	18.9	29.2	479	872	35.5	3.55	.97	.92	9.7	8.5 D-
290	0714	2647.0	44.7	285	423	145	14.3	2850	2621.1	9.5	9.6	812	791	19.0	29.2	477	873	35.5	3.55	.84	.79	9.7	8.5 D↑
291	0716	2648.0	28.8	375	523	158	10.9	2820	2621.8	9.5	9.6	810	796	19.0	29.2	476	874	35.5	3.55	.89	.84	9.7	8.5 D
292	0718	2649.0	31.2	373	481	159	12.3	2830	2621.8	9.5	9.6	811	796	19.0	29.2	479	875	35.6	3.55	.90	.85	9.7	8.5 D
293	0721	2650.0	19.0	356	525	160	13.6	2830	2622.9	9.5	9.6	811	790	19.0	29.2	479	876	35.6	3.56	1.02	.97	9.7	8.5 D
294	0722	2651.0	43.5	410	554	161	17.7	2830	2624.1	9.5	9.6	810	815	19.0	29.2	479	877	35.7	3.56	.91	.86	9.7	8.5 D
295	0725	2652.0	24.9	354	464	162	17.9	2830	2625.6	9.5	9.6	810	801	19.0	29.2	479	878	35.7	3.56	1.04	.98	9.7	8.5 D
296	0728	2653.0	21.9	308	422	163	17.3	2830	2627.1	9.5	9.6	811	815	19.0	29.1	478	879	35.7	3.56	1.06	1.00	9.7	8.5 D
297	0729	2654.0	34.1	417	590	159	9.50	2830	2628.1	9.5	9.6	810	789	19.0	29.1	477	880	35.8	3.57	.83	.78	9.7	8.5 D
298	0731	2655.0	35.7	367	469	162	9.28	2830	2629.1	9.5	9.6	810	789	19.0	29.1	478	881	35.8	3.57	.82	.78	9.7	8.5 D
299	0733	2656.0	29.4	363	507	145	10.6	2830	2630.1	9.5	9.6	810	795	19.0	29.1	479	882	35.8	3.57	.87	.82	9.7	8.5 D
300	0744	2657.0	38.9	381	511	132	11.3	2840	2631.9	9.5	9.6	808	795	19.0	29.1	474	883	35.9	3.57	.80	.76	9.7	8.5 D↑
301	0745	2658.0	51.1	437	553	128	12.2	2840	2631.9	9.5	9.6	809	796	19.0	29.1	474	884	35.9	3.57	.76	.71	9.7	8.5 D
302	0746	2659.0	39.0	436	632	127	12.6	2850	2632.4	9.5	9.6	808	794	19.0	29.1	474	885	35.9	3.57	.82	.77	9.7	8.5 D
303	0748	2660.0	32.1	420	678	131	8.71	2850	2633.4	9.5	9.6	809	788	19.0	29.1	474	886	35.9	3.57	.79	.75	9.7	8.5 D
304	0750	2661.0	41.4	479	644	135	11.0	2860	2634.4	9.5	9.6	808	787	19.0	29.1	474	887	36.0	3.57	.79	.74	9.7	8.5 D
305	0751	2662.0	51.2	493	665	128	12.6	2840	2635.1	9.5	9.6	806	811	19.0	29.1	473	888	36.0	3.57	.76	.71	9.7	8.5 D
306	0753	2663.0	34.9	492	648	128	13.5	2860	2636.2	9.5	9.6	808	787	19.0	29.1	474	889	36.0	3.57	.85	.80	9.7	8.5 D
307	0754	2664.0	38.9	414	538	133	14.1	2850	2637.0	9.5	9.6	809	812	19.0	29.1	472	890	36.0	3.58	.85	.80	9.7	8.5 D

--ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 12:39 Date Apr 12 '90
Data Recorded at time 07:56 Date Apr 10 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
308	0756	2665.0	31.6	479	708	129	16.0	2840	2638.0	9.5	9.6	807	799	19.1	29.1	471	891	36.1	3.58	.91	.86	9.7	8.5 D
309	0758	2666.0	32.9	369	515	128	17.5	2840	2638.9	9.5	9.6	807	786	19.1	29.1	471	892	36.1	3.58	.92	.87	9.7	8.5 D
310	0807	2667.0	75.2	499	666	118	12.8	710	2641.3	9.5	9.6	350	356	19.1	29.1	478	893	36.1	3.58	.67	.63	9.7	8.5 D↑
311	0809	2668.0	35.8	562	762	113	14.5	710	2641.7	9.5	9.6	350	336	19.1	29.1	475	894	36.2	3.58	.84	.79	9.7	8.5 D
312	0810	2669.0	39.4	472	652	120	14.7	2510	2641.8	9.5	9.6	532	607	19.1	29.1	475	895	36.2	3.58	.83	.78	9.7	8.5 D
313	0812	2670.0	34.1	407	559	131	16.9	2910	2641.9	9.5	9.6	803	792	19.1	29.1	469	896	36.2	3.58	.91	.86	9.7	8.5 D
314	0813	2671.0	35.5	421	560	125	18.5	2920	2641.9	9.5	9.6	809	788	19.1	29.1	467	897	36.2	3.58	.91	.86	9.7	8.5 D
315	0816	2672.0	22.6	392	527	128	18.0	2900	2642.8	9.5	9.6	808	795	19.1	29.0	470	898	36.3	3.58	1.01	.95	9.7	8.5 D
316	0817	2673.0	41.0	481	621	130	15.1	2900	2643.7	9.5	9.6	809	788	19.0	29.0	470	899	36.3	3.58	.84	.79	9.7	8.5 D
317	0819	2674.0	48.8	465	552	127	16.6	2920	2644.4	9.5	9.6	809	789	19.0	29.0	467	900	36.3	3.59	.82	.77	9.7	8.5 D
318	0820	2675.0	34.9	481	686	124	15.3	2930	2645.3	9.5	9.6	811	813	19.0	29.0	468	901	36.4	3.59	.87	.82	9.7	8.5 D
319	0832	2676.0	37.7	374	531	138	14.4	2920	2649.8	9.5	9.6	807	812	18.8	29.0	468	902	36.4	3.59	.86	.81	9.7	8.5 D
320	0833	2677.0	46.7	479	687	154	12.4	2940	2650.6	9.5	9.6	810	792	18.8	29.0	466	903	36.4	3.59	.82	.76	9.7	8.5 D
321	0835	2678.0	37.4	437	667	154	12.6	2930	2651.4	9.5	9.6	813	794	18.8	29.0	467	904	36.5	3.59	.86	.81	9.7	8.5 D
322	0836	2679.0	45.4	450	580	156	12.5	2930	2652.0	9.5	9.6	811	803	18.8	29.0	467	905	36.5	3.59	.82	.77	9.7	8.5 D
323	0838	2680.0	35.8	460	632	154	13.2	2960	2652.7	9.5	9.6	809	795	18.7	29.0	467	906	36.5	3.59	.88	.83	9.7	8.5 D
324	0839	2681.0	56.6	527	638	152	14.3	2930	2653.1	9.5	9.6	811	802	18.7	29.0	467	907	36.5	3.59	.80	.75	9.7	8.5 D
325	0840	2682.0	47.3	476	645	156	14.5	2930	2653.5	9.5	9.6	811	790	18.7	29.0	464	908	36.5	3.59	.84	.79	9.7	8.5 D
326	0841	2683.0	39.5	511	696	150	15.8	2920	2653.6	9.5	9.6	810	815	18.7	29.0	466	909	36.6	3.60	.89	.84	9.7	8.5 D
327	0843	2684.0	50.9	532	631	154	17.3	2930	2654.0	9.5	9.6	807	788	18.6	29.0	466	910	36.6	3.60	.86	.80	9.7	8.5 D
328	0844	2685.0	34.1	424	581	159	16.8	2930	2654.9	9.5	9.6	811	790	18.6	29.0	462	911	36.6	3.60	.95	.89	9.7	8.5 D
329	0856	2686.0	41.3	441	657	150	10.5	2860	2657.8	9.5	9.6	802	805	18.7	29.0	461	912	36.7	3.60	.80	.75	9.7	8.5 D
330	0857	2687.0	42.8	466	631	154	10.7	2880	2658.4	9.5	9.6	802	789	18.7	29.0	463	913	36.7	3.60	.80	.75	9.7	8.5 D
331	0858	2688.0	44.1	438	543	163	11.6	2870	2658.9	9.5	9.6	803	783	18.7	29.0	463	914	36.7	3.60	.82	.77	9.7	8.5 D
332	0900	2689.0	42.6	422	549	164	13.1	2860	2659.4	9.5	9.6	801	779	18.7	29.0	464	915	36.7	3.60	.85	.80	9.7	8.5 D
333	0901	2690.0	40.5	471	599	162	14.3	2860	2660.1	9.5	9.6	803	782	18.7	29.0	462	916	36.8	3.61	.88	.83	9.7	8.5 D
334	0903	2691.0	37.3	416	516	165	15.2	2850	2660.9	9.5	9.6	802	788	18.7	29.0	463	917	36.8	3.61	.91	.86	9.7	8.5 D
335	0904	2692.0	37.0	462	615	162	14.1	2860	2661.9	9.5	9.6	801	788	18.7	29.0	463	918	36.8	3.61	.90	.84	9.7	8.5 D
336	0906	2693.0	51.6	480	600	163	14.4	2860	2662.4	9.5	9.6	803	789	18.8	29.0	464	919	36.8	3.61	.83	.78	9.7	8.5 D
337	0907	2694.0	40.1	470	596	162	15.0	2880	2663.0	9.5	9.6	805	791	18.8	29.0	465	920	36.8	3.61	.89	.84	9.7	8.5 D
338	0919	2695.0	32.0	398	530	160	11.3	2870	2664.6	9.5	9.6	800	785	18.9	28.9	465	921	36.9	3.61	.88	.83	9.7	8.5 D↑
339	0920	2696.0	48.5	472	580	152	9.21	2870	2665.4	9.5	9.6	802	807	18.9	28.9	466	922	36.9	3.61	.75	.70	9.7	8.5 D
340	0922	2697.0	30.3	445	610	142	9.33	2880	2666.6	9.5	9.6	803	805	18.8	28.9	467	923	37.0	3.62	.83	.78	9.7	8.5 D
341	0923	2698.0	47.0	497	607	129	10.5	2870	2667.3	9.5	9.6	802	782	18.8	28.9	466	924	37.0	3.62	.75	.70	9.7	8.5 D
342	0925	2699.0	42.6	465	632	127	11.3	2870	2668.4	9.5	9.6	803	789	18.8	28.9	468	925	37.0	3.62	.78	.73	9.7	8.5 D
343	0926	2700.0	36.8	466	615	129	10.2	2880	2669.6	9.5	9.6	801	804	18.8	28.9	467	926	37.0	3.62	.79	.74	9.7	8.5 D
344	0928	2701.0	43.2	492	571	128	8.21	2860	2670.3	9.5	9.6	802	789	18.8	28.9	468	927	37.1	3.62	.73	.68	9.7	8.5 D
345	0929	2702.0	37.6	442	579	130	8.67	2890	2671.2	9.5	9.6	802	789	18.8	28.9	467	928	37.1	3.62	.76	.72	9.7	8.5 D
346	0931	2703.0	46.6	468	562	129	9.48	2900	2671.9	9.5	9.6	802	782	18.8	28.9	467	929	37.1	3.62	.73	.69	9.7	8.5 D
347	0932	2704.0	35.6	436	591	131	9.74	2880	2672.4	9.5	9.6	804	789	18.8	28.9	467	930	37.1	3.62	.79	.75	9.7	8.5 D
348	0945	2705.0	37.6	483	616	140	10.5	2900	2676.7	9.5	9.6	807	786	18.8	28.9	466	931	37.2	3.62	.81	.76	9.7	8.5 D↑
349	0946	2706.0	40.1	469	608	157	9.61	2900	2677.6	9.5	9.6	808	812	18.8	28.9	466	932	37.2	3.62	.80	.75	9.7	8.5 D
350	0948	2707.0	40.9	461	576	159	9.31	2890	2678.2	9.5	9.6	807	786	18.8	28.9	465	933	37.2	3.62	.80	.75	9.7	8.5 D
351	0950	2708.0	32.6	498	626	155	9.07	2900	2679.1	9.5	9.6	803	805	18.8	28.9	466	934	37.2	3.63	.83	.78	9.7	8.5 D
352	0951	2709.0	32.5	436	558	158	8.95	2890	2680.3	9.5	9.6	806	797	18.8	28.9	466	935	37.3	3.63	.83	.78	9.7	8.5 D
353	0953	2710.0	39.7	479	569	158	9.76	2880	2681.3	9.5	9.6	806	792	18.9	28.9	466	936	37.3	3.63	.81	.76	9.7	8.5 D
354	0954	2711.0	46.9	481	596	157	11.3	2910	2682.1	9.5	9.6	803	783	18.9	28.9	466	937	37.3	3.63	.80	.75	9.7	8.5 D
355	0956	2712.0	35.8	474	581	158	12.5	2900	2682.2	9.5	9.6	802	788	18.9	28.9	465	938	37.3	3.63	.87	.82	9.7	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 12:41 Date Apr 12 '90
Data Recorded at time 09:57 Date Apr 10 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
1356	0957	2713.0	39.7	472	590	158	12.6	2900	2682.3	9.5	9.6	801	792	18.9	28.9	464	939	37.4	3.63	.85	.80	9.7	8.5 D
1357	1008	2714.0	38.4	434	557	156	11.3	2950	2684.8	9.5	9.6	807	812	18.9	28.9	463	940	37.4	3.63	.84	.79	9.7	8.5 D↑
1358	1010	2715.0	37.9	508	679	149	7.29	2940	2685.9	9.5	9.6	812	791	19.0	28.9	462	941	37.4	3.64	.76	.71	9.7	8.5 D
1359	1011	2716.0	45.9	511	650	157	8.09	2930	2686.9	9.5	9.6	811	813	19.0	28.9	461	942	37.5	3.64	.75	.70	9.7	8.5 D
1360	1012	2717.0	39.4	521	646	161	7.39	2940	2687.9	9.5	9.6	810	796	19.0	28.9	455	943	37.5	3.64	.77	.72	9.7	8.5 D
1361	1014	2718.0	36.8	442	555	165	8.07	2970	2689.1	9.5	9.6	809	795	19.1	28.9	451	944	37.5	3.64	.80	.75	9.7	8.5 D
1362	1015	2719.0	39.2	460	605	164	9.66	2940	2690.3	9.5	9.6	813	799	19.1	28.9	451	945	37.5	3.64	.82	.76	9.7	8.5 D
1363	1017	2720.0	37.0	482	613	163	10.6	2950	2691.2	9.5	9.6	813	818	19.1	28.9	451	946	37.6	3.64	.84	.79	9.7	8.5 D
1364	1018	2721.0	44.4	469	581	164	10.5	2950	2691.6	9.5	9.6	811	797	19.1	28.9	450	947	37.6	3.64	.81	.75	9.7	8.5 D
1365	1020	2722.0	42.3	539	656	160	10.9	2980	2691.7	9.5	9.6	810	788	19.1	28.9	451	948	37.6	3.64	.82	.77	9.7	8.5 D
1366	1021	2723.0	41.4	451	599	164	10.2	2950	2691.7	9.5	9.6	810	801	19.1	28.9	448	949	37.6	3.65	.81	.76	9.7	8.5 D
1367	1031	2724.0	43.3	473	635	148	9.65	2970	2695.0	9.5	9.6	806	793	19.1	28.9	449	950	37.7	3.65	.78	.73	9.7	8.5 D
1368	1033	2725.0	37.2	479	619	158	8.09	2970	2696.1	9.5	9.6	810	813	19.1	28.9	451	951	37.7	3.65	.79	.74	9.7	8.5 D
1369	1034	2726.0	42.6	482	588	159	7.14	2920	2696.9	9.5	9.6	805	790	19.1	28.9	451	952	37.7	3.65	.75	.70	9.7	8.5 D
1370	1036	2727.0	42.0	493	613	158	7.80	2910	2697.8	9.5	9.6	806	797	19.1	28.9	449	953	37.7	3.65	.76	.71	9.7	8.5 D
1371	1037	2728.0	36.3	483	628	157	8.51	2930	2699.1	9.5	9.6	805	783	19.1	28.9	451	954	37.8	3.65	.80	.75	9.7	8.5 D
1372	1039	2729.0	39.3	462	598	159	9.49	2920	2700.3	9.5	9.6	805	784	19.1	28.9	449	955	37.8	3.65	.81	.76	9.7	8.5 D
1373	1040	2730.0	42.6	484	616	159	9.36	2930	2700.8	9.5	9.6	806	811	19.1	28.9	449	956	37.8	3.65	.79	.74	9.7	8.5 D
1374	1042	2731.0	36.4	467	593	160	9.77	2920	2701.3	9.5	9.6	807	798	19.1	28.9	450	957	37.8	3.66	.83	.78	9.7	8.5 D
1375	1044	2732.0	31.0	510	655	156	11.0	2910	2701.3	9.5	9.6	805	795	19.1	28.9	450	958	37.9	3.66	.87	.82	9.7	8.5 D
1376	1056	2733.0	35.9	484	645	141	10.9	2920	2705.0	9.5	9.6	804	790	19.1	28.9	449	959	37.9	3.66	.82	.77	9.7	8.5 D↑
1377	1057	2734.0	44.7	474	598	129	7.80	2920	2706.0	9.5	9.6	804	790	19.1	28.9	449	960	38.0	3.66	.71	.67	9.7	8.5 D
1378	1058	2735.0	36.5	487	618	125	7.82	2920	2707.1	9.5	9.6	806	787	19.1	28.9	450	961	38.0	3.66	.74	.70	9.7	8.5 D
1379	1100	2736.0	34.0	440	588	130	7.47	2910	2708.1	9.5	9.6	807	812	19.1	28.9	449	962	38.0	3.66	.76	.71	9.7	8.5 D
1380	1102	2737.0	30.2	531	643	123	7.60	2930	2709.3	9.5	9.6	806	792	19.1	28.9	449	963	38.1	3.66	.77	.73	9.7	8.5 D
1381	1104	2738.0	29.8	481	646	130	7.46	2910	2710.5	9.5	9.6	807	788	19.1	28.9	449	964	38.1	3.66	.78	.74	9.7	8.5 D
1382	1106	2739.0	35.1	509	661	128	4.98	2920	2710.7	9.5	9.6	806	784	19.1	28.9	448	965	38.1	3.67	.69	.65	9.7	8.5 D
1383	1108	2740.0	26.7	491	647	130	5.41	2930	2710.7	9.5	9.6	806	812	19.1	28.9	448	966	38.2	3.67	.75	.71	9.7	8.5 D
1384	1110	2741.0	29.1	451	625	131	5.31	2920	2711.1	9.5	9.6	808	787	19.1	28.9	448	967	38.2	3.67	.73	.69	9.7	8.5 D
1385	1123	2742.0	32.2	401	582	127	7.04	980	2714.3	9.5	9.6	417	423	19.1	28.9	459	968	38.2	3.67	.76	.71	9.7	8.5 D↑
1386	1124	2743.0	58.0	512	661	150	3.50	950	2714.6	9.5	9.6	419	397	19.1	28.9	459	969	38.2	3.67	.60	.56	9.7	8.5 D↑
1387	1126	2744.0	34.0	430	578	161	3.42	970	2715.2	9.5	9.6	418	399	19.1	28.9	461	970	38.3	3.67	.69	.65	9.7	8.5 D
1388	1128	2745.0	31.1	522	654	136	5.24	2330	2715.8	9.5	9.6	437	459	19.1	28.9	463	971	38.3	3.67	.73	.69	9.7	8.5 D
1389	1129	2746.0	34.4	510	669	124	8.00	2920	2716.8	9.5	9.6	795	780	19.1	28.9	454	972	38.3	3.67	.76	.71	9.7	8.5 D
1390	1131	2747.0	30.1	497	717	121	9.21	2910	2718.1	9.5	9.6	803	788	19.2	28.9	456	973	38.4	3.67	.80	.75	9.7	8.5 D
1391	1134	2748.0	24.7	422	633	125	9.66	2900	2719.6	9.5	9.6	806	786	19.2	28.9	458	974	38.4	3.67	.85	.80	9.7	8.5 D
1392	1135	2749.0	37.7	606	749	108	13.4	2920	2719.9	9.5	9.6	806	810	19.2	28.9	456	975	38.4	3.68	.80	.75	9.7	8.5 D
1393	1137	2750.0	34.3	569	708	113	15.0	2890	2720.0	9.5	9.6	807	792	19.2	28.9	458	976	38.5	3.68	.85	.80	9.7	8.5 D
1394	1138	2751.0	47.1	608	700	111	15.8	2910	2720.0	9.5	9.6	802	781	19.2	28.9	458	977	38.5	3.68	.79	.74	9.7	8.5 D
1395	1151	2752.0	33.7	554	676	119	16.2	2900	2723.7	9.5	9.6	798	793	19.1	28.9	474	978	38.5	3.68	.88	.83	9.7	8.5 D↑
1396	1153	2753.0	29.4	490	637	117	10.4	2890	2725.1	9.5	9.6	804	790	19.0	29.0	478	979	38.6	3.68	.82	.77	9.7	8.5 D
1397	1154	2754.0	40.7	572	721	109	12.5	2900	2726.0	9.5	9.6	803	782	19.0	29.0	482	980	38.6	3.68	.77	.73	9.7	8.5 D
1398	1156	2755.0	38.2	570	747	107	14.5	2890	2726.9	9.5	9.6	801	786	19.0	29.0	485	981	38.6	3.68	.81	.76	9.7	8.5 D
1399	1158	2756.0	29.4	548	711	109	15.2	2890	2728.4	9.5	9.6	802	782	19.0	29.0	488	982	38.7	3.68	.88	.83	9.7	8.5 D
1400	1159	2757.0	51.8	583	668	108	14.9	2890	2728.9	9.5	9.6	802	781	18.9	29.0	490	983	38.7	3.68	.75	.71	9.7	8.5 D
1401	1200	2758.0	41.3	582	674	112	16.0	2880	2729.5	9.5	9.6	803	808	18.9	29.0	493	984	38.7	3.68	.82	.77	9.7	8.5 D
1402	1202	2759.0	26.6	518	660	113	15.4	2870	2729.5	9.5	9.6	803	788	18.9	29.0	499	985	38.7	3.68	.91	.86	9.7	8.5 D
1403	1204	2760.0	48.1	557	648	116	17.3	2880	2729.8	9.5	9.6	802	804	18.8	29.0	501	986	38.8	3.68	.81	.76	9.7	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 12:44 Date Apr 12 '90
Data Recorded at time 12:05 Date Apr 10 '90

F#	TIME	DEPTH	ROP	TORQUE		RPM	WOB	PUMP	RTRNS	MD lb/gal		FLOW/MIN		TEMP (C)		PVT	-THIS BIT-		EST	DXC	NXB	ECD	NXMD
		m	m/hr	AVG	MAX	AVG	AVG	PRES	DEPTH	IN	OUT	IN	OUT	IN	OUT		m	hr	TW				
404	1205	2761.0	46.0	612	684	107	18.9	2860	2730.2	9.5	9.6	803	793	18.8	29.0	504	987	38.8	3.68	.82	.77	9.7	8.5 D
405	1216	2762.0	32.3	587	681	107	19.4	2890	2735.0	9.5	9.6	805	808	18.8	29.0	521	988	38.8	3.69	.91	.86	9.7	8.5 D
406	1218	2763.0	32.3	590	744	130	11.9	2900	2736.3	9.5	9.6	807	787	18.8	29.0	523	989	38.9	3.69	.85	.80	9.7	8.5 D
407	1220	2764.0	29.1	521	731	139	12.4	2880	2737.5	9.5	9.6	809	801	18.8	29.0	524	990	38.9	3.69	.89	.84	9.7	8.5 D
408	1223	2765.0	24.8	591	840	128	14.9	2880	2738.9	9.5	9.6	808	787	18.8	29.0	526	991	38.9	3.69	.94	.89	9.7	8.5 D
409	1224	2766.0	45.7	590	695	134	16.9	2890	2738.9	9.5	9.6	808	787	18.8	29.0	528	992	39.0	3.69	.85	.80	9.7	8.5 D
410	1225	2767.0	55.3	583	672	142	17.8	2900	2738.9	9.5	9.6	806	792	18.8	29.0	528	993	39.0	3.69	.83	.78	9.7	8.5 D
411	1227	2768.0	43.4	596	708	138	18.3	2890	2739.2	9.5	9.6	806	809	18.8	29.0	530	994	39.0	3.69	.89	.83	9.7	8.5 D
412	1228	2769.0	45.3	588	667	141	19.3	2880	2739.6	9.5	9.6	806	798	18.8	29.0	532	995	39.0	3.69	.89	.83	9.7	8.5 D
413	1230	2770.0	43.8	514	612	143	17.6	2900	2740.7	9.5	9.6	807	793	18.8	29.0	533	996	39.0	3.69	.88	.83	9.7	8.5 D
414	1231	2771.0	37.7	531	648	116	15.4	2890	2741.7	9.5	9.6	807	799	18.9	29.0	535	997	39.1	3.69	.84	.79	9.7	8.5 D
415	1246	2772.0	20.4	472	578	128	12.9	2890	2747.1	9.5	9.6	805	784	19.1	29.0	546	998	39.2	3.70	.95	.90	9.7	8.5 D
416	1248	2773.0	21.7	391	559	127	10.8	2880	2748.4	9.5	9.6	804	809	19.1	29.0	547	999	39.2	3.70	.90	.85	9.7	8.5 D
417	1250	2774.0	46.7	589	741	108	14.6	2900	2748.8	9.5	9.6	806	793	19.1	29.0	549	1000	39.2	3.70	.77	.73	9.7	8.5 D
418	1251	2775.0	34.7	559	719	109	15.3	2900	2749.1	9.5	9.6	808	794	19.2	29.0	551	1001	39.2	3.70	.85	.80	9.7	8.5 D
419	1253	2776.0	46.8	561	683	110	16.7	2900	2749.1	9.5	9.6	806	792	19.2	29.0	549	1002	39.3	3.70	.80	.75	9.7	8.5 D
420	1254	2777.0	34.7	577	697	110	17.9	2880	2750.3	9.5	9.6	806	810	19.2	29.0	552	1003	39.3	3.70	.88	.83	9.7	8.5 D
421	1256	2778.0	33.2	595	728	107	18.1	2900	2751.9	9.5	9.6	805	791	19.2	29.0	553	1004	39.3	3.70	.89	.84	9.7	8.5 D
422	1258	2779.0	29.0	557	753	110	17.5	2900	2753.3	9.5	9.6	805	796	19.2	29.0	555	1005	39.4	3.70	.91	.86	9.7	8.5 D
423	1300	2780.0	32.8	520	624	116	15.3	2900	2754.3	9.5	9.6	806	785	19.2	29.0	557	1006	39.4	3.70	.87	.82	9.7	8.5 D
424	1302	2781.0	32.5	539	693	112	16.4	2900	2755.3	9.5	9.6	805	810	19.3	29.0	558	1007	39.4	3.70	.88	.83	9.7	8.5 D
425	1317	2782.0	17.4	361	511	142	11.2	2950	2759.7	9.5	9.6	810	791	19.4	29.0	559	1008	39.5	3.71	.97	.92	9.7	8.5 D
426	1319	2783.0	46.8	499	645	147	11.6	2950	2760.4	9.5	9.6	813	799	19.4	29.0	557	1009	39.5	3.71	.79	.74	9.7	8.5 D
427	1320	2784.0	40.5	536	645	143	13.6	2930	2761.1	9.5	9.6	811	791	19.4	29.0	557	1010	39.6	3.71	.85	.79	9.7	8.5 D
428	1322	2785.0	27.0	505	645	142	14.1	2940	2762.5	9.5	9.6	811	790	19.5	29.0	550	1011	39.6	3.71	.94	.88	9.7	8.5 D
429	1324	2786.0	31.2	466	638	148	15.7	2940	2763.8	9.5	9.6	811	790	19.5	29.0	536	1012	39.6	3.71	.94	.88	9.7	8.5 D
430	1326	2787.0	35.2	511	656	143	17.3	2950	2764.9	9.5	9.6	809	788	19.5	29.0	521	1013	39.7	3.71	.93	.87	9.7	8.5 D
431	1328	2788.0	27.9	466	648	147	16.0	2940	2766.2	9.5	9.6	812	817	19.6	29.0	505	1014	39.7	3.72	.97	.91	9.7	8.5 D
432	1330	2789.0	36.1	479	613	149	15.5	2940	2767.1	9.5	9.6	809	801	19.6	29.0	489	1015	39.7	3.72	.91	.85	9.7	8.5 D
433	1331	2790.0	39.1	545	674	131	16.6	2950	2768.2	9.5	9.6	811	791	19.6	29.0	483	1016	39.7	3.72	.88	.82	9.7	8.5 D
434	1344	2791.0	33.3	495	646	119	13.7	2930	2770.3	9.5	9.6	794	780	19.8	29.1	477	1017	39.8	3.72	.85	.80	9.7	8.5 DX
435	1345	2792.0	61.7	516	649	146	10.1	2920	2770.6	9.5	9.6	803	790	19.8	29.1	479	1018	39.8	3.72	.72	.67	9.7	8.5 D
436	1347	2793.0	45.7	517	619	147	12.3	2930	2771.3	9.5	9.6	806	785	19.8	29.1	478	1019	39.9	3.72	.81	.76	9.7	8.5 D
437	1348	2794.0	57.5	605	682	138	14.7	2940	2771.7	9.5	9.6	804	807	19.8	29.1	477	1020	39.9	3.72	.78	.73	9.7	8.5 D
438	1349	2795.0	48.4	642	796	126	16.1	2930	2772.2	9.5	9.6	805	791	19.8	29.1	478	1021	39.9	3.72	.82	.76	9.7	8.5 D
439	1350	2796.0	39.5	520	640	145	15.9	2940	2772.8	9.5	9.6	806	809	19.9	29.1	478	1022	39.9	3.72	.89	.83	9.7	8.5 D
440	1352	2797.0	28.5	576	709	134	16.7	2920	2773.6	9.5	9.6	803	789	19.9	29.1	478	1023	39.9	3.72	.95	.90	9.7	8.5 D
441	1354	2798.0	36.4	489	606	148	12.2	2920	2774.7	9.5	9.6	805	785	19.9	29.1	478	1024	40.0	3.73	.85	.80	9.7	8.5 D
442	1355	2799.0	44.5	544	658	146	14.9	2930	2775.7	9.5	9.6	805	795	19.9	29.1	478	1025	40.0	3.73	.85	.79	9.7	8.5 D
443	1357	2800.0	43.9	591	803	135	16.2	2930	2776.8	9.5	9.6	803	783	20.0	29.1	477	1026	40.0	3.73	.85	.80	9.7	8.5 D
444	1408	2801.0	33.5	460	581	149	13.1	2920	2780.4	9.5	9.6	807	811	20.1	29.1	475	1027	40.1	3.73	.89	.83	9.7	8.5 D
445	1409	2802.0	54.1	566	651	134	12.9	2920	2780.8	9.5	9.6	802	788	20.1	29.1	477	1028	40.1	3.73	.77	.71	9.7	8.5 D
446	1411	2803.0	49.6	604	688	109	15.0	2930	2781.1	9.5	9.6	802	781	20.1	29.1	478	1029	40.1	3.73	.77	.72	9.7	8.5 D
447	1412	2804.0	38.3	554	703	116	15.3	2920	2781.1	9.5	9.6	802	789	20.1	29.1	477	1030	40.2	3.73	.84	.79	9.7	8.5 D
448	1414	2805.0	41.3	553	652	113	16.6	2920	2781.2	9.5	9.6	799	803	20.1	29.1	477	1031	40.2	3.73	.83	.78	9.7	8.5 D
449	1415	2806.0	41.5	609	745	109	18.4	2910	2781.5	9.5	9.6	802	787	20.1	29.1	476	1032	40.2	3.73	.85	.79	9.7	8.5 D
450	1417	2807.0	34.0	695	798	93	16.2	2910	2782.3	9.5	9.6	801	781	20.1	29.1	473	1033	40.2	3.73	.83	.78	9.7	8.5 D
451	1418	2808.0	37.6	606	705	107	14.6	2920	2783.2	9.5	9.6	802	793	20.1	29.2	475	1034	40.3	3.73	.82	.77	9.7	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 12:46 Date Apr 12 '90
Data Recorded at time 14:21 Date Apr 10 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
452	1421	2809.0	26.9	597	721	110	14.5	2930	2784.5	9.5	9.6	801	788	20.1	29.2	475	1035	40.3	3.74	.89	.84	9.7	8.5 D
453	1431	2810.0	39.1	634	737	106	14.5	2910	2788.7	9.5	9.6	792	784	20.2	29.2	473	1036	40.3	3.74	.81	.76	9.7	8.5 D↑
454	1433	2811.0	37.4	625	778	100	10.9	2930	2789.5	9.5	9.6	803	807	20.2	29.2	475	1037	40.4	3.74	.75	.71	9.7	8.5 D
455	1434	2812.0	35.9	699	788	84	13.0	2940	2790.2	9.5	9.6	802	807	20.2	29.2	473	1038	40.4	3.74	.76	.71	9.7	8.5 D
456	1436	2813.0	39.4	691	760	92	14.8	2900	2790.9	9.5	9.6	804	790	20.2	29.2	474	1039	40.4	3.74	.78	.73	9.7	8.5 D
457	1438	2814.0	32.2	653	817	95	13.7	2940	2791.7	9.5	9.6	804	795	20.2	29.2	472	1040	40.4	3.74	.81	.77	9.7	8.5 D
458	1440	2815.0	34.5	724	828	80	11.6	2950	2791.8	9.5	9.6	803	808	20.2	29.2	470	1041	40.5	3.74	.74	.69	9.7	8.5 D↑
459	1442	2816.0	28.9	637	838	96	12.7	2950	2791.8	9.5	9.6	803	783	20.2	29.2	471	1042	40.5	3.74	.82	.78	9.7	8.5 D↑
460	1444	2817.0	29.0	616	752	101	13.6	2930	2792.1	9.5	9.6	802	789	20.2	29.2	472	1043	40.5	3.74	.85	.80	9.7	8.5 D
461	1447	2818.0	23.5	557	725	110	14.2	2930	2793.3	9.5	9.6	805	796	20.2	29.2	472	1044	40.6	3.74	.91	.86	9.7	8.5 D
462	1449	2819.0	30.1	623	753	102	13.5	2940	2794.6	9.5	9.6	804	784	20.2	29.2	470	1045	40.6	3.74	.84	.79	9.7	8.5 D
463	1500	2820.0	34.4	593	723	109	12.1	2900	2798.5	9.5	9.6	798	777	20.3	29.2	470	1046	40.6	3.74	.81	.76	9.7	8.5 D*
464	1503	2821.0	44.8	632	816	89	11.3	2900	2800.2	9.5	9.6	798	790	20.4	29.3	470	1047	40.7	3.74	.70	.66	9.7	8.5 D↑
465	1505	2822.0	37.4	655	767	93	12.5	2900	2800.8	9.5	9.6	795	800	20.4	29.3	470	1048	40.7	3.74	.76	.72	9.7	8.5 D
466	1506	2823.0	38.1	608	737	103	13.1	2900	2801.3	9.5	9.6	796	775	20.4	29.3	469	1049	40.7	3.74	.79	.74	9.7	8.5 D
467	1509	2824.0	25.5	505	625	115	11.9	2910	2801.3	9.5	9.6	798	776	20.4	29.3	468	1050	40.8	3.75	.87	.82	9.7	8.5 D
468	1510	2825.0	41.0	623	741	102	12.7	2920	2801.3	9.5	9.6	799	801	20.4	29.3	467	1051	40.8	3.75	.77	.72	9.7	8.5 D
469	1512	2826.0	37.8	593	724	110	13.5	2920	2801.5	9.5	9.6	798	776	20.4	29.3	468	1052	40.8	3.75	.81	.76	9.7	8.5 D
470	1513	2827.0	37.0	594	697	108	12.3	2920	2802.2	9.5	9.6	797	801	20.4	29.3	469	1053	40.8	3.75	.79	.74	9.7	8.5 D
471	1515	2828.0	42.1	617	739	105	13.4	2880	2803.2	9.5	9.6	798	801	20.4	29.3	457	1054	40.9	3.75	.77	.73	9.7	8.5 D
472	1516	2829.0	35.3	581	702	108	13.8	2910	2804.7	9.5	9.6	797	776	20.4	29.3	457	1055	40.9	3.75	.82	.77	9.7	8.5 D
473	1528	2830.0	51.3	605	773	126	8.01	2990	2809.1	9.5	9.6	807	787	20.5	29.3	454	1056	40.9	3.75	.69	.64	9.7	8.5 D↑
474	1529	2831.0	44.0	749	819	75	11.8	3000	2810.3	9.5	9.6	809	795	20.5	29.3	455	1057	40.9	3.75	.68	.64	9.7	8.5 D↑
475	1532	2832.0	33.6	655	861	83	13.4	3000	2810.8	9.5	9.6	810	802	20.5	29.3	453	1058	41.0	3.75	.77	.73	9.7	8.5 D
476	1534	2833.0	22.9	675	817	94	15.0	3000	2810.8	9.5	9.6	810	789	20.5	29.3	449	1059	41.0	3.75	.90	.85	9.7	8.5 D
477	1537	2834.0	21.9	525	820	112	14.8	2990	2811.6	9.5	9.6	809	795	20.5	29.3	450	1060	41.0	3.75	.94	.89	9.7	8.5 D
478	1539	2835.0	40.8	628	762	104	15.4	2990	2812.7	9.5	9.6	807	795	20.5	29.3	449	1061	41.1	3.75	.81	.76	9.7	8.5 D
479	1540	2836.0	45.1	577	713	107	14.2	2990	2813.6	9.5	9.6	811	814	20.5	29.3	449	1062	41.1	3.75	.77	.72	9.7	8.5 D
480	1541	2837.0	46.4	646	743	101	15.0	2980	2814.5	9.5	9.6	809	795	20.5	29.4	446	1063	41.1	3.75	.77	.72	9.7	8.5 D
481	1543	2838.0	42.4	608	721	109	14.3	2990	2815.4	9.5	9.6	807	793	20.5	29.4	447	1064	41.1	3.75	.79	.74	9.7	8.5 D
482	1554	2839.0	49.1	583	691	108	13.7	2980	2819.1	9.5	9.6	802	798	20.5	29.4	449	1065	41.2	3.75	.76	.71	9.7	8.5 D↑
483	1556	2840.0	45.3	727	838	106	8.19	1500	2819.8	9.5	9.6	541	527	20.5	29.4	453	1066	41.2	3.75	.69	.64	9.7	8.5 D↑
484	1557	2841.0	57.7	619	769	138	6.78	1500	2820.2	9.5	9.6	542	522	20.5	29.4	452	1067	41.2	3.76	.66	.62	9.7	8.5 D
485	1558	2842.0	51.5	636	732	133	7.97	2720	2820.2	9.5	9.6	621	677	20.5	29.4	451	1068	41.2	3.76	.70	.65	9.7	8.5 D
486	1559	2843.1	68.4	588	688	145	8.83	2990	2820.2	9.5	9.6	784	776	20.5	29.4	446	1069	41.2	3.76	.68	.63	9.7	8.5 D
+ Circulate bottoms up at 2844m.																							
+ POOH at 2844m with RRB#5 to cut Core #1																							
+ RIH with CB#1, Christensen RC476 at 2844m to cut Core#1.																							
	Date	Apr 12 '90																					
495	0044	2844.5	10.8	408	599	78	4.15	550	2844.0	9.5	9.6	220	225	19.6	29.6	478	.65	.1	.00	.79	.84	9.5	8.5 D↑
496	0046	2845.0	11.1	587	642	64	7.56	550	2844.0	9.5	9.6	221	207	19.6	29.6	478	1.00	.1	.00	.85	.92	9.5	8.5 D
497	0048	2845.5	10.9	544	612	74	6.86	550	2844.0	9.5	9.6	219	222	19.6	29.6	479	1.50	.1	.00	.86	.92	9.5	8.5 D
498	0051	2846.0	10.2	542	603	75	6.77	530	2844.0	9.5	9.6	220	201	19.8	29.7	480	1.99	.2	.00	.88	.93	9.5	8.5 D
499	0054	2846.5	10.9	540	597	73	6.30	550	2844.0	9.5	9.6	221	200	19.8	29.7	480	2.50	.2	.00	.85	.91	9.5	8.5 D
500	0056	2847.0	13.1	524	587	78	6.06	540	2844.0	9.5	9.6	220	225	19.8	29.7	481	3.00	.3	.00	.82	.87	9.5	8.5 D
501	0059	2847.5	11.3	498	580	80	6.49	550	2844.0	9.5	9.6	219	210	19.8	29.7	482	3.50	.3	.00	.86	.91	9.5	8.5 D
502	0101	2848.0	11.6	543	594	75	6.44	530	2844.0	9.5	9.6	219	204	19.9	29.7	483	4.00	.4	.00	.84	.90	9.5	8.5 D
503	0103	2848.5	16.1	528	571	79	6.61	550	2844.0	9.5	9.6	220	206	19.9	29.7	484	4.50	.4	.00	.80	.85	9.5	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 03:07 Date Apr 19 '90
Data Recorded at time 01:05 Date Apr 12 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD
1504	0105	2849.0	14.0	532	597	76	7.09	550	2844.0	9.5	9.6	220	206	19.9	29.7	484	5.00	.4	.00	.83	.89	9.5	8.5 D
1505	0108	2849.5	14.0	505	562	80	6.37	550	2844.0	9.5	9.6	219	200	19.9	29.7	486	5.50	.5	.00	.82	.87	9.5	8.5 D
1506	0110	2850.0	14.4	516	573	79	6.18	540	2844.0	9.5	9.6	218	198	19.9	29.7	486	6.00	.5	.00	.81	.86	9.5	8.5 D
1507	0112	2850.5	15.2	516	570	81	7.52	540	2844.0	9.5	9.6	219	198	20.0	29.7	486	6.50	.5	.00	.83	.89	9.5	8.5 D
1508	0114	2851.0	14.9	495	557	82	7.00	540	2844.0	9.5	9.6	219	199	20.0	29.7	486	7.00	.6	.00	.83	.88	9.5	8.5 D
1509	0116	2851.5	15.3	521	581	79	7.47	550	2844.0	9.5	9.6	219	197	20.0	29.7	486	7.49	.6	.00	.83	.88	9.5	8.5 D
1510	0118	2852.0	13.7	521	582	79	7.23	560	2844.0	9.5	9.6	219	198	20.0	29.7	487	8.00	.6	.00	.84	.90	9.5	8.5 D
1511	0120	2852.5	16.4	501	563	81	7.10	550	2844.0	9.5	9.6	219	205	20.0	29.7	486	8.49	.7	.00	.81	.86	9.5	8.5 D
1512	0122	2853.0	13.3	499	552	79	6.74	550	2844.0	9.5	9.6	218	204	20.0	29.7	487	9.00	.7	.00	.84	.89	9.5	8.5 D
1513	0136	2853.5	14.2	498	572	82	7.41	630	2844.0	9.5	9.6	219	205	20.0	29.7	487	9.45	.7	.00	.84	.89	9.5	8.5 D↑
1514	0140	2854.0	13.8	493	548	91	9.59	550	2844.0	9.5	9.6	221	213	20.0	29.7	488	10.0	.8	.00	.84	.89	9.5	8.5 D↑
1515	0142	2854.5	13.4	482	563	96	8.62	570	2844.0	9.5	9.6	222	208	20.0	29.7	489	10.5	.8	.00	.91	.95	9.5	8.5 D
1516	0145	2855.0	11.3	462	543	97	8.39	570	2844.0	9.5	9.6	221	207	20.0	29.7	488	11.0	.9	.00	.94	.98	9.5	8.5 D
1517	0147	2855.5	15.5	470	532	97	8.36	570	2844.0	9.5	9.6	222	226	19.9	29.6	491	11.5	.9	.00	.88	.92	9.5	8.5 D
1518	0148	2856.0	15.7	495	559	95	8.88	560	2844.0	9.5	9.6	221	201	19.9	29.6	491	12.0	.9	.00	.88	.92	9.5	8.5 D
1519	0151	2856.5	13.5	470	538	99	8.11	570	2844.0	9.5	9.6	222	224	19.9	29.6	491	12.5	1.0	.00	.90	.94	9.5	8.5 D
1520	0153	2857.0	15.7	483	547	96	8.44	570	2844.0	9.5	9.6	221	213	19.9	29.6	490	13.0	1.0	.00	.88	.91	9.5	8.5 D
1521	0155	2857.5	14.2	463	547	99	8.33	560	2844.0	9.5	9.6	218	223	19.9	29.6	492	13.5	1.0	.00	.90	.93	9.5	8.5 D
1522	0157	2858.0	12.9	463	545	99	8.24	560	2844.0	9.5	9.6	222	225	19.8	29.6	493	14.0	1.1	.00	.91	.95	9.5	8.5 D
1523	0159	2858.5	14.3	470	565	98	7.75	560	2844.0	9.5	9.6	221	201	19.8	29.6	494	14.5	1.1	.00	.88	.92	9.5	8.5 D
1524	0201	2859.0	14.1	512	577	95	8.19	570	2844.0	9.5	9.6	221	200	19.8	29.6	494	15.0	1.1	.00	.89	.93	9.5	8.5 D
1525	0203	2859.5	15.0	467	553	97	8.31	550	2844.0	9.5	9.6	221	200	19.8	29.6	494	15.5	1.2	.00	.88	.92	9.5	8.5 D
1526	0206	2860.0	11.0	438	544	100	7.77	560	2844.0	9.5	9.6	222	225	19.8	29.6	495	16.0	1.2	.00	.93	.97	9.5	8.5 D
1527	0208	2860.5	14.7	473	559	96	7.92	580	2844.0	9.5	9.6	223	209	19.5	29.6	495	16.5	1.2	.00	.88	.91	9.5	8.5 D
1528	0210	2861.0	11.9	458	557	97	8.13	560	2844.0	9.5	9.6	222	225	19.5	29.6	495	17.0	1.3	.00	.92	.96	9.5	8.5 D
1529	0213	2861.5	13.0	436	555	99	8.61	540	2844.0	9.5	9.6	221	200	19.5	29.6	495	17.5	1.3	.00	.92	.96	9.5	8.5 D
1530	0215	2862.0	10.4	373	486	86	7.90	560	2844.0	9.5	9.6	222	202	19.5	29.6	496	18.0	1.4	.00	.92	.97	9.5	8.5 D
1531	0219	2862.5	8.18	379	505	86	8.54	550	2844.0	9.5	9.6	221	213	19.3	29.5	498	18.5	1.4	.00	.98	1.03	9.5	8.5 D
+ Core No.1: 2844m - 2862.5m. Cut 18.5m. Rev. 12.6m (68%).																							
+ RRCB#1, Christensen RC476 12.25". Start depth 2862.5m.																							
	Date Apr 13 '90																						
1547	0038	2863.5	12.5	373	591	82	8.37	400	2862.5	9.5	9.6	217	222	20.5	30.2	459	1.00	1.4	.00	.84	.87	9.6	8.5 D
1548	0040	2664.0	13.7	522	606	84	8.85	380	2862.5	9.5	9.6	217	204	20.5	30.2	458	1.50	1.4	.00	.88	.93	9.6	8.5 D-
1549	0040	2864.5	10.8	566	597	86	9.62	380	2862.5	9.5	9.6	217	196	20.5	30.2	459	2.00	1.4	.00	.95	1.00	9.6	8.5 D-
1550	0041	2865.0	12.9	531	590	85	9.07	380	2862.5	9.5	9.6	217	202	20.5	30.2	457	2.53	1.4	.00	.84	.88	9.6	8.5 D
1551	0043	2865.5	13.4	516	621	78	8.86	390	2862.5	9.5	9.6	216	203	20.5	30.2	459	3.00	1.6	.00	.87	.92	9.6	8.5 D-
1552	0045	2866.0	14.6	494	600	74	8.87	350	2862.5	9.5	9.6	216	195	20.5	30.2	457	3.50	1.6	.00	.84	.90	9.6	8.5 D
1553	0047	2866.5	14.8	529	621	70	9.03	360	2862.5	9.5	9.6	218	221	20.5	30.2	457	4.00	1.7	.00	.83	.90	9.6	8.5 D
1554	0049	2867.0	12.9	539	624	71	9.18	350	2862.5	9.5	9.6	216	202	20.5	30.2	459	4.48	1.7	.00	.86	.93	9.6	8.5 D
1555	0052	2867.5	13.7	504	586	72	9.18	390	2862.5	9.5	9.6	217	196	20.5	30.2	457	5.00	1.4	.10	.86	.92	9.6	8.5 D1
1558	0102	2868.5	9.06	481	620	71	9.68	360	2862.5	9.5	9.6	218	223	20.5	30.2	459	6.00	1.8	.10	.95	1.02	9.6	8.5 D
1559	0106	2869.0	6.57	374	527	72	9.73	410	2862.5	9.5	9.6	217	220	20.5	30.2	461	6.50	1.9	.10	1.01	1.08	9.6	8.5 D
1560	0115	2869.5	2.75	328	486	75	10.1	370	2862.5	9.5	9.6	216	221	20.6	30.3	461	7.00	2.0	.10	1.20	1.26	9.6	8.5 D-
1561	0118	2870.0	4.25	437	523	73	9.05	420	2862.5	9.5	9.6	217	208	20.6	30.3	462	7.50	2.1	.10	1.08	1.14	9.6	8.5 D
1562	0121	2870.5	12.2	462	561	73	9.99	410	2862.5	9.5	9.6	216	196	20.6	30.3	463	8.00	2.1	.10	.90	.97	9.6	8.5 D
1563	0123	2871.0	11.9	459	566	72	9.57	360	2862.5	9.5	9.6	217	220	20.6	30.2	463	8.50	2.1	.10	.90	.96	9.6	8.5 D
1564	0126	2871.5	10.7	454	572	74	9.39	350	2862.5	9.5	9.6	217	203	20.6	30.2	465	9.00	2.2	.10	.92	.98	9.6	8.5 D
1565	0129	2872.0	11.4	530	616	70	10.2	350	2862.5	9.5	9.6	218	203	20.6	30.2	464	9.50	2.2	.10	.91	.98	9.6	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 03:10 Date Apr 19 '90
Data Recorded at time 01:30 Date Apr 13 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
566	0130	2872.5	13.4	505	615	71	10.4	380	2862.5	9.5	9.6	218	208	20.6	30.2	464	9.99	2.3	.10	.89	.95	9.6	8.5 D-
567	0150	2873.0	33.1	535	586	84	10.2	340	2862.5	9.5	9.6	208	188	20.6	30.0	467	10.5	2.3	.10	.74	.79	9.6	8.5 D
568	0153	2873.5	9.53	483	582	86	10.6	340	2862.5	9.5	9.6	209	195	20.6	29.9	466	11.0	2.3	.10	.99	1.04	9.6	8.5 D
569	0159	2874.0	5.42	381	507	89	10.1	340	2862.5	9.5	9.6	209	188	20.6	29.9	471	11.5	2.4	.10	1.10	1.14	9.6	8.5 D
570	0206	2874.5	4.18	394	554	88	11.3	430	2862.5	9.5	9.6	207	212	20.6	29.8	471	12.0	2.6	.10	1.18	1.22	9.6	8.5 D
571	0209	2875.0	10.0	416	541	88	9.97	370	2862.5	9.5	9.6	208	189	20.6	29.8	472	12.5	2.6	.10	.97	1.02	9.6	8.5 D
572	0212	2875.5	10.6	440	555	88	10.9	450	2862.5	9.5	9.6	208	194	20.6	29.7	472	13.0	2.7	.10	.98	1.03	9.6	8.5 D
573	0215	2876.0	10.4	396	519	89	11.0	400	2862.5	9.5	9.6	208	213	20.6	29.7	472	13.5	2.7	.10	.99	1.03	9.6	8.5 D
574	0218	2876.5	8.48	393	522	89	10.3	400	2862.5	9.5	9.6	206	193	20.6	29.7	475	14.0	2.8	.10	1.01	1.06	9.6	8.5 D
575	0221	2877.0	11.8	438	574	87	10.7	380	2862.5	9.5	9.6	208	189	20.6	29.7	474	14.5	2.8	.10	.96	1.00	9.6	8.5 D
576	0224	2877.5	10.1	388	490	88	10.5	410	2862.5	9.5	9.6	207	212	20.6	29.6	476	15.0	2.8	.10	.98	1.03	9.6	8.5 D
577	0227	2878.0	10.7	414	527	88	10.4	390	2862.5	9.5	9.6	208	194	20.6	29.6	478	15.5	2.9	.10	.97	1.01	9.6	8.5 D
578	0229	2878.5	12.8	480	596	87	10.7	390	2862.5	9.5	9.6	208	213	20.6	29.6	478	16.0	2.9	.10	.94	.98	9.6	8.5 D
579	0231	2879.0	13.6	504	602	85	10.8	410	2862.5	9.5	9.6	208	193	20.6	29.6	478	16.5	3.0	.10	.92	.97	9.6	8.5 D
580	0234	2879.5	10.9	444	560	78	10.5	410	2862.5	9.5	9.6	208	187	20.6	29.5	480	17.0	3.0	.10	.94	1.00	9.6	8.5 D
581	0237	2880.0	10.9	444	587	74	10.5	390	2862.5	9.5	9.6	209	194	20.6	29.5	480	17.5	3.1	.10	.93	1.00	9.6	8.5 D
582	0240	2880.5	8.94	437	539	73	10.2	400	2862.5	9.5	9.6	208	187	20.6	29.5	480	18.0	3.1	.10	.96	1.03	9.6	8.5 D
† Core No.2: 2862.5m - 2881m. Cut 18.5m. Rec. 9.9m (53.5%)																							
† NB#6 Smith F27D 12.25" with 16,16,14 jets. Start depth 2881m.																							
	Date	Apr 14 '90																					
585	0242	2881.1	5.97	323	366	67	15.2	2790	2809.2	9.5	9.6	684	687	20.6	29.7	568	.11	.6	.00	1.09	1.14	9.9	8.5 D-
586	0246	2882.0	13.8	374	425	88	13.9	2780	2809.2	9.5	9.6	678	683	20.6	29.8	569	.99	.7	.00	.95	.99	9.9	8.5 D
587	0253	2883.0	16.7	431	467	64	23.6	2820	2809.2	9.5	9.6	683	664	20.6	29.8	569	2.00	.7	.00	.97	1.02	9.9	8.5 D†
588	0255	2884.0	26.3	496	672	89	30.6	2810	2809.2	9.5	9.6	685	689	20.6	29.8	570	2.98	.8	.00	1.01	1.06	9.9	8.5 D
589	0258	2885.0	21.0	443	600	91	31.0	2820	2809.2	9.5	9.6	685	665	20.6	29.8	569	4.00	.8	.00	1.08	1.13	9.9	8.5 D
590	0301	2886.0	21.0	424	486	93	29.2	2820	2809.2	9.5	9.6	685	665	20.6	29.8	568	5.00	.9	.00	1.06	1.11	9.9	8.5 D
591	0316	2887.0	42.0	454	517	137	30.9	2850	2809.2	9.5	9.6	690	694	20.6	29.8	526	5.99	.9	.00	1.01	1.04	9.9	8.5 D
592	0321	2888.0	12.4	414	508	129	34.0	2850	2815.6	9.5	9.6	685	664	20.6	29.8	528	7.00	1.0	.00	1.33	1.37	9.9	8.5 D
593	0336	2889.0	8.91	393	768	104	30.3	2850	2838.1	9.5	9.6	688	693	20.6	29.8	528	8.00	1.2	.00	1.33	1.37	9.8	8.5 D
594	0342	2890.0	9.57	400	535	96	32.9	2840	2844.8	9.5	9.6	682	662	20.6	29.8	528	9.00	1.3	.00	1.32	1.37	9.8	8.5 D
595	0346	2891.0	15.3	405	488	90	32.0	2830	2881.8	9.5	9.6	683	687	20.6	29.8	527	10.0	1.3	.00	1.19	1.24	9.6	8.5 D
596	0350	2892.0	15.2	409	479	88	32.9	2840	2882.5	9.5	9.6	685	671	20.6	29.8	527	11.0	1.4	.00	1.20	1.25	9.6	8.5 D
597	0354	2893.0	13.6	385	449	88	31.9	2840	2883.7	9.5	9.6	682	674	20.6	29.8	527	12.0	1.5	.00	1.22	1.27	9.6	8.5 D
598	0508	2894.0	4.40	317	751	87	33.9	2810	2890.2	9.5	9.6	687	673	20.6	29.9	520	12.9	1.7	.00	1.53	1.58	9.6	8.5 D†
599	0530	2895.0	10.7	171	207	87	19.8	2720	2893.1	9.5	9.6	673	678	20.6	29.9	518	14.0	1.8	.00	1.12	1.17	9.6	8.5 D†
600	0533	2896.0	20.0	242	281	97	39.1	2720	2893.4	9.5	9.6	675	657	20.6	29.9	518	15.0	1.9	.00	1.22	1.27	9.6	8.5 D
601	0543	2897.0	15.5	248	297	75	35.3	2840	2893.8	9.5	9.6	682	671	20.6	29.9	518	16.0	1.9	.00	1.18	1.24	9.6	8.5 D
602	0545	2898.0	26.3	255	293	77	39.5	2840	2894.0	9.5	9.6	687	692	20.6	29.9	518	17.0	2.0	.00	1.08	1.14	9.6	8.5 D
603	0548	2899.0	22.0	266	315	87	43.4	2850	2894.2	9.5	9.6	688	692	20.6	29.9	517	18.0	2.0	.00	1.20	1.25	9.6	8.5 D
604	0550	2900.0	23.1	269	325	87	42.4	2850	2894.2	9.5	9.6	690	669	20.6	29.9	518	19.0	2.1	.00	1.18	1.23	9.6	8.5 D
605	0552	2901.0	38.3	270	321	90	43.6	2860	2894.2	9.5	9.6	689	668	20.6	29.9	517	20.0	2.1	.00	1.05	1.11	9.6	8.5 D
606	0553	2902.0	38.2	384	597	84	39.7	2860	2894.2	9.5	9.6	688	669	20.6	29.9	517	21.0	2.1	.00	1.00	1.06	9.6	8.5 D
607	0556	2903.0	26.5	262	376	87	40.2	2850	2894.2	9.5	9.6	689	691	20.6	29.9	517	22.0	2.2	.00	1.12	1.17	9.6	8.5 D
608	0606	2904.0	13.5	361	631	77	36.6	2870	2894.2	9.5	9.6	689	676	20.6	29.9	518	23.0	2.3	.00	1.23	1.29	9.6	8.5 D†
609	0619	2905.0	31.5	209	277	75	27.2	2830	2894.2	9.5	9.6	684	663	20.6	29.9	516	24.0	2.3	.00	.92	.97	9.6	8.5 D†
610	0621	2906.0	30.0	302	599	79	39.4	2830	2894.2	9.5	9.6	685	677	20.6	29.9	516	25.0	2.4	.00	1.05	1.11	9.6	8.5 D
611	0625	2907.0	14.6	356	606	76	37.9	2850	2894.2	9.5	9.6	686	690	19.5	30.0	517	26.0	2.4	.00	1.22	1.28	9.6	8.5 D
612	0629	2908.0	14.2	284	369	82	36.5	2860	2894.2	9.5	9.6	684	664	19.5	30.0	516	27.0	2.5	.00	1.24	1.29	9.6	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 03:13 Date Apr 19 '90
Data Recorded at time 06:38 Date Apr 14 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
613	0638	2909.0	17.5	270	586	90	32.6	2860	2894.2	9.5	9.6	683	662	19.5	30.0	517	28.0	2.6	.00	1.16	1.21	9.6	8.5 D
614	0647	2910.0	10.2	232	590	89	41.1	2850	2894.2	9.5	9.6	685	672	19.5	30.0	516	29.0	2.7	.00	1.39	1.45	9.6	8.5 D↑
615	0653	2911.0	10.9	220	377	91	36.2	2820	2894.7	9.5	9.6	681	671	19.4	30.0	516	30.0	2.8	.00	1.33	1.38	9.6	8.5 D
616	0655	2912.0	34.7	247	367	89	39.4	2820	2894.9	9.5	9.6	681	672	19.4	30.0	516	31.0	2.8	.00	1.04	1.09	9.6	8.5 D
617	0656	2913.0	41.6	278	429	87	37.4	2820	2895.0	9.5	9.6	681	672	19.4	30.0	516	32.0	2.9	.00	.97	1.02	9.6	8.5 D
618	0708	2914.0	22.7	243	464	89	32.8	2780	2896.1	9.5	9.6	674	653	19.4	30.0	514	32.9	2.9	.00	1.10	1.15	9.6	8.5 DX
619	0709	2915.0	68.1	242	295	103	37.9	2790	2896.3	9.5	9.6	672	678	19.4	30.0	514	34.0	2.9	.01	.89	.94	9.7	8.5 D
620	0719	2916.0	56.8	319	588	95	36.8	2780	2897.5	9.5	9.6	673	653	19.3	30.0	513	35.0	3.0	.01	.91	.96	9.7	8.5 D↑
621	0806	2917.0	3.69	302	697	91	7.83	2770	2909.5	9.5	9.6	675	654	19.0	30.0	515	36.0	3.5	.02	1.11	1.14	9.6	8.5 D
622	0807	2918.0	59.2	221	283	84	22.2	2770	2909.5	9.5	9.6	676	662	19.0	30.0	516	37.0	3.5	.02	.75	.80	9.6	8.5 D
623	0807	2919.0	86.7	272	318	85	39.0	2760	2909.5	9.5	9.6	674	660	19.0	30.0	515	38.0	3.5	.02	.78	.84	9.6	8.5 D
624	0808	2920.0	53.0	287	469	92	42.1	2770	2909.5	9.5	9.6	675	654	19.0	30.0	514	39.0	3.5	.02	.96	1.01	9.6	8.5 D
625	0810	2921.0	44.8	339	560	89	35.9	2770	2909.6	9.5	9.6	674	659	19.0	30.0	514	40.0	3.5	.02	.95	1.00	9.6	8.5 D
626	0817	2922.0	16.3	315	685	89	25.0	2760	2911.0	9.5	9.6	674	660	19.1	30.0	514	41.0	3.6	.02	1.10	1.14	9.6	8.5 D
627	0819	2923.0	31.8	363	603	84	22.7	2810	2911.2	9.5	9.6	680	673	19.1	30.0	514	42.0	3.7	.02	.90	.94	9.6	8.5 D
628	0834	2924.0	34.6	229	386	96	20.7	2780	2911.9	9.5	9.6	671	650	19.0	29.9	512	43.0	3.7	.03	.89	.93	9.6	8.5 D↑
629	0835	2925.0	51.2	300	378	101	39.2	2780	2912.3	9.5	9.6	672	659	19.0	29.9	512	44.0	3.7	.03	.97	1.02	9.6	8.5 D
630	0844	2926.0	23.1	381	733	96	44.1	2800	2915.2	9.5	9.6	672	658	19.0	29.9	511	45.0	3.8	.03	1.22	1.27	9.6	8.5 D↑
631	0847	2927.0	15.2	300	647	100	24.3	2790	2915.3	9.5	9.6	672	651	18.9	29.9	512	46.0	3.8	.03	1.13	1.17	9.6	8.5 D
632	0858	2928.0	15.4	345	736	98	27.5	2880	2917.3	9.5	9.6	684	687	18.8	29.8	507	47.0	4.0	.04	1.16	1.21	9.6	8.5 D
633	0902	2929.0	16.2	317	602	91	29.9	2880	2917.7	9.5	9.6	684	686	18.8	29.8	504	48.0	4.0	.04	1.16	1.21	9.6	8.5 D
634	0905	2930.0	20.1	318	515	87	39.8	2880	2917.8	9.5	9.6	686	664	18.7	29.8	506	49.0	4.1	.04	1.19	1.24	9.6	8.5 D
635	0915	2931.0	14.4	320	703	86	36.5	2890	2917.8	9.5	9.6	685	689	18.6	29.8	504	50.0	4.2	.04	1.25	1.30	9.6	8.5 D
636	0920	2932.0	12.7	304	655	90	37.6	2880	2917.8	9.5	9.6	684	686	18.6	29.8	504	51.0	4.3	.05	1.30	1.35	9.6	8.5 D
637	0939	2933.0	14.5	413	759	90	34.3	2800	2918.0	9.5	9.6	672	651	18.8	29.8	502	52.0	4.4	.05	1.23	1.28	9.6	8.5 D↑
638	0941	2934.0	14.5	251	311	108	26.2	2810	2918.0	9.5	9.6	673	659	18.8	29.8	502	53.0	4.4	.05	1.18	1.22	9.6	8.5 D-
639	0945	2935.0	15.7	354	679	107	37.4	2800	2918.0	9.5	9.6	675	661	18.8	29.8	502	54.0	4.5	.05	1.29	1.33	9.6	8.5 D
640	0949	2936.0	14.4	334	588	107	37.6	2810	2919.1	9.5	9.6	676	655	18.9	29.8	502	55.0	4.5	.06	1.31	1.36	9.6	8.5 D
641	0953	2937.0	17.2	324	639	104	37.3	2800	2922.0	9.5	9.6	673	651	18.9	29.8	502	56.0	4.6	.06	1.25	1.30	9.6	8.5 D
642	1005	2938.0	10.2	288	819	102	23.5	2800	2925.0	9.5	9.6	676	680	18.8	29.7	502	57.0	4.8	.06	1.22	1.26	9.6	8.5 D
643	1008	2939.0	17.4	236	259	86	32.7	2790	2925.0	9.5	9.6	675	654	18.8	29.7	502	58.0	4.8	.07	1.15	1.20	9.6	8.5 D
644	1010	2940.0	31.5	342	585	84	40.2	2800	2925.7	9.5	9.6	674	677	18.8	29.7	501	59.0	4.8	.07	1.06	1.11	9.6	8.5 D
645	1031	2941.0	13.6	411	857	80	23.0	2800	2928.7	9.5	9.6	678	664	18.6	29.7	502	60.0	5.0	.07	1.09	1.13	9.6	8.5 D
646	1043	2942.0	13.5	305	853	86	18.0	2790	2932.0	9.5	9.6	675	654	18.6	29.7	503	61.0	5.1	.07	1.04	1.08	9.6	8.5 D
647	1100	2943.0	10.2	314	788	85	19.9	2790	2934.0	9.5	9.6	670	667	18.5	29.7	505	62.0	5.2	.07	1.13	1.17	9.6	8.5 DX
648	1102	2944.0	37.6	365	648	96	28.4	2830	2934.3	9.5	9.6	680	684	18.5	29.7	505	63.0	5.2	.08	.95	.99	9.6	8.5 D
649	1111	2945.0	6.51	258	429	100	31.3	2840	2934.8	9.5	9.6	682	668	18.5	29.6	506	64.0	5.4	.08	1.43	1.47	9.6	8.5 D
650	1136	2946.0	5.09	239	745	85	27.7	2810	2938.3	9.5	9.6	675	661	18.4	29.5	510	65.0	5.6	.09	1.40	1.45	9.6	8.5 D
651	1152	2947.0	3.67	266	529	81	29.0	2810	2941.6	9.5	9.6	675	654	18.5	29.5	508	66.0	5.9	.10	1.49	1.54	9.6	8.5 D
652	1201	2948.0	6.88	242	471	82	39.3	2810	2941.6	9.5	9.6	673	652	18.5	29.5	509	67.0	6.1	.10	1.46	1.52	9.6	8.5 D
653	1209	2949.0	7.74	232	350	83	44.3	2800	2942.3	9.5	9.6	676	663	18.5	29.5	507	68.0	6.2	.10	1.49	1.54	9.6	8.5 D
654	1225	2950.0	3.73	248	433	82	44.0	2800	2943.7	9.5	9.6	673	676	18.5	29.5	507	69.0	6.5	.11	1.69	1.74	9.6	8.5 D
655	1237	2951.0	31.8	343	759	84	35.2	2800	2945.4	9.5	9.6	674	653	18.4	29.4	508	70.0	6.5	.12	1.02	1.07	9.6	8.5 D
656	1241	2952.0	17.5	204	316	88	32.5	2800	2945.8	9.5	9.6	678	656	18.3	29.4	509	71.0	6.6	.12	1.16	1.21	9.6	8.5 D
657	1305	2953.0	3.93	223	375	100	44.3	2840	2946.5	9.5	9.6	681	672	18.2	29.2	520	72.0	6.9	.13	1.73	1.78	9.6	8.5 D
658	1313	2954.0	7.86	232	313	94	44.0	2850	2947.1	9.5	9.6	682	686	18.1	29.2	528	73.0	7.0	.13	1.52	1.56	9.6	8.5 D
659	1317	2955.0	12.3	295	511	82	43.5	2850	2947.4	9.5	9.6	685	690	18.1	29.2	531	74.0	7.1	.14	1.35	1.40	9.6	8.5 D
660	1322	2956.0	14.8	260	600	83	42.0	2840	2947.7	9.5	9.6	684	670	18.1	29.2	535	75.0	7.1	.14	1.28	1.34	9.6	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 03:16 Date Apr 19 '90
Data Recorded at time 13:25 Date Apr 14 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS m	BIT- hr	EST TW	DXC	NXB	ECD	NXMD
661	1325	2957.0	19.6	268	357	82	43.7	2850	2947.9	9.5	9.6	685	664	18.0	29.2	535	176.0	7.2	.14	1.22	1.27	9.6	8.5 D
662	1329	2958.0	13.1	323	551	83	43.5	2860	2948.1	9.5	9.6	682	687	18.0	29.1	534	177.0	7.3	.14	1.33	1.38	9.6	8.5 D
663	1338	2959.0	23.3	345	835	85	35.0	2860	2949.1	9.5	9.6	684	688	18.0	29.1	532	178.0	7.3	.15	1.10	1.15	9.6	8.5 D
664	1341	2960.0	17.4	269	480	82	24.8	2860	2949.6	9.5	9.6	684	670	18.0	29.1	533	179.0	7.4	.15	1.06	1.10	9.6	8.5 D
665	1351	2961.0	12.8	308	792	88	25.4	2860	2950.4	9.5	9.6	684	663	18.1	29.1	533	180.0	7.5	.15	1.15	1.20	9.6	8.5 D
666	1356	2962.0	12.1	239	413	93	25.0	2870	2950.6	9.5	9.6	683	663	18.1	29.1	535	181.0	7.6	.15	1.18	1.22	9.6	8.5 D
667	1415	2963.0	10.8	254	433	82	42.1	2870	2951.9	9.5	9.6	681	667	18.1	29.1	533	182.0	7.8	.16	1.37	1.42	9.6	8.5 D
668	1422	2964.0	9.16	226	442	83	43.3	2860	2953.1	9.5	9.6	685	665	18.0	29.1	532	183.0	7.9	.16	1.43	1.48	9.6	8.5 D
669	1430	2965.0	7.34	272	489	83	43.4	2870	2953.3	9.5	9.6	683	662	17.9	29.1	532	184.0	8.0	.17	1.49	1.54	9.6	8.5 D
670	1437	2966.0	8.75	206	321	82	43.4	2870	2953.7	9.5	9.6	682	662	17.9	29.0	531	185.0	8.1	.17	1.44	1.49	9.6	8.5 D
671	1448	2967.0	5.76	200	319	84	43.2	2860	2954.6	9.5	9.6	680	671	17.8	29.0	532	186.0	8.3	.18	1.56	1.61	9.6	8.5 D
672	1454	2968.0	10.5	217	308	85	42.7	2870	2955.7	9.5	9.6	680	666	17.8	29.0	530	187.0	8.4	.18	1.39	1.44	9.6	8.5 D
673	1504	2969.0	6.18	213	265	83	43.3	2870	2958.1	9.5	9.6	682	686	17.8	28.9	530	188.0	8.6	.19	1.54	1.59	9.6	8.5 D
674	1506	2970.0	23.8	236	256	83	41.7	2870	2958.8	9.5	9.6	681	660	17.8	28.9	531	189.0	8.6	.19	1.15	1.20	9.6	8.5 D
675	1509	2971.0	21.9	272	510	83	41.9	2820	2959.4	9.5	9.6	682	661	17.8	28.9	532	190.0	8.6	.19	1.17	1.22	9.6	8.5 D
676	1522	2972.0	32.5	266	430	93	41.6	2820	2959.8	9.5	9.6	672	679	17.8	28.9	528	191.0	8.7	.19	1.09	1.14	9.6	8.5 D
677	1525	2973.0	23.8	242	295	101	43.3	2820	2960.4	9.5	9.6	671	651	17.8	28.8	529	192.0	8.7	.19	1.21	1.26	9.6	8.5 D
678	1527	2974.0	24.5	217	279	101	42.8	2820	2961.1	9.5	9.6	674	677	17.8	28.8	529	193.0	8.8	.19	1.20	1.25	9.6	8.5 D
679	1529	2975.0	33.7	215	277	101	43.5	2820	2961.2	9.5	9.6	672	651	17.8	28.8	528	194.0	8.8	.19	1.12	1.16	9.6	8.5 D
680	1541	2976.0	14.1	303	748	99	40.6	2760	2962.7	9.5	9.6	674	678	17.7	28.8	527	195.0	8.9	.20	1.33	1.37	9.6	8.5 D
681	1544	2977.0	21.4	241	442	97	24.5	2820	2962.7	9.5	9.6	672	659	17.6	28.8	527	196.0	9.0	.20	1.04	1.08	9.6	8.5 D
682	1547	2978.0	19.6	213	262	98	37.6	2820	2962.7	9.5	9.6	673	652	17.6	28.8	526	197.0	9.0	.20	1.21	1.25	9.6	8.5 D
683	1550	2979.0	23.7	235	325	100	40.8	2820	2963.0	9.5	9.6	672	663	17.6	28.8	527	198.0	9.1	.20	1.19	1.23	9.6	8.5 D
[illegible]	1553	2980.0	17.7	347	756	92	41.6	2820	2963.6	9.5	9.6	674	653	17.5	28.7	526	199.0	9.1	.21	1.26	1.30	9.6	8.5 D↑
685	1606	2981.0	11.5	245	495	83	38.0	2900	2965.1	9.5	9.6	657	663	17.4	28.7	524	100	9.2	.21	1.31	1.36	9.6	8.5 DX
686	1609	2982.0	20.3	255	424	98	43.8	2810	2965.5	9.5	9.6	671	651	17.5	28.7	525	101	9.3	.21	1.25	1.30	9.6	8.5 D
687	1614	2983.0	12.3	233	350	85	44.2	2880	2966.1	9.5	9.6	680	666	17.5	28.7	523	102	9.3	.21	1.36	1.41	9.6	8.5 D
688	1619	2984.0	13.2	243	327	82	43.2	2890	2966.6	9.5	9.6	680	670	17.5	28.7	523	103	9.4	.22	1.32	1.37	9.6	8.5 D
689	1626	2985.0	16.4	267	671	84	42.3	2880	2967.6	9.5	9.6	680	682	17.4	28.7	522	104	9.5	.22	1.26	1.31	9.6	8.5 D↑
690	1629	2986.0	21.1	259	429	88	41.9	2880	2967.8	9.5	9.6	679	670	17.4	28.7	522	105	9.6	.22	1.20	1.24	9.6	8.5 D
691	1631	2987.0	31.5	245	361	84	43.4	2870	2968.0	9.5	9.6	679	666	17.4	28.7	522	106	9.6	.22	1.09	1.13	9.7	8.5 D
692	1639	2988.0	7.53	222	320	85	44.3	2880	2969.2	9.5	9.6	677	682	17.3	28.6	522	107	9.7	.23	1.50	1.54	9.7	8.5 D
693	1645	2989.0	9.63	225	273	84	44.0	2870	2969.8	9.5	9.6	676	662	17.3	28.6	523	108	9.8	.23	1.42	1.47	9.7	8.5 D
694	1647	2990.0	35.0	239	286	84	43.9	2880	2970.0	9.5	9.6	678	681	17.3	28.6	521	109	9.9	.23	1.06	1.11	9.7	8.5 D
695	1710	2991.0	10.8	274	594	90	44.7	2880	2974.0	9.5	9.6	669	665	17.3	28.5	520	110	10.0	.23	1.42	1.46	9.6	8.5 D
696	1720	2992.0	5.63	234	341	103	46.1	2910	2976.9	9.5	9.6	681	661	17.3	28.5	516	111	10.1	.24	1.65	1.70	9.6	8.5 D
697	1729	2993.0	11.1	331	818	92	37.8	2900	2977.7	9.5	9.6	680	686	17.2	28.4	517	112	10.2	.25	1.34	1.39	9.6	8.5 D↑
698	1733	2994.0	14.2	274	341	97	39.8	2900	2979.1	9.5	9.6	683	662	17.1	28.4	514	113	10.3	.25	1.31	1.35	9.6	8.5 D
699	1737	2995.0	12.7	325	604	96	39.8	2860	2980.7	9.5	9.6	681	660	17.0	28.4	514	114	10.4	.25	1.34	1.38	9.6	8.5 D
700	1742	2996.0	12.5	300	455	96	39.8	2860	2981.7	9.5	9.6	678	657	17.0	28.4	516	115	10.5	.25	1.35	1.39	9.6	8.5 D
701	1747	2997.0	13.7	292	451	86	40.5	2860	2982.1	9.5	9.6	677	682	16.9	28.4	513	116	10.5	.26	1.30	1.34	9.6	8.5 D
702	1752	2998.0	10.7	313	690	81	40.4	2870	2983.3	9.5	9.6	680	660	16.9	28.4	515	117	10.6	.26	1.34	1.39	9.6	8.5 D
703	1758	2999.0	11.0	290	561	83	42.0	2860	2984.2	9.5	9.6	679	660	16.9	28.4	512	118	10.7	.26	1.36	1.41	9.6	8.5 D
704	1803	3000.0	11.1	244	483	83	40.7	2850	2985.5	9.5	9.6	679	666	16.9	28.3	510	119	10.8	.27	1.34	1.39	9.6	8.5 D
705	1817	3001.0	14.5	258	358	96	41.1	2910	2987.7	9.5	9.6	684	663	16.9	28.3	507	120	10.9	.27	1.32	1.36	9.6	8.5 D↑
706	1821	3002.0	16.0	274	458	101	41.5	2910	2988.6	9.5	9.6	683	668	16.9	28.3	507	121	11.0	.27	1.31	1.35	9.6	8.5 D
707	1825	3003.0	15.3	231	286	91	40.5	2920	2989.0	9.5	9.6	680	661	16.9	28.3	504	122	11.0	.27	1.28	1.33	9.6	8.5 D
708	1828	3004.0	20.8	227	281	85	40.4	2890	2989.2	9.5	9.6	678	681	16.9	28.3	504	123	11.1	.28	1.18	1.22	9.6	8.5 D

ESSO AUSTRALIA: Terakihi No.1

Data Printed at time 03:19 Date Apr 19 '90
Data Recorded at time 18:31 Date Apr 14 '90

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MD lb/gal IN	MD lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	-THIS BIT- m	-THIS BIT- hr	EST TW	DXC	NXB	ECD	NXMD	
709	1831	3005.0	17.9	239	278	82	41.6	2880	2990.0	9.5	9.6	679	664	16.9	28.3	505	124	11.1	.28	1.22	1.27	9.6	8.5	D
710	1835	3006.0	17.0	243	302	84	41.1	2890	2991.2	9.5	9.6	682	662	16.8	28.3	502	125	11.2	.28	1.24	1.28	9.6	8.5	D
711	1842	3007.0	19.2	277	716	84	38.4	2930	2991.6	9.5	9.6	685	663	16.8	28.3	504	126	11.3	.28	1.18	1.22	9.6	8.5	D
712	1845	3008.0	18.4	277	388	91	41.1	2920	2991.6	9.5	9.6	685	672	16.8	28.3	504	127	11.3	.28	1.24	1.28	9.6	8.5	D
713	1852	3009.0	7.97	227	298	91	41.8	2920	2992.5	9.5	9.6	681	687	16.8	28.2	503	128	11.5	.29	1.47	1.52	9.6	8.5	D
714	1913	3010.0	20.5	249	334	95	41.0	2890	2994.3	9.5	9.6	668	660	17.0	28.2	500	129	11.5	.29	1.22	1.26	9.6	8.5	D†
715	1916	3011.0	15.0	250	329	100	42.6	2880	2995.2	9.5	9.6	677	681	17.0	28.2	501	130	11.6	.29	1.33	1.37	9.6	8.5	D
716	1919	3012.0	19.9	272	337	100	40.6	2890	2995.8	9.5	9.6	678	682	17.0	28.2	496	131	11.6	.30	1.24	1.28	9.6	8.5	D
717	1922	3013.0	19.9	306	576	99	40.5	2880	2996.4	9.5	9.6	678	669	17.0	28.2	500	132	11.7	.30	1.23	1.27	9.6	8.5	D
718	1926	3014.0	14.3	369	749	97	41.1	2840	2997.4	9.5	9.6	678	658	17.1	28.1	499	133	11.7	.30	1.32	1.37	9.6	8.5	D
719	1931	3015.0	14.6	301	514	97	40.7	2880	2998.2	9.5	9.6	676	662	17.1	28.1	499	134	11.8	.30	1.31	1.36	9.6	8.5	D
720	1934	3016.0	16.5	263	320	83	40.2	2890	2998.8	9.5	9.6	676	667	17.1	28.1	499	135	11.9	.30	1.23	1.28	9.6	8.5	D
721	1940	3017.0	11.2	300	466	83	41.6	2890	2999.8	9.5	9.6	675	679	17.1	28.1	500	136	12.0	.31	1.35	1.40	9.6	8.5	D
722	1944	3018.0	12.8	273	337	83	41.1	2880	3000.6	9.5	9.6	675	654	17.1	28.1	497	137	12.0	.31	1.31	1.36	9.6	8.5	D
723	1951	3019.0	9.52	265	348	81	41.7	2890	3001.3	9.5	9.6	680	670	17.1	28.0	496	138	12.1	.31	1.39	1.44	9.6	8.5	D
724	2004	3020.0	13.0	287	452	82	41.2	2880	3003.1	9.5	9.6	679	658	17.1	28.0	496	139	12.2	.32	1.30	1.35	9.6	8.5	D
725	2008	3021.0	16.7	267	315	81	40.3	2880	3004.3	9.5	9.6	677	662	17.2	28.0	497	140	12.3	.32	1.22	1.27	9.6	8.5	D
726	2012	3022.0	14.5	269	306	80	40.5	2880	3005.6	9.5	9.6	677	668	17.2	28.0	495	141	12.4	.32	1.26	1.31	9.6	8.5	D
727	2017	3023.0	13.3	266	299	81	40.8	2880	3006.8	9.5	9.6	677	656	17.2	28.0	495	142	12.4	.32	1.29	1.34	9.6	8.5	D
728	2020	3024.0	15.7	275	403	81	41.0	2870	3007.7	9.5	9.6	676	666	17.2	28.0	493	143	12.5	.32	1.25	1.29	9.6	8.5	D
729	2025	3025.0	14.2	262	312	82	39.8	2880	3008.1	9.5	9.6	677	656	17.2	28.0	497	144	12.6	.33	1.26	1.31	9.6	8.5	D
730	2027	3026.0	22.5	272	356	81	40.4	2890	3008.6	9.5	9.6	677	663	17.1	27.9	492	145	12.6	.33	1.14	1.19	9.6	8.5	D
731	2036	3027.0	18.0	352	823	82	34.3	2910	3010.2	9.5	9.6	679	664	17.1	27.9	491	146	12.7	.33	1.15	1.19	9.6	8.5	D†
732	2040	3028.0	15.1	251	305	89	35.8	2900	3010.6	9.5	9.6	679	684	17.1	27.9	491	147	12.8	.33	1.23	1.27	9.6	8.5	D
733	2058	3029.0	7.47	234	352	92	41.4	2870	3011.9	9.5	9.6	674	677	17.1	27.9	488	148	12.9	.34	1.49	1.53	9.6	8.5	D
734	2109	3030.0	5.38	212	284	93	42.5	2880	3015.1	9.5	9.6	674	660	17.1	27.9	489	149	13.1	.34	1.60	1.64	9.6	8.5	D
735	2132	3031.0	2.71	193	331	83	43.8	2880	3019.9	9.5	9.6	675	654	17.0	27.9	485	150	13.5	.36	1.77	1.82	9.6	8.5	D
736	2211	3032.0	1.66	175	221	83	48.2	2860	3027.8	9.5	9.6	674	654	17.1	27.9	472	151	14.1	.38	1.98	2.02	9.6	8.5	D
737	2238	3033.0	2.21	208	316	82	48.6	2860	3030.4	9.5	9.6	674	653	17.1	27.8	461	152	14.6	.39	1.90	1.94	9.6	8.5	D
738	2254	3034.0	3.79	225	320	83	49.2	2870	3031.4	9.5	9.6	674	660	17.1	27.8	453	153	14.8	.40	1.75	1.80	9.6	8.5	D
739	2301	3035.0	7.96	269	395	84	48.0	2860	3031.7	9.5	9.6	674	652	17.1	27.8	449	154	15.0	.41	1.53	1.57	9.6	8.5	D
740	2312	3036.0	5.66	231	334	83	46.8	2870	3032.0	9.5	9.6	675	654	17.1	27.7	448	155	15.1	.41	1.61	1.65	9.6	8.5	D
741	2314	3037.0	22.9	290	349	82	47.7	2880	3032.1	9.5	9.6	674	653	17.1	27.7	447	156	15.2	.41	1.21	1.25	9.6	8.5	D
742	2333	3038.0	12.7	443	848	82	46.7	2930	3032.5	9.5	9.6	674	656	17.2	27.7	441	157	15.3	.42	1.37	1.42	9.6	8.5	D‡
743	2336	3039.0	18.9	283	392	99	40.9	2920	3032.5	9.5	9.6	681	668	17.2	27.7	441	158	15.3	.42	1.25	1.29	9.6	8.5	D
744	2338	3040.0	20.7	328	513	102	46.6	2920	3032.6	9.5	9.6	679	682	17.2	27.7	440	159	15.4	.42	1.29	1.33	9.6	8.5	D

+ Drill to 3040m. Circulate bottoms up and run 10 stand wiper trip.
‡ Circulate bottoms up again and POOH.
† Run wireline logs.

v. Drill Data Plot 1:2500

PE602111

PE602111

This is an enclosure indicator page.
The enclosure PE602111 is enclosed within the container PE903385 at this location in this document.

The enclosure PE602111 has the following characteristics:

ITEM_BARCODE	= PE602111
CONTAINER_BARCODE	= PE903385
NAME	= Drilling Data Log
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= WELL_LOG
DESCRIPTION	= Drilling Data Log, 1:2500, (enclosure from Final Well Report--attachment to WCR) for Terakihi-1
REMARKS	=
DATE_CREATED	=
DATE_RECEIVED	= 22/06/90
W_NO	= W1025
WELL_NAME	= Terakihi-1
CONTRACTOR	= EXLOG
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

vi. Drill Cost Plot 1:2500

PE602112

PE602112

This is an enclosure indicator page.
The enclosure PE602112 is enclosed within the container PE903385 at this location in this document.

The enclosure PE602112 has the following characteristics:

ITEM_BARCODE	= PE602112
CONTAINER_BARCODE	= PE903385
NAME	= Drilling Data Cost Plot
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= WELL_LOG
DESCRIPTION	= Drilling Data Cost Plot (enclosure from Final Well Report--attachment to WCR) for Terakihi-1
REMARKS	=
DATE_CREATED	=
DATE_RECEIVED	= 22/06/90
W_NO	= W1025
WELL_NAME	= Terakihi-1
CONTRACTOR	= EXLOG
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

C. ENGINEERING DATA

i. Daily Geological-Engineering Reports

GEMDAS LOGGING REPORT NO. 1

COMPANY ESSO AUSTRALIA WELL TERAKIHI # 1

DATE 31/3/1990 TIME 0600 Hrs

DEPTH 551m LAST REPORT DEPTH —

RIG OPERATIONS POOH after cementing 20" Casing

REPORT BY D THORNTON REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: RRB # 1 Type: H.T.C. Size: 26" Jets: 20 · 20 · 20

On Bit: Footage: 127m Hours: 3.3 ROP: 38.5 avg. WOB: 1-10 RPM: 80

Pump Press: 300 - 1000 SPM: 80 - 190 Torque: — TBR: 16325 CP I: $ — CP B: $ —

HYDRAULICS REPORT

Mud Density In: 8.7 Mud Density Out: — ECD: 8.8 - 9.4 PV/YP: Seawater

Gels: — Salinity: — PPM Cl Solids: — %

Hole Volume: 1182 Annular Volume: 1123 Tubing Volume: 28 Displaced Volume: 30

Carbide Lag—Calculated Lag: — Flowrate: —

Drillpipe Annular Vel (Max. Dia. Sec.): 35.8 Drillpipe Annular Vel (Open Hole): 35.8

Drill Collar Annular Vel (Open Hole): 40.1 Critical Vel: 67

Pressure Loss System: 1000 Pressure Loss Bit: 852 % Pressure Loss: 35

Nozzel Vel: 331 Jet Impact Force: 472 HHP: 1917

PRESSURE PARAMETERS

Drilling Exponent: 0.33 - 0.94 Flowline Temperature: —

Shale Density: — Shale Factor: —

Background Gas: — Max. Formation Gas: — @ _____ Trip Gas: — @ _____

Other Gas: —

Fill: NONE Tight Hole: NONE

Cavings: Est %: — Average Size: —

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: — Min. Estimated Fracture Pressure (Open Hole): —

Estimated Pore Pressure: 8.5 Min. Estimated Pore Pressure (Open Hole): 8.5 @ Seabed

Max. Estimated Pore Pressure (Open Hole): 8.5 @ 551m Estimated Fracture Pressure at TD: —

Comments:

* Hole volumes assume 26" hole to flow line. These calculations will be correct after riser has been installed.

** Terakihi #1 Spudded at 0630 Hours on the 31/3/90.

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 2

COMPANY ESSO AUSTRALIA WELL TERAKIHI

DATE 1/4/1990 TIME 0600 Hours

DEPTH 551m LAST REPORT DEPTH 551 m

RIG OPERATIONS RUNNING MARINE RISER

REPORT BY D. THORNTON REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: _____ Type: _____ Size: _____ Jets: _____

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: 8.7 Mud Density Out: — ECD: — PV/YP: seawater

Gels: — Salinity: — PPM Cl Solids: — %

Hole Volume: _____ Annular Volume: _____ Tubing Volume: _____ Displaced Volume: _____

Carbide Lag—Calculated Lag: _____ Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: — Flowline Temperature: —

Shale Density: — Shale Factor: —

Background Gas: — Max. Formation Gas: — @ _____ Trip Gas: — @ _____

Other Gas: —

Fill: — Tight Hole: —

Cavings: Est %: — Average Size: —

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: — Min. Estimated Fracture Pressure (Open Hole): —

Estimated Pore Pressure: 8.5 Min. Estimated Pore Pressure (Open Hole): 8.5 @ Sealed

Max. Estimated Pore Pressure (Open Hole): 8.5 @ 551m Estimated Fracture Pressure at TD: —

Comments: —

GEMDAS LOGGING REPORT NO. 3

COMPANY ESSO AUSTRALIA WELL TERAKIHI # 1

DATE 2/4/1990 TIME 0500 Hours

DEPTH 780 m. LAST REPORT DEPTH 551m

RIG OPERATIONS Drilling Ahead

REPORT BY D. THORNTON REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: #2 Type: HTC X3A Size: 17½" Jets: 18:18:16

On Bit: Footage: 228 Hours: 3.6 ROP: 50-100 m/hr WOB: 5-15 RPM: 100-120

Pump Press: 2620 SPM: 191 Torque: 160-238 TBR: 23368 CP I: $ — CP B: $ —

HYDRAULICS REPORT

Mud Density In: 8.7 Mud Density Out: 8.7 ECD: 9.11 PV/YP: 3/1

Gels: 1/1 Salinity: Seawater PPM Cl Solids: 1 %

Hole Volume: 817 Annular Volume: 734 Tubing Volume: 37 Displaced Volume: 9-1

Carbide Lag—Calculated Lag: — Flowrate: 939

Drillpipe Annular Vel (Max. Dia. Sec.): 67.5 Drillpipe Annular Vel (Open Hole): — 81.8

Drill Collar Annular Vel (Open Hole): 108.9 Critical Vel: 30.7

Pressure Loss System: 2620 Pressure Loss Bit: 1465 % Pressure Loss: 42

Nozzel Vel: 434.3 Jet Impact Force: 1835.3 HHP: 802.2

PRESSURE PARAMETERS

Drilling Exponent: 0.50 - 0.8 Flowline Temperature: 23.6 (max)

Shale Density: — Shale Factor: —

Background Gas: 5-10 u. Max. Formation Gas: — @ — Trip Gas: 50 u @ 551m

Other Gas: maximum connection gas 100 u @ 616m, Zero C.G. @ 700m

Fill: NONE Tight Hole: NONE

Cavings: Est %: NONE Average Size: —

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: — Min. Estimated Fracture Pressure (Open Hole): —

Estimated Pore Pressure: 8.67 Min. Estimated Pore Pressure (Open Hole): 8.5 @ T.D.

Max. Estimated Pore Pressure (Open Hole): 8.67 @ T.D. Estimated Fracture Pressure at TD: —

Comments:

* Connection Gas Peaked at 100u at a depth of 616m, from this point C.G. decreased to zero at 700m. The source of the gas is probably biogenic. The base of this biogenic generating window appears to be around 700m

** Hydraulics programme not predicting surface pressures accurately. Problem will be rectified

EXLOG (SM) GEMDAS LOGGING REPORT NO. 4

COMPANY ESSO AUST WELL TERAKIHI #1

DATE 02.04.90 TIME 2400

DEPTH 1141m LAST REPORT DEPTH 780m

RIG OPERATIONS PULLING OUT OF HOLE TO RUN LOGS AND CASING

REPORT BY [signature] REPORT RECEIVED BY _____ SIGNED (OPERATOR)

DRILLING REPORT

Bit No.: 2 Type: HTC X3A Size: 17 1/2" Jets: 18, 18, 16

On Bit: Footage: 590m Hours: 11.1 ROP: 53.2 m/HR WOB: 10-35klb RPM: 120-130

Pump Press: 2900psi SPM: 180 Torque: 250-350AMP TBR: 77,900 CP I: $ 150/m CP B: $ 109/m

HYDRAULICS REPORT

Mud Density In: 9.4+ Mud Density Out: 9.5 ECD: 9.61 PV/YP: 5/5

Gels: 4/6 Salinity: 15,000 PPM Cl Solids: 4 %

Hole Volume: 1194 bbl Annular Volume: 1084 bbl Tubing Volume: 60 bbl Displaced Volume: 50 bbl

~~Carbide Lag~~—Calculated Lag: 9104 STK Flowrate: 930 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 66.9 FT/MIN Drillpipe Annular Vel (Open Hole): 81 FT/MIN

Drill Collar Annular Vel (Open Hole): 94.1 FT/MIN Critical Vel: 106.8 FT/MIN

Pressure Loss System: 2373 psi Pressure Loss Bit: 1562 psi % Pressure Loss: 66

Nozzel Vel: 430.3 FT/SEC Jet Impact Force: 1957.5 HHP: 947.8

PRESSURE PARAMETERS

Drilling Exponent: 0.5-1.0 Flowline Temperature: 26.1°C

Shale Density: — Shale Factor: —

Background Gas: 15u Max. Formation Gas: 25u @ 1080m Trip Gas: 255u @ 1141m.

Other Gas: CONNECTION GAS - SEE BELOW.

Fill: NILL Tight Hole: OVERPULL ON FIRST 15 STANDS WITH MAX OF 50klb

Cavings: Est %: TRACE Average Size: 10 x 10 x 10 mm

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: — Min. Estimated Fracture Pressure (Open Hole): —

Estimated Pore Pressure: 8.4 ppg Min. Estimated Pore Pressure (Open Hole): 8.4 ppg @ TD

Max. Estimated Pore Pressure (Open Hole): 8.6 ppg @ 636m Estimated Fracture Pressure at TD: —

Comments:

* CONNECTION GAS CONTINUES TO REDUCE AFTER REACHING A PEAK AT 636M TO ZERO AT 700m. THE SOURCE OF THIS GAS IS PROBABLY BIOGENIC WITH THE BASE OF THE BIOGENIC WINDOW AT APPROX 700m.

*

GEMDAS LOGGING REPORT NO. 5

COMPANY ESSO AUST WELL TERAKIHI #1

DATE 03.04.90 TIME 24°°

DEPTH 1141 m LAST REPORT DEPTH 1141m

RIG OPERATIONS RUNNING 13 3/8" CASING AND CEMENTING

REPORT BY MJ Tab REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: _____ Type: _____ Size: _____ Jets: _____

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: 9.4 Mud Density Out: 9.45 ECD: — PV/YP: 7/19

Gels: 12/18 Salinity: 12,000 PPM Cl Solids: 6 %

Hole Volume: 836661 Annular Volume: — Tubing Volume: — Displaced Volume: —

~~Carbide Lag~~ — Calculated Lag: — Flowrate: —

Drillpipe Annular Vel (Max. Dia. Sec.): — Drillpipe Annular Vel (Open Hole): —

Drill Collar Annular Vel (Open Hole): — Critical Vel: —

Pressure Loss System: — Pressure Loss Bit: — % Pressure Loss: —

Nozzel Vel: — Jet Impact Force: — HHP: —

PRESSURE PARAMETERS

Drilling Exponent: — Flowline Temperature: —

Shale Density: — Shale Factor: —

Background Gas: — Max. Formation Gas: — @ _____ Trip Gas: — @ _____

Other Gas: —

Fill: NIL Tight Hole: —

Cavings: Est %: — Average Size: —

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: — Min. Estimated Fracture Pressure (Open Hole): —

Estimated Pore Pressure: 8.5 ppg Min. Estimated Pore Pressure (Open Hole): 8.5ppg @ TD

Max. Estimated Pore Pressure (Open Hole): 8.5ppg @ TD Estimated Fracture Pressure at TD: —

Comments:

GEMDAS LOGGING REPORT NO. 6

COMPANY ESSO AUST WELL TERAKIHI #1

DATE 04.04.90 TIME 2400

DEPTH 1150m LAST REPORT DEPTH 1141m

RIG OPERATIONS DRILLING 12 1/4" HOLE

REPORT BY [signature] REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: 3 Type: PDC DS40 Size: 12 1/4" Jets: 3 x 13, 2 x 15

On Bit: Footage: 9m Hours: 0.8 ROP: 11.25 M/HR WOB: 5-15 K/lb RPM: 130

Pump Press: 1850 PSI SPM: 150 Torque: 200-600 AMP TBR: 9.696 CP I: $ 547/M CP B: $ 5807/M

HYDRAULICS REPORT

Mud Density In: 9.2 Mud Density Out: 9.2+ ECD: 9.51 PV/YP: 8/40

Gels: 16/17 Salinity: 17,500 PPM Cl Solids: 4 %

Hole Volume: 840 661 Annular Volume: 727 661 Tubing Volume: 60 661 Displaced Volume: 53 661

~~Carbide Lag~~—Calculated Lag: 6105 STKS Flowrate: 793 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 59.5 FT/MIN Drillpipe Annular Vel (Open Hole): —

Drill Collar Annular Vel (Open Hole): 225.9 FT/MIN Critical Vel: 591.9 FT/MIN

Pressure Loss System: 1507 PSI Pressure Loss Bit: 957 PSI % Pressure Loss: 64

Nozzel Vel: 341.3 FT/SEC Jet Impact Force: 1289.2 lb HHP: 442.9 HP

PRESSURE PARAMETERS

Drilling Exponent: 0.75 – 1.60 Flowline Temperature: 31.5°C

Shale Density: — Shale Factor: —

Background Gas: — Max. Formation Gas: — @ — Trip Gas: 24— @ 1141m

Other Gas: NIL

Fill: NIL Tight Hole: NIL

Cavings: Est %: TRACE Average Size: 10 x 10 x 10 mm

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 15.96 ppg (6.76 ppg) Min. Estimated Fracture Pressure (Open Hole): 16.0 ppg @ SHOE

Estimated Pore Pressure: 8.5 ppg Min. Estimated Pore Pressure (Open Hole): 8.5 ppg @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8.5 ppg @ TD (1150m) Estimated Fracture Pressure at TD: 16 ppg.

Comments:

DRILL CMT FLOAT & SHOE TO 1141m & NEW HOLE TO 1144m - PERFORM FIT TO 1300 PSI AND 16 ppg EQMW.

EXLOG (SM) GEMDAS LOGGING REPORT NO. 7

COMPANY ESSO AUST WELL TERAKIHI #1

DATE 05.04.90 TIME 24^00

DEPTH 1349m LAST REPORT DEPTH 1150m

RIG OPERATIONS DRILLING 12 1/4" HOLE

REPORT BY D. NEW REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#4 Type: HTC AT-J1 Size: 12 1/4" Jets: 3x16

On Bit: Footage: 134m Hours: 7.1 HRS ROP: 18.9 m/HR. WOB: 25 KLB RPM: 120-140

Pump Press: 2750 SPM: 156 Torque: 200-350 TBR: 71500 CP I: $ 300 CP B: $ 343

HYDRAULICS REPORT

Mud Density In: 9.3 Mud Density Out: 9.3 ECD: 9.4 PV/YP: 6/14

Gels: 11/12 Salinity: 16,000 PPM Cl Solids: 8% %

Hole Volume: 935 BBL Annular Volume: 806 BBL Tubing Volume: 71 BBL Displaced Volume: 58 BBL

Carbide Lag—Calculated Lag: — Flowrate: 782 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 58.7 FT/MIN Drillpipe Annular Vel (Open Hole): 153.3 FT/MIN

Drill Collar Annular Vel (Open Hole): 222.7 FT/MIN Critical Vel: 315.5 FT/MIN

Pressure Loss System: 1243 psi Pressure Loss Bit: 1507 psi % Pressure Loss: 54.8 %

Nozzel Vel: 426 FT/SEC Jet Impact Force: 1603 LB HHP: 697.4 HP

PRESSURE PARAMETERS

Drilling Exponent: 1.0 - 1.4 (NORMAL) Flowline Temperature: 29.7°C

Shale Density: 2.3 (ESTIMATED) Shale Factor: —

Background Gas: 3-4u Max. Formation Gas: 8u @ 1280m Trip Gas: _____ @ _____

Other Gas: NIL

Fill: NIL Tight Hole: NIL

Cavings: Est %: MINOR Average Size: SMALL, BLOCKY

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 5.5 LB/GAL Min. Estimated Fracture Pressure (Open Hole): 16.0 ppg EMW

Estimated Pore Pressure: 8.5 ppg EMW Min. Estimated Pore Pressure (Open Hole): 1596 psi @ 1124m

Max. Estimated Pore Pressure (Open Hole): 1952 psi @ 1349m. Estimated Fracture Pressure at TD: 16.5

Comments: PRESSURE TRENDS NORMAL.

LITHOLOGY: LIMESTONE.

NO SHOWS

EXLOG (SM) GEMDAS LOGGING REPORT NO. 8

COMPANY ESSO AUST. WELL TERRAPIN No 1

DATE 6TH APRIL 1990 TIME 24:00 HRS

DEPTH 1650 LAST REPORT DEPTH 1349m

RIG OPERATIONS DRILL 12 1/4" HOLE

REPORT BY D. NEW REPORT RECEIVED BY _____ SIGNED (OPERA

DRILLING REPORT

Bit No.: NB H 4 Type: HTC AT-J1 Size: 12 1/4 Jets: 3x16

On Bit: Footage: 435m Hours: 24.6 HRS ROP: 17.7 M/HR. WOB: 40 RPM: 13

Pump Press: 2800 SPM: 152 Torque: 250-420 TBR: 211000 CP I: $ 297 CP B: $ 25

HYDRAULICS REPORT

Mud Density In: 9.4+ Mud Density Out: 9.4+ ECD: 9.5+ PV/YP: 6/13

Gels: 11/12 Salinity: 16000 PPM Cl Solids: 9%

Hole Volume: 1144 BBL Annular Volume: 990 BBL Tubing Volume: 89 BBL Displaced Volume: 65

Carbide Lag—Calculated Lag: HOLE IN GAUGE Flowrate: 760 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 49.7 FT/MIN. Drillpipe Annular Vel (Open Hole): 148.9 FT/MI

Drill Collar Annular Vel (Open Hole): 216.4 FT/MIN Critical Vel: 297.7 FT/MIN.

Pressure Loss System: 1357 psi Pressure Loss Bit: 1443 psi % Pressure Loss: 51.5%

Nozzel Vel: 414 FT/SEC Jet Impact Force: 1536 LB HHP: 6

PRESSURE PARAMETERS

Drilling Exponent: 1.2-1.4 (NORMAL) Flowline Temperature: 30.0°C

Shale Density: — Shale Factor: —

Background Gas: 5-15 u. Max. Formation Gas: _____ @ _____ Trip Gas: — @ _____

Other Gas: NIL

Fill: NIL Tight Hole: NIL

Cavings: Est %: MINOR (<10%) Average Size: SMALL, BLOCKY

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 4.3 Min. Estimated Fracture Pressure (Open Hole): 16.0 ppg E

Estimated Pore Pressure: 8.5 ppg EMW Min. Estimated Pore Pressure (Open Hole): 1596 psi @ 11

Max. Estimated Pore Pressure (Open Hole): 2388 psi @ 1650m Estimated Fracture Pressure at TD: 18

Comments: CARBIDE DATA INDICATES AUG HOLE DIA 1

HOLE MAY BE UNDERGAUGE IN PART AND TI

HOLE MAY BE NOTED ON NEXT TRIP.

PRESSURE TRENDS NORMAL

LITHOLOGY: LIMESTONE

EL P/N 1842

EXLOG (SM) GEMDAS LOGGING REPORT NO. 9

COMPANY ESSO AUST WELL TERAMIHI No1

DATE 7TH APRIL 1990 TIME 24:00 HRS

DEPTH 1800M LAST REPORT DEPTH 1650M

RIG OPERATIONS DRILL 12 1/4" HOLE

REPORT BY D. NEW REPORT RECEIVED BY _____ SIGNED (OPERATOR)

DRILLING REPORT

Bit No.: RRB #3 Type: HYCALOG DS40 Size: 12 1/4" Jets: 3x13, 1x14, 1x15

On Bit: Footage: 25m Hours: 1.9HRS ROP: 13M/HR WOB: 5-10 RPM: 140

Pump Press: 2600 SPM: 156 Torque: 350-750 TBR: 37000 CP I: $ 121 CP B: $ 776

HYDRAULICS REPORT

Mud Density In: 9.5 Mud Density Out: 9.6 ECD: 9.67 PV/YP: 6/18

Gels: 14/15 Salinity: 16,000 PPM Cl Solids: 10% %

Hole Volume: 1216 Annular Volume: 1049BBL Tubing Volume: 97BBL Displaced Volume: 69BBL

Carbide Lag—Calculated Lag: +400 STKS (13" AUG HOLE DIA) Flowrate: 780 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 51.0 FT/MIN Drillpipe Annular Vel (Open Hole): 152.9 FT/MIN.

Drill Collar Annular Vel (Open Hole): 222.1 FT/MIN Critical Vel: 367.2 FT/MIN.

Pressure Loss System: 1416 psi Pressure Loss Bit: 1184 % Pressure Loss: 45.5%

Nozzel Vel: 374.6 FT/SEC Jet Impact Force: 1429 LB HHP: 539 HP.

PRESSURE PARAMETERS

Drilling Exponent: 1.0 (NORMAL FOR THIS BIT TYPE) Flowline Temperature: 28°C

Shale Density: — Shale Factor: —

Background Gas: 5-10u Max. Formation Gas: 10 @ 1790m Trip Gas: 108u @ 1800

Other Gas: NIL

Fill: NIL Tight Hole: UP TO 80KLB DRAG ON TRIP OUT.

Cavings: Est %: MINOR (<10%) Average Size: SMALL, BLOCKY.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 3.9 ppg Min. Estimated Fracture Pressure (Open Hole): 16.0 ppg EMW

Estimated Pore Pressure: 8.5 ppg EMW Min. Estimated Pore Pressure (Open Hole): 1596 psi @ 1124m

Max. Estimated Pore Pressure (Open Hole): 2605 psi @ 1800m Estimated Fracture Pressure at TD: 17.6 ppg

Comments: PRESSURE TRENDS NORMAL.

LITHOLOGY: LIMESTONE

EXLOG (SM) GEMDAS LOGGING REPORT NO.

COMPANY ESSO AUST WELL TERAHINI No
DATE 8TH APRIL 1990 TIME 24:00 HRS
DEPTH 2235m LAST REPORT DEPTH 1800m
RIG OPERATIONS DRILLING 12¼" HOLE
REPORT BY D. NEW REPORT RECEIVED BY _____ SIGNED

DRILLING REPORT

Bit No.: RR3#3 Type: HACALOG DS40 Size: 12¼ Jets: 3x13, 1x
On Bit: Footage: 461 Hours: 18.3 ROP: 25.2 m/HR WOB: 5-15
Pump Press: 2900 SPM: 159 Torque: 350-720 TBR: 152000 CP I: $ 280

HYDRAULICS REPORT

Mud Density In: 9.5 Mud Density Out: 9.6 ECD: 9.7 PV/YP: 6
Gels: 14/14 Salinity: 17,000 PPM Cl Solids: 10%
Hole Volume: 1424 BBL Annular Volume: 1222 BBL Tubing Volume: 123 BBL Displaced Volum
Carbide Lag—Calculated Lag: ~476 STK (11.6" AUG HOLE DIA) Flowrate: 796 GPM
Drillpipe Annular Vel (Max. Dia. Sec.): 52 FT/MIN Drillpipe Annular Vel (Open Hole): 156 FT
Drill Collar Annular Vel (Open Hole): 227 FT/MIN Critical Vel: 353.1 FT/M
Pressure Loss System: 1660 PSI Pressure Loss Bit: 1240 PSI % Pressure Loss: 4
Nozzel Vel: 382.3 FT/SEC Jet Impact Force: 1496 LB

PRESSURE PARAMETERS

Drilling Exponent: 0.9-1.0 Flowline Temperature: 31°C
Shale Density: — Shale Factor: —
Background Gas: 9u. Max. Formation Gas: 11.5u @ 2110m Trip Gas: —
Other Gas: NIL
Fill: NIL Tight Hole: NIL
Cavings: Est %: LESS THAN 10% Average Size: SMALL, BLOCKY

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 3.2 ppg Min. Estimated Fracture Pressure (Open Hole): 16.0 pp
Estimated Pore Pressure: 8.5 ppg EMW Min. Estimated Pore Pressure (Open Hole): 1596 p
Max. Estimated Pore Pressure (Open Hole): 3204 psi @ 2235 Estimated Fracture Pressure

Comments: CARBIDE DATA INDICATES HOLE UNDER
TIGHT HOLE MAY BE ENCOUNTERD ON
PRESSURE TRENDS NORMAL EXCEPT
WHICH IS OFSET DUE TO TYPE OF
USED
LITHOLOGY: LIMESTONE

REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE R

EXLOG (SM) GEMDAS LOGGING REPORT

COMPANY ESSO AUST WELL TERAKIHI

DATE 9TH APRIL 1990 TIME 24:00 H

DEPTH 2506M LAST REPORT DEPTH 2235m.

RIG OPERATIONS DRILL 12 1/4" HOLE

REPORT BY D. NEW REPORT RECEIVED BY _____ SIGNED

DRILLING REPORT

Bit No.: RRB#3 Type: PDC DS40 Size: 12 1/4 Jets: 3x13

On Bit: Footage: 732 Hours: 31.2 ROP: 23.5 m/HR WOB: 2-1

Pump Press: 2850 SPM: 156 Torque: 300-720 TBR: 250000 CP I: $ 169

HYDRAULICS REPORT

Mud Density In: 9.5+ Mud Density Out: 9.6 ECD: 9.7 PV/YP:

Gels: 13/14 Salinity: 17,000 PPM Cl Solids:

Hole Volume: 1553 BBL Annular Volume: 1329 BBL Tubing Volume: 139 BBL Displace

Carbide Lag—Calculated Lag: 476 STKS (11.6" AVG HOLE DIA) Flowrate: 780 G

Drillpipe Annular Vel (Max. Dia. Sec.): 51 FT/MIN Drillpipe Annular Vel (Open Hole): 152

Drill Collar Annular Vel (Open Hole): 222.1 FT/MIN Critical Vel: 353.1

Pressure Loss System: 1660 PSI Pressure Loss Bit: 1190 PSI % Pressure Loss: -

Nozzel Vel: 374.6 FT/SEC Jet Impact Force: 1436.7 LB

PRESSURE PARAMETERS

Drilling Exponent: 0.6 - 0.9 Flowline Temperature: 30°

Shale Density: — Shale Factor: —

Background Gas: 5-7u Max. Formation Gas: 114 @ 2250m Trip Gas:

Other Gas: NIL

Fill: NIL Tight Hole: NO TIGHT HOLE ON WIPER TR

Cavings: Est %: UP TO 10% Average Size: SMALL, 1300

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.8 PPG Min. Estimated Fracture Pressure (Open Hole): 16

Estimated Pore Pressure: 8.5 PPG EMW Min. Estimated Pore Pressure (Open Hole): 15

Max. Estimated Pore Pressure (Open Hole): 3597 PSI @ 2506m. Estimated Fracture

Comments: DXC TREND INDICATES POSSIBLE OV
ALL OTHER INDICATORS SUGGEST AB
PRESSURED SECTION. DXC PROBA
AFFECTED BY MINOR CHANGES I

LITHOLOGY: LIMESTONE WITH
CLAYSTONE.

EXLOG (SM) GEMDAS LOGGING REPORT NO. 12

COMPANY ESSO AUST WELL TERAKIMI No1

DATE 10TH APRIL 1990 TIME 24:00

DEPTH 2844m. LAST REPORT DEPTH 2506m

RIG OPERATIONS WIPER TRIP PRIOR TO CORE No1

REPORT BY D. NEW REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: RRB #3 Type: PDC DS-40 Size: 12¼ Jets: 3x13, 1x14, 1x15

On Bit: Footage: 1070 Hours: 41.2 ROP: 26.0M/HR WOB: 5-20 RPM: 100-140

Pump Press: 2900 SPM: 160 Torque: 300-720 TBR: 312000 CP I: $ 120 CP B: $ 229

HYDRAULICS REPORT

Mud Density In: 9.5+ Mud Density Out: 9.6 ECD: 9.7 PV/YP: 15/20

Gels: 4/6 Salinity: 30,000 PPM Cl Solids: 8% %

Hole Volume: 1715 BBL Annular Volume: 1463 Tubing Volume: 158 Displaced Volume: 94 BBL

Carbide Lag—Calculated Lag: +799 STKS (13" AUG HOLE DIA) Flowrate: 800

Drillpipe Annular Vel (Max. Dia. Sec.): 52.3 FT/MIN Drillpipe Annular Vel (Open Hole): 156.8 FT/MIN

Drill Collar Annular Vel (Open Hole): 227.8 FT/MIN Critical Vel: 389.7 FT/MIN.

Pressure Loss System: 1648 psi Pressure Loss Bit: 1252 psi % Pressure Loss: 43.2%

Nozzel Vel: 384.2 FT/SEC Jet Impact Force: 1511.4 LB HHP: 584.4 HP.

PRESSURE PARAMETERS

Drilling Exponent: 0.7 - 1.0 Flowline Temperature: 29°C

Shale Density: — Shale Factor: —

Background Gas: 2-5u Max. Formation Gas: 800u (16%) @ 2844m Trip Gas: — @ —

Other Gas: NIL

Fill: NIL Tight Hole: UP TO 100KLB O/P 2776m - 2495.

Cavings: Est %: LESS THAN 10% Average Size: SMALL, BLOCKY.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.6 ppg EMW Min. Estimated Fracture Pressure (Open Hole): 16.0 ppg EMW

Estimated Pore Pressure: 8.5 ppg EMW Min. Estimated Pore Pressure (Open Hole): 1596 @ 1124m

Max. Estimated Pore Pressure (Open Hole): 4085 psi @ 2844m Estimated Fracture Pressure at TD: 20 ppg.

Comments:

LITHOLOGY AT TD: SANDSTONE.

MAX GAS 800u (16%) FROM 2844m.

DXC UNRELIABLE DUE TO BIT TYPE.

RRB #3 DRILLED 1070m IN 41.2 HRS AT AN AUG ROP OF 26.0M/HR.

EXLOG (SM) GEMDAS LOGGING REPORT NO. 13

COMPANY ESSO AUST. WELL TERAKIHI No 1

DATE 11TH APRIL TIME 24:00 HRS

DEPTH 2844 m LAST REPORT DEPTH 2844m

RIG OPERATIONS C.B.U PRIOR TO CUT CORE No 1

REPORT BY D. NEW REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NBHS Type: CHRIS RC476 Size: 12 1/4 Jets: TFA = 1.0 SQ IN.

On Bit: Footage: — Hours: — ROP: — WOB: — RPM: —

Pump Press: 550 SPM: 44 Torque: — TBR: — CP I: $ — CP B: $ —

HYDRAULICS REPORT

Mud Density In: 9.5 Mud Density Out: 9.6 ECD: 9.6 PV/YP: 16/20

Gels: 4/6 Salinity: 29,000 PPM Cl Solids: 8% %

Hole Volume: 1715 BBL Annular Volume: 1469 BBL Tubing Volume: 161 BBL Displaced Volume: 85 BBL

Carbide Lag—Calculated Lag: +799 STKS (13" AUG HOLE DIA) Flowrate: 220 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 14.4 FT/MIN Drillpipe Annular Vel (Open Hole): 43.1 FT/MIN

Drill Collar Annular Vel (Open Hole): 62.7 FT/MIN Critical Vel: 390.8 FT/MIN

Pressure Loss System: 508 PSI Pressure Loss Bit: 42 PSI % Pressure Loss: 13.1%

Nozzel Vel: 70.6 FT/SEC Jet Impact Force: 76.4 LB HHP: 5.4 HP

PRESSURE PARAMETERS

Drilling Exponent: — Flowline Temperature: 29°C

Shale Density: — Shale Factor: —

Background Gas: — Max. Formation Gas: — @ _____ Trip Gas: 13u @ 2844

Other Gas: —

Fill: NIL Tight Hole: LAST STAND TO BOTTOM VERY TIGHT

Cavings: Est %: — Average Size: —

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.6 ppg EMW Min. Estimated Fracture Pressure (Open Hole): 16.0 ppg AT 1124

Estimated Pore Pressure: 8.5 Min. Estimated Pore Pressure (Open Hole): 1596 psi @ 1124m

Max. Estimated Pore Pressure (Open Hole): 4085 @ 2844 Estimated Fracture Pressure at TD: 20.1

Comments:

EL P/N 18429 MAY 1980

GEMDAS LOGGING REPORT NO. 14

COMPANY ESSO AUST. WELL TERAKIHI No1

DATE 12 APRIL 1990 TIME 24:00

DEPTH 2862.5 LAST REPORT DEPTH 2844 m

RIG OPERATIONS CIRCULATE BOTTOMS UP PRIOR TO CUTTING CORE 2

REPORT BY D. NEW REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: RRCBH1 Type: CHRIS RC476 Size: 12 1/4 Jets: 1·0 SQ IN TFA.

On Bit: Footage: 0 Hours: 0 ROP: — WOB: — RPM: —

Pump Press: 350-500 SPM: 42 Torque: — TBR: — CP I: $ — CP B: $ —

HYDRAULICS REPORT (FOR CORE No2)

Mud Density In: 9.5 Mud Density Out: 9.5+ ECD: 9.6 PV/YP: 15/20

Gels: 4/6 Salinity: 30,000 PPM Cl Solids: 9% %

Hole Volume: 1724 BBL Annular Volume: 1476 BBL Tubing Volume: 162 BBL Displaced Volume: 85 BBL

Carbide Lag—Calculated Lag: +800 STKS Flowrate: 210 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 13·6 FT/MIN Drillpipe Annular Vel (Open Hole): 40·8

Drill Collar Annular Vel (Open Hole): 59·2 FT/MIN Critical Vel: 389·7 FT/MIN.

Pressure Loss System: 362 psi Pressure Loss Bit: 38 psi % Pressure Loss: 9·5

Nozzel Vel: 66·7 FT/SEC Jet Impact Force: 68·3 LB HHP: 4·6 HP

PRESSURE PARAMETERS

Drilling Exponent: — Flowline Temperature: 29·4°C.

Shale Density: — Shale Factor: —

Background Gas: — Max. Formation Gas: — @ — Trip Gas: 110u @ 2862·5 (2·2%)

Other Gas: No CO_2 or H_2S WITH TRIP GAS

Fill: NIL Tight Hole: UP TO 100KLB O/P ON TRIP OUT WITH C/B.

Cavings: Est %: 90% (FROM CORE) Average Size: SMALL.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2·6 Min. Estimated Fracture Pressure (Open Hole): 16·0 ppg EMW

Estimated Pore Pressure: 9·5 ppg EMW Min. Estimated Pore Pressure (Open Hole): 1596 psi @ 1124

Max. Estimated Pore Pressure (Open Hole): 4170 psi @ 2881 m. Estimated Fracture Pressure at TD: 20·1

Comments: CORE No1: CUT 18·5m. REC 12·6m (68%)

LITHOLOGY: SANDSTONE WITH FAIR TO GOOD FLUORESCENCE.

HYDRAULICS FOR CORE No2

GEMDAS LOGGING REPORT NO. 15

COMPANY ESSO AUST WELL TERAKIHI No1

DATE FRIDAY 13TH APRIL TIME 24:00

DEPTH 2881m. LAST REPORT DEPTH 2862.5m.

RIG OPERATIONS RIH WITH NB#6

REPORT BY D. NEW REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#6 Type: SMITH F27D Size: 12 1/4" Jets: 16, 16, 14

On Bit: Footage: — Hours: — ROP: — WOB: — RPM: —

Pump Press: 2850 SPM: 136 Torque: — TBR: — CP I: $ — CP B: $ —

HYDRAULICS REPORT

Mud Density In: 9.5 Mud Density Out: 9.5+ ECD: 9.6 PV/YP: 15/19

Gels: 4/6 Salinity: 30,000 PPM Cl Solids: 9% %

Hole Volume: 1733 Annular Volume: 1474BBL Tubing Volume: 159BBL Displaced Volume: 99BBL

Carbide Lag—Calculated Lag: +799STKS (13" AVG HOLE DIA) Flowrate: 680 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 44.6 FT/MIN Drillpipe Annular Vel (Open Hole): 133.6 FT/MIN

Drill Collar Annular Vel (Open Hole): 194.2 FT/MIN Critical Vel: 377.2 FT/MIN.

Pressure Loss System: 1473 psi Pressure Loss Bit: 1377 psi % Pressure Loss: 48.3%

Nozzel Vel: 402.9 FT/SEC Jet Impact Force: 1350.9 LBS HHP: 547.7 HP

PRESSURE PARAMETERS

Drilling Exponent: — Flowline Temperature: 29°C

Shale Density: — Shale Factor: —

Background Gas: — Max. Formation Gas: — @ — Trip Gas: — @

Other Gas: NIL

Fill: NIL Tight Hole: UP TO 100KLB O/P ON TRIP OUT WITH CORE2

Cavings: Est %: UP TO 80% Average Size: SMALL (FROM COREING)

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.5ppg EMW Min. Estimated Fracture Pressure (Open Hole): 16.0ppg EMW

Estimated Pore Pressure: 8.5ppg EMW Min. Estimated Pore Pressure (Open Hole): 1596 @ 1124

Max. Estimated Pore Pressure (Open Hole): 4140 psi @ 2881 Estimated Fracture Pressure at TD: 18.9ppg

Comments:

CORE No2: 2862.5 - 2881m.
CUT 18.5m.
REC: 9.9m (53.5%)
LITHOLOGY: SANDSTONE

EXLOG (SM) GEMDAS LOGGING REPORT NO. 16

COMPANY ESSO AUST WELL TERAKIHI No1

DATE 14TH APRIL 1990 TIME 24:00 HRS

DEPTH 3040 (TD) LAST REPORT DEPTH 2881m.

RIG OPERATIONS CIRC. BTMS UP PRIOR TO WIPER TRIP.

REPORT BY D. NEW REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#5 Type: SMITH F27D Size: 12 1/4 Jets: 16, 16, 14

On Bit: Footage: 159 Hours: 15.4 ROP: 10.3 WOB: 40-50 RPM: 80-100

Pump Press: 2900 SPM: 135 Torque: 250-750 TBR: 81,200 CP I: $ 370 CP B: $ 570

HYDRAULICS REPORT

Mud Density In: 9.5 Mud Density Out: 9.5+ ECD: 9.6 PV/YP: 15/20

Gels: 4/6 Salinity: 32000 PPM Cl Solids: 9% %

Hole Volume: 1809 BBL Annular Volume: 1537 BBL Tubing Volume: 169 BBL Displaced Volume: 103 BBL

Carbide Lag—Calculated Lag: +800 STH (13" AUG DIA) Flowrate: 675 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 44.1 FT/MIN Drillpipe Annular Vel (Open Hole): 132.3 FT/MIN

Drill Collar Annular Vel (Open Hole): 192.3 FT/MIN Critical Vel: 389.7 FT/MIN.

Pressure Loss System: 1551 psi Pressure Loss Bit: 1349 psi % Pressure Loss: 46.5%

Nozzel Vel: 398.8 FT/SEC Jet Impact Force: 1323 LB HHP: 531.3 HP.

PRESSURE PARAMETERS

Drilling Exponent: 1.0 (SST) - 1.6 Flowline Temperature: 29°C

Shale Density: _____ Shale Factor: _____

Background Gas: 0.5-1 u. Max. Formation Gas: 58 u @ 2891m. Trip Gas: 17.5u @ 2881m
1.16% (0.35%)

Other Gas: NIL

Fill: NIL Tight Hole: REAM/WASH 2800 - 2881m ON TRIP IN

Cavings: Est %: UP TO 80% (DEC TO 70% BY TD.) Average Size: SMALL PLATY - BLOCKY

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.4 ppg EMW Min. Estimated Fracture Pressure (Open Hole): 16.0 ppg EMW

Estimated Pore Pressure: 8.5 ppg EMW Min. Estimated Pore Pressure (Open Hole): 1596 psi @ 1124m

Max. Estimated Pore Pressure (Open Hole): 4400 psi @ 3040m. Estimated Fracture Pressure at TD: 19.1 ppg.

Comments:

TORQUE OFTEN HI AND ERRATIC - POSSIBLY DUE TO HARD (CEMENTED?) BANDS IN THE FORMATION OR POSSIBLY DUE TO THE STABILIZER HANNGING UP

LITHOLOGY: SANDSTONE.

EXLOG (SM) GEMDAS LOGGING REPORT NO. 17

COMPANY ESSO AUST WELL TERAKIHI No 1

DATE 15TH APRIL 1990 TIME 24:00 HRS

DEPTH 3040m (TD) LAST REPORT DEPTH 3040m

RIG OPERATIONS RUNNING WIRELINE LOGS (RFT'S)

REPORT BY D. NEW REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NBHS Type: SMITH F27D Size: 12 1/4 Jets: 16,16,14

On Bit: Footage: 159 Hours: 15.4 ROP: 10.3 WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: _____ Mud Density Out: _____ ECD: _____ PV/YP: _____

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: _____ Annular Volume: _____ Tubing Volume: _____ Displaced Volume: _____

Carbide Lag—Calculated Lag: _____ Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: _____ Flowline Temperature: _____

Shale Density: _____ Shale Factor: _____

Background Gas: _____ Max. Formation Gas: _____ @ _____ Trip Gas: _____ @ _____

Other Gas: 60ppm H_2S FROM RFT SMP No 2

Fill: _____ Tight Hole: _____

Cavings: Est %: _____ Average Size: _____

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.4 ppg EMW. Min. Estimated Fracture Pressure (Open Hole): 16.1ppg EMW

Estimated Pore Pressure: 8.5 ppg EMW Min. Estimated Pore Pressure (Open Hole): 1596psi @ 1124m

Max. Estimated Pore Pressure (Open Hole): 4400psi @ 3040 Estimated Fracture Pressure at TD: 19.1ppg

Comments:

EL P/N 18429 MAY 1980

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 18

COMPANY ESSO AUST WELL TERAKIHI No 1

DATE 16TH APRIL 1990m TIME 24:00

DEPTH 3040m (TD). LAST REPORT DEPTH 3040m (TD)

RIG OPERATIONS RIH WITH RRB#6 FOR WIPER TRIP.

REPORT BY D. NEW REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: RRB#6 Type: SMITH F27D Size: 12'1/4 Jets: 16, 16, 14

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: 9.5 Mud Density Out: _____ ECD: _____ PV/YP: _____

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: 1809 BBL Annular Volume: 1537 Tubing Volume: 169 Displaced Volume: 103

Carbide Lag—Calculated Lag: +800 STKS Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: _____ Flowline Temperature: _____

Shale Density: _____ Shale Factor: _____

Background Gas: _____ Max. Formation Gas: _____ @ _____ Trip Gas: _____ @ _____

Other Gas: _____

Fill: _____ Tight Hole: _____

Cavings: Est %: _____ Average Size: _____

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.4 ppg EMW Min. Estimated Fracture Pressure (Open Hole): 16.0 ppg

Estimated Pore Pressure: 8.5 ppg EMW Min. Estimated Pore Pressure (Open Hole): 1596 psi @ 1124m

Max. Estimated Pore Pressure (Open Hole): 4400 psi @ 3040 Estimated Fracture Pressure at TD: 19.1 ppg

Comments:

RFT DATA INDICATES LATROBE SANDS ARE NORMALY PRESSURED AT 8.35 ppg EMW.

EXLOG (SM) GEMDAS LOGGING REPORT NO. 19

COMPANY ESSO AUST. WELL TERAKIHI No 1

DATE 17TH APRIL 1990 TIME 24:00 HRS

DEPTH 3040m LAST REPORT DEPTH 3040m

RIG OPERATIONS POOH AFTER WIPER TRIP

REPORT BY D. NEW REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: RR3HG Type: SMITH F27D Size: 12 1/4 Jets: 16, 16, 14

On Bit: Footage: WIPER TRIP Hours: ROP: WOB: RPM:

Pump Press: 2800 SPM: 130 Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: 9.5 Mud Density Out: 9.5+ ECD: 9.6 PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1809 BBL Annular Volume: 1537 BBL Tubing Volume: 169 BBL Displaced Volume: 103 BBL

Carbide Lag—Calculated Lag: +800 STKS Flowrate: 650 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: 94 @ 3040.
(0.18%)

Other Gas:

Fill: Tight Hole: PACKED OFF ROUND BHA AT 3040m.

Cavings: Est %: 100% Average Size: MEDIUM, PLATY.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments:

THE CAVINGS SEEN ON THE WIPER TRIP WERE FRESH AND PLATY TO OCCASIONALY SPLINTERY. THEY APPEAR TO BE THE RESULT OF POSSIBLE MICROFRACTURES. RATHER THAN OVERPRESSURE. GAS VALUES WHILE CIRCULATING WERE VERY LOW.

DISPLACEMENT OF CASING = 152 BBL.

ii. Weekly Geological-Engineering Reports

GEOLOGICAL-ENGINEERING REPORT No.1 30th Mar - 4 APR 1990

ESSO AUSTRALIA Ltd. Spud - 1150 meters

Terakihi No.1

EXLOG U244 M. Sale, D. Thornton

OPERATIONS SUMMARY

Terakihi No.1 was spudded on the 30th March 1990 at 06:30 hours by the semi-submersible drilling rig "Southern Cross". All depths unless otherwise stated are in metres along hole below the RKB. RKB to mean sealevel was 21m and RKB to seafloor was 424 metres (sea depth 401m).

26" Hole Section : Spud to 551 metres.

After ballasting the rig to drilling depth, the TGB was run to the seafloor, due to a considerable angle, it was pulled and a section of 13.375" casing welded to it to aid in stability. NB#1, a HTC R1 26" run with a 26" hole opener, was picked up and spudded Terakihi No.1 at 06:30 hrs on the 30th March 1990. This bit drilled to 551m, a distance of 127m in 3.3 hrs at an average rate of penetration of 38.5 m/hr. The drilling fluid was seawater with Hi Vis sweeps being circulated on each connection. At 551m the hole was swept with a 100 bbl Hi Visc pill, a survey dropped and the bit tripped to the seafloor. The bit was tripped back to bottom with no fill and a 250 bbl Hi Visc pill was spotted, three stands pulled and another 250 bbl Hi Visc pill spotted, and the bit pulled to run casing.

10 joints of 20", X56, 94ppf casing were then run and the shoe set at 540m. The casing was cemented with 750 sx class "G" cement.

17.5" Hole Section: 551 - 1141 meters

After running the marine riser and BOP stack the 17.5" BHA and NB#2, a HTC X3A was picked up and run in the hole to the top of cement at 533m. The cement and shoe were drilled to 551m and new hole drilled to 1141m with no problems. At 1141m bottoms up was circulated, and a survey dropped (dev = 0.25 deg at 1141m). A 100 bbl Hi Visc slug was pumped around the hole to sweep the riser, and a slug pumped prior to pulling out of the hole to the shoe, where the survey barrel was retrieved. The bit was then run back to bottom with no fill being recorded. Bottoms up was then circulated to condition the mud and a slug pumped prior to pulling out of the hole to run wireline logs. The 17.5" BHA was laid out and wireline logs were run (BHC-GR-Cal) with no problems. The bit made 590m in 11.1 hrs (on bottom rotating) with an average rate of penetration of 53.2 m/hr, and was graded T2 B2 G IN.

60 joints of K55, 54.5 lb/ft, 13.375" casing were then run with the shoe set at 1124m. The casing was cemented with 1000 sacks of class "G" cement.

12.25" Hole Section: 1141 - 1150 meters

After testing the stack and picking up the 12.25" BHA, NB#3 a HYCALOG PDC DS40, was run in the hole and drilled cement and the shoe track from 1099m. New hole was drilled to 1144m where bottoms was circulated and a leak off test taken to a gauge pressure of 1300 psi to give a fracture pressure of 16.0 ppg EMW.

Current operation as at 00:00 hrs 4th April 1990 is drilling ahead with NB#2 from 1150m.

BOREHOLE CONDITION

No hole problems were seen whilst drilling either the 26" or 17.5" hole sections. No fill was noted on the wiper trip at 1141m. A slight overpull was recorded on all 15 stands pulled to the shoe at 1141m of a maximum of 50 Klb, suggesting an in gauge hole. Trip gas recorded during this wiper trip indicated however, the hole may be washed out in some places.

FORMATION PRESSURE

a) Pore Pressure.

As the 26" hole was drilled with returns to the seafloor and therefore no meaningful pressure analysis is possible for this section (424m - 551m).

Connection gas encountered from 551m - 700m whilst drilling with 8.7 ppg mud indicates an estimated pore pressure in the region of 8.6 - 8.7 ppg EQMD, which is within the region expected from a salt water pressure gradient. The origin of this gas is thought to be from a biogenic window within the Gippsland Limestone. By 700m mud weight increased to 9.3 ppg and no connection gas was encountered. Other indicators suggest that the pore pressure gradient remained normal in the 17.5" hole.

The 12.25" hole section to 1150m appears to be normally pressured. Dxc exhibited a normal trend with only minor variation due to slight lithological changes. Gas values were generally fairly low and no connection or high trip gasses were recorded. Cutting were generally blocky and cavings were small, blocky and of only minor quantity. Flowline temperature was damped and unresponsive due to heat loss in the riser and the frequent additions of new mud and water.

b) Fracture Pressure

A leak off test was run at 1144m and taken to a surface pressure of 1300 psi with a 9.2 ppg mud weight to give a formation fracture pressure of 16.0 ppg EMW.

GEOLOGICAL-ENGINEERING REPORT No.2 — 4th APR - 11th APR 1990

ESSO AUSTRALIA Ltd. — 1150 - 2844 meters

Kerakihi No.1

EXLOG U244 M. Sale, D. New.

OPERATIONS SUMMARY

12.25" Hole Section: 1141 - 2844 meters

After testing the stack and picking up the 12.25" BHA, NB#3 a Hycalog PDC DS40, was run in the hole and drilled cement and the shoe track from 1100m. New hole was drilled to 1144m where bottoms were circulated and a leak off test taken to a gauge pressure of 1300 psi to give a fracture pressure of 16.0 ppg EMW.

Drilling continued with NB#3 from 1144m to 1214m where returns were circulated, a survey dropped (dev = 0.5 deg at 1214m) and the bit pulled due to low rate of penetration. No overpull was recorded during the trip out. NB#3 drilled from 1141m to 1214m, a distance of 73m, in 5.7 hrs at an average rate of penetration of 12.4 m/hr and was graded 10% worn. The lithology was limestone grading to calcareous claystone.

NB#4, a HTC ATJ1 12.25" was picked up and run in the hole with no problems and no fill and drilled at rates of penetration varying from 10 to 30 m/hr. At 1774m a survey was run (Dev = 2.75 deg S52W) and the bit pulled due to high bit hours and low rate of penetration. This bit drilled 560m in 33.9 hrs at an average rate of penetration of 16.5 m/hr and was graded as T3 B3 G0. The lithology was limestone occasionally grading to calcareous claystone. Tight hole was recorded on the trip out with up to 80 klb overpull being recorded from most stands to the shoe.

RRB#3, a Hycalog PDC DS40 12.25" bit was then picked up and run in the hole with no problems and drilled through the Gippsland Limestone to 2273m at rates of penetration ranging from 10 to 40 m/hr. At 2273m a Hi Vis pill was circulated, a survey dropped (misrun) and a 20 stand wiper trip made with no hole problems. Drilling then continued through the Gippsland Limestone at rate of penetration varying from 10 to 25 m/hr to 2475m where the rate of penetration increased to over 30 m/hr marking the top of the Lakes Entrance formation. At 2506m the Seawater-gel mud system was displaced with a KCl-Polymer mud system. Drilling continued through the calcareous claystones of the Lakes Entrance Formation at rates of penetration varying from 20 to 50 m/hr. At 2841m the rate of penetration increased to over 60 m/hr and a flow check made at 2844m with no flow. This drilling break marked the top of the Latrobe Group, the primary target, and bottoms up were circulated with a maximum gas of 16% (800 u) and C1-C5 being recorded. Based on this it was decided to cut a core and a survey was dropped (Dev = 2.75 deg S13E at 2844m). A wiper trip was then made to the shoe with overpull of up to 100 klb being recorded from the interval 2776m - 2498m on the trip out. The bit was run back to bottom with no problems and bottoms up circulated with a trip gas of 64u (1.28%). The bit was then pulled with no hole problems. RRB#3 drilled from 1774m - 2844m, a distance of 1070m in 41.2 hrs (on bottom) at rates of

penetration varying from 10 to 60 m/hr and averaging 26 m/hr.

NB#5, a Christensen RC 476 12.25" core bit, was picked up and run in to cut core No.1. Tight hole was noted on the last stand of the trip in, the kelly picked up and the interval 2830m - 2844m reamed. Bottoms up were then circulated prior to cutting core No.1 with a trip gas of 13u (0.26%) being recorded.

BOREHOLE CONDITION

No hole problems were seen while drilling, however tight hole was noted on the bit trip at 1774m with up to 80 klb overpull being noted on the trip out. The trip in was clean and it would appear that the tight hole was due to slight hydration and swelling of the Gippsland Limestone. No hole problems were noted on the wiper trip at 2273m.

Up to 100 klb overpull was recorded from the interval 2776m - 2498m on the wiper trip at 2844m. The tight hole was attributed to hydrating and swelling of clays in the Lakes Entrance Formation and one trip through this section was all that was required to stabilize the hole. The interval 2830m - 2844m had to be reamed on the trip in with the core barrel.

FORMATION PRESSURE

a) Pore Pressure.

Pore pressure through the 12.25" hole section appears to have remained normal at 8.5 ppg EMW. The most reliable pressure indicators through this section were gas, which was generally low, and cavings which were generally only minor. Hole problems were generally minor and no fill was recorded after trips. While trip gasses of up to 64u were recorded the peaks were fairly sharp and gas values quickly returned to normal after bottoms up.

he Dxc plot was of little value below 1774m due to the use of a PDC bit below this depth as the Dxc equation is not applicable to this type of bit.

Flowline temperature was damped and unresponsive due to heat loss in the riser and was of little value in pressure detection.

b) Fracture Pressure

A leak off test was run at 1144m and taken to a surface pressure of 1300 psi with a 9.2 ppg mud weight to give a formation fracture pressure of 16.0 ppg EMW. Fracture pressures while drilling remained above this to reach a maximum of 20.6 ppg EMW at 2840m and it was considered unlikely that any mud losses due to hydraulic fracturing would occur.

Current operation at 24:00 hrs 11/04/90 is circulate bottoms up prior to cutting core 1.

GEOLOGICAL-ENGINEERING REPORT No.3 11th APR - 18th APR 1990

ESSO AUSTRALIA Ltd. 2844 - 3040 meters

Terakihi No.1

EXLOG U244 D. Marburger, D. New.

OPERATIONS SUMMARY

12.25" Hole Section: 2844 - 3040 meters

After finishing circulating bottoms up core 1 was cut from 2844m to 2862.5m (18.5m) in 1.4 hrs at an average rate of penetration of 13.2 m/hr. Tight hole was noted from the first two stands of the trip out with a maximum overpull of 100 klb. It was not possible to pump a slug resulting in a wet trip. While breaking out the core barrel it was discovered that the top joint of the inner fiberglass sleeve had become jammed in the outer barrel and had broken off at both the top and bottom. Both sleeves were layed down and 12.6m (68%) of sandstone recovered. As there were indications of hydrocarbons in the bottom of the core it was decided to cut another core.

The core barrel and RRCB#1 were run in the hole to 2805m and the interval 2805m - 2862.5m reamed with tight hole being noted at 2839m. Bottoms up were circulated with a trip gas of 110 units (2.2%) and the ball dropped. When the ball seated the pump pressure surged to 2000+ psi before returning to normal. It is likely that the fiberglass sleeve was jammed against the outer barrel and that this pressure surge burst the sleeve. Core 2 was then cut from 2862.5m to 2881m, a distance of 18.5m, in 1.7 hrs at an average rate of penetration of 10.9 m/hr. Tight hole was again noted on the trip out and it was necessary to pick up the kelly and backream from 2881m - 2788m. This tight hole may have been due to cuttings packing off round the BHA as the annular velocities while coring were low. The core sleeves were layed down (the top sleeve was broken about 5m from the top) and 9.9m (53.5%) of sandstone recovered.

The BOP's were tested and NB#5, a Smith F27D, picked up and run in the hole to 2800m where the kelly was picked up and the interval 2800m -2881m reamed/washed to bottom. Drilling continued through the sandstones of the Latrobe Group at rates of penetration varying from 60 to 2 m/hr. The torque seen on this bit run was erratic and often very high and the bit had to be pulled up and worked back to bottom on many occasions. At 3040m TD was reached, bottoms up circulated, and a 10 stand wiper trip made with only minor overpull being noted on the trip out. Bottoms up were again circulated, a survey dropped and the bit pulled to run logs. NB#5 drilled 159m in 15.4 hrs (on bottom) at an average rate of penetration of 10.3 m/hr.

Wireline logs were then run as follows:

Run 1: DLL-MSFL-LDT-CNL-GR-Cal
Run 2: RFT (10 pressure points, 1 sample)
Run 3: RFT (Two samples)
Run 4: BHC-GR-Cal
Run 5: SHDT
Run 6: WST
Run 7: CST (Shot 30, recovered 27)

On the basis of core and log data it was decided to case and suspend the well and RRB#6 was picked up and run in the hole for a wiper trip. The interval 2995m to 3040m was reamed/washed on the trip in and a 100 bbl Hi Vis pill circulated with common small blocky to platy cavings (from the Latrobe Group?) being noted on bottoms up. The kelly was rat holed and an attempt made to pull out of the hole. This was not possible due to the BHA packing off and the kelly picked up and a 200 bbl Hi Vis pill circulated. Common fresh platy cavings (also from the Latrobe Group) were noted on bottoms up. The hole instability did not appear to be due to overpressuring as the cavings were fairly small and were not curved. It is possible that the Latrobe Group siltstones are microfractured as this would produce the type of cavings seen. A wiper trip was then made to 2450m with the kelly being used to pump out singles over the interval 3010m - 2995m on the trip out and the same interval being reamed on the trip in. A 90 bbl 15.3 ppg pill was circulated and the bit pulled with the interval 3010m - 2995m being worked on the trip out.

222 joints of 9.625" N80 47 lb/ft casing were then run and cemented with the shoe at 3001m. The wellhead was then secured and the rig released.

BOREHOLE CONDITION

On both trips out of the hole with the core barrel the BHA was initially packed off and up to 100 klb overpull was recorded. This was probably due to the low flow rates and annular velocities used while coring being insufficient to remove the cuttings and lost core from the hole.

Hole problems were also noted on the wiper trip after logging with the interval 2995m to 3040m was reamed/washed on the trip in. A 100 bbl Hi Vis pill was circulated at 3040m with common small blocky to platy cavings (from the Latrobe Group?) being noted on bottoms up. The kelly was rat holed and an attempt made to pull out of the hole. This was not possible due to the BHA packing off and the kelly picked up and a 200 bbl Hi Vis pill circulated. Common fresh platy cavings (also from the Latrobe Group) were noted on bottoms up. The hole instability did not appear to be due to overpressuring as the cavings were fairly small and were not curved. It is possible that the Latrobe Group siltstones are microfractured as this would produce the type of cavings seen. A wiper trip was then made to 2450m with the kelly being used to pump out singles over the interval 3010m -2995m on the trip out and the same interval being reamed on the trip in. A 90 bbl 15.3 ppg pill was circulated and the bit pulled with the interval 3010m - 2995m being worked on the trip out.

From 2881m to 3040m very high, erratic, torque was recorded, frequently causing the rotary table to stall out necessatating the bit being pulled up and worked back to bottom. This tight hole may have been due to the stabilizer hanging up in in gauge hole however the nature of the cutting seen while circulating Hi Vis pills after logging indicates that the siltstones of the Latrobe may be microfractured. If this were the case then the high torque may have been produced by the action of the bit on the fractures rather than the stabilizer.

FORMATION PRESSURE

a) Pore Pressure.

Pore pressure through the 12.25" hole section appears to have remained normal at 8.5 ppg EMW. The most reliable pressure indicators through this section were gas, which was generally low, and cavings which were generally only minor. Hole problems were generally minor and no fill was recorded after trips. While trip gasses of up to 110u (2.2%) were recorded the peaks were fairly sharp and gas values quickly returned to normal after bottoms up.

The tight hole seen on trips and while drilling below 2844m was attributed cuttings packing off round the BHA and to the stabilizer hanging up in gauge hole and was not an indicator of increasing pore pressure.

Below 2881m a conventional insert bit was used and Dxc indicated a normal trend.

Flowline temperature was damped and unresponsive due to heat loss in the riser and pits and was of little value in pressure detection. A gradual warming trend was noted to 2880m where both temperature in and temperature out showed a trend reversal and from 2880m to 3040m temperatures decreased. However delta T remained constant and this trend reversal was attributed to a decreasing ambient temperature at this time.

RFT's were run through the Latrobe sands and indicated that the formation was normally pressured at 8.35 ppg EMW and indicated a maximum formation pressure of 4048 psi at 2868.5m to give an extrapolated bottom hole pressure of 4292.4 psi. The RFT data indicates a near freshwater gradient for this well and hence a lower than estimated normal formation pressure gradient.

b) Fracture Pressure

A leak off test was run at 1144m and taken to a surface pressure of 1300 psi with a 9.2 ppg mud weight to give a formation fracture pressure of 16.0 ppg EMW. Fracture pressures while drilling remained above this to reach a maximum of 21.5 ppg EMW at 2840m (base of the Lakes Entrance Formation) and it was considered unlikely that any mud losses due to hydraulic fracturing would occur.

iii. Hydraulics Printouts

ESSO AUSTRALIA: Terakihi No.1
Date : 31 Mar 90 Time : 01:03

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	1.00	cP
YIELD POINT	2.00	lb/cft^2
POWER LAW k	.2318	
POWER LAW n	.4150	
DEPTH	551.00	m
VERTICAL DEPTH	551.00	m
DEPTH OF RETURNS	551.00	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	8.70	lb/gal
ACTIVE SURFACE MUD VOLUME	397	bbl
FLOW RATE	950	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	1000	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	20, 20, 20	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	406.76	404.26	26.000/ 5.000	35.8	61.8	LAMINAR	.1
406.76	424.00	17.24	26.000/ 6.500	36.7	63.3	LAMINAR	.0
424.00	490.10	66.10	26.000/ 6.500	36.7	63.3	LAMINAR	.0
490.10	527.80	37.70	26.000/ 8.000	38.0	64.9	LAMINAR	.0
527.80	551.00	23.20	26.000/ 9.750	40.1	67.0	LAMINAR	.0

MUD HYDROSTATIC	8.70 lb/gal
FLOW CONTRIBUTION	.00 lb/gal
CUTTINGS CONTRIBUTION	0.00 lb/gal
EQUIVALENT CIRCULATING DENSITY	8.70 lb/gal

SURFACE PRESSURE LOSS	1383 psi	NOZZLE VELOCITY	331.2 ft/sec
PIPEBORE PRESSURE LOSS	203 psi	HYDRAULIC POWER	472.1 hp
ANNULAR PRESSURE LOSS	0 psi	JET IMPACT FORCE	1416.7 lb
BIT PRESSURE LOSS	852 psi	% OF PRESS LOSS AT BIT	35
TOTAL CALC. PRESS LOSS	2438 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 190 s.p.m.	
1) Pipe Capacity	1172	28	234	1.2	
2) Pipe Displacement	1279	30	256	1.3	
3) Total Annulus	47179	1123	9436	49.7	<- LAG
4) Mud in active pits	16670	397	3334	17.5	
Circulation (1) + (3)	48350	1151	9670	50.9	
Hole Volume (1)+(2)+(3)	49629	1182	9926	52.2	
Total Mud Circulation	65020	1548	13004	68.4	

ESSO AUSTRALIA: Terakihi No.1
Date : 2 Apr 90 Time : 02:22

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	3.00 cP
YIELD POINT	1.00 lb/cft^2
POWER LAW k	.0274
POWER LAW n	.8074
DEPTH	750.00 m
VERTICAL DEPTH	750.00 m
DEPTH OF RETURNS	725.00 m
CUTTINGS BULK DENSITY	2.50 spc grv
MUD DENSITY	8.70 lb/gal
ACTIVE SURFACE MUD VOLUME	508 bbl
FLOW RATE	939 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2620 psi
PUMP CAPACITY	5.00 gal/stk
BIT NOZZLES	18, 18, 16

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	18.750/ 5.000	70.4	20.4	TURBULENT	.3
424.00	540.00	116.00	19.124/ 5.000	67.5	20.0	TURBULENT	.1
540.00	550.94	10.94	17.500/ 5.000	81.8	21.8	TURBULENT	.0
550.94	633.49	82.55	17.500/ 5.000	81.8	21.8	TURBULENT	.1
633.49	726.73	93.24	17.500/ 8.000	95.0	26.6	TURBULENT	.2
726.73	750.00	23.27	17.500/ 9.750	108.9	30.7	TURBULENT	.1

MUD HYDROSTATIC	8.70 lb/gal
FLOW CONTRIBUTION	.01 lb/gal
CUTTINGS CONTRIBUTION	.40 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.11 lb/gal

SURFACE PRESSURE LOSS	1352 psi	NOZZLE VELOCITY	434.3 ft/sec
PIPEBORE PRESSURE LOSS	639 psi	HYDRAULIC POWER	802.2 hp
ANNULAR PRESSURE LOSS	1 psi	JET IMPACT FORCE	1835.3 lb
BIT PRESSURE LOSS	1465 psi	% OF PRESS LOSS AT BIT	42
TOTAL CALC. PRESS LOSS	3457 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 188 s.p.m.
1) Pipe Capacity	1572	37	314	1.7
2) Pipe Displacement	1706	41	341	1.8
3) Total Annulus	30842	734	6168	32.9 <- LAG
4) Mud in active pits	21332	508	4266	22.7
Circulation (1) + (3)	32414	772	6483	34.5
Hole Volume (1)+(2)+(3)	34121	812	6824	36.4
Total Mud Circulation	53746	1280	10749	57.3

ESSO AUSTRALIA: Terakihi No.1
Date : 2 Apr 90 Time : 18:05

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	5.00	cP
YIELD POINT	5.00	lb/cft^2
POWER LAW k	.2706	
POWER LAW n	.5850	
DEPTH	1141.00	m
VERTICAL DEPTH	1141.00	m
DEPTH OF RETURNS	1141.00	m
CUTTINGS BULK DENSITY	2.60	spc grv
MUD DENSITY	9.45	lb/gal
ACTIVE SURFACE MUD VOLUME	555	bbl
FLOW RATE	930	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	3000	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	18, 18, 16	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	18.750/ 5.000	69.8	90.6	LAMINAR	.4
424.00	540.00	116.00	19.124/ 5.000	66.9	89.6	LAMINAR	.1
540.00	941.94	401.94	17.500/ 5.000	81.0	94.4	LAMINAR	.5
941.94	1024.5	82.55	17.500/ 5.000	81.0	94.4	LAMINAR	.1
1024.5	1117.7	93.24	17.500/ 8.000	94.1	106.8	LAMINAR	.2
1117.7	1141.0	23.27	17.500/ 9.750	107.9	116.5	LAMINAR	.1

MUD HYDROSTATIC	9.45 lb/gal
FLOW CONTRIBUTION	.01 lb/gal
CUTTINGS CONTRIBUTION	0.00 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.46 lb/gal

SURFACE PRESSURE LOSS	31 psi	NOZZLE VELOCITY	430.3 ft/sec
PIPEBORE PRESSURE LOSS	777 psi	HYDRAULIC POWER	847.8 hp
ANNULAR PRESSURE LOSS	1 psi	JET IMPACT FORCE	1957.5 lb
BIT PRESSURE LOSS	1562 psi	% OF PRESS LOSS AT BIT	66
TOTAL CALC. PRESS LOSS	2373 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 186 s.p.m.
1) Pipe Capacity	2529	60	506	2.7
2) Pipe Displacement	2097	50	419	2.3
3) Total Annulus	45522	1084	9104	48.9 <- LAG
4) Mud in active pits	23323	555	4665	25.1
Circulation (1) + (3)	48051	1144	9610	51.7
Hole Volume (1)+(2)+(3)	50148	1194	10030	53.9
Total Mud Circulation	71374	1699	14275	76.7

ESSO AUSTRALIA: Terakihi No.1
Date : 5 Apr 90 Time : 00:26

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	8.00	cP
YIELD POINT	40.00	lb/cft^2
POWER LAW k	12.1968	
POWER LAW n	.2224	
DEPTH	1150.00	m
VERTICAL DEPTH	1150.00	m
DEPTH OF RETURNS	1144.00	m
CUTTINGS BULK DENSITY	2.60	spc grv
MUD DENSITY	9.20	lb/gal
ACTIVE SURFACE MUD VOLUME	514	bbl
FLOW RATE	793	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	1870	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	18, 18, 18	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	18.750/ 5.000	59.5	506.0	LAMINAR	8.1
424.00	915.61	491.61	12.615/ 5.000	144.9	547.6	LAMINAR	24.1
915.61	998.16	82.55	12.615/ 5.000	144.9	547.6	LAMINAR	4.0
998.16	1124.0	125.84	12.615/ 8.000	204.3	585.7	LAMINAR	12.2
1124.0	1128.3	4.25	12.250/ 8.000	225.9	591.9	LAMINAR	.5
1128.3	1150.0	21.75	12.250/ 8.000	225.9	591.9	LAMINAR	2.4

MUD HYDROSTATIC	9.20	lb/gal
FLOW CONTRIBUTION	.26	lb/gal
CUTTINGS CONTRIBUTION	.05	lb/gal
EQUIVALENT CIRCULATING DENSITY	9.51	lb/gal

SURFACE PRESSURE LOSS	23 psi	NOZZLE VELOCITY	341.3 ft/sec
PIPEBORE PRESSURE LOSS	476 psi	HYDRAULIC POWER	442.9 hp
ANNULAR PRESSURE LOSS	51 psi	JET IMPACT FORCE	1289.2 lb
BIT PRESSURE LOSS	957 psi	% OF PRESS LOSS AT BIT	64
TOTAL CALC. PRESS LOSS	1507 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 159 s.p.m.	
1) Pipe Capacity	2501	60	500	3.2	
2) Pipe Displacement	2240	53	448	2.8	
3) Total Annulus	30526	727	6105	38.5	<- LAG
4) Mud in active pits	21588	514	4318	27.2	
Circulation (1) + (3)	33027	786	6605	41.6	
Hole Volume (1)+(2)+(3)	35267	840	7053	44.5	
Total Mud Circulation	54615	1300	10923	68.9	

ESSO AUSTRALIA: Terakihi No.1
Date : 6 Apr 90 Time : 03:04

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	6.00	cP
YIELD POINT	14.00	lb/cft^2
POWER LAW k	1.9365	
POWER LAW n	.3785	
DEPTH	1349.00	m
VERTICAL DEPTH	1349.00	m
DEPTH OF RETURNS	1340.21	m
CUTTINGS BULK DENSITY	2.30	spc grv
MUD DENSITY	9.30	lb/gal
ACTIVE SURFACE MUD VOLUME	542	bbl
FLOW RATE	782	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2750	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	16, 16, 16	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	18.750/ 5.000	58.7	236.8	LAMINAR	1.8
424.00	1114.6	690.61	12.615/ 5.000	142.9	273.7	LAMINAR	9.7
1114.6	1124.0	9.39	12.615/ 5.000	142.9	273.7	LAMINAR	.1
1124.0	1197.2	73.16	12.250/ 5.000	153.3	277.0	LAMINAR	1.1
1197.2	1327.3	130.09	12.250/ 8.000	222.7	315.5	LAMINAR	4.8
1327.3	1349.0	21.75	12.250/ 8.000	222.7	315.5	LAMINAR	.8

MUD HYDROSTATIC	9.30 lb/gal
FLOW CONTRIBUTION	.08 lb/gal
CUTTINGS CONTRIBUTION	.05 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.43 lb/gal

SURFACE PRESSURE LOSS	671 psi	NOZZLE VELOCITY	426.0 ft/sec
PIPEBORE PRESSURE LOSS	594 psi	HYDRAULIC POWER	687.4 hp
ANNULAR PRESSURE LOSS	18 psi	JET IMPACT FORCE	1603.4 lb
BIT PRESSURE LOSS	1507 psi	% OF PRESS LOSS AT BIT	54
TOTAL CALC. PRESS LOSS	2790 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 156 s.p.m.
1) Pipe Capacity	2988	71	598	3.8
2) Pipe Displacement	2439	58	488	3.1
3) Total Annulus	33837	806	6767	43.3 <- LAG
4) Mud in active pits	22756	542	4551	29.1
Circulation (1) + (3)	36825	877	7365	47.1
Hole Volume (1)+(2)+(3)	39264	935	7853	50.2
Total Mud Circulation	59581	1419	11916	76.2

ESSO AUSTRALIA: Terakihi No.1
Date : 7 Apr 90 Time : 03:38

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	6.00	cP
YIELD POINT	13.00	lb/cft^2
POWER LAW k	1.6521	
POWER LAW n	.3959	
DEPTH	1650.00	m
VERTICAL DEPTH	1650.00	m
DEPTH OF RETURNS	1641.20	m
CUTTINGS BULK DENSITY	2.30	spc grv
MUD DENSITY	9.43	lb/gal
ACTIVE SURFACE MUD VOLUME	522	bbl
FLOW RATE	760	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2800	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	16, 16, 16	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	20.000/ 5.000	49.7	214.9	LAMINAR	1.3
424.00	1124.0	700.00	12.615/ 5.000	138.9	256.3	LAMINAR	8.8
1124.0	1415.6	291.61	12.250/ 5.000	148.9	259.5	LAMINAR	4.0
1415.6	1498.2	82.55	12.250/ 5.000	148.9	259.5	LAMINAR	1.1
1498.2	1628.3	130.09	12.250/ 8.000	216.4	297.7	LAMINAR	4.4
1628.3	1650.0	21.75	12.250/ 8.000	216.4	297.7	LAMINAR	.7

MUD HYDROSTATIC	9.43	lb/gal
FLOW CONTRIBUTION	.07	lb/gal
CUTTINGS CONTRIBUTION	.04	lb/gal
EQUIVALENT CIRCULATING DENSITY	9.54	lb/gal

SURFACE PRESSURE LOSS	646 psi	NOZZLE VELOCITY	414.0 ft/sec
PIPEBORE PRESSURE LOSS	662 psi	HYDRAULIC POWER	639.8 hp
ANNULAR PRESSURE LOSS	20 psi	JET IMPACT FORCE	1535.7 lb
BIT PRESSURE LOSS	1443 psi	% OF PRESS LOSS AT BIT	52
TOTAL CALC. PRESS LOSS	2771 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 152 s.p.m.
1) Pipe Capacity	3725	89	745	4.9
2) Pipe Displacement	2739	65	548	3.6
3) Total Annulus	41578	990	8316	54.7 <- LAG
4) Mud in active pits	21907	522	4381	28.8
Circulation (1) + (3)	45303	1079	9061	59.6
Hole Volume (1)+(2)+(3)	48042	1144	9608	63.2
Total Mud Circulation	67210	1600	13442	88.4

ESSO AUSTRALIA: Terakihi No.1
Date : 8 Apr 90 Time : 04:24

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	6.00	cP
YIELD POINT	18.00	lb/cft^2
POWER LAW k	3.2961	
POWER LAW n	.3219	
DEPTH	1800.00	m
VERTICAL DEPTH	1800.00	m
DEPTH OF RETURNS	1789.10	m
CUTTINGS BULK DENSITY	2.60	spc grv
MUD DENSITY	9.45	lb/gal
ACTIVE SURFACE MUD VOLUME	582	bbl
FLOW RATE	780	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2600	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	15, 15, 15, 14	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	20.000/ 5.000	51.0	284.5	LAMINAR	2.3
424.00	1124.0	700.00	12.615/ 5.000	142.5	326.5	LAMINAR	13.5
1124.0	1564.9	440.88	12.250/ 5.000	152.9	329.7	LAMINAR	9.3
1564.9	1647.4	82.55	12.250/ 5.000	152.9	329.7	LAMINAR	1.7
1647.4	1800.0	152.57	12.250/ 8.000	222.1	367.2	LAMINAR	7.3

MUD HYDROSTATIC	9.45 lb/gal		
FLOW CONTRIBUTION	.11 lb/gal		
CUTTINGS CONTRIBUTION	.06 lb/gal		
EQUIVALENT CIRCULATING DENSITY	9.62 lb/gal		
SURFACE PRESSURE LOSS	679 psi	NOZZLE VELOCITY	374.6 ft/sec
PIPEBORE PRESSURE LOSS	665 psi	HYDRAULIC POWER	538.8 hp
ANNULAR PRESSURE LOSS	34 psi	JET IMPACT FORCE	1429.2 lb
BIT PRESSURE LOSS	1184 psi	% OF PRESS LOSS AT BIT	46
TOTAL CALC. PRESS LOSS	2562 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 156 s.p.m.	
1) Pipe Capacity	4091	97	818	5.2	
2) Pipe Displacement	2894	69	579	3.7	
3) Total Annulus	44070	1049	8814	56.5	<- LAG
4) Mud in active pits	24444	582	4889	31.3	
Circulation (1) + (3)	48161	1147	9632	61.7	
Hole Volume (1)+(2)+(3)	51055	1216	10211	65.5	
Total Mud Circulation	72605	1729	14521	93.1	

ESSO AUSTRALIA: Terakihi No.1
Date : 9 Apr 90 Time : 03:41

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	6.00	cP
YIELD POINT	17.00	lb/cft^2
POWER LAW k	2.9242	
POWER LAW n	.3344	
DEPTH	2235.00	m
VERTICAL DEPTH	2235.00	m
DEPTH OF RETURNS	2216.90	m
CUTTINGS BULK DENSITY	2.60	spc grv
MUD DENSITY	9.5	lb/gal
ACTIVE SURFACE MUD VOLUME	297	bbl
FLOW RATE	796	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2900	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	15, 15, 15, 14	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	20.000/ 5.000	52.0	270.5	LAMINAR	2.1
424.00	1124.0	700.00	12.615/ 5.000	145.4	312.3	LAMINAR	12.6
1124.0	1999.9	875.88	12.250/ 5.000	156.0	315.5	LAMINAR	17.3
1999.9	2082.4	82.55	12.250/ 5.000	156.0	315.5	LAMINAR	1.6
2082.4	2235.0	152.57	12.250/ 8.000	226.7	353.1	LAMINAR	6.9

MUD HYDROSTATIC	9.5	lb/gal
FLOW CONTRIBUTION	.1	lb/gal
CUTTINGS CONTRIBUTION	.1	lb/gal
EQUIVALENT CIRCULATING DENSITY	9.7	lb/gal

SURFACE PRESSURE LOSS	709 psi	NOZZLE VELOCITY	382.3 ft/sec
PIPEBORE PRESSURE LOSS	811 psi	HYDRAULIC POWER	575.7 hp
ANNULAR PRESSURE LOSS	41 psi	JET IMPACT FORCE	1496.3 lb
BIT PRESSURE LOSS	1240 psi	% OF PRESS LOSS AT BIT	44
TOTAL CALC. PRESS LOSS	2800 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 159 s.p.m.	
1) Pipe Capacity	5155	123	1031	6.5	
2) Pipe Displacement	3328	79	666	4.2	
3) Total Annulus	51309	1222	10262	64.5	<- LAG
4) Mud in active pits	12474	297	2495	15.7	
Circulation (1) + (3)	56464	1344	11293	70.9	
Hole Volume (1)+(2)+(3)	59792	1424	11958	75.1	
Total Mud Circulation	68938	1641	13788	86.6	

ESSO AUSTRALIA: Terakihi No.1
Date : 10 Apr 90 Time : 04:01

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	6.00	cP
YIELD POINT	17.00	lb/cft^2
POWER LAW k	2.9242	
POWER LAW n	.3344	
DEPTH	2506.00	m
VERTICAL DEPTH	2504.79	m
DEPTH OF RETURNS	2477.70	m
CUTTINGS BULK DENSITY	2.40	spc grv
MUD DENSITY	9.5	lb/gal
ACTIVE SURFACE MUD VOLUME	426	bbl
FLOW RATE	780	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2850	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	15, 15, 15, 14	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	20.000/ 5.000	51.0	270.5	LAMINAR	2.1
424.00	1124.0	700.00	12.615/ 5.000	142.5	312.3	LAMINAR	12.5
1124.0	2270.9	1146.9	12.250/ 5.000	152.9	315.5	LAMINAR	22.5
2270.9	2353.4	82.55	12.250/ 5.000	152.9	315.5	LAMINAR	1.6
2353.4	2506.0	152.57	12.250/ 8.000	222.1	353.1	LAMINAR	6.8

MUD HYDROSTATIC	9.5	lb/gal
FLOW CONTRIBUTION	.1	lb/gal
CUTTINGS CONTRIBUTION	.1	lb/gal
EQUIVALENT CIRCULATING DENSITY	9.7	lb/gal

SURFACE PRESSURE LOSS	683 psi	NOZZLE VELOCITY	374.6 ft/sec
PIPEBORE PRESSURE LOSS	854 psi	HYDRAULIC POWER	541.6 hp
ANNULAR PRESSURE LOSS	46 psi	JET IMPACT FORCE	1436.7 lb
BIT PRESSURE LOSS	1190 psi	% OF PRESS LOSS AT BIT	43
TOTAL CALC. PRESS LOSS	2772 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 156 s.p.m.	
1) Pipe Capacity	5819	139	1164	7.5	
2) Pipe Displacement	3599	86	720	4.6	
3) Total Annulus	55818	1329	11164	71.6	<- LAG
4) Mud in active pits	17896	426	3579	22.9	
Circulation (1) + (3)	61637	1468	12327	79.0	
Hole Volume (1)+(2)+(3)	65236	1553	13047	83.6	
Total Mud Circulation	79533	1894	15907	102.0	

ESSO AUSTRALIA: Terakihi No.1
Date : 11 Apr 90 Time : 01:59

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	15.00	cP
YIELD POINT	20.00	lb/cft^2
POWER LAW k	1.4627	
POWER LAW n	.5146	
DEPTH	2844.00	m
VERTICAL DEPTH	2842.27	m
DEPTH OF RETURNS	2827.54	m
CUTTINGS BULK DENSITY	2.40	spc grv
MUD DENSITY	9.5	lb/gal
ACTIVE SURFACE MUD VOLUME	546	bbl
FLOW RATE	800	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2900	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	15, 15, 15, 14	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	20.000/ 5.000	52.3	247.6	LAMINAR	1.5
424.00	1124.0	700.00	12.615/ 5.000	146.2	316.3	LAMINAR	12.3
1124.0	2608.9	1484.9	12.250/ 5.000	156.8	321.9	LAMINAR	29.2
2608.9	2691.4	82.55	12.250/ 5.000	156.8	321.9	LAMINAR	1.6
2691.4	2844.0	152.57	12.250/ 8.000	227.8	389.7	LAMINAR	8.0

MUD HYDROSTATIC	9.5	lb/gal
FLOW CONTRIBUTION	.1	lb/gal
CUTTINGS CONTRIBUTION	.1	lb/gal
EQUIVALENT CIRCULATING DENSITY	9.7	lb/gal

SURFACE PRESSURE LOSS	715 psi	NOZZLE VELOCITY	384.2 ft/sec
PIPEBORE PRESSURE LOSS	1536 psi	HYDRAULIC POWER	584.4 hp
ANNULAR PRESSURE LOSS	53 psi	JET IMPACT FORCE	1511.4 lb
BIT PRESSURE LOSS	1252 psi	% OF PRESS LOSS AT BIT	35
TOTAL CALC. PRESS LOSS	3557 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 160 s.p.m.	
1) Pipe Capacity	6646	158	1329	8.3	
2) Pipe Displacement	3937	94	787	4.9	
3) Total Annulus	61442	1463	12288	76.8	<- LAG
4) Mud in active pits	22936	546	4587	28.7	
Circulation (1) + (3)	68088	1621	13618	85.1	
Hole Volume (1)+(2)+(3)	72025	1715	14405	90.0	
Total Mud Circulation	91024	2167	18205	113.8	

ESSO AUSTRALIA: Terakihi No.1
Date : 12 Apr 90 Time : 03:30

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	16.00	cP
YIELD POINT	20.00	lb/cft^2
POWER LAW k	1.3635	
POWER LAW n	.5305	
DEPTH	2844.00	m
VERTICAL DEPTH	2844.00	m
DEPTH OF RETURNS	2836.00	m
CUTTINGS BULK DENSITY	2.60	spc grv
MUD DENSITY	9.5	lb/gal
ACTIVE SURFACE MUD VOLUME	478	bbl
FLOW RATE	220	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	550	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	21, 21, 21	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	20.000/ 5.000	14.4	243.7	LAMINAR	.7
424.00	1124.0	700.00	12.615/ 5.000	40.2	314.5	LAMINAR	6.1
1124.0	2657.4	1533.4	12.250/ 5.000	43.1	320.3	LAMINAR	15.0
2657.4	2740.0	82.55	12.250/ 5.000	43.1	320.3	LAMINAR	.8
2740.0	2823.8	83.81	12.250/ 8.000	62.7	390.8	LAMINAR	2.2
2823.8	2844.0	20.19	12.250/ 8.000	62.7	390.8	LAMINAR	.5

MUD HYDROSTATIC	9.5	lb/gal
FLOW CONTRIBUTION	.1	lb/gal
CUTTINGS CONTRIBUTION	.0	lb/gal
EQUIVALENT CIRCULATING DENSITY	9.6	lb/gal

SURFACE PRESSURE LOSS	65 psi	NOZZLE VELOCITY	70.6 ft/sec
PIPEBORE PRESSURE LOSS	173 psi	HYDRAULIC POWER	5.4 hp
ANNULAR PRESSURE LOSS	25 psi	JET IMPACT FORCE	76.4 lb
BIT PRESSURE LOSS	42 psi	% OF PRESS LOSS AT BIT	14
TOTAL CALC. PRESS LOSS	305 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 44 s.p.m.	
1) Pipe Capacity	6759	161	1352	30.7	
2) Pipe Displacement	3565	85	713	16.2	
3) Total Annulus	61700	1469	12340	280.5	<- LAG
4) Mud in active pits	20076	478	4015	91.3	
Circulation (1) + (3)	68459	1630	13692	311.2	
Hole Volume (1)+(2)+(3)	72025	1715	14405	327.4	
Total Mud Circulation	88535	2108	17707	402.4	

ESSO AUSTRALIA: Terakihi No.1
Date : 13 Apr 90 Time : 03:55

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	15.00	cP
YIELD POINT	20.00	lb/cft^2
POWER LAW k	1.4627	
POWER LAW n	.5146	
DEPTH	2862.50	m
VERTICAL DEPTH	2862.50	m
DEPTH OF RETURNS	2856.20	m
CUTTINGS BULK DENSITY	2.60	spc grv
MUD DENSITY	9.5	lb/gal
ACTIVE SURFACE MUD VOLUME	480	bbl
FLOW RATE	208	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	400	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	21, 21, 21	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	20.000/ 5.000	13.6	247.6	LAMINAR	.8
424.00	1124.0	700.00	12.615/ 5.000	38.0	316.3	LAMINAR	6.1
1124.0	2675.9	1551.9	12.250/ 5.000	40.8	321.9	LAMINAR	15.2
2675.9	2758.5	82.55	12.250/ 5.000	40.8	321.9	LAMINAR	.8
2758.5	2842.3	83.81	12.250/ 8.000	59.2	389.7	LAMINAR	2.2
2842.3	2862.5	20.19	12.250/ 8.000	59.2	389.7	LAMINAR	.5

MUD HYDROSTATIC	9.5 lb/gal
FLOW CONTRIBUTION	.1 lb/gal
CUTTINGS CONTRIBUTION	.0 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.6 lb/gal

SURFACE PRESSURE LOSS	58 psi	NOZZLE VELOCITY	66.7 ft/sec
PIPEBORE PRESSURE LOSS	165 psi	HYDRAULIC POWER	4.6 hp
ANNULAR PRESSURE LOSS	26 psi	JET IMPACT FORCE	68.3 lb
BIT PRESSURE LOSS	38 psi	% OF PRESS LOSS AT BIT	13
TOTAL CALC. PRESS LOSS	287 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 42 s.p.m.	
1) Pipe Capacity	6805	162	1361	32.7	
2) Pipe Displacement	3584	85	717	17.2	
3) Total Annulus	62008	1476	12402	298.1	<- LAG
4) Mud in active pits	20160	480	4032	96.9	
Circulation (1) + (3)	68813	1638	13763	330.8	
Hole Volume (1)+(2)+(3)	72396	1724	14479	348.1	
Total Mud Circulation	88973	2118	17795	427.8	

ESSO AUSTRALIA: Terakihi No.1
Date : 14 Apr 90 Time : 03:24

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	15.00	cP
YIELD POINT	19.00	lb/cft^2
POWER LAW k	1.3140	
POWER LAW n	.5272	
DEPTH	2881.00	m
VERTICAL DEPTH	2881.00	m
DEPTH OF RETURNS	2868.00	m
CUTTINGS BULK DENSITY	2.60	spc grv
MUD DENSITY	9.5	lb/gal
ACTIVE SURFACE MUD VOLUME	526	bbl
FLOW RATE	682	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2850	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	16, 16, 14	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	20.000/ 5.000	44.6	236.1	LAMINAR	1.3
424.00	1124.0	700.00	12.615/ 5.000	124.6	304.0	LAMINAR	10.6
1124.0	2618.2	1494.2	12.250/ 5.000	133.6	309.6	LAMINAR	25.4
2618.2	2700.7	82.55	12.250/ 5.000	133.6	309.6	LAMINAR	1.4
2700.7	2881.0	180.29	12.250/ 8.000	194.2	377.2	LAMINAR	8.3

MUD HYDROSTATIC	9.5 lb/gal
FLOW CONTRIBUTION	.1 lb/gal
CUTTINGS CONTRIBUTION	.1 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.6 lb/gal

SURFACE PRESSURE LOSS	532 psi	NOZZLE VELOCITY	402.9 ft/sec
PIPEBORE PRESSURE LOSS	1261 psi	HYDRAULIC POWER	547.7 hp
ANNULAR PRESSURE LOSS	47 psi	JET IMPACT FORCE	1350.9 lb
BIT PRESSURE LOSS	1377 psi	% OF PRESS LOSS AT BIT	43
TOTAL CALC. PRESS LOSS	3216 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 136 s.p.m.
1) Pipe Capacity	6698	159	1340	9.8
2) Pipe Displacement	4153	99	831	6.1
3) Total Annulus	61917	1474	12383	90.8 <- LAG
4) Mud in active pits	22092	526	4418	32.4
Circulation (1) + (3)	68615	1634	13723	100.6
Hole Volume (1)+(2)+(3)	72768	1733	14554	106.7
Total Mud Circulation	90707	2160	18141	133.0

ESSO AUSTRALIA: Terakihi No.1
Date : 15 Apr 90 Time : 03:48

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	15.00	cP
YIELD POINT	20.00	lb/cft^2
POWER LAW k	1.4627	
POWER LAW n	.5146	
DEPTH	3040.00	m
VERTICAL DEPTH	3038.40	m
DEPTH OF RETURNS	3034.60	m
CUTTINGS BULK DENSITY	2.60	spc grv
MUD DENSITY	9.5	lb/gal
ACTIVE SURFACE MUD VOLUME	444	bbl
FLOW RATE	675	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2900	psi
PUMP CAPACITY	5.00	gal/stk
BIT NOZZLES	16, 16, 14	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VEL. ft/min	CRIT VEL. ft/min	FLOW REGIME	PRESS LOSS psi
2.50	424.00	421.50	20.000/ 5.000	44.1	247.6	LAMINAR	1.4
424.00	1124.0	700.00	12.615/ 5.000	123.3	316.3	LAMINAR	11.3
1124.0	2777.2	1653.2	12.250/ 5.000	132.3	321.9	LAMINAR	29.8
2777.2	2859.7	82.55	12.250/ 5.000	132.3	321.9	LAMINAR	1.5
2859.7	3040.0	180.29	12.250/ 8.000	192.2	389.7	LAMINAR	8.7

MUD HYDROSTATIC	9.5 lb/gal
FLOW CONTRIBUTION	.1 lb/gal
CUTTINGS CONTRIBUTION	.0 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.6 lb/gal

SURFACE PRESSURE LOSS	522 psi	NOZZLE VELOCITY	398.8 ft/sec
PIPEBORE PRESSURE LOSS	1278 psi	HYDRAULIC POWER	531.3 hp
ANNULAR PRESSURE LOSS	53 psi	JET IMPACT FORCE	1323.7 lb
BIT PRESSURE LOSS	1349 psi	% OF PRESS LOSS AT BIT	42
TOTAL CALC. PRESS LOSS	3201 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 135 s.p.m.
1) Pipe Capacity	7087	169	1417	10.5
2) Pipe Displacement	4312	103	862	6.4
3) Total Annulus	64563	1537	12913	95.6 <- LAG
4) Mud in active pits	18665	444	3733	27.7
Circulation (1) + (3)	71650	1706	14330	106.1
Hole Volume (1)+(2)+(3)	75961	1809	15192	112.5
Total Mud Circulation	90314	2150	18063	133.8

D. CORE DESCRIPTIONS

CORE DESCRIPTIONS

CORE No.1: 2844m - 2862.5m
CUT: 18.5m
REC: 12.6m (68%)

Note: The core was cut using a fiberglass sleeve and descriptions are based on chip samples only.

2844.0m **SANDSTONE**: off white to light grey, clear to ligh grey grains, fine and very coarse (bimodal), very poorly sorted, rounded to subabgular, trace siliceous cement, very rare argillaceous and arenaceous matrix, trace lithics, very rare pyrite, good visual porosity. The sandstone has 60 - 70% moderately bright yellow - white solid to patchy fluorescence with a moderately fast streaming, moderately bright yellow/white cut fluorescence and a bright yellow/white crush cut fluorescence. Thin bright yellow ring residual. The sample had a strong hydrocarbon odour.

2845.0m **SANDSTONE**: off white, clear to off white, fine to very coarse, very poorly sorted, subangular to well rounded, no cement or matrix, trace carbonaceous flecks and lithic grains, very friable, excellent visual porosity. The sandstone has 50% moderately bright yellow/white patchey flourescence with a very fast to instant streaming cut and bright yellow thin ring residual. The sample had a hydrocarbon ordour.

2846.2m **SANDSTONE**: off white to light grey, clear to medium grey (smokey) grains, medium to very coarse, poorly sorted, subangular to rounded, no cement or matrix, trace lithic grains, firm, very good to excellent visual porosity. The sandstone has 70% - 90% bright yellow/white solid to patchey flourescence with a moderately bright fast streaming yellow white cut flourescence and a bright yellow/white thin ring residual. The sample had a strong hydrocarbon ordour.

2847.2m **SANDSTONE**: as above with 70% - 80% bright yellow/white solid to patchey fluorescence and instant bright yellow / white cut fluorescence with a bright yellow/white thin ring residule.

2848.4m **SANDSTONE**: as above becoming medium to conglomeratic with trace glauconite and biotite. The fluorescence was 40% moderately bright yellow/white with an instant moderately bright yellow/white cut fluorescence and a moderately bright thin ring residual.

5849.8m **SANDSTONE**: as above, dominantly very coarse, excellent visual porosity. The sandstone has 30% to 40% dull to dominantly moderately bright patchy to spotty yellow green to yellow white fluorescence with an instant moderately bright yellow white cut and a moderately bright yellow white thin ring residule. This sample had a hydrocarbon ordour.

2851.2m **SANDSTONE**: white to very light grey, clear to light grey grains, medium to conglomerativ, dominantly very coarse, poorly sorted, subrounded to well rounded, no cement or matrix, trace to common lithics, trace biotite, loose to very friable, execellent visual porosity. The sandstone has 5% to 10% dull to moderately bright yellow white spotty fluorescence with an instant dull yellow white cut flourescence and dull yellow white thin ring residule. The sample had a slight hydrocarbon ordour.

2852.4m **SANDSTONE**: as above, dominantly very coarse to conglomeratic and moderately sorted. The sandstone had 5% to 10% fluorescence and cut as above.

2853.8m **SANDSTONE**: as above with trace to 5% fluorescence and cut as above.

2855.2m **SANDSTONE**: as above with trace lithics pyrite and mica. The sandstone has trace to 5% dull yellow white very spotty fluorescence with a dull yellow white, moderately fast, cut fluorescence and a dull yellow white very thin ring residule and trace to moderate hydrocarbon odour.

2856.6m **SANDSTONE**: off white medium grey, clear to medium grey grains, medium to conglomeratic, dominantly very coarse, moderately sorted, subrounded to rounded, rare dolomite cement, trace to common siliceous cement, very rare silty matrix, trace to moderate lithic grains, hard to very hard, moderate visual porosity. The sandstone has 30% to 40% patchy moderately bright yellow white fluorescence with a moderately bright fast streaming yellow white cut fluorescence and a moderate hydrocarbon odour.

2856.6m - 2862.5m NO RECOVERY

CORE No.2: 2862.5m - 2881.0m
CUT: 18.5m
REC: 9.9m (53.5%)

2862.5m **SANDSTONE**: off white to light grey, clear to medium grey grains, fine to conglomeratic, dominantly very coarse, very poorly sorted, subangular to well sounded, no cement or matrix, trace muscovite and lithic fragments, trace pyrite, loose to friable, ececellent visual porosity. The sandstone has trace to 10% dull yellow white spotty fluorescence with a dull yellow white very slow pluming cut fluorescence and a dull to moderately bright very thin ring residual. The sample has a slight hydrocarbon odour.

2863.0m **SANDSTONE**: as above with trace to common lithics. The sandstone has a trace dull yellow green flourescence giving a very slow diffuse dull yellow green cut fluorescence and a very dull crush cut fluorescence with a very dull thin ring residual.

2865.5m **SANDSTONE**: as above with fluorescence and cut as above.

2866.8m **SANDSTONE**: off white to medium grey, occasionaly brown grey, clear to dark grey grains, fine to conglomeratic, very poorly sorted, subangular to well rounded, trace calcareous and dolomitic cement, trace siliceous cement, rare quartz overgrowths, trace brown grey argillaceous matrix, common lithic grains, trace glauconite and pyrite, trace mica, friable to moderately hard, good to very good visual porosity. The sandstone has a trace dull yellow to milky spotty fluorescence with a very dull milky slow even cut fluorescence and a dull yellow white cruch cut fluorescence with a dull yellow white thin ring residual.

2868.3m **SANDSTONE**: medium grey, clear to medium grey grains, fine to conglomeratic (bimodal), poorly sorted, subangular to subrounded, common to abundant dolomite cement, trace to common siliceous cement, trace calcareous cement, trace arenaceous and argillaceous matrix, trace carbonaceous flecks and mica, very hard, very poor visual porosity, trace dull orange mineral fluorescence with no cut or crush cut flourescence.

2869.7m **SANDSTONE**: medium grey, clear to medium grey grains, occasionaly light brown grey, fine to medium and conglomeratic (bimodal), moderately sorted, subangular to subrounded, trace dolomite and siliceous cement, trace argillaceous matrix, common lithic grains, trace carbonaceous flecks and mica, hard, poor to moderate visual porosity. The sandstone has a trace dull yellow green spotty fluorescence with no cut but a very weak dull yellow green crush cut and minor dull yellow green residual.

2871.1m **SANDSTONE**, medium to light grey, clear to light grey grains, fine to medium and conglomeratic (bimodal), poorly to moderately sorted, subangular to subrounded, (rounded where conglomeratic), trace dolomite and siliceous cement, trace grey argillaceous matrix, trace to common lithic grains, trace muscovite and pyrite, hard, moderate to good visual porosity. The sandstone has a trace dull yellow green spotty fluorescence with a slow diffuse very faint yellow green cut fluorescence and a very dull yellow green crush cut fluorescence.

2872.4m **SANDSTONE**: as above with trace glauconite and trace to 5% fluorescence and cut as above.

E. FORMATION EVALUATION LOG

PE602113

This is an enclosure indicator page.
The enclosure PE602113 is enclosed within the container PE903385 at this location in this document.

The enclosure PE602113 has the following characteristics:

ITEM_BARCODE	= PE602113
CONTAINER_BARCODE	= PE903385
NAME	= Formation Evaluation Log/Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Formation Evaluation Log/Mud Log (enclosure from Final Well Report--attachment to WCR) for Terakihi-1
REMARKS	=
DATE_CREATED	= 14/04/90
DATE_RECEIVED	= 22/06/90
W_NO	= W1025
WELL_NAME	= Terakihi-1
CONTRACTOR	= EXLOG
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)