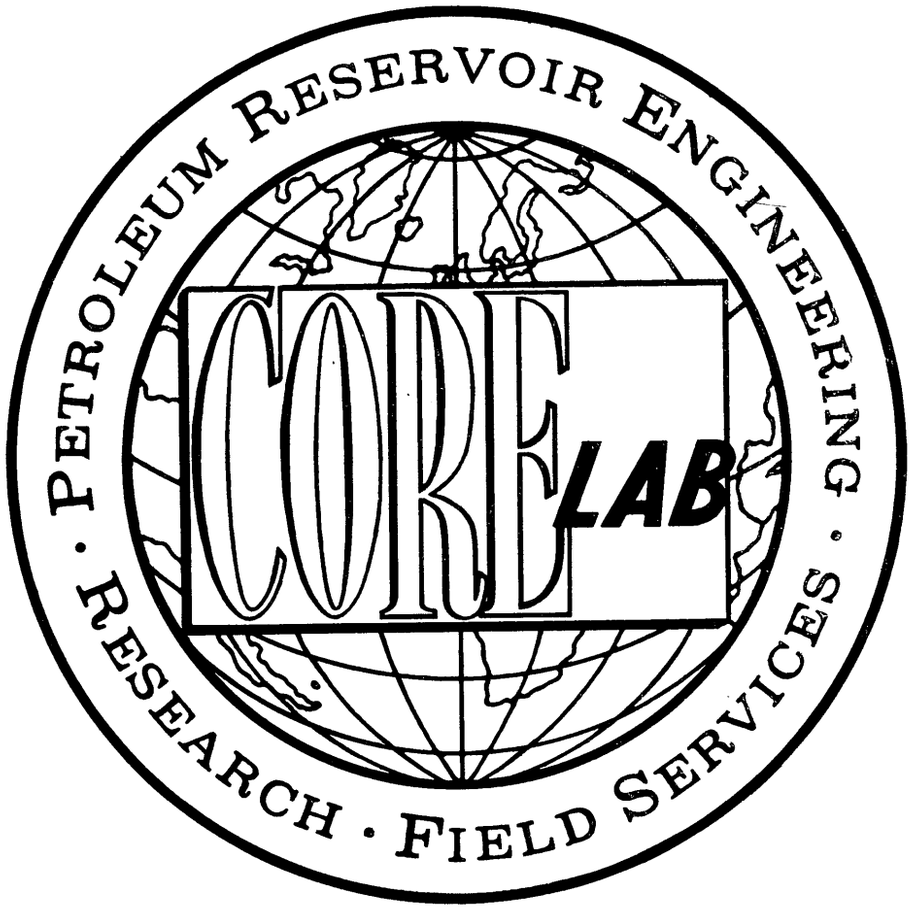
[redacted]

ATTACHMENT TO WCR OF SWEEP-1 (W704)



W704

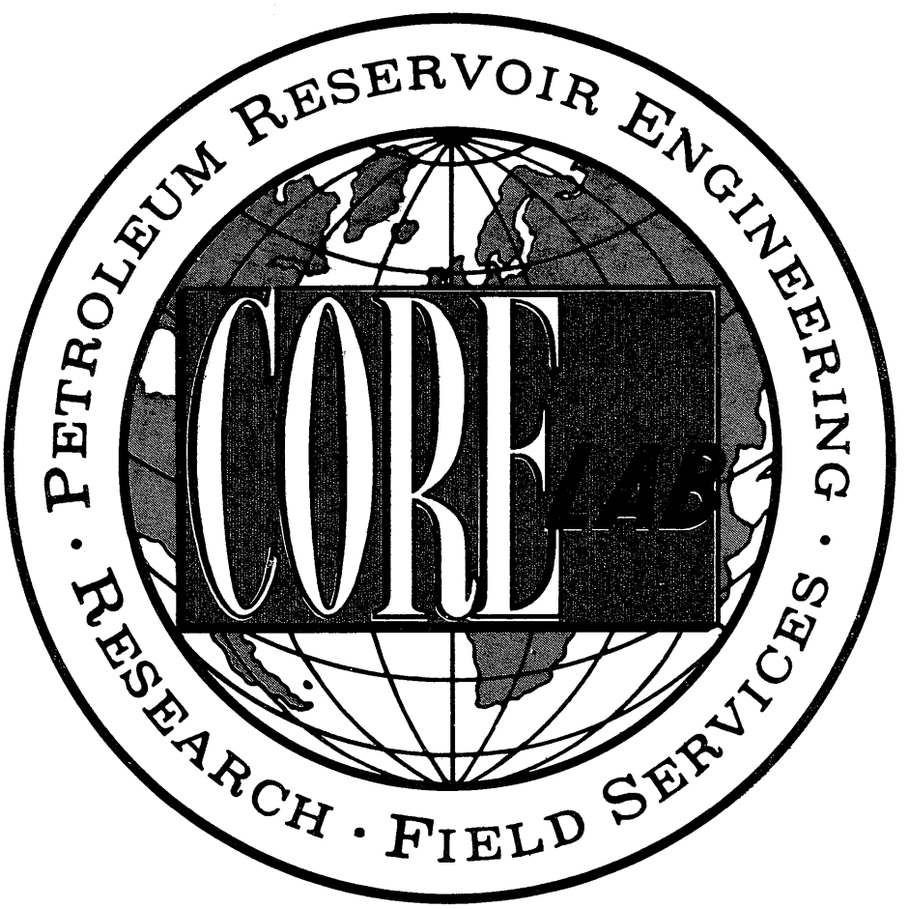
EXTENDED SERVICE

ESSO EXPLORATION AUSTRALIA, LTD,

SWEEP NO. 1

EXTENDED SERVICE WELL REPORT

OIL and GAS DIVISION



CORE LABORATORIES INTERNATIONAL LTD.

24A, LIM TECK BOO ROAD. SINGAPORE 19.

TELEPHONE:2821222; CABLE: CORELAB; TELEX: RS21423.

LTD.
CORE LABORATORIES INTERNATIONAL S.A.
Petroleum Reservoir Engineering
SINGAPORE

REPLY TO:
24-A, LIM TECK BOO ROAD,
SINGAPORE 19.
CABLE: CORELAB
TELEPHONE: 811222
TELEX: CORELAB RS 21423

27 th JULY 1978

ESSO AUSTRALIA , LTD .,
P.O. BOX 372,
SALE,
VICTORIA. 3850.
AUSTRALIA.

ATTENTION : L.D. ATTAWAY.

Dear Sir,

Enclosed with this well summary, for your inspection and reference, are all logs and relevant data (computer recorded, metre by metre) pertaining to the drilling of SWEEP #1. If you have any suggestions or queries on the presentation of this well summary and the data found within, do not hesitate to contact us.

CORE LABORATORIES appreciates being of assistance to ESSO AUSTRALIA during the entire drilling operations of SWEEP #1 and look forward to our continuing association on future exploratory work in AUSTRALIA.

Yours sincerely,

UNIT SUPERVISOR.

SWEEP NO. 1 was drilled by ESSO AUSTRALIA in the Gippsland Basin of Bass Strait. The Exploration well was drilled by ODECO's semi-submersible drilling rig - Ocean Endeavour. The well was spudded in a water depth of 68 metres on July 17 1978 and total depth of 90 metres was reached on July 26 1978.

Well location co-ordinates are:-

Latitude:	38°	03'	27.7" S
Longitude:	148°	38'	11.31" E

A Core Laboratories Extended Services fully integrated computer unit was located on board the Ocean Endeavour to monitor all drilling parameters below the 508mm casing depth. All computer data found within this report is stored on magnetic tape and can be retrieved at any time at the request of the client.

The Core Laboratories well-site crew consisted of:-

Unit Supervisor	-	K. Schiller
E.S. Engineer	-	A. Pietsch
E.S. Engineer	-	R. Wigham
Mud Loggers	-	D. Anderson
		G. Holmes
		P.Lane

WELL SUMMARY

SWEEP NO. 1 was spudded on July 17 1978, in a water depth of 68m, (Kelly Bushing to mean sea level being 93m). A 660.4mm hole was then drilled to 238mm with returns to the sea floor.

508mm casing was set at 227m, followed by B.O.P. and marine riser emplacement and subsequent testing.

A 44.5mm hole was drilled from 238 - 618mm. The lithology over this interval was of predominantly detrital limestone interbedded with soft marl, and some minor skeletal limestone immediately below the 508mm casing shoe. Drilling rates ranged from 195 - 32mm/hour, with an average drill rate of 60 - 50m/hour through the interbedded detrital limestone/marl section. Background gas was zero to a trace throughout the interval 238 - 618m, and no connection gas was recorded. The mud weight over this section was of S.G. 1.04 to 1.08 and all drilling parameters indicated an overbalanced hole.

At 580m the flowline became blocked with cuttings. Such a situation could possibly have been avoided by regular "flushing" of the riser through the choke/kill line or by controlling the rate of penetration. Wireline logs run at 618m included the following:

GR	95 - 606m
FDC	227.5 - 606m
ISF - SONIC	227.5 - 613.5m
CST'S	

340mm casing was set at 601m and drilling continued with a 311.15mm bit to 624. Here a P.I.T. produced a s.g. of 1.62 mud weight equivalent, with no leak off, and the mud weighted up to S.G. 1.34 in anticipation of possible shallow gas/oil pressure. Drilling with a 311.15mm bit continued. Lithology between 618 - 745mm

comprised of soft-sticky marl interbedded with rare detrital limestone and towards the base of the section grades to a firm mudstone. The drill rate ranged from 33-11m/hour, with an average of 18m/hour. Background gas over the interval averaged only a trace with a maximum of 1.5 wire units at 720m which corresponds to a faster drilling rate in the firmer mudstone. Trip gas of 4 units was recorded at 618m while no connection gas was observed throughout this section. All drilling variables indicated a well overbalanced hole.

The lithology from 745 - 775mm was a interbedded composite of red-brown pyritic siltstone, mudstone, crystalline pyrite, glauconite nodules and very fine to fine grained sandstone with no hydrocarbon shows. A drilling break at 762m was circulated out after a nagative flow check. Drilling rates over this interval ranged from 75 - 20m/hour and background gas was from 1 - 2 units, which is probably directly related to the increased drilling rate in these prospective reservoir 'cap rocks'.

The lithology from 775 - 900m was of predominantly medium to very coarse loose quartz sands at the top of the section which grade to fine to medium grained sandstones below, with rare interbeds of coal, claystone, dolomite and medium to coarse white feldspars. The loose sands and sandstones had no hydrocarbon shows. Rates of penetration through this section ranged from 160 - 10m/hour, while the faster rates generally corresponded to the loose quartz sands. Background gas was 1 - 2 units, with a peak of 8 units at 810m which reflects the fastest drilling rate of 160m/hour. No connection gas or trip gas were recorded during this interval and the relatively low gas observed while drilling the loose quartz sands suggests quite a high mud weight overbalance. All other drilling parameters also point to an overbalanced hole, and the subsequent electric logs show a high degree of 'washing out' in the hole especially in the loose sands.

The hole was conditioned prior to running the following Schlumberger wireline logs:

ISF - Sonic-MSFL	601 - 900.2m
FDC - CNL - GR	601 - 900.2m
HDT	601 - 900m
FIT'S (2)	801,795m
VELOCITY SURVEY	10 LEVELS
CST'S	600 - 900m REC. 51; Lost 9

FIT No. 1 at 801m was unsuccessful due to a blocked flow-line while FIT No. 2 at 795m failed to seat.

SWEEP NO. 1 reached a total depth of 900.0m at 00:10 hours on July 26 and was later plugged and abandoned.

CORE LABORATORIES EXTENDED SERVICE EQUIPMENT

A. MUDLOGGING

1 Hot Wire Gas Detector
1 Total FID Gas Chromatograph
1 FID Chromatograph
1 Carbon Dioxide Detector
1 Hydrogen Sulphide Detector
1 Cutting Gas Analyser
1 Shale Density Apparatus
1 Thermal Extractor (Steam Still)
1 U-V Light, Microscope and Other Geological Testing Equipment
6 Chart Recorders For All Drilling Parameters

B. CORE ANALYSING

1 Complete On-Site Core Analysis Equipment For Porosity, Permeability and Fluid Saturation Measurements.
1 Core Slabbing Saw

C. COMPUTER SYSTEM AND PERIPHERALS

2 Hewlett Packard 2100 Computers
2 Texas Instruments Keyboard-Send Receive Units
3 Computer Digital Displays
2 Hewlett Packard 7210A Plotters
4 Linc Tape Magnetic Recorders
1 Hewlett Packard HP65 Programmable Calculator

D. EXTERNAL SENSING APPARATUS INCLUDED

2 Mud Density Sensors
2 Mud Temperature Sensors
2 Mud Resistivity Sensors
1 Rotary Speed Sensor
1 Hookload Speed Sensor
1 Rotary Torque Sensor
1 Pump Pressure Sensor
1 Casing Pressure Sensor
1 Mud Flow Out Sensor
1 Gas Trap
1 Depth And Rate of Penetration Sensor
2 Pump Stroke Counters
3 Pit Level Sensors
1 Trip Tank Level Sensor
1 Six-Extension Intercom System

RIG DESCRIPTION

The Ocean Endeavour is a self-propelled octagonal shaped semi-submersible drilling rig, constructed for Ocean Drilling and Exploration Company by Transfield (WA) Pty. Ltd., Perth, Western Australia.

The unit is 320' long, 266' wide with 7,000 HP twin screw diesel electric propulsion. The hull consists of four parallel pontoons, each measuring 28' in diameter. Four 12" diameter and eight 24" diameter stabilising columns are connected to the four pontoons. The tops of the columns which support the main deck of the rig are 120' from the base of the pontoons. The unit has capabilities of drilling at 70' draft in water depths up to 1,000'. The Ocean Endeavour is designed to withstand waves up to 110' with 15 seconds periods, simultaneously with 3 knot current and 100 knot winds and still remain within the American Bureau of Shipping allowable stress levels.

RIG EQUIPMENT

1 Lee C. Moore 40' x 40' x 162' Cantilever Mast rated 1,400,000 API GNC.

1 Continental-Emsco C-3 Type 3 Drawworks grooved for 1.375" line, V-200 Parmac Hydromatic Brake, Emsco Catheads, Sandreel Assembly mounted on Drawworks, driven by three 1,000 HP DC Motors.

1 Continental-Emsco 37.5" Rotary Driven by 1,000 HP DC Motor with 2 speed transmission.

1 Continental-Emsco RA-60-6-1.375" Travelling Block, rated 650 ton.

1 Continental-Emsco 650 ton Swivel, L650.

1 Bryson-Jackson Hydrahook, rated 500 ton.

1 Lee C. Moore 6-60" Sheave Crown, 1-60" Fast Line Sheave.

1 Koomey Accumulator, 320 gallon, 3,000 psi W.P., with electric Master and Remote Panels.

1 18.75" 5,000 PSI Cameron BOP system with 600' 22" Vetco Marine Riser.

4 Riser Tensioners, 80,000 lbs. units.

1 Motion Compensator, Rucker 400,000 lbs.

2 Continental-Emsco FA-1300 Triplex Pumps, 6.5" X 12", driven by 1,300 HP DC Motor, each supercharged with a 5" x 6" Mission Centrifugal Pump.

1 Sub-Sea Television System.

2 Mission 6x 8R, H30 Centrifugal Mud Mix Pumps with 10.5" Impellers and 100 HP AC Motors.

3 Brandt double screen shale shakers.

10,000' 5" O.D. 19.5 lbs/ft., Grade E Drill Pipe.

5,000' 5" O.D. 19.5 lbs/ft., G-105 Drill Pipe.

30 8" O.D. Drill Collars.

24 6.5" O.D. Spiral Drill Collars.

2 Favco Cranes with 120' Booms, rated 40 tons at 30' radius and 23 tons at 90' radius.

1 Halliburton HT 400 Cement Unit, Pioneer T-16-4 Desilter, Pioneer T-10-6 Desander, PIT-O-Graph and Swaco Degasser.

8 Clarke Chapman 1 Drum Electric Anchor Windlasses, each with one 1,000 HP DC Motors, rated 440,000 lbs. pull.

8 30,000 lbs. LWT Anchors with 3,600' of 3" Steel Link Anchor Chain.

1 International Electric Corporation Offshore Technology Corporation, Adaptive Oceanography Data Reporting System for monitoring and recording, with Hole Position Indicator Recorder and Riser Angle Indicator Recorder.

STORAGE CAPACITY

Fuel	-	6,972 bbls.
Drill Water	-	14,320 bbls.
Potable Water	-	385 bbls.
Dry Mud	-	140 s. tons
Bulk Mud & Cement	-	9,600 cu. ft.
Liquid Mud	-	1,344 bbls.

DESCRIPTION OF LOGS

Core Laboratories Extended Service Package includes sensors, recorders and computer facilities useful in the prediction and measurement of abnormal formation pressures and in obtaining rapid, effective and safe drilling. In addition to plots of variables important for pressure detection and drilling optimisation there are available wireline log interpretation programs for the wellsite geologist, well bore hydraulics (synthesis and analysis), well kill, bit nozzle selection, swab and surge created by drill pipe movement, drill bit performance programmes for the wellsite drilling supervisors. As there are two computer systems on board, these programmes can be run while the main computer system is in the real-time drilling mode.

The E.S. Logs include the following:

E.S. Drill Log - Scale 1:5000

Information plotted on this log includes rate of penetration, 'd' exponent corrected for mud weights, total mud gas as measured by the hot wire detector, shale density of drilled cuttings, casing depth, bit runs, dates and other relevant drilling information. Both rate of penetration and total gas are plotted on a linear scale and shale density on a semi-log scale. The 'd' exponent is the primary overpressure detection plot. Corrected 'd' exponent, 'dcs' is rate of penetration normalised for rotary speed, weight on bit per inch of diameter and mud weight. The modification of 'dcs' was first implemented by Rhem and McClendon, to compensate for increases in mud weight. This particular procedure involves multiplying the standard 'd' exponent value by the inverse ratio of the mud weight increase. A multiplier of nine (9) was originally used for convenience to return the

magnitude of the 'dcs' to a comparable value of its uncorrected state. In Core Lab's real-time drilling programmes a multiplier of ten (10) is used. An overlay is used on the 'dcs' to give a quantitative measurement of formation pore pressure. This method of pore pressure prediction is very accurate for homogenous shales but where the sandstone/siltstone ratio varies a great deal, inaccuracies may occur, consequently all other variables are considered in assigning a value to pore pressure.

E.S. Temperature Log

The three variables on the Core Laboratories E.S. temperature log are:-

1. Temperature differential between suction and flowline drilling fluids, is on the left of the E.S. log.
2. Flowline temperature is the middle plot.
3. The end to end normalised flowline temperature is on the right of the log.

The temperature differential plot or delta T plot emphasizes changes in flowline temperature caused by surface effects such as mud addition or cooling during trips. Accompanying the plot are notations identifying the causes for temperature irregularities. The flowline temperature plot illustrates the change in flowline temperature during a bit run. Each bit run is labelled and the temperatures are logged to correspond to mud circulated from the bottom as the foot was cut. There are also notations to explain accountable variations. The end to end normalised flowline temperature plot is the principle interpretive plot. The information from the other two plots are taken into account, normalised and plotted as one continuous bit run. The flowline temperature is normalised for an annular velocity of 100 ft./

minute and a hole of constant diameter. There is also a compensation for specific changes in temperature of the drilling fluid. This factor is obtained by the implications of changes in surface dissipation of heat. For example, if the flowline mud temperature at the surface is reduced by an established 30^{o}F. then chemicals are added to the mud system, the temperature of the same quantity of mud is reduced only 15^{o}F. for the same initial flowline temperature and the same pit volume then the specific heat has changed by a factor of two. In this manner the correction for chemicals added can be accounted for from bit run to bit run as long as initial conditions are kept constant, including the same initial suction pit temperature at the start of the bit run. Along with this plot are temperature from Schlumberger electric log runs, the time after circulation and depth. When two or more points are available, there is projected bottomhole temperature obtained using inverse time versus log temperature plots, when bottomhole temperature is the temperature corresponding to the logrithmic value at 1/Time = 0.

E.S. Pressure Log

Information plotted on this log includes formation pore pressure, E.C.D. (equivalent circulating density) and formation fracture pressure. The formation pore pressure plotted on this log is estimated from all formation pressure indicators. This is a conclusion log, therefore plotted data may well be modified on results from formation breakdown tests (PIT Tests), FIT's or DST's. The E.S. pressure log is the best estimation of downhole formation pressure conditions by the Core Lab wellsite E.S. Engineer, based upon all relevant well data processed throughout the well drilling operations. This log is plotted on linear graph paper at a vertical scale of 1:5,000 to coincide with all other E.S. logs.

E.S. Geoplot 1

This log includes rate of penetration, corrected 'd' exponent, drilling correlative porosity, formation fracture pressure, pore pressure and equivalent circulating density. It is plotted by the computer, either during the actual drilling of the hole or after TD, from the drilling data stored on magnetic tape. Once again this log is plotted on a 1:5,000 vertical scale. The horizontal dashed lines indicate the initation of a new bit run.

E.S. Geoplot 2

This log is similar to the Geoplot 1 in that it is computer plotted. However the following variables are plotted:- weight on bit, rotary speed, pump pressure and mud density in.

WELL LOG PARAMETERS

1. Grapholog

   Scale 1:500, containing drilling rate, hot wire total gas, chromatographic analysis, percentage strip lithology, lithology descriptions and remarks column, casing points, individual bit runs, dates, mud data, deviation surveys and core descriptions.

2. E.S. Drill Log

   Scale 1:5,000, containing rate of penetration, hot wire total gas, corrected 'd' exponent, shale density, bit runs, dates and casing points.

3. E.S. Temperature Log

Scale 1:5,000, containing flowline temperature, delta T:- flowline temperature minus suction temperature, end to end plot (dimensionless).

4. E.S. Pressure Log

Scale 1:5,000, containing formation pore pressure, equivalent circulating density, formation fracture gradient.

5. E.S. Geoplot 1

Scale 1:5,000, containing rate of penetration corrected 'd' exponent, drilling porosity, formation pore pressure, equivalent circulating density and formation fracture gradient.

6. E.S. Geoplot 2

Scale 1:5,000, containing weight on bit, rotary RPM, mud density in and pump pressure.

EXTENDED SERVICE PACKAGE

1. ONLINE REALTIME DRILLING PROGRAM

The following parameters are calculated and monitored whilst this program is in operation.

Depth
Corrected D exponent
Drilling porosity
Pore Pressure
Torque
Bit life
Pump pressure
Mud flowrate in
Mud density in
Equivalent circulating density
R.P.M. (Rotary)
Cumulative bit turns
Fracture gradient
Mud density out
Time of day
Maximum Hookload
Plastic viscosity
Yield point
Bit time for economics calculations
Off bottom indicator
Mud temperature in
Mud temperature out
Mud resistivity in
Mud resistivity out
Mud flowrate out
Rate of penetration
Current hookload
Hydrostatic pressure

Casing pressure
Annular pressure loss
Trip margin
Rock matrix strength
Rock strength
Cost per foot
Bit life remaining
Bearing life remaining
String pressure loss
Bit pressure loss
Jet velocity
Impact force at bit
Hydraulic horsepower
Pit level (suction)
Pit level (Return)
Gas (%)
Annular volume
Mud density at bit
Overall pump efficiency
Systems flow exponent
String volume
Mud flowrate in (At computed efficiency)
Slipset indicator

2. ONLINE PLOTTING CAPABILITY

Standard plot of: Depth, rate of penetration, corrected D exponent, drilling porosity, pore pressure, equivalent circulating density, fracture gradient, (plot scaled to suit requirements).

Option to plot any of the following parameters on a plot scaled to suit client requirements, whilst in the real-time mode.

Rate of penetration
Corrected d exponent
Drilling porosity
Pore pressure
Effective circulating density
Fracture gradient
PIT volume (Total)
Cost per unit depth
Pump pressure
Stroke rate pump one
Stroke rate pump two
Torque
R.P.M. (Rotary)
Mud in temperature
Mud out temperature
Mud density in
Mud density out
Weight on bit
Rock strength
Bit tooth height remaining
Bearing life remaining
String pressure loss
Bit pressure loss

Jet velocity
Impact force
Hydraulic horsepower
Rock matrix strength
Pressure loss in the annulus
Hookload
Casing pressure
Mud resistivity in
Mud resistivity out
Mud flowrate in
Mud flowrate out
Hydrostatic pressure
Equivalent circulating density - pore pressure (differential)
Fracture gradient - equivalent circulating density
Mud temperature out - mud temperature in
Mud density out - mud density in

3. ONLINE REALTIME COMPUTER PRINTOUTS (5 OPTIONS)

SELECTION 1: Depth, time, rate of penetration, weight on bit, rotary R.P.M., mud density in, equivalent circulation density, pore pressure, fracture gradient, drilling porosity, corrected d exponent.

SELECTION 2: Depth, time, computed rock strength, mud temperature in, mud temperature out, mud resistivity in, mud resistivity out, yeild point, plastic viscosity, mud volumn in, mud density in override value, number of records.

SELECTION 3: Depth, steps, cumulative hours, weight on bit, maximum hookload, current hookload, weight on bit override value, strokes per minute (1), strokes per minute (2), pump pressure, casing pressure, hydrostatic pressure.

SELECTION 4: Depth, rate of penetration, rotary, R.P.M. weight on bit, mud density in, strokes per minute (1), strokes per minute (2), mud volume in, pump pressure, plastic viscosity, yeild point, mud temperature in, mud temperature out, mud resistivity out.

SELECTION 5: (Wide carriage printer format): Depth, time, rate of penetration, weight on bit, rotary R.P.M., mud density in, mud density out, equivalent circulating density, mud temperature in, mud temperature out, pore pressure, fracture gradient, drilling porosity, corrected d exponent, cumulative hours, pump stroke (1), pump stroke rate (2), mud volume in, pump pressure, casing pressure, weight on bit override, mud density out override, computed rock strength, gas.

Additional support programs are available for use by wellsite engineers, geologists and the E.S. personnel.

These include:
The following log analysis programs.

SHALY - Determination of porosity, volume of clays and saturations of fluids in the pore space and densities of the hydrocarbons.

RWASW - Calculation of porosity, fluid saturations formation factor and apparent fluid resistivity.

FCALC - Computation of formation factor from porosity.

RATIO - Water saturation as calculated by the ratio method.

SWCALC - Water saturation as calculated by the Archie formula.

CNLFDC - Porosity as determined from the CNL and FDC logs.

RWCALC	-	Calculation of formation water resistivity from RXO and RT values.
SPRW	-	Calculation of formation water resistivity, effective water resistivity, salinity, formation temperature from the S.P. log.
C PLOT	-	Program to cross plot resistivity and porosity data.
POROS	-	Calculation of porosity and formation factor from acoustic or FDC logs.
ND PLOT	-	The Neutron density cross plot program.
SD PLOT	-	The sonic density cross plot program.
DP PLOT	-	Program to calculate clay porosity values from sonic response and bulk density inputs.
S LOG A	-	A four part similar model interpretation
S LOG B	-	program designed to be utilized where the
S LOG C	-	rock matrix is composed primarily of one mineral though may be clean or shaly. Model allows data entry bore hole corrections and preliminary calculations cross plots. Interpretation and data listing.
CDM	-	Dip program for calculation of dip magnitude and Azimuth and the degree of orientation of the resistivity anisotrophy.
HDT	-	Program for calculation of the dip magnitude and Azimuth.

HYDRAULICS SUPPORT PROGRAMS

HYDRIL	-	Hole hydraulics program
OPTBIT	-	Bit hydraulics optimization program
SWAB	-	Swab and surge pressure calculations
JET	-	Jet selection program

SUPPLEMENTAL PROGRAMS

KICK - Well kill program

REDUC - Reduction of hydrostatic head by gas cut mud

COST - Bit economics program with break even analysis

FIT - General curve FIT program

LAG - Time and stroke lag computation program

TRIP - Trip monitor program

MUD DATA

PARAMETER		
Depth	.....	Metres
Mud Weight	.....	Pounds/Gallon
Funnel Viscosity	.....	A.P.I. Seconds
Plastic Viscosity	.....	Centipoise
Yield Point	.....	Pounds/100 Sq. Ft
Gel: Initial/10 Min.	.....	Pounds/100 Sq. Ft.
Filtrate	.....	CC
Cake Thickness	.....	32nd's of a inch
Salinity	.....	PPM
Solid/Sand/Oil	.....	Percentage Volume

CORE LAB

MUD INFORMATION DATA SHEET

ESP

UNIT NO. FL-176 SHEET NO. 1

COMPANY	WELL	LOCATION
ESSO AUSTRALIA	SWEEP - 1	GIPPSLAND BASIN

DEPTH	340	446	618	660	838	900	
DATE	21/7/78	22/7/78	22/7/78	25/7/78	25/7/78	26/7/78	
TIME	2245	0330	1800	0500	1830	2400	
WEIGHT	1.04	1.07	1.08	1.34	1.34	1.32	
FUNNEL VISCOSITY	32	33	38	53	40	45	
PLASTIC VISCOSITY	6	7	6	18	13	14	
YIELD POINT	10	12	12	15	17	14	
GEL INITIAL/10 MIN	5/12	5/11	3/8	5/14	3/9	3/10	
pH	9.0	9.0	10.1	10.4	10.5	10.5	
FILTRATE	-	-	15.9	6.4	6.7	6.8	
CAKE	2/32	2/32	2/32	2/32	2/32	1/32	
SALINITY	18000	18000	7000	5000	4000	3600	
SOLIDS/SAND/OIL	5/tr/-	5.5/tr/-	6/tr/-	14/tr/-	13/tr/-	11/.25/-	

REMARKS:

INCREASE MUD WEIGHT TO 1.34 S.G. AT 630 METRES.

DEPTH							
DATE							
TIME							
WEIGHT							
FUNNEL VISCOSITY							
PLASTIC VISCOSITY							
YIELD POINT							
GEL INITIAL/10 MIN							
pH							
FILTRATE							
CAKE							
SALINITY							
SOLIDS/SAND/OIL							

REMARKS:

COST PER METRE CHARTS

INTERVAL	.. ..	METRES
METERAGE	.. ..	METRES
BIT SIZE	.. ..	MILLIMETRES
JET SIZE	.. ..	MILLIMETRES
CONDITION	.. ..	TEETH/BEARING/GAUGE
COST	.. ..	DOLLARS PER METER (AUSTRALIAN)

HOURS AND BIT TURNS ARE THE ACTUAL HOURS AND TURNS ON BOTTOM.

COST PER METRE GRAPH

CORE LAB ESP

UNIT NO. FL-176 BIT NO. 2

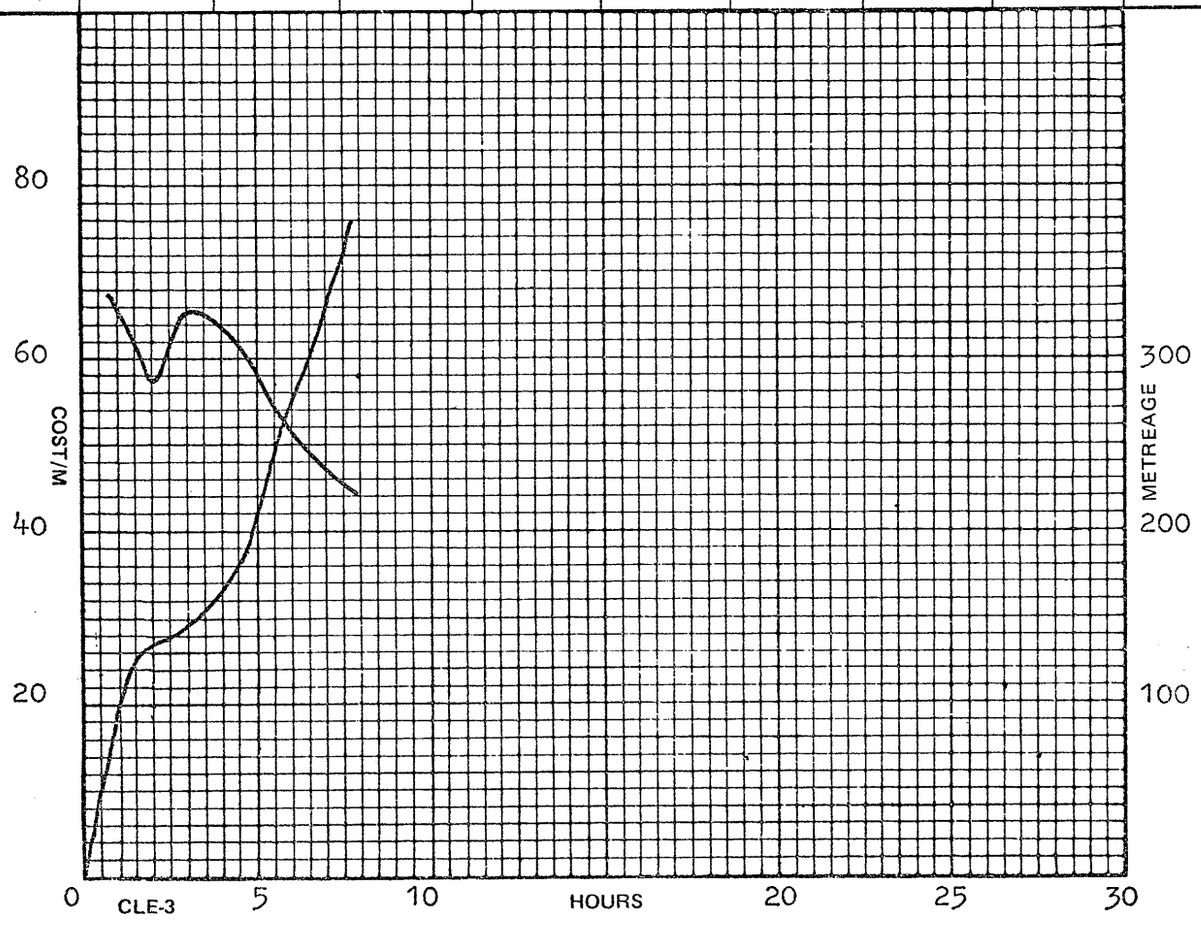
COMPANY	WELL	LOCATION	INTERVAL
ESSO AUSTRALIA	SWEEP - 1	GIPPSLAND BASIN	238 - 618m

BIT	TYPE	SIZE	METREAGE?	TOTAL REVS.
	HTC OSC 3AJ	444.5mm	380	50000
	COST $A 1582	JETS 3 x 15.9mm	HOURS RUN 7.8	CONDITION 1.3.I.

RIG COST/HR $1700

TRIP TIME 1.5

HRS	BIT-TURNS	DEPTH	ACC M	COST M	HRS	BIT-TURNS	DEPTH	ACC M	COST M
1	11000	325	87	67					
2	17000	370	132	57					
3	20000	380	142	65					
4	27000	405	167	65					
5	33000	450	212	60					
6	39000	518	280	51					
7	45000	568	330	48					
7.8	50000	618	380	46					



COST PER METRE GRAPH

CORE LAB **ESP**

UNIT NO. FL-176 BIT NO. 3

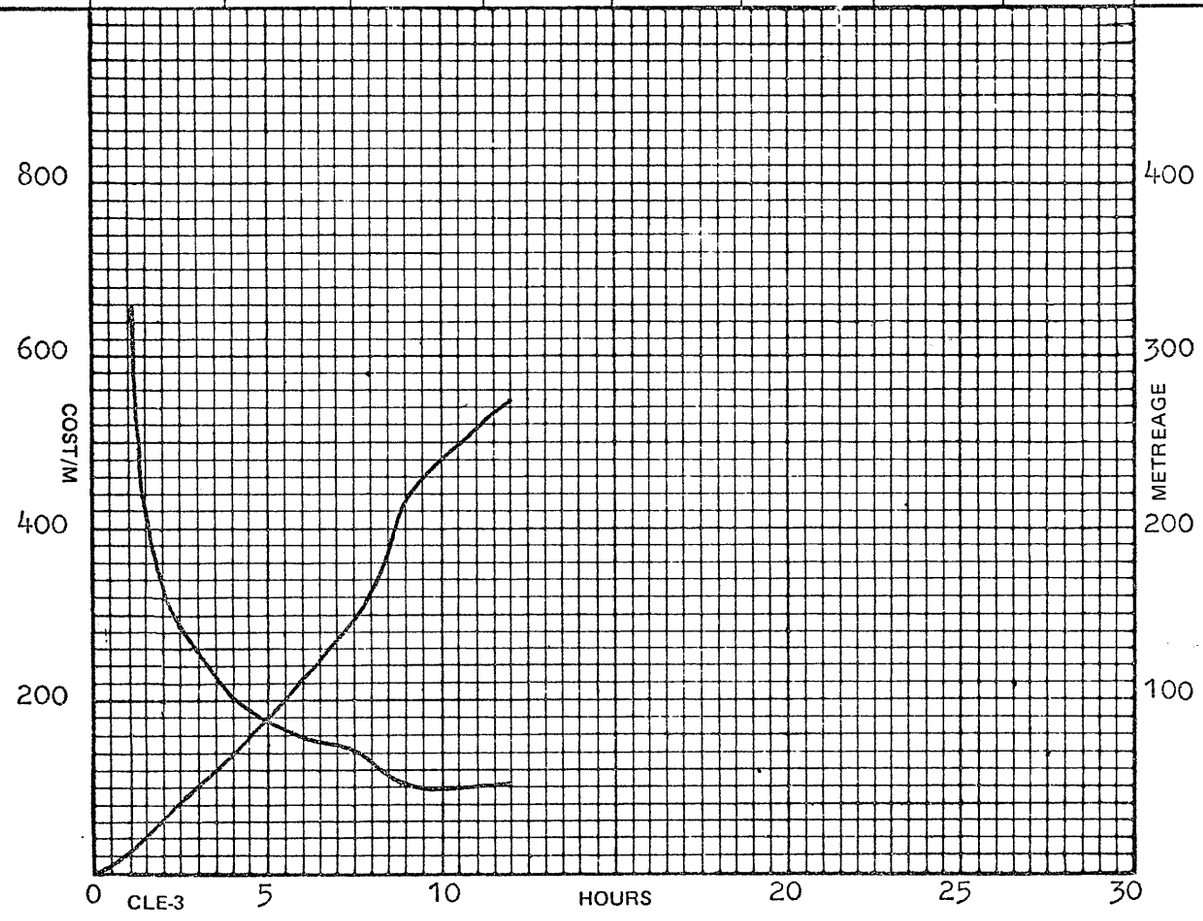
COMPANY	WELL	LOCATION	INTERVAL
ESSO AUSTRALIA	SWEEP - 1	GIPPSLAND BASIN	618 - 900m

BIT	TYPE	SIZE	METREAGE?	TOTAL REVS.
	HTC X3A	311.15mm	282m	69000
	COST	JETS	HOURS RUN	CONDITION
	$A 744	3 x 12.7mm	12	8.8.½"

RIG COST/HR $1700

TRIP TIME 4

HRS	BIT-TURNS	DEPTH	ACC M	COST M	HRS	BIT-TURNS	DEPTH	ACC M	COST M
1	5000	632	14	660					
2	9000	651	33	332					
3	16000	668	50	253					
4	22000	690	72	199					
5	27000	708	90	178					
6	33000	733	115	154					
7	39000	753	137	142					
8	45000	787	171	124					
9	51000	840	224	102					
10	57000	860	244	101					
11	63000	874	258	101					
12	69000	889	273	102					



BIT DATA

VARIABLE	UNITS
BIT INTERVAL	METRES
SIZE	MILLIMETRES
JETS	MILLIMETRES
BIT RUN	METRES
CONDITION	TEETH/BEARING/GAUGE
OD'S, ID'S	MILLIMETRES
LENGTH	METRES
DEPTH	METRES
WOB	THOUSANDS OF POUNDS
PUMP RATE	STROKES PER MINUTE
FLOW RATE	GALLONS PER MINUTE
PUMP PRESSURE	POUNDS PER SQUARE INCH
MUD WEIGHT	S.G.
PV	CENTIPOISE
YP	POUNDS PER 100 SQ. FT.
TEMPERATURE	CENTIGRADE
PRESSURE DROPS (P)	POUNDS PER SQUARE INCH
JET VELOCITY	METRES PER SECOND
ANN. VELOCITIES	METRES PER MINUTE
ECD	S.G.

BIT RUN DATA SHEET.

CORE LAB **ESP**

UNIT NO. FL-176 RUN NO. 3 BIT NO. 3

COMPANY	WELL	LOCATION	INTERVAL
ESSO AUSTRALIA	SWEEP - 1	GIPPSLAND BASIN	618 - 900m

BIT	MAKE	TYPE	BIT RUN	TOTAL REVS
	HTC	X3A	282m	69000
	SIZE	JETS	HOURS RUN	CONDITION
	311.15mm	3 x 12.7mm	12	8.8.½

DRILL STRING & BOTTOM HOLE ASSEMBLY		OD	ID	
	DRILL PIPE	127mm	108.61mm	LENGTH
	HW DRILL PIPE			
	DRILL COLLARS	203.2mm	76.2mm	146.24m
	HW DRILL COLLARS			

CASING & LINER	OD	ID	GRADE	SET AT	
	339.85mm	320.42mm		601m	HUNG AT.
RISER		476.25mm		L= 93m	

DEPTH	650	700	750	800	850	
WOB	23	20	16	13	27	
RPM	85	99	105	90	90	
PUMP RATE	75/78	73/78	74/79	65/63	77/75	
FLOWRATE	753	743	757	624	740	
PUMP PRESS	2900	2600	2650	2120	2580	
MW S.G.	1.34	1.34	1.34	1.34	1.34	
PV	18	18	18	22	22	
YP	15	15	15	16	16	
SAND %	tr	tr	tr	tr	tr	
TEMP.°C	33	36	38	42	39	
Psurface	76	74	76	57	78	
Pstring	570	579	614	480	676	
Pbit	1689	1638	1681	1176	1659	
Pannulus	13	13	14	14	16	
Ptotal	2348	2304	2385	1727	2429	
HHP	742	710	742	428	716	
IMPACTFORCE	1791	1741	1797	1239	1745	
JET VEL	124	123	124	103	124	
DC/OH	65	64	65	55	65	
DP/OH					45	
DP/CSG	42	42	42	35	41	
ECD	11.3	11.3	11.3	11.3	11.3	

REMARKS;

DRILLED OUT OF CASING. AT 627 METRES PERFORMED P.I.T. LEAK OFF TEST. NO FORMATION BREAKDOWN WITH 1.62 SG MUD WEIGHT EQUIVALENT.

DUMP A

DEPTH	-	Well depth in metres
TIME	-	Time of day in hours and minutes
ROP	-	Rate of penetration in metres per hour
WOB	-	Weight on bit in thousands of pounds
RPM	-	Rotary speed in revolution per minute
MID	-	Mud density in, in pounds per gallon
MDO	-	Mud density out, in pounds per gallon
ECD	-	Equivalent circulating density of the drilling fluid at the bottom of the hole. The sum of the hydrostatic pressure and the annular pressure drop, measured in pounds per gallon.
PP	-	Pore pressure gradient, in pounds per gallon, is the pressure exerted by the fluids in the pore space of the formation. It is determined by analysing deviations from the trend line of the drilling porosity.
FG	-	Fracture gradient is the pressure required to fracture the formation, expressed in pounds per gallon. It is derived from the pore pressure, calculated by the program using the Matthews and Kelly equation and an appropriate metric stress curve.
POR	-	Drilling porosity. This is the calculated porosity of the formation being drilled, derived from the general drilling equation. It is a function of the drilling variables: WOB, ROP, RPM, Toothwear, differential pressure and rock strength.
DEXP	-	Calculated 'd' exponent. The 'd' exponent is a function of WOB, ROP, RPM and hole size. A correction is made to the 'd' exponent for variations in mud density to give the corrected 'd' exponent.

DEPTH	TIME	ROP	WOB	RPM	MDI	MDO	ECD	PP	FG	PDR	DEXP
64											
NEW BIT ID: 2											
240.0	19:12	59.9	13	94	8.6	8.7	8.6	8.60	10.6	35.3	.82
242.0	19:14	62.3	12	93	8.6	8.7	8.7	8.60	10.6	39.3	.79
270.0	20: 8	112.2	12	95	8.6	8.7	8.8	8.60	10.8	49.9	.64
274.0	20:19	113.9	13	97	8.6	8.7	8.8	8.60	10.9	47.4	.66
276.0	20:19	154.3	10	101	8.6	8.7	8.9	8.60	10.9	56.7	.57
278.0	20:20	114.0	12	100	8.6	8.7	8.9	8.60	10.9	51.2	.65
294.0	20:51	121.0	15	100	8.6	8.7	8.8	8.60	11.0	43.9	.67
300.0	20:56	162.0	15	118	8.6	8.7	8.9	8.60	11.0	46.6	.64
304.0	20:59	195.7	17	135	8.6	8.7	9.0	8.60	11.1	46.8	.64
308.0	21:24	191.8	15	135	8.6	8.7	8.7	8.60	11.1	44.8	.64
86											
310.0	21:24	187.0	17	135	8.6	8.7	8.7	8.60	11.1	42.1	.67
320.0	22:23	137.1	13	135	8.6	8.7	8.7	8.60	11.1	44.0	.71
330.0	22:23	66.5	15	135	8.6	8.7	8.7	8.60	11.2	33.0	.90
340.0	22:38	86.1	17	135	8.6	8.7	8.8	8.60	11.2	33.3	.86
350.0	22:55	89.8	16	135	8.6	8.7	8.9	8.60	11.3	36.7	.84
360.0	23: 1	50.7	18	135	8.6	8.7	9.0	8.60	11.4	31.2	.98
370.0	23:19	41.9	18	135	8.6	8.7	8.8	8.60	11.4	23.7	1.06
372.0	23:56	41.3	18	130	8.7	8.7	8.8	8.60	11.4	23.5	1.06
374.0	23:56	66.4	18	130	8.7	8.7	8.8	8.60	11.4	30.3	.93
376.0	23:57	61.6	15	130	8.7	8.7	8.8	8.60	11.4	33.8	.91
100											
378.0	0:30	59.5	16	130	8.7	8.7	8.8	8.60	11.4	31.4	.93
380.0	0:30	66.5	15	130	8.7	8.7	8.8	8.60	11.5	35.9	.89
390.0	1: 9	32.1	17	130	8.7	8.7	8.8	8.60	11.5	24.6	1.09
400.0	2: 1	39.9	22	130	8.7	8.7	8.8	8.60	11.5	20.4	1.11
410.0	2:20	51.9	25	135	8.7	8.8	8.9	8.60	11.6	22.7	1.07
420.0	2:40	47.4	27	135	8.7	8.9	8.9	8.60	11.6	19.2	1.12
430.0	2:58	46.0	28	135	8.7	8.9	8.9	8.60	11.7	18.6	1.13
440.0	3: 8	64.0	23	135	8.7	8.9	9.0	8.60	11.7	28.8	.98
450.0	5:50	78.7	23	135	8.7	8.9	8.8	8.60	11.8	27.8	.95
460.0	6:10	87.8	24	135	9.0	8.9	9.3	8.60	11.8	36.1	.87
116											
470.0	6:27	72.8	25	135	8.8	8.9	9.0	8.60	11.8	29.5	.96
480.0	6:47	61.9	22	135	8.8	8.9	9.0	8.60	11.9	28.9	.98
490.0	7:40	66.2	22	142	8.8	8.9	8.9	8.60	11.9	28.8	.99
500.0	7:50	58.3	22	142	8.8	8.9	9.1	8.60	12.0	30.8	1.00
510.0	7:51	50.0	22	142	8.8	8.9	9.1	8.60	12.0	30.5	1.03
520.0	8:19	54.7	22	142	8.8	8.9	8.9	8.60	12.0	29.0	1.03
530.0	8:41	48.3	22	142	8.8	8.9	8.9	8.60	12.1	27.6	1.07
540.0	8:59	50.1	22	135	8.8	8.9	9.0	8.60	12.1	28.7	1.04
550.0	9: 2	46.7	22	135	8.8	8.9	9.1	8.60	12.1	29.7	1.05
560.0	9:27	51.9	24	135	8.8	8.9	8.9	8.60	12.2	27.4	1.06
131											
570.0	9:59	41.4	26	135	8.8	8.9	8.9	8.60	12.2	22.9	1.14
580.0	11:46	61.2	26	135	8.8	8.9	8.9	8.60	12.3	27.0	1.04
590.0	12: 1	63.8	26	130	8.8	8.9	9.0	8.60	12.3	29.2	1.00
600.0	12:41	40.6	26	130	8.8	8.9	8.9	8.60	12.3	23.3	1.14
610.0	0:15	38.5	31	130	8.8	8.9	8.9	8.60	12.4	18.6	1.21
618.0	0:26	45.0	30	130	8.8	8.9	9.0	8.60	12.4	22.8	1.14
NEW BIT ID: 3											
622.0	21:32	15.5	33	82	9.5	9.6	9.6	8.60	12.4	10.2	1.40

DEPTH	TIME	ROP	WOB	RPM	MDI	MDO	ECD	PP	FG	PDR	DEXP
149											
624.0	21:40	15.8	30	92	9.5	9.6	9.6	8.60	12.4	11.3	1.40
626.0	0: 0	17.0	20	78	11.2	11.2	11.3	8.60	12.4	44.0	1.01
628.0	1:57	15.2	20	105	11.2	11.2	11.3	8.60	12.4	40.0	1.10
630.0	2:21	9.3	20	67	11.2	11.2	11.3	8.60	12.4	38.7	1.11
632.0	2:40	12.6	21	67	11.2	11.2	11.4	8.60	12.4	41.3	1.05
634.0	2:50	14.5	21	71	11.2	11.2	11.4	8.60	12.4	41.1	1.05
636.0	2:56	21.5	23	73	11.2	11.2	11.4	8.60	12.5	45.0	.97
640.0	3:12	17.8	24	71	11.2	11.2	11.4	8.60	12.5	42.4	1.01
642.0	3:22	12.1	21	64	11.2	11.2	11.4	8.60	12.5	41.6	1.05
644.0	3:29	19.0	23	66	11.2	11.2	11.4	8.60	12.5	44.2	.97
166											
646.0	3:36	17.1	22	83	11.2	11.2	11.4	8.60	12.5	41.1	1.04
648.0	3:42	23.0	23	86	11.2	11.2	11.4	8.60	12.5	42.8	1.01
650.0	3:56	21.7	23	81	11.2	11.2	11.4	8.60	12.5	43.3	.99
652.0	4: 6	13.1	23	84	11.2	11.2	11.4	8.60	12.5	36.9	1.12
654.0	4:16	12.4	23	85	11.2	11.2	11.4	8.60	12.5	36.4	1.13
656.0	4:36	7.4	24	112	11.2	11.2	11.4	8.60	12.5	26.7	1.35
658.0	4:44	17.2	23	132	11.2	11.2	11.4	8.60	12.5	35.6	1.17
660.0	5: 2	34.8	24	128	11.2	11.2	11.4	8.60	12.5	42.3	1.02
662.0	5: 6	31.7	24	126	11.2	11.2	11.4	8.60	12.5	42.2	1.02
664.0	5: 9	36.9	24	127	11.2	11.2	11.4	8.60	12.5	44.4	.98
185											
666.0	5:14	26.3	25	124	11.2	11.2	11.4	8.60	12.5	39.9	1.07
670.0	5:29	22.0	24	88	11.2	11.2	11.4	8.60	12.6	42.8	1.00
672.0	5:35	18.7	25	123	11.2	11.2	11.4	8.60	12.6	36.5	1.14
674.0	5:39	29.2	25	128	11.2	11.2	11.4	8.60	12.6	40.9	1.05
676.0	5:53	14.4	23	85	11.2	11.2	11.4	8.60	12.6	37.9	1.10
678.0	6: 5	24.1	24	60	11.2	11.2	11.4	8.60	12.6	46.6	.91
680.0	6:10	25.1	24	93	11.2	11.2	11.4	8.60	12.6	42.6	1.00
682.0	6:17	16.1	24	102	11.2	11.2	11.4	8.60	12.6	37.2	1.12
684.0	6:22	26.7	23	103	11.2	11.2	11.4	8.60	12.6	43.8	.99
686.0	6:29	18.1	26	104	11.2	11.2	11.4	8.60	12.6	36.8	1.12
204											
688.0	6:38	16.8	21	76	11.2	11.2	11.4	8.60	12.6	43.2	1.01
690.0	6:49	12.8	22	96	11.2	11.2	11.4	8.60	12.6	35.6	1.16
692.0	6:58	13.5	21	98	11.2	11.2	11.4	8.60	12.6	37.7	1.12
694.0	7: 7	13.0	21	98	11.2	11.2	11.4	8.60	12.6	37.4	1.13
696.0	7:14	18.4	22	98	11.2	11.2	11.4	8.60	12.6	39.9	1.07
698.0	7:28	26.3	19	93	11.2	11.2	11.4	8.60	12.7	47.8	.93
700.0	7:33	22.9	20	99	11.2	11.2	11.4	8.60	12.7	44.7	.99
702.0	7:40	16.9	21	99	11.2	11.2	11.4	8.60	12.7	40.8	1.06
704.0	7:45	22.6	20	99	11.2	11.2	11.4	8.60	12.7	45.1	.98
708.0	8: 4	19.1	19	94	11.2	11.2	11.4	8.60	12.7	44.4	1.01
223											
710.0	8:11	18.3	15	101	11.2	11.2	11.4	8.60	12.7	49.0	.97
712.0	8:16	25.4	15	108	11.2	11.2	11.4	8.60	12.7	51.8	.92
714.0	8:20	29.1	18	107	11.2	11.2	11.4	8.60	12.7	49.7	.92
716.0	9:10	18.2	16	78	11.2	11.2	11.3	8.60	12.7	49.0	.94
718.0	9:15	27.0	16	103	11.2	11.3	11.3	8.60	12.7	50.6	.91
720.0	9:19	26.7	16	103	11.2	11.3	11.4	8.60	12.7	50.5	.91
722.0	9:24	29.2	18	103	11.2	11.3	11.4	8.60	12.7	49.8	.91
726.0	9:36	35.6	17	96	11.2	11.3	11.4	8.60	12.7	53.7	.84
728.0	9:40	26.0	17	101	11.2	11.3	11.4	8.60	12.7	50.0	.92
730.0	9:46	23.7	17	101	11.2	11.3	11.4	8.60	12.7	48.6	.94
243											

DEPTH	TIME	ROP	WOB	RPM	MDI	MDO	ECD	PP	FG	PDR	DEXP
243											
732.0	9:51	21.2	15	101	11.2	11.3	11.4	8.60	12.8	50.4	.93
734.0	10: 3	10.2	15	102	11.2	11.3	11.4	8.60	12.8	41.2	1.10
738.0	10:22	16.8	14	91	11.2	11.3	11.3	8.60	12.8	48.7	.96
740.0	10:30	16.0	14	94	11.2	11.3	11.3	8.60	12.8	48.6	.97
742.0	10:35	23.8	15	93	11.2	11.3	11.3	8.60	12.8	52.1	.89
744.0	10:43	14.7	15	93	11.2	11.3	11.3	8.60	12.8	45.8	1.01
746.0	11: 1	30.7	13	94	11.2	11.3	11.3	8.60	12.8	55.4	.86
748.0	11: 7	18.2	14	102	11.2	11.3	11.3	8.60	12.8	48.6	.97
750.0	11:12	23.1	15	105	11.2	11.3	11.3	8.60	12.8	49.7	.94
752.0	11:17	26.3	16	105	11.2	11.3	11.4	8.60	12.8	49.7	.92
263											
754.0	11:22	24.1	13	107	11.2	11.3	11.4	8.60	12.8	53.1	.90
756.0	11:36	34.3	17	98	11.2	11.3	11.4	8.60	12.8	52.5	.86
758.0	11:40	26.9	14	102	11.2	11.3	11.4	8.60	12.8	53.6	.88
760.0	11:45	25.6	15	92	11.2	11.3	11.4	8.60	12.8	52.2	.88
762.0	11:49	33.7	14	92	11.2	11.3	11.4	8.60	12.8	57.4	.80
764.0	12:22	32.3	18	85	11.2	11.3	11.3	8.60	12.8	50.8	.87
766.0	12:40	13.5	20	98	11.2	11.3	11.3	8.60	12.9	38.6	1.11
768.0	12:51	10.8	17	101	11.2	11.3	11.3	8.60	12.9	38.6	1.13
772.0	13:25	111.8	16	100	11.2	11.3	11.3	8.60	12.9	63.9	.64
774.0	13:33	172.0	16	87	11.2	11.3	11.4	8.60	12.9	72.0	.48
283											
778.0	13:35	113.9	16	101	11.2	11.3	11.4	8.60	12.9	66.0	.61
780.0	13:36	169.7	16	102	11.2	11.3	11.4	8.60	12.9	71.0	.51
782.0	14:14	135.2	17	102	11.2	11.3	11.3	8.60	12.9	66.2	.57
784.0	14:24	92.8	18	59	11.2	11.3	11.3	8.60	12.9	66.0	.54
786.0	14:27	34.4	14	105	11.2	11.3	11.4	8.60	12.9	56.3	.84
788.0	15:13	19.7	15	101	11.2	11.3	11.4	8.60	12.9	49.0	.95
790.0	15:14	67.2	15	98	11.2	11.3	11.3	8.60	12.9	61.3	.69
794.0	15:26	65.1	16	92	11.2	11.3	11.4	8.60	12.9	60.5	.70
796.0	15:30	41.8	16	95	11.2	11.3	11.4	8.60	12.9	53.8	.83
798.0	15:31	178.8	14	110	11.2	11.3	11.4	8.60	12.9	73.1	.50
303											
800.0	16: 5	128.8	13	79	11.2	11.3	11.3	8.60	13.0	73.3	.49
804.0	16:16	75.3	15	89	11.2	11.3	11.3	8.60	13.0	61.2	.69
806.0	16:25	14.5	15	106	11.2	11.3	11.4	8.60	13.0	43.8	1.03
808.0	16:27	173.8	15	107	11.2	11.3	11.4	8.60	13.0	71.6	.51
814.0	17:13	169.5	15	99	11.2	11.3	11.4	8.60	13.0	71.9	.50
816.0	17:15	52.4	15	102	11.2	11.3	11.4	8.60	13.0	58.1	.77
820.0	17:17	155.7	15	103	11.2	11.3	11.4	8.60	13.0	70.4	.53
822.0	17:28	146.3	20	74	11.2	11.3	11.4	8.60	13.0	44.4	.86
824.0	17:29	116.5	19	116	11.2	11.3	11.4	8.60	13.0	61.2	.66
826.0	17:36	25.8	18	121	11.2	11.3	11.4	8.60	13.0	44.1	1.02
321											
828.0	17:42	20.0	17	114	11.2	11.3	11.4	8.60	13.0	44.2	1.00
832.0	18: 7	54.8	16	96	11.2	11.3	11.4	8.60	13.0	56.6	.77
834.0	0: 0	27.6	21	98	11.2	11.3	11.4	8.60	13.0	44.6	.96
836.0	18:15	36.9	19	100	11.2	11.3	11.4	8.60	13.0	49.6	.87
838.0	18:19	32.4	22	98	11.2	11.3	11.4	8.60	13.1	45.2	.93
840.0	18:32	128.6	23	95	11.2	11.3	11.4	8.60	13.1	59.7	.61
842.0	18:37	23.3	24	102	11.2	11.3	11.4	8.60	13.1	39.2	1.05
844.0	18:44	18.0	23	101	11.2	11.3	11.4	8.60	13.1	37.9	1.09
846.0	18:54	12.3	29	96	11.2	11.3	11.4	8.60	13.1	30.2	1.23
852.0	19:13	19.9	27	90	11.2	11.3	11.4	8.60	13.1	36.9	1.08
341											

ESP 1010 ESSO SWEEP #1 PAGE 4 - A

DEPTH	TIME	ROP	WOB	RPM	MDI	MDO	ECD	PP	FG	PDR	DEXP
341											
854.0	19:18	22.4	27	95	11.2	11.3	11.4	8.60	13.1	37.9	1.06
856.0	19:26	17.4	26	97	11.2	11.3	11.4	8.60	13.1	35.2	1.13
858.0	19:33	18.1	23	96	11.2	11.3	11.4	8.60	13.1	38.2	1.08
860.0	19:47	22.6	23	97	11.2	11.3	11.4	8.60	13.1	40.7	1.02
862.0	20:32	17.3	22	97	11.2	11.3	11.4	8.60	13.1	38.8	1.07
864.0	20:39	17.5	20	100	11.2	11.3	11.4	8.60	13.1	40.7	1.05
866.0	20:53	9.3	21	102	11.2	11.3	11.4	8.60	13.1	32.1	1.23
868.0	21: 5	9.9	21	102	11.2	11.3	11.4	8.60	13.1	33.6	1.20
870.0	21:16	17.2	22	103	11.2	11.3	11.4	8.60	13.1	38.3	1.09
872.0	21:24	15.4	22	105	11.2	11.3	11.4	8.60	13.1	37.0	1.12
359											
874.0	21:35	11.2	22	109	11.2	11.3	11.4	8.60	13.1	33.4	1.20
876.0	21:43	18.4	22	108	11.2	11.3	11.4	8.60	13.2	37.8	1.10
878.0	21:55	25.2	22	111	11.2	11.3	11.4	8.60	13.2	36.7	1.13
880.0	22: 6	26.0	22	86	11.2	11.3	11.4	8.60	13.2	44.3	.95
882.0	22: 9	36.1	21	108	11.2	11.3	11.4	8.60	13.2	46.0	.93
884.0	22:15	25.8	21	106	11.2	11.3	11.4	8.60	13.2	42.0	1.02
886.0	22:31	8.1	21	111	11.2	11.3	11.4	8.60	13.2	30.6	1.26
888.0	22:40	13.2	21	115	11.2	11.3	11.4	8.60	13.2	35.4	1.16
890.0	23: 1	10.0	21	115	11.2	11.3	11.4	8.60	13.2	32.5	1.23
892.0	23:16	8.0	23	116	11.2	11.3	11.4	8.60	13.2	28.3	1.31
378											
894.0	23:43	4.6	23	116	11.2	11.3	11.4	8.60	13.2	22.4	1.44
896.0	23:50	16.4	23	110	11.2	11.3	11.4	8.60	13.2	36.2	1.13
900.0	0:10	33.8	26	116	11.2	11.3	11.4	8.60	13.2	38.8	1.06

DUMP B

RS	-	Calculated rock matrix strength. A dimensionless number derived from previous field data which relates to the strength of the rock.
MTI	-	The mud temperature in, in degrees centigrade.
MTO	-	Mud temperature out, in degrees centigrade.
MRO	-	The mud resistivity out, in ohm-metres.
YPM	-	The yield point of the mud in lbs/100 sq. ft.
PVM	-	The Plastic viscosity of the mud in centipoise.
MVI	-	The mud flow rate in gallons per minute, computed from the pump rate and pump output.
MDOV	-	The mud density override setting.

DEPTH	TIME	RS	MTI	MTO	MRI	MRO	YPM	PVM	MVI	MDOV	RECDS
	64										
				NEW BIT ID:	2						
240.0	19:12	2.23	14	13	.00	.31	13	8	1010	.0	1
242.0	19:14	2.10	14	13	.00	.31	13	8	1010	.0	2
270.0	20: 8	1.74	14	15	.00	.31	13	8	1048	.0	4
274.0	20:19	1.83	15	16	.00	.31	13	8	1000	.0	2
276.0	20:19	1.51	15	16	.00	.31	13	8	1055	.0	1
278.0	20:20	1.70	15	15	.00	.31	13	8	1060	.0	2
294.0	20:51	1.97	15	17	.00	.31	13	8	949	.0	2
300.0	20:56	1.87	15	17	.00	.31	13	8	1012	.0	2
304.0	20:59	1.87	15	18	.00	.31	13	8	958	.0	1
308.0	21:24	1.94	15	18	.00	.32	13	8	958	.0	1
	86										
310.0	21:24	2.04	15	19	.00	.37	13	8	1087	.0	1
320.0	22:23	1.98	16	20	.00	.35	13	8	1028	.0	2
330.0	22:23	2.37	15	21	.00	.32	13	8	1064	.0	2
340.0	22:38	2.37	15	21	.00	.32	13	8	1022	.0	2
350.0	22:55	2.26	13	21	.00	.33	13	8	1037	.0	1
360.0	23: 1	2.46	17	22	.00	.33	13	8	1096	.0	1
370.0	23:19	2.73	17	22	.00	.34	13	8	1079	.0	2
372.0	23:56	2.74	16	23	.00	.34	13	8	988	.0	1
374.0	23:56	2.50	16	24	.00	.34	13	8	1013	.0	1
376.0	23:57	2.38	16	24	.00	.34	13	8	1013	.0	1
	100										
378.0	0:30	2.47	16	25	.00	.34	13	8	1028	.0	1
380.0	0:30	2.30	16	25	.00	.35	13	8	1121	.0	1
390.0	1: 9	2.72	16	26	.00	.35	13	8	1107	.0	1
400.0	2: 1	2.88	16	28	.00	.35	13	8	1143	.0	2
410.0	2:20	2.80	16	29	.00	.34	13	8	1133	.0	1
420.0	2:40	2.94	17	29	.00	.32	13	8	1097	.0	2
430.0	2:58	2.97	24	29	.00	.31	13	8	1138	.0	2
440.0	3: 8	2.60	26	29	.00	.31	13	8	1068	.0	2
450.0	5:50	2.65	26	27	.00	.31	13	8	1119	.0	2
460.0	6:10	2.35	23	27	.00	.31	13	8	1002	.0	2
	116										
470.0	6:27	2.60	25	26	.00	.31	13	8	1072	.0	2
480.0	6:47	2.63	25	26	.00	.31	13	8	1078	.0	2
490.0	7:40	2.64	25	26	.00	.31	13	8	1103	.0	1
500.0	7:50	2.57	27	28	.00	.32	13	8	1408	.0	1
510.0	7:51	2.59	27	28	.00	.33	13	8	1415	.0	1
520.0	8:19	2.66	27	28	.00	.38	13	8	1415	.0	1
530.0	8:41	2.72	27	28	.00	.32	13	8	1402	.0	1
540.0	8:59	2.68	29	29	.00	.31	13	8	1373	.0	2
550.0	9: 2	2.65	29	29	.00	.31	13	8	1388	.0	2
560.0	9:27	2.75	29	28	.00	.32	13	8	1397	.0	2
	131										
570.0	9:59	2.92	29	29	.00	.32	13	8	1412	.0	2
580.0	11:46	2.78	28	28	.00	.31	13	8	1383	.0	2
590.0	12: 1	2.70	28	29	.00	.31	13	8	1395	.0	2
600.0	12:41	2.93	28	29	.00	.32	13	8	1341	.0	2
610.0	0:15	3.12	28	29	.00	.00	13	8	1408	.0	2
618.0	0:26	2.97	28	29	.00	.00	13	8	1398	.0	2
				NEW BIT ID:	3						
622.0	21:32	3.45	34	31	.00	.31	12	16	619	.0	2

DEPTH	TIME	RS	MTI	MTO	MRI	MRO	YPM	PVM	MVI	MDOV	RECDS
149											
624.0	21:40	3.42	33	31	.00	.31	12	16	620	.0	2
626.0	0: 0	2.16	33	31	.00	.31	20	16	864	.0	1
628.0	1:57	2.31	30	30	.00	.34	20	16	864	.0	1
630.0	2:21	2.36	31	31	.00	.33	20	16	864	.0	2
632.0	2:40	2.27	32	31	.00	.38	20	16	871	.0	2
634.0	2:50	2.27	32	32	.00	.44	20	16	876	.0	2
636.0	2:56	2.12	33	32	.00	.45	20	16	876	.0	2
640.0	3:12	2.23	33	33	.00	.45	20	16	869	.0	1
642.0	3:22	2.26	33	32	.00	.46	20	16	865	.0	2
644.0	3:29	2.16	33	33	.00	.46	16	20	852	.0	2
166											
646.0	3:36	2.28	33	33	.00	.46	16	20	852	.0	2
648.0	3:42	2.22	34	33	.00	.47	16	20	852	.0	2
650.0	3:56	2.20	34	33	.00	.47	16	20	855	.0	1
652.0	4: 6	2.45	34	33	.00	.48	16	20	841	.0	2
654.0	4:16	2.47	34	34	.00	.48	16	20	838	.0	2
656.0	4:36	2.85	34	34	.00	.48	16	20	840	.0	2
658.0	4:44	2.50	35	34	.00	.47	16	20	844	.0	2
660.0	5: 2	2.24	35	35	.00	.49	16	20	845	.0	2
662.0	5: 6	2.25	35	35	.00	.49	16	20	845	.0	2
664.0	5: 9	2.16	35	35	.00	.49	16	20	845	.0	2
185											
666.0	5:14	2.34	35	35	.00	.49	16	20	840	.0	2
670.0	5:29	2.23	35	35	.00	.49	16	20	831	.0	2
672.0	5:35	2.48	35	35	.00	.50	16	20	833	.0	2
674.0	5:39	2.31	35	35	.00	.50	16	20	831	.0	2
676.0	5:53	2.42	35	35	.00	.50	16	20	831	.0	2
678.0	6: 5	2.09	35	35	.00	.50	16	20	826	.0	1
680.0	6:10	2.24	35	35	.00	.50	16	20	829	.0	2
682.0	6:17	2.46	35	35	.00	.50	16	20	834	.0	2
684.0	6:22	2.20	35	35	.00	.50	16	20	839	.0	2
686.0	6:29	2.47	35	35	.00	.50	16	20	839	.0	2
204											
688.0	6:38	2.22	35	35	.00	.50	16	20	844	.0	1
690.0	6:49	2.52	35	35	.00	.50	16	20	814	.0	2
692.0	6:58	2.44	36	36	.00	.50	16	20	780	.0	2
694.0	7: 7	2.45	36	36	.00	.50	16	20	801	.0	2
696.0	7:14	2.36	36	36	.00	.50	16	20	801	.0	2
698.0	7:28	2.05	36	36	.00	.50	16	20	795	.0	1
700.0	7:33	2.17	36	36	.00	.50	16	20	801	.0	2
702.0	7:40	2.33	36	36	.00	.50	16	20	807	.0	2
704.0	7:45	2.16	36	36	.00	.50	16	20	807	.0	2
708.0	8: 4	2.19	36	36	.00	.50	16	20	803	.0	3
223											
710.0	8:11	2.01	36	36	.00	.50	16	20	802	.0	2
712.0	8:16	1.90	37	36	.00	.50	16	20	802	.0	2
714.0	8:20	1.99	37	36	.00	.50	16	20	802	.0	2
716.0	9:10	2.01	38	38	.00	.50	16	20	834	.0	2
718.0	9:15	1.95	38	37	.00	.50	16	20	788	.0	2
720.0	9:19	1.95	37	38	.00	.50	16	20	790	.0	2
722.0	9:24	1.99	38	38	.00	.50	16	20	791	.0	2
726.0	9:36	1.83	38	38	.00	.50	16	20	791	.0	2
728.0	9:40	1.98	38	38	.00	.50	16	20	779	.0	2
730.0	9:46	2.03	37	38	.00	.50	16	20	781	.0	2
243											

DEPTH	TIME	RS	MTI	MTO	MRI	MRO	YPM	PVM	MVI	MDOV	RECDS
243											
732.0	9:51	1.96	37	38	.00	.50	16	20	781	.0	2
734.0	10: 3	2.33	38	38	.00	.50	16	20	782	.0	2
738.0	10:22	2.04	38	38	.00	.50	16	20	791	.0	2
740.0	10:30	2.04	38	38	.00	.50	16	20	798	.0	2
742.0	10:35	1.90	38	38	.00	.50	16	20	798	.0	2
744.0	10:43	2.16	38	38	.00	.50	16	20	798	.0	2
746.0	11: 1	1.77	38	38	.00	.50	16	23	794	.0	2
748.0	11: 7	2.05	38	38	.00	.50	16	23	795	.0	2
750.0	11:12	2.00	38	38	.00	.50	16	23	795	.0	2
752.0	11:17	2.00	38	38	.00	.50	16	23	795	.0	2
263											
754.0	11:22	1.87	38	38	.00	.50	16	23	795	.0	2
756.0	11:36	1.90	38	38	.00	.50	16	23	799	.0	2
758.0	11:40	1.85	38	39	.00	.51	16	23	792	.0	2
760.0	11:45	1.91	39	39	.00	.50	16	23	767	.0	2
762.0	11:49	1.70	39	39	.00	.50	16	23	767	.0	2
764.0	12:22	1.97	40	40	.00	.51	16	23	773	.0	2
766.0	12:40	2.45	40	39	.00	.51	16	23	805	.0	2
768.0	12:51	2.46	39	39	.00	.51	16	23	804	.0	2
772.0	13:25	1.45	40	39	.00	.51	16	23	798	.0	3
774.0	13:33	1.12	40	41	.00	.51	16	23	813	.0	1
283											
778.0	13:35	1.36	40	41	.00	.51	16	23	821	.0	3
780.0	13:36	1.16	40	41	.00	.51	16	23	824	.0	2
782.0	14:14	1.36	42	42	.00	.50	16	23	790	.0	2
784.0	14:24	1.36	43	42	.00	.50	16	23	781	.0	1
786.0	14:27	1.76	42	42	.00	.50	16	23	812	.0	2
788.0	15:13	2.05	42	42	.00	.50	16	23	807	.0	2
790.0	15:14	1.56	41	42	.00	.50	16	22	740	.0	2
794.0	15:26	1.59	41	42	.00	.50	16	22	752	.0	2
796.0	15:30	1.86	41	41	.00	.50	16	22	765	.0	2
798.0	15:31	1.08	41	42	.00	.50	16	22	762	.0	2
303											
800.0	16: 5	1.08	41	42	.00	.50	16	22	706	.0	1
804.0	16:16	1.57	41	41	.00	.51	16	22	697	.0	2
806.0	16:25	2.27	41	41	.00	.52	16	22	665	.0	2
808.0	16:27	1.15	41	41	.00	.52	16	22	793	.0	2
814.0	17:13	1.14	41	41	.00	.42	16	22	811	.0	2
816.0	17:15	1.70	41	41	.00	.32	16	22	813	.0	2
820.0	17:17	1.20	41	41	.00	.32	16	22	816	.0	2
822.0	17:28	2.25	41	41	.00	.32	16	22	813	.0	1
824.0	17:29	1.57	41	41	.00	.32	16	22	807	.0	2
826.0	17:36	2.27	40	41	.00	.32	16	22	786	.0	2
321											
828.0	17:42	2.27	40	41	.00	.32	16	22	651	.0	2
832.0	18: 7	1.77	40	41	.00	.32	16	22	729	.0	2
834.0	0: 0	2.25	40	41	.00	.32	16	22	785	.0	2
836.0	18:15	2.05	39	41	.00	.32	16	22	763	.0	2
838.0	18:19	2.23	39	40	.00	.33	16	22	742	.0	2
840.0	18:32	1.64	39	39	.00	.33	16	22	750	.0	2
842.0	18:37	2.48	39	38	.00	.33	16	22	775	.0	2
844.0	18:44	2.53	39	39	.00	.33	16	22	777	.0	2
846.0	18:54	2.85	39	39	.00	.33	16	22	780	.0	2
852.0	19:13	2.58	39	39	.00	.40	16	22	780	.0	2
341											

EPTH	TIME	RS	MTI	MTD	MRI	MRD	YPM	PVM	MVI	MDOV RECDS	
341											
854.0	19:18	2.54	39	39	.00	.46	16	22	772	.0	2
856.0	19:26	2.65	39	39	.00	.45	16	22	773	.0	2
858.0	19:33	2.53	39	39	.00	.46	16	22	768	.0	2
860.0	19:47	2.43	39	39	.00	.48	16	22	771	.0	1
862.0	20:32	2.51	41	40	.00	.44	16	22	770	.0	2
864.0	20:39	2.43	41	41	.00	.44	16	22	769	.0	2
866.0	20:53	2.79	41	41	.00	.47	16	22	770	.0	2
868.0	21: 5	2.73	41	41	.00	.46	16	22	785	.0	2
870.0	21:16	2.53	41	41	.00	.44	16	22	790	.0	1
872.0	21:24	2.59	40	41	.00	.43	16	22	798	.0	2
359											
874.0	21:35	2.74	40	42	.00	.45	16	22	800	.0	2
876.0	21:43	2.56	41	42	.00	.47	16	22	803	.0	2
878.0	21:55	2.61	41	43	.00	.46	16	22	795	.0	2
880.0	22: 6	2.29	42	43	.00	.47	16	22	787	.0	1
882.0	22: 9	2.23	43	44	.00	.48	16	22	758	.0	2
884.0	22:15	2.39	43	44	.00	.48	16	22	758	.0	2
886.0	22:31	2.86	44	44	.00	.47	16	22	758	.0	2
888.0	22:40	2.66	44	44	.00	.46	16	22	758	.0	2
890.0	23: 1	2.79	44	45	.00	.46	16	22	766	.0	2
892.0	23:16	2.96	43	45	.00	.48	16	22	769	.0	2
378											
894.0	23:43	3.21	43	45	.00	.48	16	22	759	.0	2
896.0	23:50	2.64	43	45	.00	.50	16	22	769	.0	2
900.0	0:10	2.53	43	45	.00	.50	16	22	790	.0	2

DUMP C

DEPTH	-	Well depth in metres.
STEP	-	Depth increment in metres.
CHRS	-	Cumulative bit hours. The number of hours that the bit has actually been 'on bottom' as opposed to in the hole, recorded in decimal hours.
WOB	-	Weight on bit in thousands of pounds.
HKLDX	-	Maximum hookload. This is the total weight of the string. The value for maximum hookload picked up by the computer is the average value of the total weight of the string over a 5 second interval beginning after the rotary table has made five revolutions after the slips have been pulled. This value is then fixed in the computer memory until the next time the slips are set, when a new value is taken.
HKLD	-	Current hookload. This is the weight of the string when 'on bottom' i.e. whilst actually drilling. The difference between the maximum hookload is the computer calculated weight on bit.
BWOV	-	The weight on the bit setting. This is used in the event of a hookload sensor malfunction to enable the operator to inform the computer of the WOB in use.
SPM1	-	Stroke rate/minute for pump number 1.
SPM2	-	Stroke rate/minute for pump number 2.
PMPR	-	The pump pressure, psi.
PCSG	-	Casing pressure. This is the pressure exerted on the casing after the well has been shut in following a 'kick'
HSP	-	Hydrostatic pressure. This is the pressure exerted by the column of mud in the hole, measured in psi.

EPTH	STEP	CHRS	WOB	HKLDX	HKLD	BWOV	SPM1	SPM2	PMPR	PCSG	HSP
	64										
				NEW BIT ID:	2						
240.0	.0	.0	13	178	165	0	97.8	103.5	1320	0	352
242.0	2.0	.1	12	178	168	0	97.8	102.7	1320	0	357
270.0	28.0	.2	12	331	168	0	98.0	111.2	1429	0	392
274.0	4.0	.4	13	181	167	0	99.1	109.6	1315	0	411
276.0	2.0	.4	10	181	170	0	99.7	108.6	1453	0	415
278.0	2.0	.4	12	181	169	0	99.3	108.6	1466	0	419
294.0	16.0	.5	15	182	166	0	93.6	102.8	1196	0	441
300.0	6.0	.5	15	181	166	0	93.3	102.8	1350	0	447
304.0	4.0	.6	17	181	175	0	94.8	102.3	1216	0	463
308.0	4.0	.6	15	184	169	0	93.8	99.7	1219	0	455
	86										
310.0	2.0	.6	17	184	168	0	99.3	111.2	1552	0	459
320.0	10.0	.7	13	185	172	0	98.9	108.6	1403	0	470
330.0	10.0	.8	15	185	164	0	98.7	105.6	1495	0	484
340.0	10.0	.9	17	189	170	0	100.2	103.0	1394	0	504
350.0	10.0	1.1	16	187	172	0	101.8	103.0	1437	0	527
360.0	10.0	1.3	18	187	169	0	100.9	110.3	1597	0	553
370.0	10.0	1.4	18	186	167	0	100.8	110.6	1557	0	548
372.0	2.0	1.5	18	184	161	0	100.4	110.8	1335	0	553
374.0	2.0	1.6	18	184	166	0	91.0	103.9	1401	0	557
376.0	2.0	1.6	15	184	169	0	91.4	106.7	1403	0	562
	100										
378.0	2.0	1.6	16	181	168	0	96.4	105.6	1443	0	562
380.0	2.0	1.7	15	181	166	0	104.5	114.9	1692	0	567
390.0	10.0	2.0	17	181	165	0	104.8	113.1	1661	0	584
400.0	10.0	2.2	22	181	159	0	104.3	114.1	1771	0	594
410.0	10.0	2.4	25	191	162	0	103.2	117.6	1745	0	621
420.0	10.0	2.6	27	183	159	0	100.8	113.2	1648	0	629
430.0	10.0	2.8	28	188	159	0	102.7	115.5	1773	0	646
440.0	10.0	3.0	23	192	156	0	101.6	113.9	1577	0	670
450.0	10.0	3.1	23	183	145	0	98.0	107.9	1728	0	668
460.0	10.0	3.2	24	179	148	0	100.1	112.2	1488	0	724
	116										
470.0	10.0	3.4	25	193	154	0	104.1	110.2	1619	0	718
480.0	10.0	3.5	22	182	165	0	98.0	107.5	1638	0	726
490.0	10.0	3.7	22	188	164	0	102.7	106.5	1719	0	740
500.0	10.0	3.9	22	185	162	0	80.5	113.0	2722	0	768
510.0	10.0	4.1	22	185	167	0	97.8	104.8	2759	0	791
520.0	10.0	4.3	22	186	163	0	99.2	107.4	2762	0	789
530.0	10.0	4.5	22	171	160	0	105.5	102.9	2725	0	804
540.0	10.0	4.6	22	196	155	0	96.4	111.6	2627	0	819
550.0	10.0	4.8	22	186	162	0	92.3	108.3	2690	0	844
560.0	10.0	5.0	24	188	161	0	96.1	108.7	2727	0	846
	131										
570.0	10.0	5.3	26	189	167	0	76.6	109.6	2786	0	860
580.0	10.0	5.4	26	190	167	0	96.6	104.1	2690	0	871
590.0	10.0	5.6	26	201	164	0	99.1	107.2	2743	0	897
600.0	10.0	5.8	26	197	162	0	99.5	107.1	2559	0	906
610.0	10.0	6.1	31	0	0	0	102.5	106.0	2800	0	916
618.0	8.0	6.3	30	0	0	0	102.0	107.0	2775	0	944
				NEW BIT ID:	3						
622.0	4.0	.2	33	194	160	0	37.3	36.2	1332	0	1007

DEPTH	STEP	CHRS	WOB	HKLDX	HKLD	BWOV	SPM1	SPM2	PMPR	PCSG	HSP
	149										
624.0	2.0	.4	30	194	164	0	38.8	35.8	1338	0	1013
626.0	2.0	.5	20	194	166	0	71.0	77.0	2870	0	1195
628.0	2.0	.6	20	182	170	0	71.1	77.2	2870	0	1199
630.0	2.0	.8	20	184	165	0	71.1	76.7	2870	0	1202
632.0	2.0	1.0	21	188	166	0	73.4	80.4	2921	0	1205
634.0	2.0	1.1	21	189	171	0	73.7	80.8	2956	0	1212
636.0	2.0	1.2	23	189	166	0	73.9	80.7	2954	0	1219
640.0	4.0	1.5	24	189	165	0	73.9	80.9	2918	0	1228
642.0	2.0	1.6	21	189	168	0	73.6	78.2	2890	0	1231
644.0	2.0	1.8	23	189	166	0	75.0	78.0	2913	0	1235
	166										
646.0	2.0	1.9	22	189	167	0	75.2	78.0	2910	0	1239
648.0	2.0	2.0	23	189	166	0	75.2	77.3	2919	0	1242
650.0	2.0	2.1	23	190	166	0	75.1	78.2	2931	0	1247
652.0	2.0	2.2	23	190	167	0	79.3	77.0	2843	0	1250
654.0	2.0	2.4	23	190	167	0	73.8	75.5	2821	0	1254
656.0	2.0	2.7	24	190	166	0	78.1	77.1	2841	0	1258
658.0	2.0	2.9	23	190	167	0	74.5	76.8	2862	0	1262
660.0	2.0	2.9	24	189	160	0	74.4	77.3	2872	0	1266
662.0	2.0	3.0	24	189	159	0	72.6	77.8	2877	0	1271
664.0	2.0	3.1	24	189	159	0	72.3	77.8	2879	0	1276
	185										
666.0	2.0	3.1	25	189	164	0	72.3	78.0	2847	0	1281
670.0	4.0	3.3	24	189	165	0	72.3	76.7	2787	0	1287
672.0	2.0	3.4	25	189	161	0	72.6	78.5	2797	0	1290
674.0	2.0	3.5	25	189	160	0	70.3	77.4	2778	0	1293
676.0	2.0	3.6	23	189	163	0	70.6	77.3	2792	0	1297
678.0	2.0	3.7	24	189	165	0	72.9	74.4	2761	0	1302
680.0	2.0	3.8	24	189	165	0	85.7	74.0	2776	0	1305
682.0	2.0	3.9	24	189	165	0	73.0	76.5	2815	0	1309
684.0	2.0	4.0	23	189	166	0	73.3	77.8	2848	0	1313
686.0	2.0	4.1	26	189	163	0	73.9	77.8	2838	0	1317
	204										
688.0	2.0	4.3	21	189	168	0	73.8	82.1	2876	0	1321
690.0	2.0	4.4	22	189	167	0	71.6	82.9	2693	0	1324
692.0	2.0	4.6	21	189	168	0	70.4	74.6	2477	0	1328
694.0	2.0	4.7	21	189	168	0	75.6	76.0	2610	0	1332
696.0	2.0	4.8	22	189	167	0	75.4	75.4	2613	0	1336
698.0	2.0	4.9	19	189	170	0	74.9	75.7	2576	0	1340
700.0	2.0	5.0	20	189	169	0	73.3	78.0	2609	0	1343
702.0	2.0	5.1	21	189	168	0	74.9	79.1	2653	0	1347
704.0	2.0	5.2	20	190	170	0	73.4	79.5	2649	0	1351
708.0	4.0	5.4	19	190	171	0	73.7	78.4	2626	0	1357
	223										
710.0	2.0	5.5	15	190	175	0	74.6	77.2	2628	0	1363
712.0	2.0	5.6	15	190	175	0	81.1	77.9	2631	0	1366
714.0	2.0	5.7	18	190	172	0	75.6	77.9	2634	0	1370
716.0	2.0	5.8	16	191	176	0	75.7	82.1	2830	0	1366
718.0	2.0	5.9	16	191	174	0	75.7	75.8	2547	0	1372
720.0	2.0	6.0	16	191	178	0	75.7	75.7	2559	0	1379
722.0	2.0	6.0	18	191	173	0	75.7	74.9	2559	0	1385
726.0	4.0	6.1	17	191	174	0	75.7	67.3	2569	0	1394
728.0	2.0	6.2	17	191	174	0	75.7	74.9	2493	0	1400
730.0	2.0	6.3	17	191	174	0	75.7	74.1	2504	0	1404
	243										

DEPTH	STEP	CHRS	WOB	HKLDX	HKLD	BWOV	SPM1	SPM2	PMPR	PCSG	HSP
243											
732.0	2.0	6.4	15	191	176	0	75.7	74.2	2507	0	1408
734.0	2.0	6.6	15	191	176	0	75.7	73.9	2515	0	1408
738.0	4.0	6.8	14	192	177	0	75.8	75.3	2576	0	1411
740.0	2.0	6.9	14	193	179	0	76.1	77.7	2615	0	1415
742.0	2.0	7.0	15	193	178	0	76.2	77.6	2624	0	1419
744.0	2.0	7.1	15	193	178	0	76.3	76.3	2623	0	1423
746.0	2.0	7.3	13	193	180	0	76.6	76.1	2635	0	1427
748.0	2.0	7.4	14	193	179	0	73.7	79.7	2644	0	1430
750.0	2.0	7.5	15	193	178	0	73.7	79.3	2653	0	1434
752.0	2.0	7.5	16	193	177	0	74.8	79.5	2655	0	1439
263											
754.0	2.0	7.6	13	193	180	0	74.3	79.9	2658	0	1445
756.0	2.0	7.7	17	193	176	0	72.8	81.8	2677	0	1448
758.0	2.0	7.8	14	195	180	0	72.6	80.9	2633	0	1452
760.0	2.0	7.8	15	195	180	0	74.0	72.9	2480	0	1458
762.0	2.0	7.9	14	195	181	0	73.7	72.4	2485	0	1463
764.0	2.0	8.0	18	195	177	0	70.4	69.8	2518	0	1459
766.0	2.0	8.1	20	195	175	0	72.1	80.0	2717	0	1464
768.0	2.0	8.3	17	195	178	0	69.4	78.0	2712	0	1467
772.0	4.0	8.4	16	195	183	0	68.1	78.8	2676	0	1473
774.0	2.0	8.4	16	195	179	0	67.8	84.5	2767	0	1482
283											
778.0	4.0	8.4	16	195	187	0	68.2	84.0	2827	0	1490
780.0	2.0	8.4	16	195	180	0	68.6	84.0	2842	0	1499
782.0	2.0	8.4	17	195	180	0	69.9	76.3	2630	0	1493
784.0	2.0	8.5	18	195	177	0	70.6	70.2	2572	0	1500
786.0	2.0	8.5	14	195	181	0	75.0	73.6	2768	0	1505
788.0	2.0	8.6	15	195	184	0	75.1	73.8	2733	0	1507
790.0	2.0	8.6	15	195	183	0	71.3	63.5	2313	0	1510
794.0	4.0	8.7	16	195	179	0	70.0	67.8	2388	0	1519
796.0	2.0	8.8	16	195	178	0	67.6	72.0	2460	0	1528
798.0	2.0	8.8	14	195	190	0	67.8	73.7	2451	0	1534
303											
800.0	2.0	8.8	13	195	182	0	65.3	63.3	2122	0	1528
804.0	4.0	8.8	15	195	183	0	63.9	64.4	2078	0	1539
806.0	2.0	9.0	15	195	185	0	57.8	61.8	1898	0	1545
808.0	2.0	9.0	15	195	186	0	72.3	73.2	2651	0	1552
814.0	6.0	9.0	15	195	185	0	73.8	76.2	2768	0	1556
816.0	2.0	9.1	15	195	184	0	76.6	73.4	2786	0	1561
820.0	4.0	9.1	15	202	187	0	77.3	73.6	2809	0	1574
822.0	2.0	9.1	20	202	190	0	75.3	74.5	2785	0	1580
824.0	2.0	9.1	19	202	185	0	74.2	75.2	2755	0	1585
826.0	2.0	9.2	18	206	199	0	73.6	74.3	2614	0	1589
321											
828.0	2.0	9.3	17	210	193	0	57.8	59.2	1834	0	1588
832.0	4.0	9.4	16	212	195	0	64.5	68.1	2291	0	1593
834.0	2.0	9.5	21	212	191	0	72.4	73.5	2612	0	1596
836.0	2.0	9.5	19	212	193	0	75.7	72.4	2475	0	1601
838.0	2.0	9.6	22	212	190	0	70.5	73.9	2353	0	1607
840.0	2.0	9.6	23	212	189	0	71.1	74.3	2400	0	1612
842.0	2.0	9.7	24	212	188	0	75.6	75.5	2554	0	1614
844.0	2.0	9.8	23	212	189	0	76.4	76.1	2570	0	1617
846.0	2.0	10.0	29	212	183	0	76.9	75.6	2588	0	1622
852.0	6.0	10.2	27	212	185	0	77.1	75.3	2584	0	1629
341											

DEPTH	STEP	CHRS	WOB	HKLDX	HKLD	BWOV	SPM1	SPM2	PMPR	PCSG	HSP
	341										
854.0	2.0	10.4	27	212	185	0	74.3	76.0	2543	0	1635
856.0	2.0	10.5	26	212	182	0	74.7	76.4	2550	0	1639
858.0	2.0	10.6	23	212	178	0	74.5	76.2	2516	0	1642
860.0	2.0	10.7	23	212	184	0	73.8	75.8	2537	0	1647
862.0	2.0	10.8	22	220	185	0	73.5	78.1	2527	0	1650
864.0	2.0	10.9	20	200	181	0	78.0	71.7	2520	0	1654
866.0	2.0	11.1	21	200	179	0	78.0	72.4	2533	0	1658
868.0	2.0	11.3	21	200	176	0	77.6	76.7	2631	0	1662
870.0	2.0	11.5	22	200	171	0	78.0	76.7	2661	0	1666
872.0	2.0	11.6	22	200	162	0	80.2	76.9	2719	0	1669
	359										
874.0	2.0	11.7	22	200	163	0	80.3	77.3	2738	0	1673
876.0	2.0	11.9	22	200	166	0	80.4	77.9	2747	0	1677
878.0	2.0	12.1	22	200	159	0	78.1	78.1	2708	0	1682
880.0	2.0	12.2	22	200	163	0	77.9	80.9	2652	0	1686
882.0	2.0	12.3	21	200	165	0	71.3	76.2	2470	0	1690
884.0	2.0	12.3	21	190	162	0	71.6	76.4	2473	0	1696
886.0	2.0	12.5	21	190	155	0	71.8	76.1	2475	0	1699
888.0	2.0	12.7	21	190	150	0	70.9	76.4	2469	0	1701
890.0	2.0	12.9	21	190	152	0	71.1	78.1	2524	0	1705
892.0	2.0	13.2	23	186	152	0	71.8	78.2	2538	0	1709
	378										
894.0	2.0	13.5	23	182	153	0	73.1	76.3	2483	0	1712
896.0	2.0	13.8	23	182	154	0	75.7	75.1	2543	0	1716
900.0	4.0	13.9	26	182	156	0	82.3	81.5	2675	0	1724

PE603668

This is an enclosure indicator page.
The enclosure PE603668 is enclosed within the container PE906358 at this location in this document.

The enclosure PE603668 has the following characteristics:

ITEM_BARCODE	= PE603668
CONTAINER_BARCODE	= PE906358
NAME	= Drill Log
BASIN	= GIPPSLAND
PERMIT	= VIC/P1
TYPE	= WELL
SUBTYPE	= WELL_LOG
DESCRIPTION	= Drill Log for Sweep-1
REMARKS	=
DATE_CREATED	= 27/07/78
DATE_RECEIVED	= 2/04/79
W_NO	= W704
WELL_NAME	= SWEEP-1
CONTRACTOR	= CORE LABORATORIES
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603669

This is an enclosure indicator page.
The enclosure PE603669 is enclosed within the container PE906358 at this location in this document.

The enclosure PE603669 has the following characteristics:

ITEM_BARCODE	= PE603669
CONTAINER_BARCODE	= PE906358
NAME	= Temperature Log
BASIN	= GIPPSLAND
PERMIT	= VIC/P1
TYPE	= WELL
SUBTYPE	= WELL LOG
DESCRIPTION	= Temperature Log for Sweep-1
REMARKS	=
DATE_CREATED	= 27/07/78
DATE_RECEIVED	= 2/04/79
W_NO	= W704
WELL_NAME	= SWEEP-1
CONTRACTOR	= CORE LABORATORIES
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603753

This is an enclosure indicator page.
The enclosure PE603753 is enclosed within the container PE906358 at this location in this document.

The enclosure PE603753 has the following characteristics:

ITEM_BARCODE	= PE603753
CONTAINER_BARCODE	= PE906358
NAME	= Pressure Log
BASIN	= GIPPSLAND
PERMIT	= VIC/P1
TYPE	= WELL
SUBTYPE	= WELL LOG
DESCRIPTION	= Pressure Log for Sweep-1
REMARKS	=
DATE_CREATED	= 27/07/78
DATE_RECEIVED	= 2/04/79
W_NO	= W704
WELL_NAME	= SWEEP-1
CONTRACTOR	= CORE LABORATORIES
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603670

This is an enclosure indicator page.
The enclosure PE603670 is enclosed within the container PE906358 at this location in this document.

The enclosure PE603670 has the following characteristics:

ITEM_BARCODE	= PE603670
CONTAINER_BARCODE	= PE906358
NAME	= Geoplot
BASIN	= GIPPSLAND
PERMIT	= VIC/P1
TYPE	= WELL
SUBTYPE	= WELL_ LOG
DESCRIPTION	= Geoplot for Sweep-1,plot 2 of 2
REMARKS	=
DATE_CREATED	= 27/07/78
DATE_RECEIVED	= 2/04/79
W_NO	= W704
WELL_NAME	= SWEEP-1
CONTRACTOR	= CORE LABORATORIES
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603671

This is an enclosure indicator page.
The enclosure PE603671 is enclosed within the container PE906358 at this location in this document.

The enclosure PE603671 has the following characteristics:

ITEM_BARCODE	= PE603671
CONTAINER_BARCODE	= PE906358
NAME	= Geoplot
BASIN	= GIPPSLAND
PERMIT	= VIC/P1
TYPE	= WELL
SUBTYPE	= WELL LOG
DESCRIPTION	= Geoplot for Sweep-1,plot 1 of 2
REMARKS	=
DATE_CREATED	= 27/07/78
DATE_RECEIVED	= 2/04/79
W_NO	= W704
WELL_NAME	= SWEEP-1
CONTRACTOR	= CORE LABORATORIES
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE601416

This is an enclosure indicator page.
The enclosure PE601416 is enclosed within the container PE906358 at this location in this document.

The enclosure PE601416 has the following characteristics:

ITEM_BARCODE	= PE601416
CONTAINER_BARCODE	= PE906358
NAME	= Grapholog
BASIN	= GIPPSLAND
PERMIT	= VIC/P1
TYPE	= WELL
SUBTYPE	= MUD_ LOG
DESCRIPTION	= Grapholog for Sweep-1
REMARKS	=
DATE_CREATED	= 27/07/78
DATE_RECEIVED	= 2/04/79
W_NO	= W704
WELL_NAME	= SWEEP-1
CONTRACTOR	= CORE LABORATORIES
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)