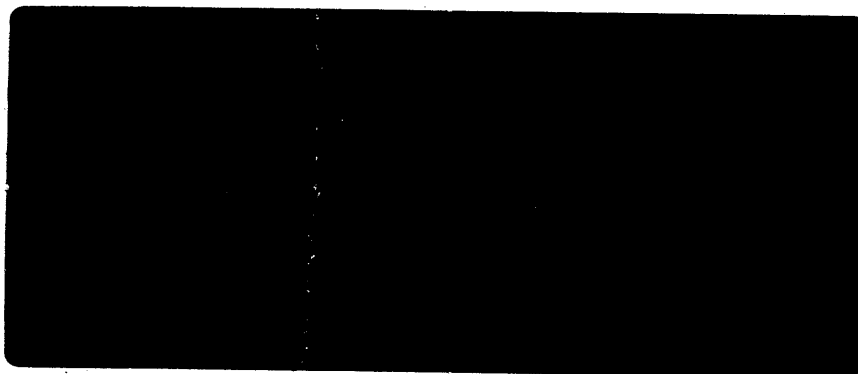


OIL and GAS DIVISION

DEPT. NAT. RES & ENV



PE902706



WCR  
GRUMBY - 1  
(W737)

**BEACH PETROLEUM**

BEACH PETROLEUM N.L.

GRUMBY NO.1

WELL COMPLETION REPORT

**OIL and GAS DIVISION**

**- 3 JUL 1981**

Prepared by J.D.C. Patchett  
May, 1981

Distribution: Beach 2  
Department of Minerals and Energy 1

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SUMMARY

The Grumby No.1 well was spudded after the drilling of North Paarratte No.2. The rig was released on 14th March, 1981.

This well was proposed to test a dip closed feature on the south eastern flank of the Port Campbell High.

The well encountered a gas saturated Waarre Formation 1664.5 m. The well has been completed as a potential producer.

The extent of the gas was determined by the wireline log suite and was confirmed using the report formation tester. Production casing was run and the well deliverability was determined during production testing.

The well was drilled with O.D. & E's rig 8, an Ideco Rambler H35 drilling rig, with the following contract services:-

Halliburton	-	Cementing and Testing
Schlumberger	-	Electric Logging
Go International	-	Production Testing
Exlog	-	Mud Logging

1. PURPOSE OF WELL

The Grumby No.1 well was proposed as a new field wildcat test of a discrete dip closed feature to the south of the North Paaratte Gas Field.

The well was programmed to intersect the prospective Waarre Formation at the highest mapped point of the feature. If this well was successful it was expected to be in such a position to be producer throughout the production history of the field.

2. GENERAL STRATIGRAPHIC TABLE

TABLE 1: Generalised Stratigraphy of the Port Campbell Embayment

<u>Age</u>	<u>Group</u>	<u>Formation</u>
Tertiary	Heytesbury	Port Campbell Limestone Gellibrand Marl Clifton Formation
	Nirranda	Narrawaturk Marl Mepunga Formation
	Wangerrip	Dilwyn Formation Pember Mudstone Pebble Point Formation
Upper Cretaceous	Sherbrook	Paaratte Formation Belfast Formation Flaxmans Formation Waarre Formation
Lower Cretaceous	Otway	Eumeralla Formation

3. WELL HISTORY

3.1 Location

The well, located as close as was practicable to Shot Point No.94, Line PCH-80-20 of the Beach 1980 Port Campbell High Seismic Survey, was on Crown Allotment 12, Section 6, Parish of Paaratte, County of Heytesbury owned by Mr. E. McKenzie. (Refer to Figures 1 and 2).

The approximate geographical co-ordinates are:-

$38^{\circ} 35' 08.5''S$ ;  $142^{\circ} 57' 11.5'' E$

3.2 General Data

(i) Well Name and Number

Beach Petroleum NL Grumbly No.1

(ii) Petroleum Title

Petroleum Exploration Permit No.93, Victoria.

(iii) District

1:250 000 map sheet: Colac Sheet SJ54-12  
part of the Western District of Victoria.

(iv) Elevation

Ground Level 88.0 m

Kelly Bushing (datum) 91.2 m

(v) Total Depth

Driller 1811 m

Schlumberger 1813.6 m

(vi) Date Drilling Commenced

19th February, 1981 at 1400 hours.

(vii) Date Total Depth Reached

7th March, 1981 at 1445 hours.

(viii) Date Rig Released

14th March, 1981 at 1300 hours.

(ix) Drilling Time to Total Depth

16 days.

(x) Status

Completed and suspended as a potential producing gas well.

3.3 Drilling Data

3.3.1 Rig

Ideco H-35; details of this rig are contained in  
Appendix 1.



3.3.2 Drilling Contractor

O.D. & E. Pty. Ltd.; 50 Bridge Street, Sydney, N.S.W.,  
2000.

3.3.3 Casing and Cementing Details

(i) Conductor

Size	19½ inch
Set at	7.6 m
Cement	25 sacks, construction

(ii) Surface Casing

Size	9 5/8 inch
Weight	36 pound
Grade	J55
Range	3
Coupling	ST & C
Centralisers	378 m, 402 m
Float Collar	402 m
Shoe	410 m
Cemented to	Surface with good returns with 50 sacks, construction, 15.6 ppg slurry
Method	Double plug displacement
Equipment	Halliburton Twin T-10 pump truck

(iii) Production Casing

Size	7 inch
Weight	23 pound
Grade	J55
Range	3
Coupling	LT&C
Centralisers	1611 m, 1634 m, 1658 m 1694 m, 1717 m, 1741 m
Float Collar	1800 m
Shoe	1812 m
Cement	250 sacks, construction - 15 ppg slurry
Cemented to	998 m
Method	Double plug displacement
Equipment	Halliburton Twin T-10 pump truck

3.3.4 Drilling Fluid

(i) 12¼ inch hole

The mud used during this drilling phase had the  
following range of properties:-

SG	1.10 to 1.12
Visc.	37 to 42 sec.
Filtrate	11.5 to 17 ml.
Cake	2 mm
pH	8.5 to 10

Comment

In previous wells drilled in this district, moderate to severe mud ringing had been experienced whilst penetrating the Gellibrand Marl. Mud ringing was not a problem whilst drilling this unit in Grumby No.1 due to:-

- (a) use of a light weight non dispersed mud.
- (b) adequate annular velocity - both pumps were used.
- (c) controlled drilling rates - weight on bit was restricted to approximately 5000 lb with a consequent average penetration rate of 15 m/hr.

(ii) 8½ inch hole

After drilling out cement, the mud was treated with sodium bicarbonate. Prior to penetrating the Waarre Formation the mud had the following properties:-

SG	1.17
Visc.	53
Filtrate	7 ml
Cake	2 mm
pH	9
Sand	Trace

These properties were maintained to total depth. Few hole problems were experienced during the drilling of the 8½ inch hole.

3.3.5 Water Supply

Drilling water was obtained from the Port Campbell-Timboon pipeline at the North Paaratte No.2 well site and trucked 4 km. to Grumby No.1. There was no restriction to supply from this source.

3.3.6 Perforations

The 7 inch production casing was perforated from 1665.5 to 1667.5 m with 4 shots per foot using Schlumberger Hyperjet II end loaded 4 inch guns.

3.3.7 Production Tubing

A production string comprising:-

- . Catcher sub
- . Otis Type 'XN nipple
- . 1 joint 2 7/8 inch J55 6.5 pound tubing
- . Otis Type 'RH hydraulic packer
- . 1 joint 2 7/8 inch J55 6.5 pound tubing
- . Otis Sliding Side Door sub
- . 184 joints reducing to 169 joints of
- . 2 7/8 inch J55 6.5 pound tubing

was run to 1794 m. The drilling mud was displaced with a completion fluid; thereafter the packer was pulled back and set at 1638 m.

3.3.8 Completion Fluid

A calcium chloride brine with SG 1.07 and treated with a corrosion inhibitor (Coat B-1400) was used.

3.3.9 Christmas Tree Details

See Appendix 2.

3.4 Formation Sampling and Testing

3.4.1 Cuttings

Representative lagged cuttings samples were taken as follows:

30 m to 1400 m every 10 m.

1400 m to 1719.8 m (T.D.) every 3 m.

Cuttings were continuously described on site using a binocular microscope.

3.4.2 Cores

No cores were cut in this well.

3.4.3 Formation Tests

(i) Drill Stem Tests

No conventional open hole drill stem tests were carried out on this well.

(ii) Wire Line Tests

Four tests and six pressure readings were made during two runs in the hole with the Schlumberger Repeat Formation Tester (RFT).

RFT NO.1

Depth	1680 m
Initial Shut In	½ min.
Sampling Time	21 min.
Final Shut In	inst.
Initial Shut In Pressure	2292 psi
Initial Flow Pressure	1475 psi
Final Flow Pressure	2292 psi
Final Shut in Pressure	2292 psi
Hydrostatic Pressure	2790 psi
Surface Chamber Pressure	1360 psi
Choke size	1 x 0.020 inch
Recovered	41.6 cu ft gas 3 ml condensate 350 ml water/filtrate

RFT NO.2

Depth	1671.8 m
Initial Shut In	inst.
Sampling Time	15 min.
Final Shut In	inst.
Initial Shut In Pressure	2289.5 psi
Initial Flow Pressure	750 psi approx.
Final Shut In Pressure	2288.5 psi
Hydrostatic Pressure	2288.5 psi
Surface Chamber Pressure	2761 psi
Choke size	1 x 0.020 inch
Recovered	15.2 cu.ft. gas 10 ml condensate 6200 ml water/filtrate

RFT NO.3

Depth	1676 m
Initial Shut In	inst.
Sampling Time	15 min.
Final Shut In	inst.
Initial Shut In Pressure	2291 psi
Initial Flow Pressure	2261 psi
Final Flow Pressure	2290.5 psi
Final Shut In Pressure	2290.5 psi
Hydrostatic Pressure	2767 psi
Surface Chamber Pressure	1600 psi
Choke Size	1 x 0.020 inch
Recovered	54.7 cu ft gas 10 ml water/filtrate

RFT NO.4

Depth	1666.4 m
Initial Shut In	-
Sampling Time	6 min.
Final Shut In	3 min.
Initial Shut In Pressure	2287 psi
Initial Flow Pressure	163.5 psi
Final Flow Pressure	164 psi
Final Shut In Pressure	192 psi
Hydrostatic Pressure	2767 psi
Surface Chamber Pressure	0
Choke size	1 x 0.020 inch
Recovered	2.5 cu ft gas 300 ml water/filtrate

Pressure Readings (Initial Shut In Pressure)

<u>Depth</u>	<u>Pressure</u>	<u>Build-up Time</u>
1666.4 m	2287 psi	30 sec. (RFT 4)
1671.8 m	2289.5 psi	inst. (RFT 2)
1676 m	2291 psi	inst. (RFT 3)
1680 m	2292 psi	30 sec. (RFT 1)
1683 m	2293 psi	20 sec.
1686 m	2293.5 psi	30 sec.
1688.5 m	2296 psi	16 sec.
1695 m	2305.6 psi	18 sec.
1714 m	2332 psi	3 min.
1748 m	2380.5 psi	20 sec.

3.5 Logging and Surveys

3.5.1 Mud Logging

A trailer mounted standard Exploration Logging (EXLOG) unit was contracted to provide a complete mud logging service. Drill penetration rate, continuous drilling mud gas detection and intermittent cuttings gas analyses were performed and the mud log is enclosed as Enclosure 1.

3.5.2 Electric Logging

Schlumberger recorded the following Logs in open hole:-

Run 1.

Dual Laterolog	(DLL-GR-SP)	415.2 to 1813.3m
Micro Spherically Focussed Log (MSFL-Cal)		(1380 to 1490m (1605 to 1813.3m)

Compensated Neutron-Formation Density	(CNL-FDC-GR-Cal)	1380 to 1813.3m
Borehole Compensated Sonic Log (BHC-GR-Cal)		415.2 to 1812m
Repeat Formation Tester	(RFT)	

Schlumberger recorded the following Logs in cased hole:-

Run 1.

Cement Bond Log	(CBL-VDL-GR)	997 to 1795m
Casing Collar Log and Perforating Record	(CCL)	

3.5.3 Deviation Surveys

During drilling, deviation surveys were taken using a 'Sure Shot' survey instrument. Results were:-

64 m	$\frac{1}{2}^{\circ}$
122 m	$\frac{1}{2}^{\circ}$
184 m	0
304 m	0
576 m	$\frac{1}{2}^{\circ}$
732 m	0
924 m	$\frac{1}{4}^{\circ}$
1108 m	$4^{\circ}$
1145 m	$3^{\circ}$
1181 m	$3^{\circ}$
1256 m	$2\frac{1}{2}^{\circ}$
1298 m	$2^{\circ}$
1384 m	$1\frac{1}{4}^{\circ}$
1495 m	$1\frac{1}{2}^{\circ}$
1649 m	$2^{\circ}$
1686 m	$2^{\circ}$
1806 m	$3\frac{1}{4}^{\circ}$



4. RESULTS OF DRILLING

4.1 General

Grumby No.1 proved the presence of gas in the Waarre Sandstone within the Grumby feature. The Grumby structure is on the southern flank of the Port Campbell High. The well has been completed as a potential producer with production casing, tubing and a christmas tree.

Top of the Waarre Sandstone was at 1664.5 m. The gas/water contact was at 1686.5 m. Net gas bearing sand is 17 m.

The recovered gas has been analysed to contain 51.7% CO<sub>2</sub>. See Appendix No.5 for gas analyses. Flow tests established that condensate production was in excess of 6 barrels/million scf.

4.2 Formation Tops

	<u>KB</u>	<u>Subsea</u>	<u>Thickness (Metres)</u>
Port Campbell Limestone (outcrop)	3.2	+91.2	88.8
Gellibrand Marl	92	0.8	238
Clifton Formation	330	238.8	15
Narrawaturk Marl	345	253.8	35
Mepunga Formation	380	288.8	80
Dilwyn Formation	460	368.8	83
Pember Mudstone	743	651.8	52
Pebble Point Formation	795	703.8	68
Paaratte Formation	863	771.8	524
Skull Creek Member	1387	1245.8	50
Nullawarre Equivalent	1437	1345.8	13
Belfast Formation	1450	1358.8	190
Flaxmans Formation	1640	1548.8	25
Waarre Formation	1665	1573.8	89
Eumeralla Formation	1754	1662.8	57+
Total Depth	1811	1719.8	

Formation Tops were picked using wireline log and on-site cuttings evaluation.

4.3 Lithologic Description

- 0-92m Limestone buff-tan at surface becoming grey with depth. In part grainstone grades to calcarenite and, with depth becomes more marly friable to firm to hard. Contains abundant echinoid spines, bryozoans, forams and shell fragments. Minor glauconite and pyrite. Upper 35 m weathered.
- 92-330m Marl grey, plastic, amorphous. Slightly hydratable and very slightly dispersive. Traces of glauconite and disseminated pyrite. Abundant fossil fragments. Slightly calcareous.
- 330-345m Sandstone grading to limestone, yellow brown to dark brown. Friable unconsolidated coarse to fine grained, poorly sorted. Dominantly quartz grains with occasional lithic pebbles. Lime or calcareous ferruginous matrix. Poor to fair porosity.
- 345-380m Marl light brown to grey amorphous, plastic soft moderately to very calcareous. Occasional disseminated and nodular pyrite. Occasional shell fragments.
- 380-460m Claystone grading to sandy claystone and occasional siltstone. Light brown to light grey. Very soft, dispersive. Moderately silty in part. Abundant pyrite. Calcareous. Sandsize fractions of shell fragments and clear quartz grains. Rare to abundant fossils. Bivalves dominate although echinoid, spines, gastropods, forams and bryozoans are common.
- 460-743m Sandstone clear - yellow brown (iron stained 460-540 m) loosely consolidated - friable, medium - coarse grained, subangular to subrounded, poorly sorted. Dominantly quartz grained with only very minor amounts of lithic and chert grains. In general the sandstone becomes more clear - white coloured with depth.
- Only rare siltstone beds were penetrated (540-550 m). At 620-630 m the sandstone changed to become Sandstone varicolour, white-brown-light brown-orange-yellow, medium grained, well rounded, well sorted. Containing



quartz and lithic grains. It was friable and contained no matrix. Below 635 m sandstone reverted to the clear-white variety.

- 743-795m Siltstone brown-grey to light dark grey to green grey. Moderately firm, slightly hydrateable. Calcareous matrix. Common glauconite pellets. Pyrite as nodules and disseminated grains. Occasional mollusc fragments.
- 795-863m Sandstone conglomerate clear white-brown-yellow-orange. Non consolidated friable. Medium-coarse-pebble sized grains. Subangular-subrounded, poorly sorted. Dominantly quartz grains with minor lithic pebble sized grains, occasional chert grains. Grains often iron stained. Common glauconite.
- 863-990m Sandstone clear white (iron stained at the top) friable to loosely consolidated, very fine to coarse grained, subangular to subrounded poorly sorted. Dominantly quartz grains with very minor lithics and chert grains. In part grades to pebble sized grains.
- 990-1387m Sandstone and siltstone  
sandstone - as for the interval 863-990m  
siltstone - medium to dark grey non calcareous with, often, common carbonaceous laminae. Siltstone is associated with up to 5% coal brown-black, lignitic. The sequence becomes siltstone dominated with depth. At 1280-1287 and 1345-1349 are distinctive sandstone beds.  
Sandstone white to clear, loose very fine grained at top grading to coarse grained at base. Grades to granules in part. Subangular, poorly sorted. Quartz grains and common brown-black coaly material with associated resin. Minor dolomite, minor pyrite cement. Good visual porosity.
- 1387-1437m Claystone grading to siltstone in part firm, mid grey with often abundant mid pink brown dolomite. Non calcareous with occasional pyrite nodules and disseminated grains.

- 1437-1450m Sandstone dirty white-grey brown. Friable to hard. Very fine grained to granules. Subangular but predominantly subrounded. Dolomite, ankerite and calcite cement. Occasional dolomite and pyrite nodules. Poor visual porosity.
- 1450-1640m Claystone mid brown-mid grey. Soft, plastic. Non dispersive, rare pyrite, rare fossil fragments. With depth grades, in part, to siltstone which is very slightly calcareous. Occasional to common glauconite. Below 1548 m glauconite becomes very common to abundant.
- 1640-1615m Claystone-grading to siltstone dark brown-grey. Moderately firm, non calcareous abundant pyrite and glauconite with occasional large white-cream quartz grains. Occasional shell fragments.
- 1665-1754m Interbedded sandstone and siltstone: This unit is a complexity inter-bedded sequence of variable types of sandstone and siltstone with occasional thin coals.
- Sandstone Type A grey-white-light brown. Friable. Fine to medium ground, subangular-subrounded. Moderately well sorted. Dominantly quartz grains with fine white clay matrix. Occurs as micro laminated fine and medium grained sand laminae. Trace pyrite, trace shell fragments. Occasional carbonaceous laminae, trace coal fragments. Poor visual porosity.
- Sandstone Type B white-clear, friable medium-coarse grained subrounded and moderately sorted. No visible matrix. Good visible porosity.
- Sandstone Type C Sandstone as for type B but matrix/cement is of clear silica. Recognised by fracturing of individual quartz grains. Poor visual porosity.
- Sandstone Type D Sandstone of type A with common siliceous and dolomitic cement. Poor visual porosity.
- Siltstone mid brown-mud grey glauconitic slightly calcareous with Inoceramus fragments. With micro-carbonaceous laminae.

Coal brown-black soft sub-conchoidal fracture. For relationship of the sandstones and the siltstone see the composite log.

1754-1811m Claystone mid green-grey, soft to firm soluble  
(TD) dispersive plastic. With minor sandstone varicolour (white-mid grey-green grey-green-orange-brown) fine to coarse grained with abundant lithic fragments and only minor quartz grains.

5. POST DRILLING COMPILATION AND LABORATORY STUDIES

4.1 Composite Well Log

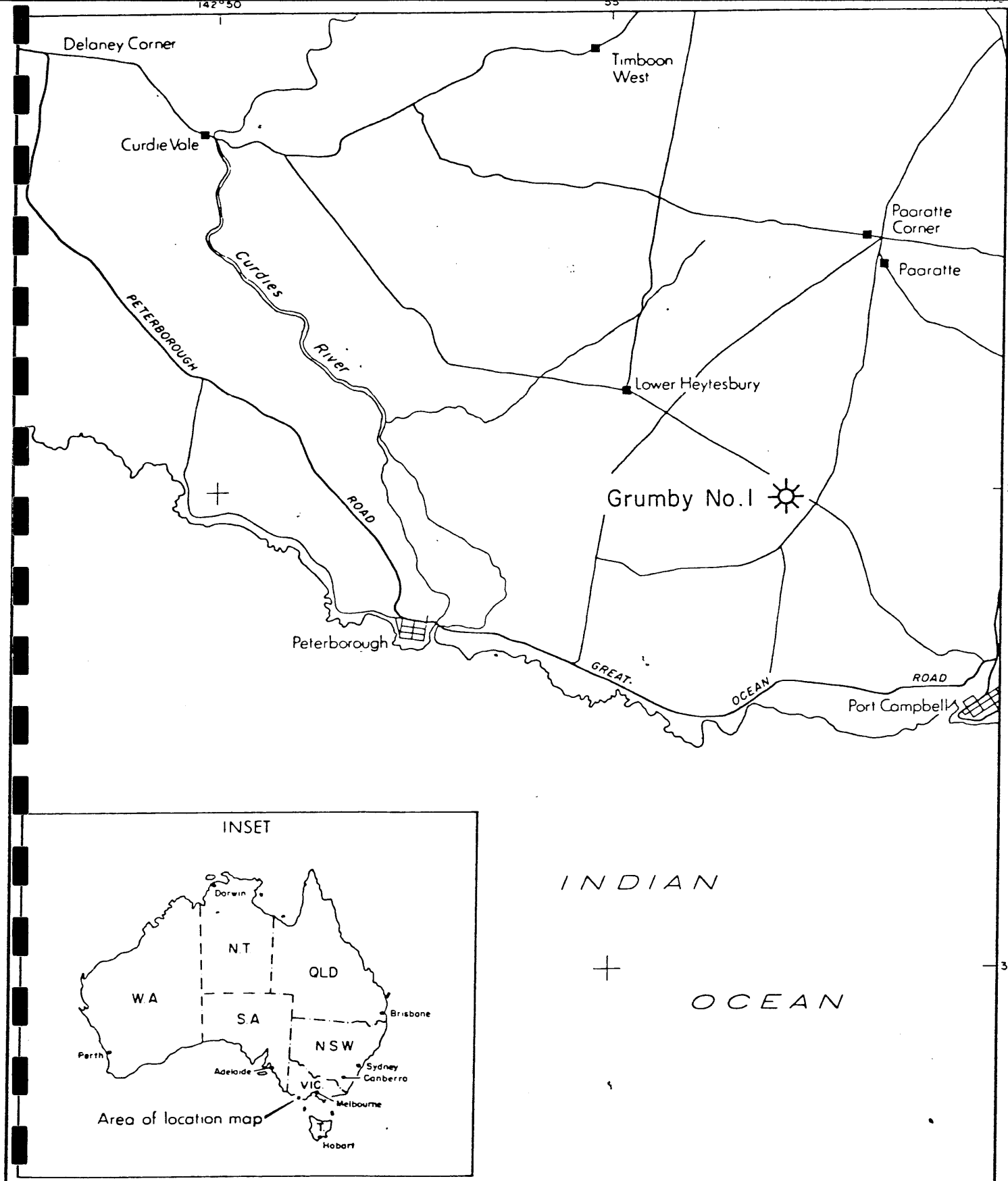
A composite well log has been compiled and is included as Enclosure 2.

4.2 Gas Analyses

The following gas analyses have been done;

- (i) On site gas chromatography by EXLOG of the gas recovered in RFT No.1 and 2.
- (ii) A low pressure sample collected by displacing water in a sample bottle was analyzed by the Gas and Fuel Corporation of Victoria.
- (iii) Analyses of high pressure production test results.

Results of gas analyses are included as Appendix No.5.



BEACH PETROLEUM N.L.  
**GRUMBY No.1**  
 WELL LOCATION MAP

Scale 1:100 000

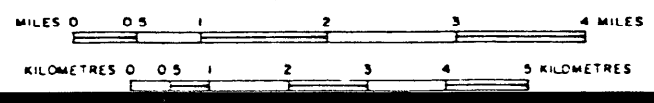
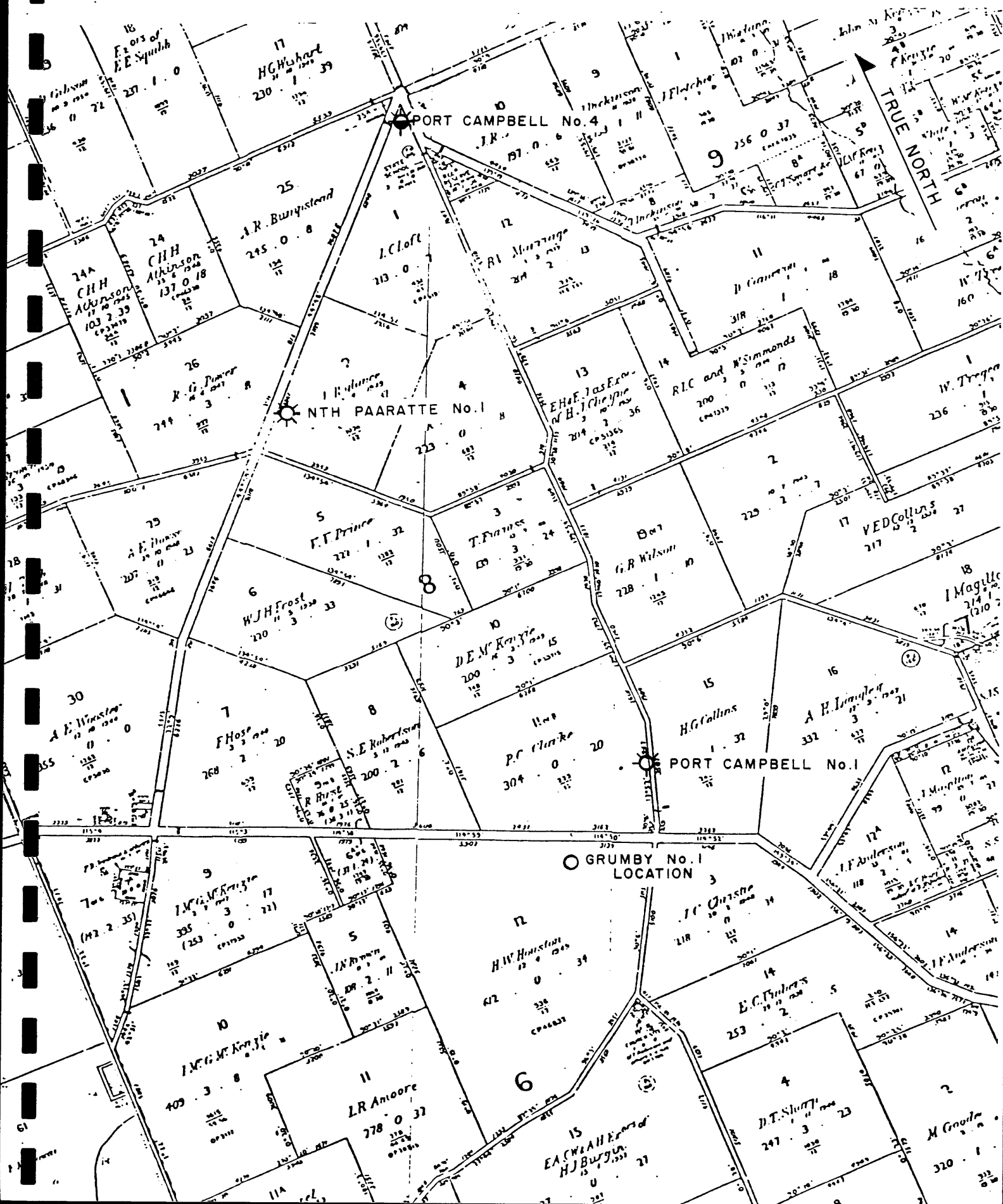
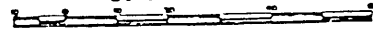


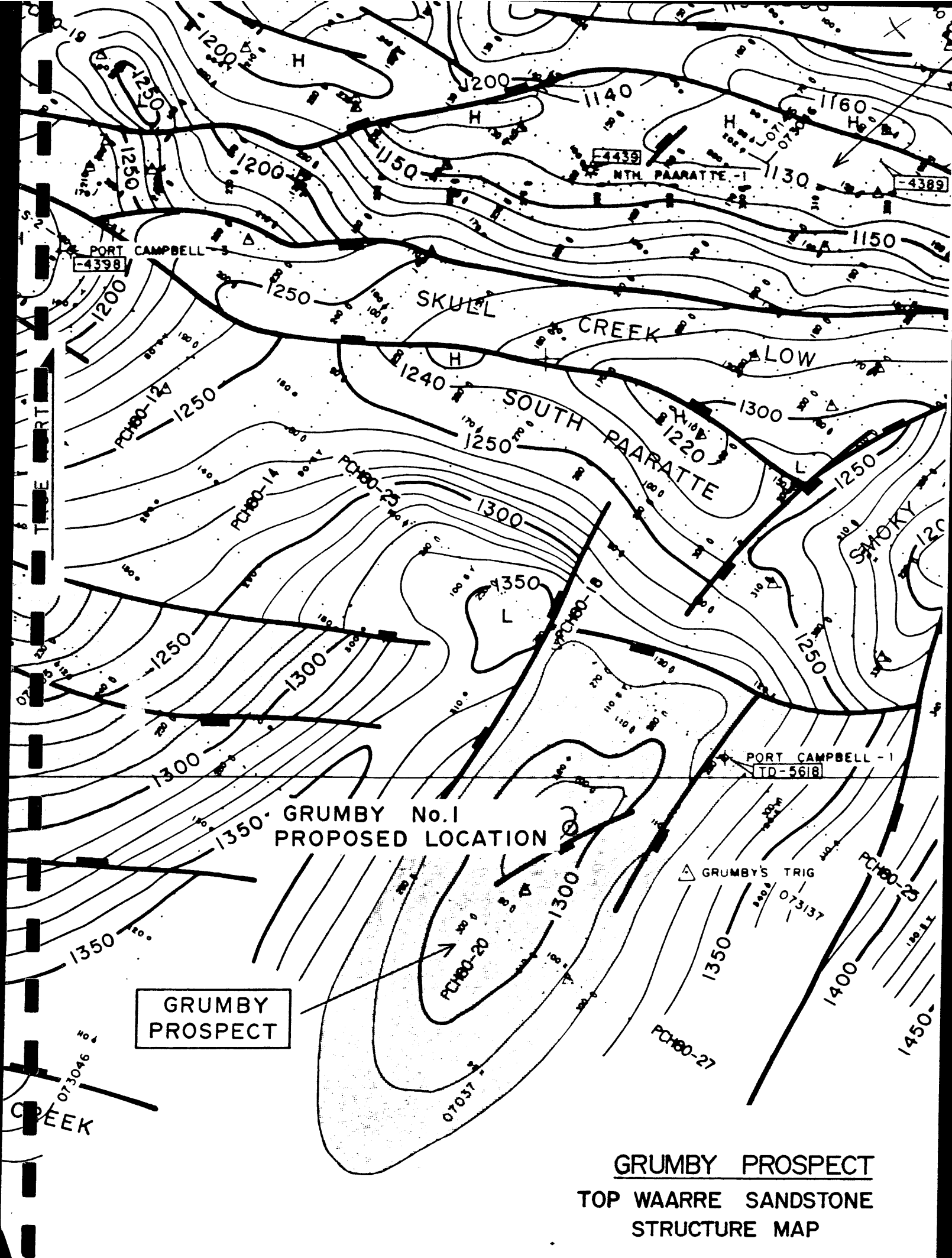
FIGURE 1

# PAARATTE

## COUNTY OF HEYTESBURY

SCALE OF CHAINS





**GRUMBY PROSPECT**  
**TOP WAARRE SANDSTONE**  
**STRUCTURE MAP**

FIGURE 3

APPENDIX 1

Details of Drilling Plant



SCHEDULE I

CONTRACTOR'S RIG # 8

- DRAWWORKS : Ideco H-35 double drum with 15' Hydromatic Brake.
- ENGINES : Two (2) GM 6-71 twin diesel units.
- ROTARY TABLE : Ideco 17-1/2".
- SUBSTRUCTURE : Mast Subbase 8'6" high.
- RIG LIGHTING : Rig-A-Lite explosion proof system.
- MAST : Ideco KM 103-195-GH Gross nominal capacity 195,000 pounds.
- TRAVELLING BLOCK WITH UNITISED HOOK : Ideco D110-3-24.
- SWIVEL : Ideco TL-120.
- KELLY DRIVE : Ideco Squarehex 4-1/4".
- MUD PUMPS : Emsco D300 7-1/4" x 14" powered by twin GM 6-71 diesel engine.  
: National C150B 7-1/4" x 12" powered by twin GM 6-71 diesel engine.
- MIXING PUMP : (1) 6 x 4 Warman Centrifugal powered by GM 4-71 diesel engine.
- MUD TANK : One (1) 35' long x 8' wide x 4'6" high - skid mounted.
- SCALE SHAKER : Rumba unit.
- DESANDER/DESILTER : Combination unit with 2 x 8" and 8 x 4" cones with Warman 6 x 4 centrifugal pump powered by GM 3-71 diesel engine.
- GENERATORS : Two (2) 75 Kw units powered by GM 6-71 diesel engines.
- B.O.P.'s & ACCUMULATOR : One (1) 10" - 3000 psi WP Shaffer Annular BOP.  
One (1) 10" - 3000 psi WP Shaffer Double Gate BOP.  
Koomey 60 gallon Accumulator system.
- KELLY COCK : Onisco unit - 10,000 psi.
- AIR COMPRESSOR & RECEIVERS : Two (2) Ingersoll Rand Compressors with 120 gallon receivers.  
One (1) 2 AVC Westinghouse Compressor.
- SPOOLS : One (1) 10" - 3000 x 10" - 3000 Drilling Spool with 2" outlets.  
One (1) 10" - 3000 x 6" - 3000 Studded Adaptor.  
One (1) 10" - 3000 x 10" - 3000 Spacer Spool.

- RAT HOLE DRILLER : C & W unit.
- CHOKE MANIFOLD : 2 Choke 3000 psi WP unit.
- DRILL PIPE : 7000 ft 4½" internally plastic coated aluminium 8.35lb/ft with 6-1/8" OD 18 degree taper hard band tool joints. (Weight of drill pipe with tool joints = 10.75 lb/ft).  
6 joints 4-1/2" hevi-wate.
- DRILL COLLARS : 4 x 8" OD with 6-5/8" Regular connections.  
12 x 6-1/4" OD with 4" IF connections.
- KELLY : 4-1/4" square with 6-5/8" Regular Box Up.
- FISHING TOOLS : (1) Bowen 7-5/8" series 150 SH Overshot.  
(1) Bowen 9-5/8" series 150 Overshot.  
(1) Baash-Ross 6-1/8" OD Bumper Sub.  
(1) McCullough 6-1/8" OD Rotary Jars.  
(1) Junk Sub for 8-1/2" hole.
- HANDLING TOOLS : (1) Varco CU Casing Bushing for 17-1/2" Table and to handle 13-3/8" and 9-5/8" casing.  
(1) set CMS 13-3/8" Casing Slips.  
(1) set CMS 9-5/8" Casing Slips.  
(1) set 13-3/8" Side Door Elevators.  
(1) set 9-5/8" Side Door Elevators.  
(1) set 13-3/8" Single Joint Elevators.  
(1) set 9-5/8" Single Joint Elevators.  
(1) set 5-1/2" CMS Casing Slips.  
(1) set 5-1/2" Side Door Elevators.  
(1) set 5-1/2" Single Joint Elevators.  
(1) set 4-1/2" Drill Pipe Slips.  
(1) set 4-1/2" MAA Drill Pipe Elevators.  
(1) set 5-1/2" - 7" Drill Collar Slips.  
(1) set 6-3/4" - 8-1/4" Drill Collar Slips.  
(1) set 2 Elevator Links 2-1/4" x 108" (110 ton).  
(1) set Web Welson type B Tongs with jaws from 3-1/2" to 10-3/4".  
(1) set BJ type B tongs with 13-3/8" jaws.
- INSTRUMENTS & INDICATORS : Martin Decker Clipper Weight Indicator.  
Pump Pressure Gauge.  
Martin Decker Tong Torque Indicator.  
Geolograph G3 Recorder.
- DEVIATION RECORDER : Sure Shot 0° - 7° unit.
- DOLHOUSE : (1) 28' long x 8' wide x 7' high.
- DCG HOUSE : (1) 24' long x 8' wide x 7' high.
- GENERATOR HOUSE : (1) 34' long x 8' wide x 7' high.
- WELDING EQUIPMENT : (1) Lincoln 400 AMP with diesel engine.  
(1) set Oxygen/Acetylene.
- PIPE RACKS : (1) set (6) 26' long x 42" high.
- CATWALKS : (1) 45' long x 6' wide x 42" high.
- WATER TANKS : (1) 28' long x 8' wide x 7' high.

- DAY FUEL TANK : (1) 1500 gallon unit.
- SUBSTITUTES : (2) 6-5/8" Reg. Pick up Subs.
  - (2) 4" IF Pick up Subs.
  - (1) 4" IF Box x 6-5/8" Reg Pin Sub.
  - (1) 6-5/8" Reg Box x 4" IF Pin Sub.
  - (1) 4" IF Pin x 4-1/2" FH Pin Sub.
  - (1) 4-1/2" FH Pin x 4" IF Box Sub.
  - (1) 4" IF Pin x 4-1/2" Reg Box Sub.
  - (1) 6-5/8" Reg Pin x 6-5/8" Reg Box Sub.
  - (2) Kelly Saver Subs.
- MUD TESTING : Magcobar Rig Lab complete.
- JUNK BOX : (1) 20' x 8' x 4' high.
- MATTING : (1) set Hardwood mats.
- WATER PUMPS : (2) AEI - 2" x 1-1/2" powered by electric motors.
- FIRE EXTINGUISHERS : (1) set for rig and surrounding areas as per the applicable State Mines Department Regulation.
- TOOLPUSHER/OPERATOR OFFICE : (1) 30' x 10' wide x 9' high with office and living facilities.

APPENDIX 2

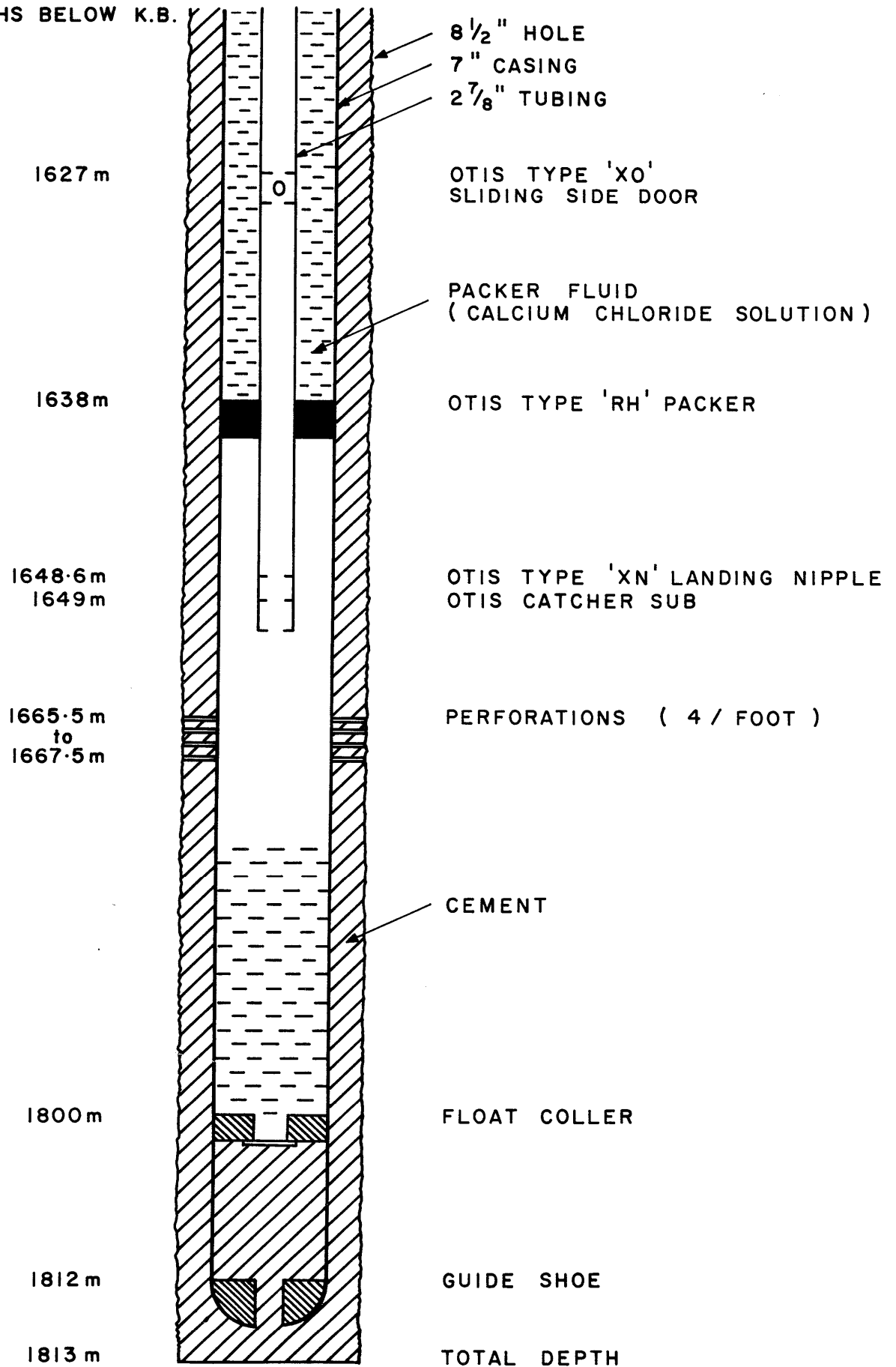
Completion Details

BEACH PETROLEUM N.L.

# COMPLETION - GRUMBY No.1

( NOT TO SCALE )

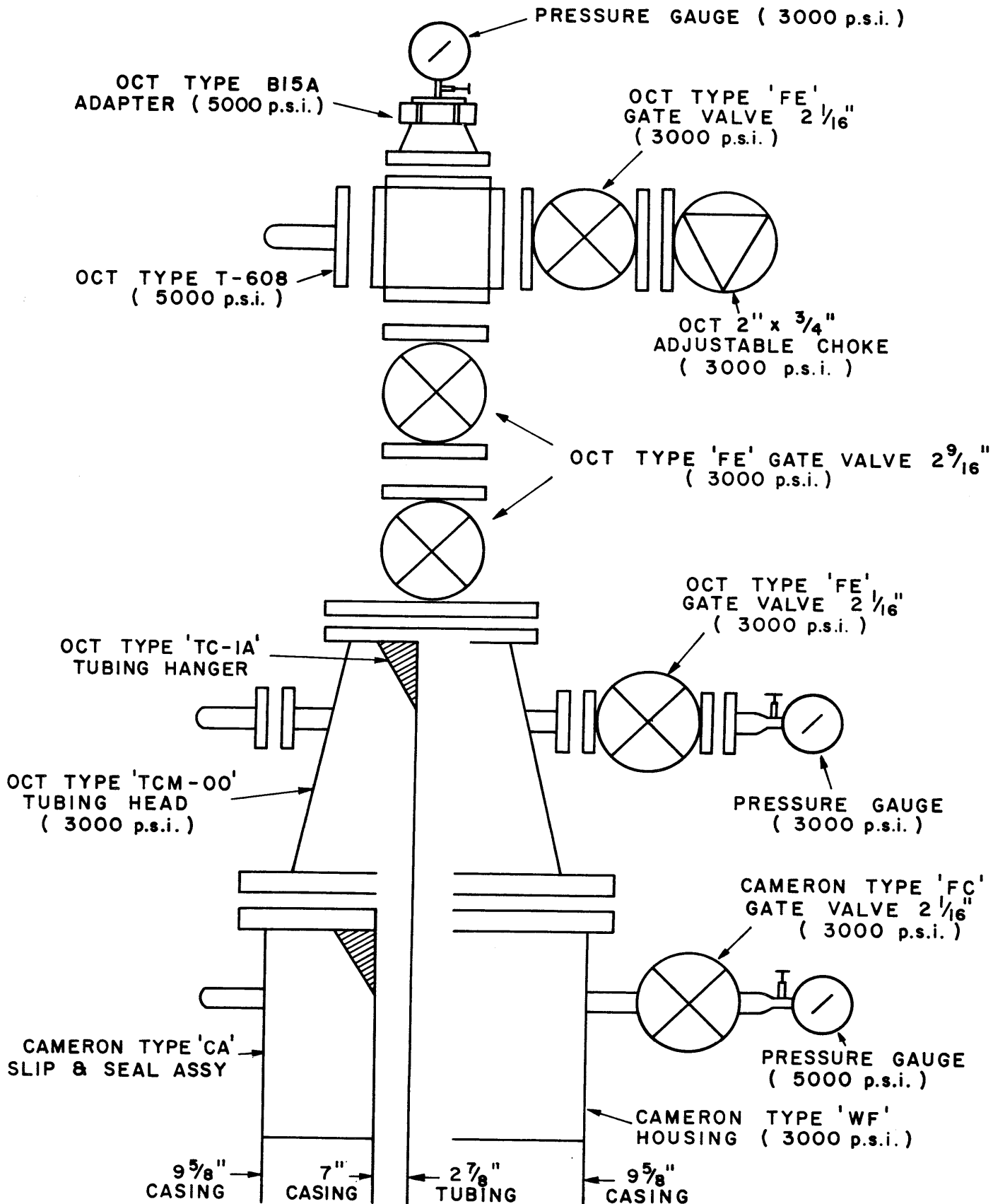
ALL DEPTHS BELOW K.B.



BEACH PETROLEUM N.L.

# CHRISTMAS TREE - GRUMBY No.1

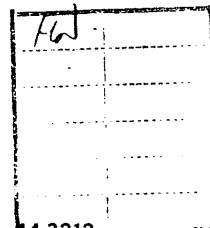
( SCHEMATIC - NOT TO SCALE )



# OTIS

P.O. BOX 324, SALE,  
VICTORIA, 3850, AUSTRALIA.

Telephone: 44 2212  
Telex: OTISALE  
AA51140

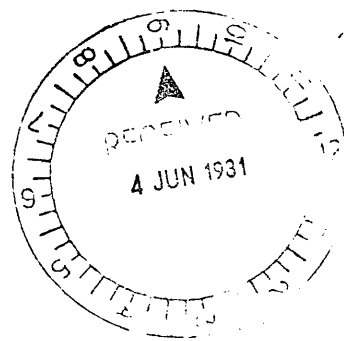


ADS-319-81

29 MAY 1981

BEACH PETROLEUM ,  
P.O. BOX 1180,  
MELBOURNE, VIC., 3001

ATTENTION: Mr FRED WARD



Dear Sir,

Enclosed is the well schematic that you requested.

If there is any additional information you need, please let us know.

Yours sincerely,

A. D. SMITH

# OTIS COMPLETION GUIDE

**OTIS ENGINEERING CORPORATION**  
 GENERAL OFFICE: Bell Line Rd., Webb Chapel  
 P. O. Box 34380, DALLAS, TEXAS 75234

A HALLIBURTON Company

DEC-217A

PREPARED FOR \_\_\_\_\_ COMPANY Boach Production TELEPHONE \_\_\_\_\_ DATE 14 Mar 1981

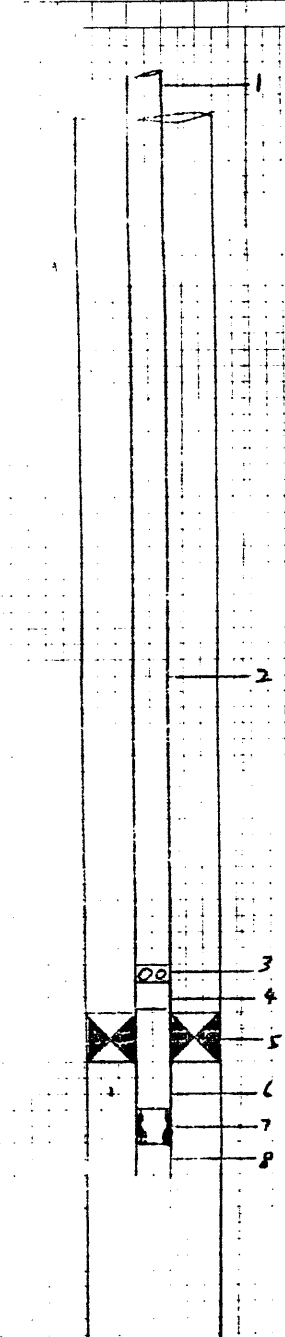
MR. \_\_\_\_\_ FIELD NAME Gunnby #1 COUNTY Vic  NEW COMPLETION  WORKOVER

WELL NAME Gunnby #1 SIZE 7 WEIGHT \_\_\_\_\_ GRADE \_\_\_\_\_ THREAD \_\_\_\_\_ DEPTH \_\_\_\_\_

CASING SIZE 7 WEIGHT \_\_\_\_\_ GRADE \_\_\_\_\_ THREAD \_\_\_\_\_ DEPTH \_\_\_\_\_

LINER \_\_\_\_\_ WEIGHT \_\_\_\_\_ GRADE \_\_\_\_\_ THREAD \_\_\_\_\_ DEPTH \_\_\_\_\_

- SAFETY EQUIPMENT     GAS LIFT EQUIPMENT     PACKERS AND ACCESSORIES  
 COMPLETION EQUIPMENT     POST COMPLETION EQUIPMENT



TUBING SIZE	LT	MT	LT	DESCRIPTION OF EQUIPMENT AND SERVICES	ESTIMATE Fee
2 3/8				1 - tubing hanger	0.00
				2 - 170 joints 2 3/8" O.D. tubing	0.500
				3 - OTIS type XO sliding sleeve	
				p/n 124 x 03 seal 60 x 230 2.313"	5344.65
				4 - 1 joint 2 3/8" tubing	5347.80
				5 - OTIS 7" type JRH packer	
				p/n 13 RH 702 minimum 70 2.38"	5379.24
				6 - 1 joint 2 3/8" tubing	5385.53
				7 - OTIS 2 3/8" type XN Xanday Nipple Seal 60 x 230 2.313"	
				N.O. 90 70 2.205" p/n 11KN23101	5415.13
				8 - OTIS 2 3/8" Catcher Sub	
				70 2 for seat depth is 2.38"	5416.42
TOTAL ESTIMATE					

COMPLETION PROCEDURE

All downhole gear OTIS Equipment.  
 OTIS type RH packer, hydrosettable set to 1000 psi. Attach full 35,000 lb weight. Minimum 70 in the string is 2.205"

PREPARED BY W. Ching OFFICE Sale TELEPHONE 4435512

WELL NAME Gunnby FIELD NAME Gunnby #1 DATE 14/3/81



APPENDIX 3

Bit Record



PRINTED IN U. S. A.

# BIT RECORD

COUNTY	FIELD	STATE	SECTION	TOWNSHIP	RANGE	LOCATION	WELL NO.
	GRIMBLI	VICTORIA				OTWAY BASIN	1
CONTRACTOR		RIG NO.	OPERATOR	TOOLPUSHER		SALESMAN	
C.D.E.		8	BEACH PETROLEUM	CR 05E		H. SCHMORL	
SPUD	UNDER SURF	UNDER INTER	SET SAND ST.	REACHED T.D.	PUMP NO. 1	LINER	PUMP NO. 2
19-2-81	23-2-81				NATIONAL	5 3/4	NATIONAL
DRILL PIPE	SIZE	TYPE	O.D.	DRILL COLLARS	NUMBER	O.D.	I.D.
4 1/2 ALUMINIUM	6 1/4	REED ALSTAN	6 1/4	12		6"	2 13/16
TOOL JOINTS	LENGTH	DRAWWORKS POWER					
		257671					

Yours for the asking . . .

Technical information and help to get your holes down faster with fewer problems. Advice on rock bit performance, bit selection, drill string analysis, hydraulics programs and recommendations on the best bit weight and rotary speed. This information is tailored for you, your location and your rig.

Your Hughes Tool Company representative is your best source for drilling information . . . wherever you drill.

NO.	SIZE	MAKE	TYPE	JET 3/2ND IN	SERIAL	DEPTH OUT	FEET	HOURS	FT HR	ACCU DRILL HRS	WT. 1000 LBS	R P M	VERT DEV	PUMP PRESS	PUMP OPERATION	S P M		MUD					DULL COND.		FORMATION REMARKS	
																1	2	WT	VIS	W.L	T	B	G	OTHER		
1	12 1/4	HTC	OSC 37		3X18 R95527	1363	1363	28 1/2	17 3/4	28 1/2	12	100	1/2	850	P	55	55	9.1	4.2	4.5	1	2	I			
2	8 1/2	HTC	OSC 19T		3X13 SN93103	2438	1075	23	46 7/8	51 1/2	12	110	0	550	S	65		4.0	3.3	12	5	7	I			RUN 9 1/2 CS
3	8 1/2	HTC	J3		3X10 JF291	3650	1212	25	48 4/8	76 3/8	20	80	0	1200	S	64		4.1	3.5	10	5	6	I			NEW BIT
4	8 1/2	SEC	S44		3X10 550977	4128	478	15 1/4	31 3/4	71 1/4	14	100	30	1250	S	64		4.3	4.3	10.9	6	4	I			NEW BIT
5	8 1/2	SEC	M44N		3X12 506682	4296	168	8	21	49 1/2	20	100	25	850	S	64		4.3	4.3	8.5	5	5	I			NEW BIT
6	8 1/2	HTC	OSC 16T		3X10 SN983	4552	256	12 1/2	20 1/4	112 1/2	20	85	1 1/4	1300	S	65		4.3	3.8	8.5	4	6	I			NEW BIT
7	8 1/2	HTC	OSC 16T		3X10 SN984	4941	389	22 1/2	17	134 1/2	25	85	1 1/2	1400	S	65		4.5	4.3	9	6	4	I			NEW BIT
8	8 1/2	HTC	OSC 3AJ		3X10 PR363	5448	507	34 1/4	14.5	167 1/2	25	80	2	1400	S	62		4.5	4.1	8.5	6	6	I			NEW BIT
9	8 1/2	HTC	OSC 21		3X10 2338F	5555	107	10 1/4	14 1/4	178 1/2	25	80	2	1400	S	62		4.8	4.1	7.5	5	2	I			NEW BIT
10	8 1/2	HTC	J22		3X10 680XK	5940	355	30	23	206 1/2	25	65	1/4	1400	S	62		4.4	4.5	5	2	2	I			NEW BIT
						T D	5940																			
						7-3-81																				

Compliments of  
**HUGHES TOOL COMPANY**  
 Houston, Texas  
 U.S.A.

APPENDIX 4

Velocity Data Report

WELL VELOCITY SURVEY

GRUMBY NO. 1

P.E.P. 93

VICTORIA

for

BEACH PETROLEUM N.L.

by

VELOCITY DATA PTY. LTD.

Brisbane, Australia

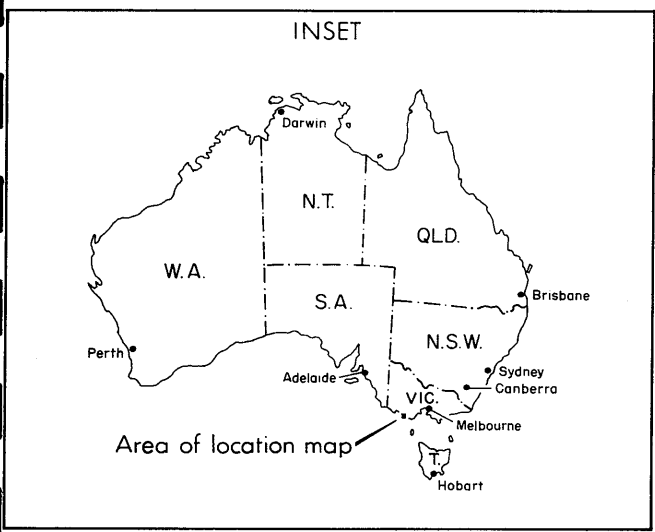
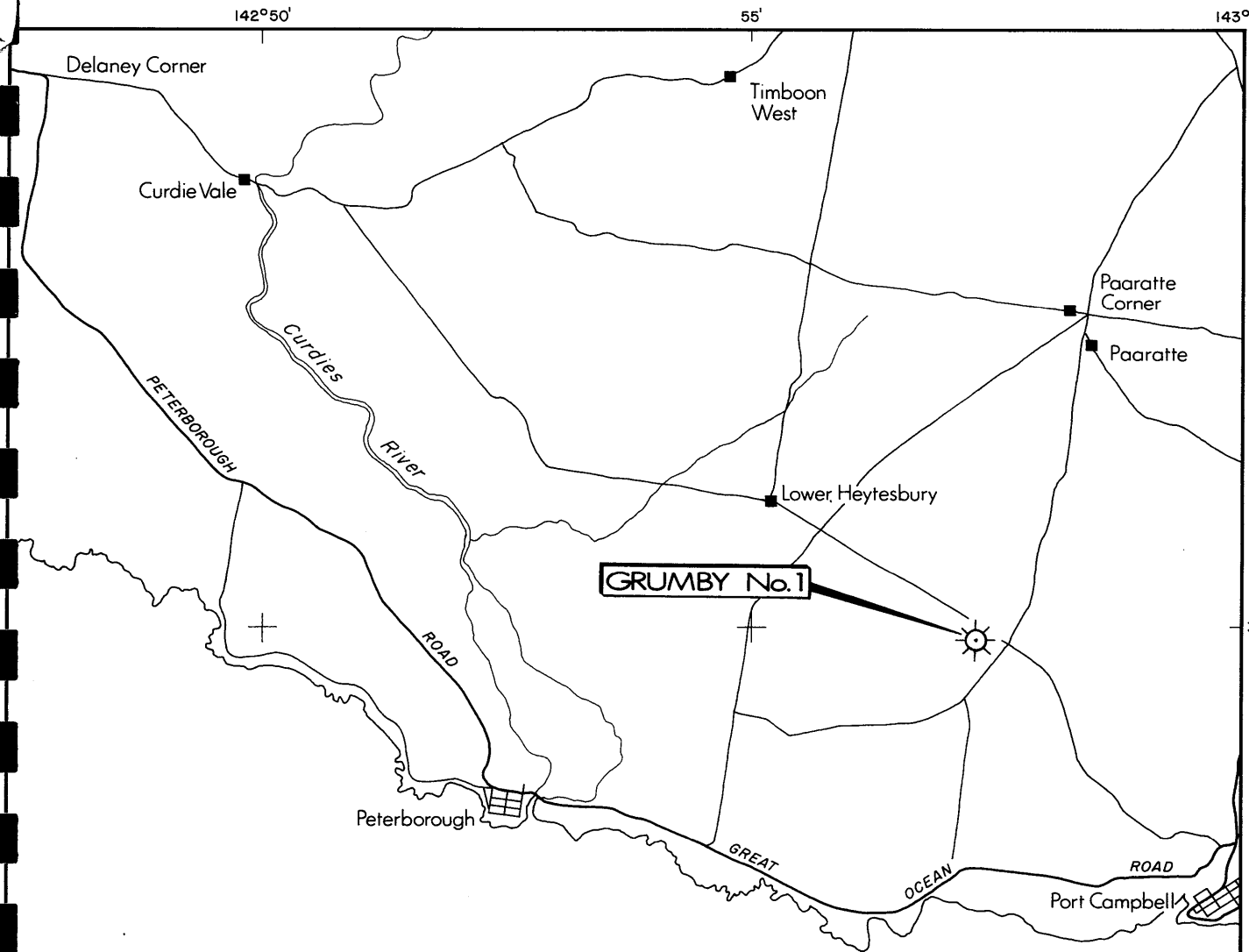
March 8, 1981

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EQUIPMENT . . . . .	2
RECORDING . . . . .	2
COMPUTATIONS . . . . .	3
COMPUTATION SHEETS	

Figures:

- Figure 1      Location Map
  - Figure 2      Shot Location Sketch
  - Figure 3      Time-depth points and  
                 velocity functions
  - Figure 4      Time-depth, average velocity  
                 and interval velocity curves
- Sample Records



INDIAN  
+  
OCEAN

BEACH PETROLEUM N.L.

**GRUMBY No.1**

**WELL LOCATION MAP**

Scale 1:100 000

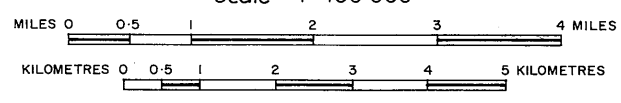
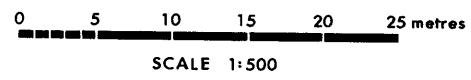
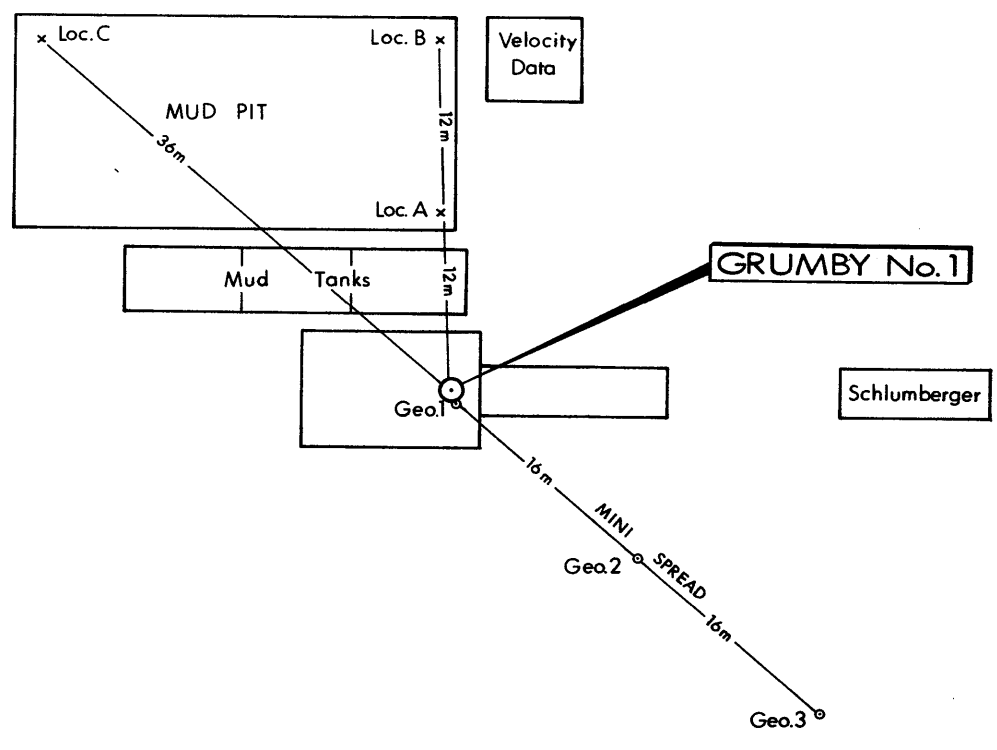


Figure 1

~~Z~~



BEACH PETROLEUM N.L.

GRUMBY No.1

SHOT POINT LOCATION SKETCH

Figure 2

SUMMARY

Velocity Data Pty. Ltd. conducted a velocity survey for Beach Petroleum N.L. in the Grumby No. 1 well, PEP93, Victoria. The date of the survey was March 8, 1981.

Twenty-three shots were taken in the well over fifteen levels. Record quality was fair to good and the results are considered to be reliable. The recording at total depth has not been used in calculations since the time appears about .005 secs. long, possibly because of the sonde resting in loose material at the bottom of the hole. Elsewhere, where more than one satisfactory shot was taken at a level, times have been averaged.

Explosives were used as an energy source with charges being fired in the mud pit at a depth of .9 metres and offset 36 metres from the well head. Charge size was 300 grms. for all shots below the datum.

Because the shot at total depth has not been used in calculations, interval velocities below the 1754 metre level are based on unadjusted sonic interval times.

The survey was used to calibrate the sonic log. A calculated depth function of  $Z = 2840t^{1.250}$  is a fair fit to the time-depth curve over the entire depth of the well.

GENERAL

Name of Well	: Grumby No. 1
Location	: PEP93, Victoria
Co-ordinates	: Lat. 38°35'8.5"S. Long. 142°57'11.5"E.
Date of Survey	: March 8, 1981
Elevation of K.B.	: 91.2 metres A.S.L.
Elevation of Datum	: Sea level
Logging	: Schlumberger
Sonic Interval	: 415.2 to 1813.6 metres
Depth surveyed	: 1814 metres
Weather	: Fine - warm
Operator	: B. Prosser



2.

EQUIPMENT

Energy Source : Dynamite  
Recording Instruments : S.I.E. RS44W Well-shoot system  
Downhole Geophone : Geospace WLS1050 Wall lock  
Reference Geophone : Mk. L1

RECORDING

Charge Size : 50 to 300 grms.  
Depth of shots : .9 metres  
Shot offset : 36 metres  
Reference sensors : Refer Fig. 2

Downhole sensor:

6 HSl 4.5 Hz-215 ohm, high temperature detectors in series parallel. Frequency response 8-300Hz within 3db.

Preamplifier -48db fixed gain. Frequency response 5-200Hz within 3db.

Record Traces:

1. Time Break
2. Well Geophone - high gain
3. Well Geophone - medium gain
4. Well Geophone - medium gain
5. Well Geophone - low gain
6. Reference phone No. 1 - well head
7. Reference phone No. 2 - offset 16 metres from  
well head
8. Reference phone No. 3 - offset 32 metres from  
well head
9. Confirmation time break
10. Timing Trace

COMPUTING

Sonic times are adjusted to check-shot times using two methods.

- 1) A linear correction

$$\frac{(t_{L_2} - t_{R_2}) - (t_{L_1} - t_{R_1})}{Z_2 - Z_1} = \text{correction in } \mu\text{secs/ft.}$$

- 11) A differential correction

$$100 \left( 1 - \frac{(t_{R_2} - t_{R_1})}{(t_{L_2} - t_{L_1})} \right) = \% \text{ decrease in interval time}$$

where  $t_L$  = sonic log time

$t_R$  = record time

and  $Z_2 - Z_1$  = depth interval

Where check-shot interval times are longer than corresponding sonic interval times, errors are assumed to be instrumental and are adjusted using the linear correction. However, if formation characteristics, such as high porosity or the presence of gas are suspected, the differential correction is used.

The differential correction is also applied where check-shot interval times are shorter than corresponding sonic times and these differences are assumed to arise from caving or mud cake effects.

Six shots were taken at datum from varying offset distances and using charge sizes which varied from a cap to 100 grms. of dynamite. Corrected times are in close agreement and have been averaged to give a datum correction time of  $-.048^4$  secs. No other corrections have been applied when relating the survey results to the record time section. All shots except shot 10 at total depth have been used in calculations. Where more than one satisfactory shot was obtained at a level, times have been averaged.

Discrepancies between shot interval times and sonic interval times are moderate to small.

Generally, shot interval times are longer than the corresponding sonic interval times. Exceptions to this are over the Paaratte, Flaxmans and Warre formations where shot interval times are shorter.

A calculated depth function of  $Z = 2840t^{1.250}$  is a fair fit to the time-depth curve over the surveyed interval of the well.

Time-depth and velocity curves are submitted with this report together with copies of the field records.



L.W. Pfitzner.

PE905794

This is an enclosure indicator page.  
The enclosure PE905794 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905794 has the following characteristics:

- ITEM\_BARCODE = PE905794
- CONTAINER\_BARCODE = PE902706
  - NAME = Time Depth Points and Velocity Function  
Graph for Grumby-1
  - BASIN = OTWAY
  - PERMIT = PEP/93
  - TYPE = WELL
  - SUBTYPE = VELOCITY\_CHART
- DESCRIPTION = Time Depth Points and Velocity Function  
Graph (from Appendix 4--Velocity Data  
Report--of WCR) for Grumby-1
- REMARKS =
- DATE\_CREATED = 8/03/81
- DATE\_RECEIVED = 3/07/81
  - W\_NO = W737
  - WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE902707

This is an enclosure indicator page.  
The enclosure PE902707 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE902707 has the following characteristics:

ITEM\_BARCODE = PE902707  
CONTAINER\_BARCODE = PE902706  
    NAME = Time Depth & Velocity Curves  
    BASIN = OTWAY  
    PERMIT = PEP 93  
    TYPE = WELL  
    SUBTYPE = VELOCITY\_CHART  
DESCRIPTION = Time Depth & Velocity Curves (enclosure  
                  from WCR) for Grumby-1  
REMARKS =  
DATE\_CREATED = 8/03/81  
DATE\_RECEIVED =  
    W\_NO = W737  
    WELL\_NAME = Grumby-1  
CONTRACTOR = Velocity Data Pty Ltd  
CLIENT\_OP\_CO = Beach Petroleum NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE905797

This is an enclosure indicator page.  
The enclosure PE905797 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905797 has the following characteristics:

- ITEM\_BARCODE = PE905797
- CONTAINER\_BARCODE = PE902706
  - NAME = Velocity Survey Shot Data (sheet 1 of  
12) for Grumby-1
  - BASIN = OTWAY
  - PERMIT = PEP/93
  - TYPE = SEISMIC
  - SUBTYPE = FEILD
  - DESCRIPTION = Seismic Shot Data (from Appendix  
4--Velocity Data Report--of WCR) for  
Grumby-1
  - REMARKS = record no. 23
- DATE\_CREATED =
- DATE\_RECEIVED =
- W\_NO = W737
- WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905798

This is an enclosure indicator page.  
The enclosure PE905798 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905798 has the following characteristics:

- ITEM\_BARCODE = PE905798
- CONTAINER\_BARCODE = PE902706
  - NAME = Velocity Survey Shot Data (sheet 2 of 12) for Grumby-1
  - BASIN = OTWAY
  - PERMIT = PEP/93
  - TYPE = SEISMIC
  - SUBTYPE = FEILD
  - DESCRIPTION = Seismic Shot Data (from Appendix 4--Velocity Data Report--of WCR) for Grumby-1
  - REMARKS = record no. 21 and 22
- DATE\_CREATED =
- DATE\_RECEIVED =
- W\_NO = W737
- WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905799

This is an enclosure indicator page.  
The enclosure PE905799 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905799 has the following characteristics:

- ITEM\_BARCODE = PE905799
- CONTAINER\_BARCODE = PE902706
  - NAME = Velocity Survey Shot Data (sheet 3 of  
12) for Grumby-1
  - BASIN = OTWAY
  - PERMIT = PEP/93
  - TYPE = SEISMIC
  - SUBTYPE = FEILD
- DESCRIPTION = Seismic Shot Data (from Appendix  
4--Velocity Data Report--of WCR) for  
Grumby-1
- REMARKS = record no. 19 and 20
- DATE\_CREATED =
- DATE\_RECEIVED =
- W\_NO = W737
- WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)



PE905800

This is an enclosure indicator page.  
The enclosure PE905800 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905800 has the following characteristics:

ITEM\_BARCODE = PE905800  
CONTAINER\_BARCODE = PE902706  
NAME = Velocity Survey Shot Data (sheet 4 of  
12) for Grumby-1  
BASIN = OTWAY  
PERMIT = PEP/93  
TYPE = SEISMIC  
SUBTYPE = FEILD  
DESCRIPTION = Seismic Shot Data (from Appendix  
4--Velocity Data Report--of WCR) for  
Grumby-1  
REMARKS = record no. 17 and 18  
DATE\_CREATED =  
DATE\_RECEIVED =  
W\_NO = W737  
WELL\_NAME = GRUMBY-1  
CONTRACTOR =  
CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905801

This is an enclosure indicator page.  
The enclosure PE905801 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905801 has the following characteristics:

- ITEM\_BARCODE = PE905801
- CONTAINER\_BARCODE = PE902706
  - NAME = Velocity Survey Shot Data (sheet 5 of  
12) for Grumby-1
  - BASIN = OTWAY
  - PERMIT = PEP/93
  - TYPE = SEISMIC
  - SUBTYPE = FEILD
  - DESCRIPTION = Seismic Shot Data (from Appendix  
4--Velocity Data Report--of WCR) for  
Grumby-1
  - REMARKS = record no. 15 and 16
- DATE\_CREATED =
- DATE\_RECEIVED =
- W\_NO = W737
- WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905802

This is an enclosure indicator page.  
The enclosure PE905802 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905802 has the following characteristics:

- ITEM\_BARCODE = PE905802
- CONTAINER\_BARCODE = PE902706
  - NAME = Velocity Survey Shot Data (sheet 6 of  
12) for Grumby-1
  - BASIN = OTWAY
  - PERMIT = PEP/93
  - TYPE = SEISMIC
  - SUBTYPE = FEILD
  - DESCRIPTION = Seismic Shot Data (from Appendix  
4--Velocity Data Report--of WCR) for  
Grumby-1
  - REMARKS = record no. 13 and 14
- DATE\_CREATED =
- DATE\_RECEIVED =
- W\_NO = W737
- WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905803

This is an enclosure indicator page.  
The enclosure PE905803 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905803 has the following characteristics:

- ITEM\_BARCODE = PE905803
- CONTAINER\_BARCODE = PE902706
- NAME = Velocity Survey Shot Data (sheet 7 of  
12) for Grumby-1
- BASIN = OTWAY
- PERMIT = PEP/93
- TYPE = SEISMIC
- SUBTYPE = FEILD
- DESCRIPTION = Seismic Shot Data (from Appendix  
4--Velocity Data Report--of WCR) for  
Grumby-1
- REMARKS = record no. 11 and 12
- DATE\_CREATED =
- DATE\_RECEIVED =
- W\_NO = W737
- WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905804

This is an enclosure indicator page.  
The enclosure PE905804 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905804 has the following characteristics:

- ITEM\_BARCODE = PE905804
- CONTAINER\_BARCODE = PE902706
  - NAME = Velocity Survey Shot Data (sheet 8 of  
12) for Grumby-1
  - BASIN = OTWAY
  - PERMIT = PEP/93
  - TYPE = SEISMIC
  - SUBTYPE = FEILD
- DESCRIPTION = Seismic Shot Data (from Appendix  
4--Velocity Data Report--of WCR) for  
Grumby-1
- REMARKS = record no. 9 and 10
- DATE\_CREATED =
- DATE\_RECEIVED =
- W\_NO = W737
- WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905805

This is an enclosure indicator page.  
The enclosure PE905805 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905805 has the following characteristics:

- ITEM\_BARCODE = PE905805
- CONTAINER\_BARCODE = PE902706
  - NAME = Velocity Survey Shot Data (sheet 9 of  
12) for Grumby-1
  - BASIN = OTWAY
  - PERMIT = PEP/93
  - TYPE = SEISMIC
  - SUBTYPE = FEILD
  - DESCRIPTION = Seismic Shot Data (from Appendix  
4--Velocity Data Report--of WCR) for  
Grumby-1
  - REMARKS = record no. 7 and 8
- DATE\_CREATED =
- DATE\_RECEIVED =
- W\_NO = W737
- WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905806

This is an enclosure indicator page.  
The enclosure PE905806 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905806 has the following characteristics:

- ITEM\_BARCODE = PE905806
- CONTAINER\_BARCODE = PE902706
  - NAME = Velocity Survey Shot Data (sheet 10 of  
12) for Grumby-1
  - BASIN = OTWAY
  - PERMIT = PEP/93
  - TYPE = SEISMIC
  - SUBTYPE = FEILD
- DESCRIPTION = Seismic Shot Data (from Appendix  
4--Velocity Data Report--of WCR) for  
Grumby-1
- REMARKS = record no. 5 and 6
- DATE\_CREATED =
- DATE\_RECEIVED =
  - W\_NO = W737
  - WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905807

This is an enclosure indicator page.  
The enclosure PE905807 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905807 has the following characteristics:

- ITEM\_BARCODE = PE905807
- CONTAINER\_BARCODE = PE902706
  - NAME = Velocity Survey Shot Data (sheet 11 of 12) for Grumby-1
  - BASIN = OTWAY
  - PERMIT = PEP/93
  - TYPE = SEISMIC
  - SUBTYPE = FEILD
  - DESCRIPTION = Seismic Shot Data (from Appendix 4--Velocity Data Report--of WCR) for Grumby-1
  - REMARKS = record no. 3 and 4
- DATE\_CREATED =
- DATE\_RECEIVED =
- W\_NO = W737
- WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)



PE905808

This is an enclosure indicator page.  
The enclosure PE905808 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905808 has the following characteristics:

- ITEM\_BARCODE = PE905808
- CONTAINER\_BARCODE = PE902706
  - NAME = Velocity Survey Shot Data (sheet 12 of  
12) for Grumby-1
  - BASIN = OTWAY
  - PERMIT = PEP/93
  - TYPE = SEISMIC
  - SUBTYPE = FEILD
- DESCRIPTION = Seismic Shot Data (from Appendix  
4--Velocity Data Report--of WCR) for  
Grumby-1
- REMARKS = record no. 1 and 2
- DATE\_CREATED =
- DATE\_RECEIVED =
- W\_NO = W737
- WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)

APPENDIX 5

Gas Analyses



The Australian  
Mineral Development  
Laboratories

Flemington Street, Frewville,  
South Australia 5063  
Phone Adelaide 79 1662  
Telex AA 82520

Please address all  
correspondence to  
P.O. Box 114 Eastwood  
SA 5063  
In reply quote:

# amdel

3/944/0 - AC 4841/81

24 April 1981

## NATA CERTIFICATE

Mr. J.A. Hinkins,  
Executive Director,  
Beach Petroleum N.L.,  
G.P.O. Box 1280L,  
MELBOURNE VIC. 3001

REPORT AC 4841/81

YOUR REFERENCE: Order Number 048

IDENTIFICATION: As listed

DATE RECEIVED: 2 April 1981

D.K. Rowley  
Manager  
Analytical Chemistry Division

*D.K. Rowley*  
for Norton Jackson  
Managing Director

ij

Pilot Plant: Osman Place  
Thebarton S.A.  
Telephone 438053  
Branch Laboratory: Perth



This laboratory is registered by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of registration. This document shall not be reproduced except in full.

GAS CHROMATOGRAPHY ANALYSIS

Well tested: Grumby # 1  
Date tested: 19/3/81 at 1420 hours  
Type of test:  
Type of sample: Gas  
Source of sample: Separator  
Field sampling conditions: 32°F 420 psi  
Reference: O/N 048

RESULTS OF ANALYSIS

Oxygen plus argon	<0.01	% mol vol
Nitrogen	1.35	
Hydrogen	None Detected	
Helium	0.02	
Carbon dioxide	52.6	
Methane	43.5	
Ethane	1.55	
Propane	0.53	
i Butane	0.10	
n Butane	0.14	
i Pentane	0.04	
n Pentane	0.03	
Hexanes	0.04	
Heptanes	0.06	
Octanes & higher hydrocarbons	0.04	

Calculated Gas Density  
(relative air = 1) 1.089

REMARKS:

GAS AND FUEL CORPORATION OF VICTORIA  
SCIENTIFIC SERVICES DEPARTMENT

SPECIAL TEST REPORT

Requested by	Beach Petroleum N.L.	Sample book no.	81/204
Date received	10.3.81		
Material	Natural Gas		
Query	Full Analysis	Job no.	234
Origin of sample	Grumby No.1	Report no.	81/145/AN

Report:                    SAMPLES FROM BEACH PETROLEUM N/L.                    GRUMBY No.1

R F T	1	1	2	2
Sample No:-	1	2	1	2
Depth (m)	1680	1665.5	1676	1672

ANALYSIS AS RECEIVED - MOLE %

Methane	38.97	27.58	40.48	26.12
Ethane	1.31	0.91	1.39	0.90
Propane	0.45	0.31	0.48	0.34
i Butane	0.089	0.062	0.100	0.074
n Butane	0.108	0.072	0.115	0.094
i Pentane	0.039	0.024	0.040	0.033
n Pentane	0.031	0.018	0.031	0.025
Hexanes +	0.145	0.061	0.108	0.093
Carbon Dioxide	40.64	28.92	32.71	36.31
Nitrogen	14.54	33.42	19.63	28.72
Oxygen + Argon	3.68	8.62	4.92	7.29
HV (MJ/m <sup>3</sup> gross)	16.63	11.64	17.14	11.24
WI	16.24	11.46	17.16	10.82
SG (air = 1.0)	1.048	1.032	0.998	1.079

CALCULATED TO AIR FREE BASIS - MOLE %

Methane	47.29	46.90	52.92	40.10
Ethane	1.59	1.55	1.82	1.38
Propane	0.55	0.53	0.63	0.52
i Butane	0.108	0.106	0.131	0.114
n Butane	0.131	0.123	0.150	0.144
i Pentane	0.047	0.041	0.052	0.051
n Pentane	0.038	0.031	0.041	0.038
Hexanes +	0.176	0.104	0.141	0.143
Carbon Dioxide	49.31	49.18	42.77	55.73
Nitrogen	0.76	1.43	1.35	1.78
HV (MJ/m <sup>3</sup> gross)	20.18	19.80	22.44	17.25

Distribution:

Mr. F. Ward - Beach Petroleum N.L. (2) ✓  
O. Anderson

Chemist O. Anderson

Date 16.3.81

Checked

*O. Anderson*

Laboratory

Analytical

X

GAS AND FUEL CORPORATION OF VICTORIA  
SCIENTIFIC SERVICES DEPARTMENT

**SPECIAL TEST REPORT**

Requested by	Beach Petroleum N/L	Sample Book No. 81/238.....
Date Received	20/3/81	
Material	Natural Gas	Job No. .... 238 .....
Query	Full Analysis	Report No. .... 81/193/AN .....
Origin of Sample	Wellhead Grumby No. 1 - 18/3/81	

REPORT

The sample was received in a cylinder identified only as CORE LAB 10000 PSI WP S/N 1068/81.

Some difficulty was experienced in obtaining reasonable samples from the cylinder, as condensate was also present. The results indicate the gaseous section of the sample at 25°C.

Please type only within the lines

Component	Concentration mole %	Estimated Error mole %
Methane	44.26	± 0.5
Ethane	1.42	± 0.04
Propane	0.52	± 0.02
i-Butane	0.098	± 0.002
n-Butane	0.119	± 0.002
i-Pentane	0.044	± 0.002
n-Pentane	0.035	± 0.002
Hexanes +	0.41	± 0.008
Carbon Dioxide	51.72	± 0.5
Nitrogen	1.37	± 0.02
Oxygen + Argon	< 0.01	± 0.01

Characteristics for the dry gas at 15°C, 101.325 kPa.

Heating Value = 19.3 ± 0.1 MJ/m<sup>3</sup> gross.

Specific Gravity = 0.574 ± 0.003.  
(Air = 1)

"This Laboratory is registered by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed with its terms of registration.

Distribution: Mr. F. Ward  
Beach Petroleum N/L (2)  
O. Anderson  
G. Mitchelmore (2)  
Master File

A Laboratory Certificate, Statement or Report may not be published except in full unless permission for the publication of an approved abstract has been obtained, in writing"



Chemist Checked	I. Strudwick <i>Anderson</i>	Date	24/3/81
		Laboratory	

# CORE LABORATORIES INTERNATIONAL LTD.

Petroleum Reservoir Engineering

SINGAPORE

## GAS ANALYSIS

COMPANY Beach Petroleum N.L.  
DST/PROD'N TEST  
WELL Grumby No. 1.  
SAMPLING POINT Top of Test Sep.  
FIELD Wildcat  
AREA  
COUNTRY Australia  
FILE WA-CA-8

<u>COMPONENTS</u>		<u>MOL %</u>
Hydrogen	.....	.....
Helium	.....	.....
Carbon Monoxide	.....	.....
Hydrogen Sulphide	.....	.....
Carbon Dioxide	.....	32.79
Oxygen	.....	.....
Nitrogen	.....	0.99
Methane	.....	62.88
Ethane	0.2972	1.18
Propane	0.2086	0.76
Iso-Butane	0.2838	0.87
N-Butane	0.3238	1.03
Iso-Pentane	0.1095	0.30
N-Pentane	0.0614	0.17
Hexanes	0.0041	0.01
Heptanes Plus	0.0045	0.01

CALCULATED GAS GRAVITY= 0.93 GPM= 1.2929

CALCULATED GROSS HEATING VALUE= 756.84 BTU per cubic foot of dry  
gas @ 14.696 psia and 60 °F

COLLECTED @ 457 psig and 25 °F ON 18 MARCH 81

REMARKS:

DEPARTMENT OF  
MINERALS AND ENERGY

CHEMICAL BRANCH

STATE LABORATORIES 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002



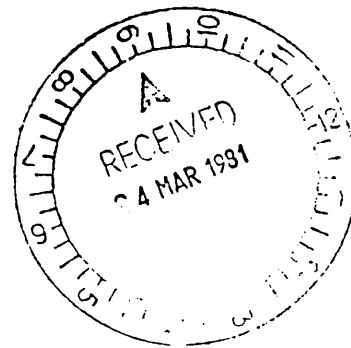
Our Ref. CM:JC  
Your Ref. An GP 18/3  
Contact D R 10.3.81  
Ext. 1245

TELEPHONE: (03) 651 9111  
TELEX: MINERG AA 36595

18 March 1981

REPORT ON SAMPLE NOS. 430 - 433/81

Sample : Gases  
Locality : Point Campbell  
Sender : J Patchett  
Beach Petroleum  
32 nd floor  
360 Collins St.  
MELBOURNE 3000



DETAILS OF SAMPLES:

Four samples of gas from a drilling operation by Beach Petroleum near Point Campbell was received for analysis with special emphasis on content of carbon dioxide, alkanes including nature and a possible hydrogen sulphide content.

The given laboratory numbers and descriptions are as follows:

RESULTS:

Lab No	Description
430	RFT1 Sample 1
431	RFT1 Sample 2
432	RFT2 Sample 1
433	RFT2 Sample 2



## RESULTS - RATIONALISED

Lab No	Senders No	% Oxygen	% Nitrogen	% Carbon Dioxide	% Methane	% Ethane	% Propane
430	RFT1 5.1	10.7	39.5	27.4	21.7	0.7	<0.1
431	RFT1 5.2	11.5	43.2	20.0	24.3	0.8	0.2
432	RFT2 5.1	11.4	42.2	21.6	23.9	0.7	0.2
433	RFT2 5.2	18.2	70.1	5.4	6.1	0.2	<0.1

## NOTE:

- 1 Gases were stored over water so the carbon dioxide would be lower, due to its solubility in water.
- 2 Because of the water present we thought a test for hydrogen sulphide would not be merited.
- 3 It would be appreciated if further samples could be taken in relation to A.S.T.M. practice.

*D. J. ...*  
*...*  
 CHIEF CHEMIST

APPENDIX 6

Liquids Analyses

GRUMBY # 1

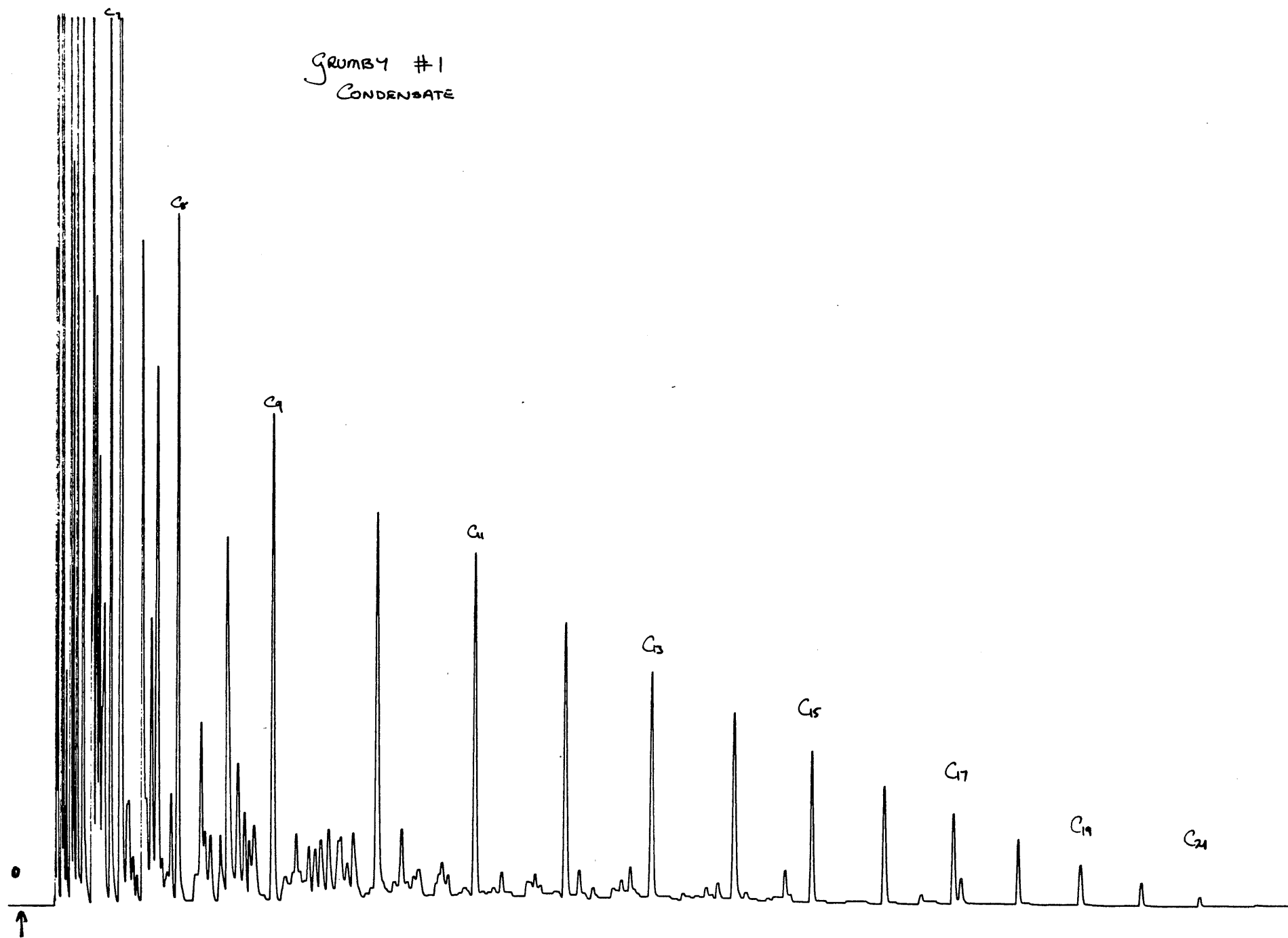
Condensate ex Separator

Results of Analysis:

	0.50	Wt %
Propane	0.50	Wt %
Butanes	3.10	
Pentanes	5.80	
Hexanes	8.35	
Heptanes	17.95	
Octanes	23.65	
Nonanes	11.70	
Decanes	8.70	
C <sub>11</sub> hydrocarbons	5.40	
C <sub>12</sub> "	3.75	
C <sub>13</sub> "	3.30	
C <sub>14</sub> "	2.15	
C <sub>15</sub> "	1.80	
C <sub>16</sub> "	1.15	
C <sub>17</sub> "	0.90	
C <sub>18</sub> "	0.80	
C <sub>19</sub> "	0.45	
C <sub>20</sub> "	0.25	
C <sub>21</sub> "	0.15	
C <sub>22</sub> and higher hydrocarbons	0.15	

Specific Gravity 0.744 at 15.6°C

GRUBBY #1  
CONDENSATE



APPENDIX - 7

PRODUCTION TESTING

PRODUCTION TEST No.1

This test was of short duration and was designed primarily to clean the well after swabbing.

Date 14th March, 1981

1020 hours Commenced swabbing  
1105 hours Swabbed to 550m; well commenced to unload completion fluid from the tubing; shut master gate and removed lubricator.  
1115 hours Opened master gate; well commenced to flow.  
1205 hours Attempted to flare gas - flare could not be maintained.  
1215 hours Shut wing gate.  
1230 hours Shut master gate and secured the well.

Flow Measurements

Flow rates were estimated from readings on a 3000 psi gauge upstream of the well head variable choke.

Time	Choke	THP	CHP	Q
1117	open	915 psia	215 psia	u/a
1130	open	940 psia	215 psia	u/a
1145	½ inch	1265 psia	240 psia	7.92 MMCFD
1200	½ inch	1265 psia	265 psia	7.92 MMCFD
1205	¼ inch	1515 psia	315 psia	2.23 MMCFD
1215	¼ inch	1540 psia	415 psia	2.27 MMCFD

The above tabulated flow rates are not considered to be reliable.

Shut in Pressure

At 1230 hours (that is after a closed in period of 15 minutes) the shut in tubing head pressure was:-

1660 psig

PE905795

This is an enclosure indicator page.  
The enclosure PE905795 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905795 has the following characteristics:

- ITEM\_BARCODE = PE905795
- CONTAINER\_BARCODE = PE902706
  - NAME = Check Shot and Sonic Calibration Data  
Sheet (1 of 2) for Grumby-1
  - BASIN = OTWAY
  - PERMIT = PEP/93
  - TYPE = WELL
  - SUBTYPE = VELOCITY\_CHART
- DESCRIPTION = Check Shot and Sonic Calibration Data  
Sheet, 1 of 2, ( from appendix  
7--Production Testing--of WCR) for  
Grumby-1
- REMARKS =
- DATE\_CREATED =
- DATE\_RECEIVED =
- W\_NO = W737
- WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905796

This is an enclosure indicator page.  
The enclosure PE905796 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE905796 has the following characteristics:

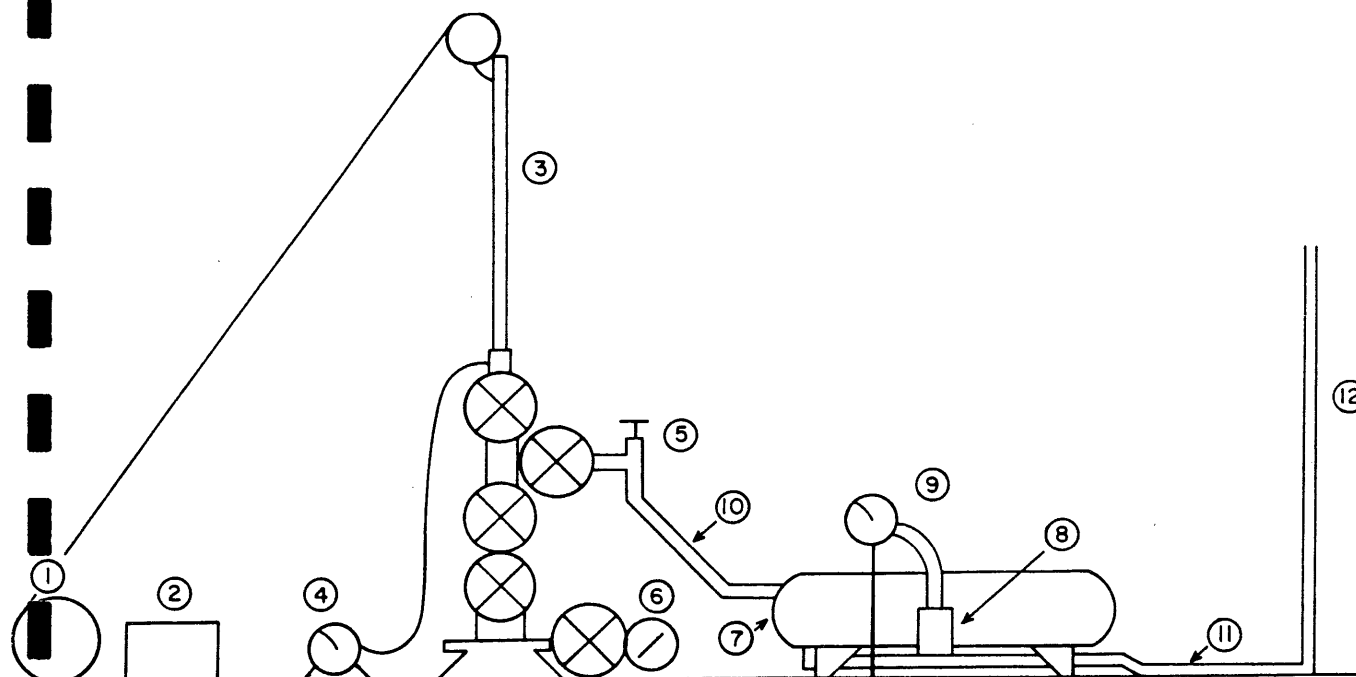
- ITEM\_BARCODE = PE905796
- CONTAINER\_BARCODE = PE902706
- NAME = Check Shot and Sonic Calibration Data  
Sheet (2 of 2) for Grumby-1
- BASIN = OTWAY
- PERMIT = PEP/93
- TYPE = WELL
- SUBTYPE = VELOCITY\_CHART
- DESCRIPTION = Check Shot and Sonic Calibration Data  
Sheet, 2 of 2, ( from appendix  
7--Production Testing--of WCR) for  
Grumby-1
- REMARKS =
- DATE\_CREATED =
- DATE\_RECEIVED =
- W\_NO = W737
- WELL\_NAME = GRUMBY-1
- CONTRACTOR =
- CLIENT\_OP\_CO = BEACH PETROLEUM NL.

(Inserted by DNRE - Vic Govt Mines Dept)



PRODUCTION TEST NO.3

Surface Installation (Schematic - not to scale)



- 1 - Logging truck (Hewlett-Packard bottom hole pressure gauge)
- 2 - H-P gauge recorder
- 3 - Lubricator
- 4 - Recording pressure gauge - tubing head pressure (THP)
- 5 - Adjustable choke
- 6 - Pressure gauge - casing head (7" x 2 7/8" annulus) pressure (CHP)
- 7 - Separator
- 8 - Orifice Meter (3 inch)
- 9 - Recording pressure gauge (differential and static pressures)
- 10 - 2 inch flow line (100 feet long)
- 11 - 2 inch flow line (100 feet long)
- 12 - Vertical stand pipe (7 inch diam. 10 feet high).

Notes

- (a) The lubricator was supported by a crane (not shown on diagram).
- (b) Under Country Fire Authority regulations, gas could only be flared in the period 0800 to 1800 hours daily and then only if the temperature did not exceed 32°C and the wind velocity was not more than 8 kph.

✓

The three point isochromal test was carried out by Go International Australia Pty. Ltd. whose report follows:-

Assessment of Results

It had been planned to carry out a four point isochromal test on this well, however a number of difficulties were encountered.

- (i) Because of its high CO<sub>2</sub> content, the gas was difficult to flare; this problem was overcome by using a 7 inch diameter flare prover.
- (ii) At higher flow rates, partial freezing was occurring in the separator and as a consequence some condensate was discharged through the flare line. Methanol or ethylene glycol injection at the well head could probably have alleviated this freezing.
- (iii) Because of strong winds and the ejection of condensate, it was decided not to flare the gas during the third flow period. However, after two hours flow, the quantity of condensate being vented was considered hazardous and the well was shut in.
- (iv) As continuing unfavourable weather conditions were forecast, the fourth flow period was not attempted.

The tests conducted on this well were designed to be of a preliminary nature only and it was considered that more rigorous testing should be carried out by reservoir engineers at the appropriate time.

For this reason the data collected have been used to derive the Open Flow Potential of the well, as it is a general industry rule of thumb that a well can be economically produced at about 15% of this volume.

The attached graph shows that the OFP of this well is about 29 MMCFD; thus an initial production rate of approximately 4 MMCFD is indicated.

Preliminary data indicate that condensate will be produced at least at the rate of 5 barrels per MMCF. As noted earlier, considerable quantities of condensate by passed the separator, so that this production rate is very conservative.

Plot Points

	$P_c^2$	3052	
	$P_c^2 - P_w^2$		
1	3052-2978	=	74 vs 3.360
2	3052-2921	=	131 vs 4.315
3	3052-2783	=	269 vs 7.110

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**WIRELINE SERVICES**  
**GO INTERNATIONAL AUSTRALIA PTY. LTD.**

(INCORPORATED IN W.A.)

BEACH PETROLEUM N.L.

GRUMBY NO. 1

MARCH 16, 1981

P.O. BOX 380

● SALE, VICTORIA, 3850, AUSTRALIA

● TELEPHONE (051) 44 3607, 44 3044

TELEX: 55254

**Go INTERNATIONAL**  
**WIRELINE SERVICES**  
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(INCORPORATED IN W.A.)

Beach Petroleum N.L.

Grumby No. 1

March 16, 1981

<u>Hours</u>	<u>Remarks</u>
March 16, 1981	
1530	Rig up to clean up well
1700	W.O.M. Orders
March 17, 1981	
1200	Flow well flare would not burn
1300	Shut in well make up 7 inch flare burner
1620	Flow well to clean up 20/64
1800	Shut in well
March 18, 1981	
0630	Rig up on well
0700	Run in hole hang @ 1660 metres
1000	Flow well 18/64 1.5 orifice
1230	Shut in well choke to be found washed out change chokes
1500	Flow well on 22/64 choke 1.500 orifice
1730	Shut in well
March 19, 1981	
0001	Well shut in
1230	Flow well on 28/64 choke @ 2.000 inch orifice
1430	Shut in well condensate icing up Coming out flare line
1635	Pull out of hole
1652	Hang at 1524 metres
1730	Hang at 1219 metres
1808	Hang at 914 metres
1848	Hang at 609 metres
1935	Hang at 305 metres
2024	Hang at 0 metres
2050	Shut in well bleed down
March 20, 1981	
0800	Run in hole with X plug
0930	Set plug @ 5420 feet trouble going through sliding sleeve
1030	Out of hole rigging down
1200	Leave location

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temp.	PSIA.	Time	Temp.	PSIA.	Time	Temp.	PSIA.
08:49:00	154.6	2305.18	08:50:00	154.5	2305.13	08:51:00	154.6	2305.08
08:52:00	154.5	2305.00	08:53:00	154.6	2304.94	08:54:00	154.6	2304.89
08:55:00	154.6	2304.86	08:56:00	154.6	2304.82	08:57:00	154.6	2304.77
08:58:00	154.6	2304.76	08:59:00	154.6	2304.73	09:00:00	154.6	2304.72
09:01:00	154.7	2304.70	09:02:00	154.7	2304.70	09:03:00	154.7	2304.67
09:04:00	154.7	2304.66	09:05:00	154.7	2304.66	09:06:00	154.7	2304.65
09:07:00	154.7	2304.64	09:08:00	154.7	2304.64	09:09:00	154.7	2304.63
09:10:00	154.8	2304.64	09:11:00	154.7	2304.64	09:12:00	154.8	2304.63
09:13:00	154.7	2304.62	09:14:00	154.8	2304.65	09:15:00	154.8	2304.64
09:16:00	154.8	2304.62	09:17:00	154.7	2304.62	09:18:00	154.8	2304.63
09:19:00	154.7	2304.62	09:20:00	154.7	2304.62	09:21:00	154.8	2304.63
09:22:00	154.8	2304.63	09:23:00	154.8	2304.63	09:24:00	154.8	2304.63
09:25:00	154.8	2304.64	09:26:00	154.8	2304.63	09:27:00	154.8	2304.63
09:28:00	154.8	2304.63	09:29:00	154.8	2304.61	09:30:00	154.8	2304.63
09:31:00	154.7	2304.62	09:32:00	154.8	2304.63	09:33:00	154.8	2304.62
09:34:00	154.8	2304.62	09:35:00	154.8	2304.62	09:36:00	154.7	2304.61
09:37:00	154.8	2304.62	09:38:00	154.8	2304.62	09:39:00	154.8	2304.63
09:40:00	154.8	2304.63	09:41:00	154.8	2304.61	09:42:00	154.8	2304.62
09:43:00	154.8	2304.62	09:44:00	154.8	2304.62	09:45:00	154.8	2304.61
09:46:00	154.8	2304.62	09:47:00	154.9	2304.63	09:48:00	154.9	2304.62
09:49:00	154.9	2304.63	09:50:00	154.8	2304.61	09:51:00	154.8	2304.63
09:52:00	154.9	2304.57	09:53:00	154.9	2304.61	09:54:00	154.8	2304.62
09:55:00	154.8	2304.62	09:56:00	154.9	2304.62	09:57:00	154.8	2304.63
09:58:00	154.8	2304.63	09:59:00	154.9	2304.62	10:00:00	154.9	2304.63
10:00:10	154.8	2304.62	10:00:20	154.9	2304.61	10:00:30	154.8	2304.62
10:00:40	154.9	2304.63	10:00:50	154.8	2304.62	10:01:00	154.8	2302.78
10:01:10	154.5	2296.86	10:01:20	154.3	2289.69	10:01:30	154.1	2282.76
10:01:40	154.0	2278.49	10:01:50	154.0	2275.33	10:02:00	154.3	2272.93
10:02:10	154.6	2271.16	10:02:20	154.9	2269.62	10:02:30	155.0	2268.32
10:02:40	155.1	2267.43	10:02:50	155.3	2266.92	10:03:00	155.4	2266.60
10:03:10	155.5	2266.50	10:03:20	155.5	2266.50	10:03:30	155.5	2266.64
10:03:40	155.5	2266.81	10:03:50	155.5	2267.06	10:04:00	155.6	2267.52
10:04:10	155.6	2267.67	10:04:20	155.6	2267.88	10:04:30	155.5	2268.17
10:04:40	155.5	2268.29	10:04:50	155.5	2268.71	10:05:00	155.5	2268.79
10:05:10	155.5	2268.82	10:05:20	155.6	2268.91	10:05:30	155.6	2268.98
10:05:40	155.6	2268.99	10:05:50	155.6	2269.38	10:06:00	155.6	2269.20
10:06:10	155.6	2269.52	10:06:20	155.6	2269.30	10:06:30	155.5	2269.41
10:06:40	155.5	2269.45	10:06:50	155.6	2269.59	10:07:00	155.6	2269.46
10:07:10	155.6	2269.50	10:07:20	155.6	2269.38	10:07:30	155.6	2269.71
10:07:40	155.6	2269.58	10:07:50	155.6	2269.59	10:08:00	155.6	2269.50
10:08:10	155.6	2269.55	10:08:20	155.6	2269.75	10:08:30	155.7	2269.70
10:08:40	155.6	2269.55	10:08:50	155.6	2269.50	10:09:00	155.6	2269.42
10:09:10	155.6	2269.46	10:09:20	155.6	2269.40	10:09:30	155.6	2269.34
10:09:40	155.7	2269.50	10:09:50	155.7	2269.36	10:10:00	155.7	2269.34
10:10:10	155.6	2269.54	10:10:20	155.6	2269.44	10:10:30	155.6	2269.55
10:10:40	155.7	2269.66	10:10:50	155.6	2269.83	10:11:00	155.7	2269.83
10:11:10	155.7	2269.84	10:11:20	155.6	2269.79	10:11:30	155.7	2269.64
10:11:40	155.7	2269.64	10:11:50	155.6	2269.59	10:12:00	155.7	2269.77
10:12:10	155.7	2269.69	10:12:20	155.7	2269.68	10:12:30	155.7	2269.79
10:12:40	155.7	2269.71	10:12:50	155.6	2269.50	10:13:00	155.6	2269.61
10:13:10	155.7	2269.64	10:13:20	155.7	2269.64	10:13:30	155.6	2269.57
10:13:40	155.6	2269.48	10:13:50	155.7	2269.57	10:14:00	155.7	2269.52
10:14:10	155.7	2269.54	10:14:20	155.7	2269.53	10:14:30	155.7	2269.42
10:14:40	155.6	2269.37	10:14:50	155.7	2269.19	10:15:00	155.6	2269.11
10:15:10	155.7	2269.34	10:15:20	155.7	2269.13	10:15:30	155.7	2269.12
10:16:00	155.7	2269.03	10:16:30	155.7	2269.25	10:17:00	155.7	2269.56
10:17:30	155.7	2269.49	10:18:00	155.6	2269.17	10:18:30	155.7	2268.94
10:19:00	155.7	2268.91	10:19:30	155.7	2268.86	10:20:00	155.7	2268.65
10:20:30	155.7	2268.47	10:21:00	155.7	2268.35	10:21:30	155.7	2268.30
10:22:00	155.7	2268.30	10:22:30	155.7	2268.28	10:23:00	155.7	2268.38
10:23:30	155.7	2268.45	10:24:00	155.8	2268.51	10:24:30	155.7	2268.61

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temp.	PSIA.	Time	Temp.	PSIA.	Time	Temp.	PSIA.
10:25:00	155.7	2268.68	10:25:30	155.7	2268.72	10:26:00	155.8	2268.69
10:26:30	155.7	2268.74	10:27:00	155.8	2268.77	10:27:30	155.8	2268.79
10:28:00	155.8	2268.87	10:28:30	155.8	2268.98	10:29:00	155.8	2269.19
10:29:30	155.7	2269.29	10:30:00	155.7	2269.38	10:31:00	155.8	2269.46
10:32:00	155.8	2269.40	10:33:00	155.8	2269.37	10:34:00	155.9	2269.37
10:35:00	155.8	2269.39	10:36:00	155.9	2269.49	10:37:00	155.8	2269.53
10:38:00	155.8	2269.66	10:39:00	155.9	2269.81	10:40:00	155.9	2269.90
10:41:00	155.8	2269.91	10:42:00	155.9	2269.97	10:43:00	155.9	2270.07
10:44:00	155.9	2270.15	10:45:00	155.9	2270.24	10:46:00	155.9	2270.49
10:47:00	156.0	2270.53	10:48:00	155.9	2270.69	10:49:00	156.0	2270.78
10:50:00	156.0	2270.91	10:51:00	155.9	2270.88	10:52:00	156.0	2270.98
10:53:00	156.0	2271.17	10:54:00	156.0	2271.31	10:55:00	156.0	2271.49
10:56:00	156.0	2271.72	10:57:00	156.0	2271.83	10:58:00	156.0	2271.90
10:59:00	156.0	2271.87	11:00:00	156.0	2271.85	11:01:00	156.0	2271.89
11:02:00	156.0	2271.93	11:03:00	156.0	2271.91	11:04:00	156.1	2271.99
11:05:00	156.1	2271.99	11:06:00	156.0	2271.99	11:07:00	156.0	2271.93
11:08:00	156.0	2272.00	11:09:00	156.1	2271.99	11:10:00	156.1	2271.99
11:11:00	156.1	2272.02	11:12:00	156.1	2272.07	11:13:00	156.1	2272.04
11:14:00	156.1	2271.99	11:15:00	156.1	2272.01	11:16:00	156.1	2271.99
11:17:00	156.1	2272.05	11:18:00	156.1	2272.01	11:19:00	156.1	2271.99
11:20:00	156.1	2272.01	11:21:00	156.2	2272.02	11:22:00	156.2	2271.96
11:23:00	156.2	2272.01	11:24:00	156.1	2272.06	11:25:00	156.2	2272.12
11:26:00	156.2	2272.15	11:27:00	156.1	2272.15	11:28:00	156.2	2272.19
11:29:00	156.2	2272.21	11:30:00	156.1	2272.31	11:31:00	156.2	2272.35
11:32:00	156.2	2272.36	11:33:00	156.2	2272.42	11:34:00	156.2	2272.49
11:35:00	156.2	2272.80	11:36:00	156.2	2272.93	11:37:00	156.2	2272.95
11:38:00	156.3	2273.01	11:39:00	156.2	2273.01	11:40:00	156.2	2273.07
11:41:00	156.2	2273.05	11:42:00	156.3	2273.04	11:43:00	156.2	2273.11
11:44:00	156.3	2273.19	11:45:00	156.2	2273.15	11:46:00	156.3	2273.15
11:47:00	156.3	2273.21	11:48:00	156.2	2272.97	11:49:00	156.2	2272.50
11:50:00	156.3	2272.63	11:51:00	156.3	2272.74	11:52:00	156.2	2272.80
11:53:00	156.3	2272.98	11:54:00	156.3	2273.21	11:55:00	156.3	2273.27
11:56:00	156.3	2273.39	11:57:00	156.3	2273.43	11:58:00	156.3	2273.40
11:59:00	156.3	2273.42	12:00:00	156.3	2273.40	12:01:00	156.3	2273.40
12:02:00	156.3	2273.48	12:03:00	156.4	2273.55	12:04:00	156.3	2273.62
12:05:00	156.4	2273.61	12:06:00	156.3	2273.66	12:07:00	156.3	2273.71
12:08:00	156.4	2273.77	12:09:00	156.3	2273.87	12:10:00	156.4	2274.04
12:11:00	156.3	2274.14	12:12:00	156.4	2274.24	12:13:00	156.3	2274.02
12:14:00	156.4	2274.04	12:15:00	156.4	2274.15	12:16:00	156.3	2274.13
12:17:00	156.4	2274.10	12:18:00	156.4	2274.20	12:19:00	156.4	2274.25
12:20:00	156.4	2274.28	12:21:00	156.4	2274.34	12:23:00	156.4	2274.35
12:24:00	156.4	2274.47	12:25:00	156.4	2274.54	12:26:00	156.4	2274.59
12:27:00	156.4	2274.68	12:28:00	156.5	2274.76	12:29:00	156.4	2274.81
12:29:30	156.5	2274.83	12:29:40	156.5	2274.82	12:29:50	156.4	2274.83
12:30:00	156.5	2274.82	12:30:10	156.4	2274.85	12:30:20	156.4	2274.85
12:30:30	156.6	2284.44	12:30:40	157.1	2294.17	12:30:50	157.2	2298.49
12:31:00	157.2	2300.07	12:31:10	157.2	2300.72	12:31:20	157.2	2301.14
12:31:30	157.1	2301.48	12:31:40	157.1	2301.76	12:31:50	157.1	2302.02
12:32:00	157.0	2302.22	12:32:10	157.1	2302.41	12:32:20	157.0	2302.57
12:32:30	157.1	2302.71	12:32:40	157.0	2302.84	12:32:50	157.0	2302.97
12:33:00	157.0	2303.10	12:33:10	156.9	2303.20	12:33:20	156.9	2303.30
12:33:30	156.9	2303.37	12:33:40	156.9	2303.43	12:33:50	156.9	2303.51
12:34:00	156.9	2303.57	12:34:10	156.8	2303.59	12:34:20	156.9	2303.67
12:34:30	156.9	2303.69	12:34:40	156.8	2303.73	12:34:50	156.9	2303.76
12:35:00	156.8	2303.78	12:35:10	156.8	2303.83	12:35:20	156.8	2303.84
12:35:30	156.8	2303.88	12:35:40	156.8	2303.88	12:35:50	156.8	2303.90
12:36:00	156.8	2303.91	12:36:10	156.8	2303.92	12:36:20	156.8	2303.94
12:36:30	156.7	2303.95	12:36:40	156.7	2303.96	12:36:50	156.7	2303.98
12:37:00	156.7	2303.98	12:37:10	156.7	2303.98	12:37:20	156.7	2304.00
12:37:30	156.7	2304.00	12:37:40	156.7	2304.00	12:37:50	156.7	2304.01

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temp.	PSIA.	Time	Temp.	PSIA.	Time	Temp.	PSIA.
12:38:00	156.7	2304.00	12:38:10	156.7	2304.01	12:38:20	156.7	2304.02
12:38:30	156.7	2304.03	12:38:40	156.7	2304.01	12:38:50	156.6	2304.03
12:39:00	156.6	2304.05	12:39:10	156.6	2304.05	12:39:20	156.6	2304.05
12:39:30	156.7	2304.05	12:39:40	156.7	2304.06	12:39:50	156.6	2304.08
12:40:00	156.6	2304.08	12:40:30	156.5	2304.06	12:41:00	156.6	2304.05
12:41:30	156.6	2304.07	12:42:00	156.6	2304.09	12:42:30	156.5	2304.10
12:43:00	156.5	2304.11	12:43:30	156.5	2304.12	12:44:00	156.5	2304.10
12:44:30	156.4	2304.11	12:45:00	156.4	2304.10	12:45:30	156.4	2304.11
12:46:00	156.4	2304.10	12:46:30	156.4	2304.14	12:47:00	156.3	2304.16
12:47:30	156.4	2304.17	12:48:00	156.3	2304.14	12:48:30	156.3	2304.14
12:49:00	156.3	2304.14	12:49:30	156.3	2304.14	12:50:00	156.2	2304.12
12:51:00	156.2	2304.14	12:52:00	156.2	2304.15	12:53:00	156.2	2304.16
12:54:00	156.2	2304.17	12:55:00	156.1	2304.16	12:56:00	156.2	2304.17
12:57:00	156.1	2304.18	12:58:00	156.1	2304.19	12:59:00	156.1	2304.19
13:00:00	156.1	2304.21	13:01:00	156.1	2304.23	13:02:00	156.1	2304.21
13:03:00	156.0	2304.23	13:04:00	156.0	2304.22	13:05:00	156.0	2304.23
13:06:00	156.0	2304.26	13:07:00	156.0	2304.25	13:08:00	155.9	2304.25
13:09:00	155.9	2304.26	13:10:00	156.0	2304.26	13:11:00	155.9	2304.27
13:12:00	155.9	2304.27	13:13:00	155.9	2304.29	13:14:00	155.9	2304.29
13:15:00	155.9	2304.28	13:16:00	155.8	2304.27	13:17:00	155.9	2304.30
13:18:00	155.9	2304.30	13:19:00	155.9	2304.30	13:20:00	155.9	2304.31
13:21:00	155.9	2304.32	13:22:00	155.8	2304.30	13:23:00	155.8	2304.30
13:24:00	155.9	2304.32	13:25:00	155.9	2304.33	13:26:00	155.8	2304.31
13:27:00	155.8	2304.31	13:28:00	155.8	2304.32	13:29:00	155.8	2304.33
13:30:00	155.8	2304.31	13:31:00	155.7	2304.32	13:32:00	155.8	2304.32
13:33:00	155.8	2304.32	13:34:00	155.7	2304.33	13:35:00	155.7	2304.34
13:36:00	155.7	2304.34	13:37:00	155.7	2304.35	13:38:00	155.7	2304.34
13:39:00	155.7	2304.35	13:40:00	155.7	2304.36	13:41:00	155.7	2304.34
13:42:00	155.7	2304.35	13:43:00	155.7	2304.36	13:44:00	155.7	2304.34
13:45:00	155.7	2304.36	13:46:00	155.6	2304.34	13:47:00	155.7	2304.37
13:48:00	155.7	2304.36	13:49:00	155.7	2304.36	13:50:00	155.7	2304.36
13:51:00	155.7	2304.37	13:52:00	155.7	2304.36	13:53:00	155.6	2304.37
13:54:00	155.6	2304.37	13:55:00	155.7	2304.37	13:56:00	155.7	2304.37
13:57:00	155.7	2304.37	13:58:00	155.7	2304.37	13:59:00	155.7	2304.37
14:00:00	155.7	2304.39	14:01:00	155.6	2304.39	14:10:00	155.6	2304.38
14:20:00	155.6	2304.39	14:30:00	155.5	2304.40	14:40:00	155.6	2304.41
14:50:00	155.5	2304.42	14:59:40	155.4	2304.39	14:59:50	155.5	2304.40
15:00:00	155.5	2304.42	15:00:10	155.4	2304.39	15:00:20	155.3	2299.70
15:00:30	155.0	2293.32	15:00:40	154.7	2280.55	15:00:50	154.3	2270.33
15:01:00	154.1	2262.91	15:01:10	154.1	2257.59	15:01:20	154.5	2253.44
15:01:30	155.0	2250.09	15:01:40	155.4	2247.42	15:01:50	155.5	2245.50
15:02:00	155.6	2244.22	15:02:10	155.6	2243.31	15:02:20	155.7	2242.61
15:02:30	155.6	2242.10	15:02:40	155.6	2241.64	15:02:50	155.6	2241.21
15:03:00	155.6	2240.92	15:03:10	155.6	2240.69	15:03:20	155.6	2240.53
15:03:30	155.5	2240.43	15:03:40	155.5	2240.33	15:03:50	155.5	2240.28
15:04:00	155.5	2240.26	15:04:10	155.5	2240.27	15:04:20	155.5	2240.32
15:04:30	155.5	2240.44	15:04:40	155.5	2240.58	15:04:50	155.5	2240.76
15:05:00	155.5	2240.89	15:05:10	155.5	2241.02	15:05:20	155.5	2241.12
15:05:30	155.5	2241.18	15:05:40	155.5	2241.20	15:05:50	155.5	2241.21
15:06:00	155.5	2241.25	15:06:10	155.5	2241.22	15:06:20	155.5	2241.22
15:06:30	155.5	2241.17	15:06:40	155.5	2241.15	15:06:50	155.4	2241.07
15:07:00	155.4	2240.98	15:07:10	155.4	2240.86	15:07:20	155.4	2240.81
15:07:30	155.4	2240.74	15:07:40	155.5	2240.76	15:07:50	155.4	2240.81
15:08:00	155.4	2240.86	15:08:10	155.5	2240.95	15:08:20	155.4	2241.01
15:08:30	155.5	2241.09	15:08:40	155.4	2241.07	15:08:50	155.4	2241.09
15:09:00	155.5	2241.16	15:09:10	155.5	2241.17	15:09:20	155.5	2241.20
15:09:30	155.5	2241.31	15:09:40	155.5	2241.36	15:09:50	155.4	2241.44
15:10:00	155.5	2241.56	15:10:10	155.5	2241.61	15:10:30	155.5	2241.78
15:11:00	155.4	2241.89	15:11:30	155.5	2242.12	15:12:00	155.4	2242.30
15:12:30	155.4	2242.49	15:13:00	155.5	2242.62	15:13:30	155.5	2242.74

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temp.	PSIA.	Time	Temp.	PSIA.	Time	Temp.	PSIA.
15:14:00	155.4	2242.82	15:14:30	155.5	2242.78	15:15:00	155.5	2242.92
15:15:30	155.4	2242.97	15:16:00	155.5	2243.02	15:16:30	155.5	2243.11
15:17:00	155.5	2243.16	15:17:30	155.5	2243.32	15:18:00	155.5	2243.37
15:18:30	155.5	2243.35	15:19:00	155.5	2243.18	15:19:30	155.5	2243.47
15:20:00	155.5	2243.32	15:20:30	155.5	2243.17	15:21:00	155.5	2243.13
15:21:30	155.5	2243.20	15:22:00	155.5	2243.12	15:22:30	155.5	2243.11
15:23:00	155.5	2243.15	15:24:00	155.5	2243.03	15:25:00	155.5	2242.95
15:26:00	155.5	2242.87	15:27:00	155.6	2243.01	15:28:00	155.5	2243.15
15:29:00	155.6	2243.36	15:30:00	155.5	2243.44	15:40:00	155.6	2244.39
15:50:00	155.6	2242.18	16:00:00	155.6	2242.85	16:10:00	155.6	2243.72
16:16:00	155.7	2244.11	16:17:00	155.6	2244.19	16:18:00	155.7	2244.28
16:19:00	155.7	2244.46	16:20:00	155.7	2244.65	16:21:00	155.7	2244.74
16:22:00	155.7	2244.79	16:23:00	155.7	2244.79	16:24:00	155.7	2244.75
16:25:00	155.7	2244.71	16:26:00	155.7	2244.75	16:27:00	155.7	2244.71
16:28:00	155.7	2244.29	16:29:00	155.7	2244.14	16:30:00	155.7	2244.22
16:31:00	155.7	2244.27	16:32:00	155.7	2244.16	16:33:00	155.7	2244.14
16:34:00	155.7	2244.38	16:35:00	155.7	2244.48	16:36:00	155.7	2244.48
16:37:00	155.7	2244.48	16:38:00	155.8	2244.45	16:39:00	155.7	2244.42
16:40:00	155.7	2244.46	16:41:00	155.8	2244.40	16:42:00	155.7	2244.67
16:43:00	155.8	2244.72	16:44:00	155.8	2244.64	16:45:00	155.8	2244.62
16:46:00	155.8	2244.62	16:47:00	155.8	2244.63	16:48:00	155.8	2244.64
16:49:00	155.8	2244.77	16:50:00	155.7	2244.85	16:51:00	155.8	2245.08
16:52:00	155.8	2245.05	16:53:00	155.8	2245.10	16:54:00	155.8	2245.22
16:55:00	155.8	2245.28	16:56:00	155.8	2245.35	16:57:00	155.8	2245.30
16:58:00	155.8	2245.35	16:59:00	155.8	2245.37	17:00:00	155.9	2245.42
17:01:00	155.8	2245.48	17:02:00	155.8	2245.44	17:03:00	155.8	2245.47
17:04:00	155.8	2245.42	17:05:00	155.8	2245.43	17:06:00	155.8	2245.54
17:07:00	155.8	2245.57	17:08:00	155.8	2245.57	17:09:00	155.9	2245.61
17:10:00	155.8	2245.62	17:11:00	155.9	2245.61	17:12:00	155.8	2245.55
17:13:00	155.9	2245.54	17:14:00	155.9	2245.54	17:15:00	155.9	2245.56
17:16:00	155.9	2245.58	17:17:00	155.9	2245.60	17:18:00	155.8	2245.65
17:19:00	155.8	2245.68	17:20:00	155.9	2245.74	17:21:00	155.9	2245.76
17:22:00	155.9	2245.76	17:23:00	155.9	2245.58	17:24:00	155.9	2245.07
17:25:00	155.9	2244.92	17:26:00	155.9	2245.01	17:27:00	155.8	2245.24
17:28:00	155.9	2245.48	17:29:00	155.9	2245.44	17:29:50	155.9	2245.37
17:30:00	155.9	2245.35	17:30:10	155.9	2245.31	17:30:20	155.9	2245.29
17:30:30	156.3	2260.47	17:30:40	157.0	2275.08	17:30:50	157.5	2284.75
17:31:00	157.7	2291.15	17:31:10	157.7	2295.24	17:31:20	157.8	2297.75
17:31:30	157.7	2299.46	17:31:40	157.7	2300.65	17:31:50	157.5	2301.45
17:32:00	157.5	2302.08	17:32:10	157.5	2302.54	17:32:20	157.4	2302.89
17:32:30	157.3	2303.16	17:32:40	157.3	2303.39	17:32:50	157.3	2303.56
17:33:00	157.3	2303.70	17:33:10	157.2	2303.80	17:33:20	157.2	2303.88
17:33:30	157.2	2303.94	17:33:40	157.2	2303.99	17:33:50	157.1	2304.04
17:34:00	157.1	2304.05	17:34:10	157.0	2304.06	17:34:20	157.1	2304.06
17:34:30	157.0	2304.06	17:34:40	157.0	2304.06	17:34:50	157.0	2304.06
17:35:00	156.9	2304.05	17:35:10	156.9	2304.05	17:35:20	157.0	2304.02
17:35:30	157.0	2304.01	17:35:40	156.9	2303.99	17:35:50	156.9	2303.98
17:36:00	156.8	2303.95	17:36:10	156.8	2303.92	17:36:20	156.8	2303.92
17:36:30	156.8	2303.90	17:36:40	156.8	2303.89	17:36:50	156.8	2303.88
17:37:00	156.8	2303.86	17:37:10	156.8	2303.85	17:37:20	156.7	2303.82
17:37:30	156.7	2303.81	17:37:40	156.7	2303.81	17:37:50	156.7	2303.79
17:38:00	156.7	2303.76	17:38:10	156.7	2303.75	17:38:20	156.6	2303.74
17:38:30	156.6	2303.74	17:38:40	156.6	2303.73	17:38:50	156.6	2303.72
17:39:00	156.6	2303.72	17:39:10	156.6	2303.70	17:39:20	156.6	2303.70
17:39:30	156.6	2303.69	17:39:40	156.6	2303.70	17:39:50	156.6	2303.68
17:40:00	156.6	2303.67	17:40:30	156.5	2303.66	17:41:00	156.5	2303.65
17:41:30	156.5	2303.66	17:42:00	156.5	2303.66	17:42:30	156.4	2303.65
17:43:00	156.4	2303.65	17:43:30	156.4	2303.65	17:44:00	156.4	2303.67
17:44:30	156.4	2303.67	17:45:00	156.3	2303.67	17:45:30	156.3	2303.66
17:46:00	156.3	2303.67	17:46:30	156.3	2303.69	17:47:00	156.3	2303.71



Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temp.	PSIA.	Time	Temp.	PSIA.	Time	Temp.	PSIA.
17:47:30	156.3	2303.71	17:48:00	156.2	2303.71	17:48:30	156.2	2303.71
17:49:00	156.2	2303.73	17:49:30	156.2	2303.76	17:50:00	156.2	2303.75
17:50:30	156.2	2303.76	17:51:00	156.2	2303.76	17:51:30	156.2	2303.77
17:52:00	156.2	2303.77	17:53:00	156.1	2303.78	17:54:00	156.2	2303.83
17:55:00	156.1	2303.82	17:56:00	156.1	2303.83	17:57:00	156.0	2303.84
17:58:00	156.1	2303.86	17:59:00	156.1	2303.87	18:00:00	156.0	2303.86
18:01:00	156.0	2303.88	18:02:00	156.0	2303.90	18:03:00	156.0	2303.89
18:04:00	156.0	2303.90	18:05:00	156.0	2303.93	18:06:00	156.0	2303.93
18:07:00	156.0	2303.91	18:08:00	155.9	2303.93	18:09:00	155.9	2303.94
18:10:00	156.0	2303.95	18:11:00	156.0	2303.95	18:12:00	155.9	2303.95
18:13:00	156.0	2303.97	18:14:00	155.9	2303.97	18:15:00	155.9	2303.97
18:16:00	155.9	2303.97	18:17:00	155.9	2303.97	18:18:00	155.9	2303.97
18:19:00	155.9	2303.97	18:20:00	155.9	2303.99	18:21:00	155.9	2303.99
18:22:00	155.9	2303.99	18:23:00	155.8	2303.97	18:24:00	155.8	2303.99
18:25:00	155.9	2304.01	18:26:00	155.8	2303.99	18:27:00	155.9	2304.01
18:28:00	155.8	2304.00	18:29:00	155.8	2303.99	18:30:00	155.8	2304.01
18:31:00	155.8	2304.01	18:32:00	155.7	2304.03	18:33:00	155.7	2304.03
18:40:00	155.7	2304.04	18:50:00	155.8	2304.05	19:00:00	155.7	2304.07
19:10:00	155.7	2304.09	19:20:00	155.6	2304.12	19:30:00	155.6	2304.12
19:40:00	155.6	2304.13	19:50:00	155.5	2304.12	20:00:00	155.5	2304.14
20:10:00	155.5	2304.15	20:20:00	155.5	2304.15	20:30:00	155.5	2304.17
20:40:00	155.5	2304.17	20:50:00	155.5	2304.17	21:00:00	155.5	2304.18
21:10:00	155.4	2304.17	21:20:00	155.4	2304.19	21:30:00	155.5	2304.20
21:40:00	155.4	2304.19	21:50:00	155.4	2304.20	22:00:00	155.4	2304.21
22:10:00	155.3	2304.19	22:20:00	155.4	2304.21	22:30:00	155.3	2304.20
22:40:00	155.3	2304.20	22:50:00	155.4	2304.21	23:00:00	155.4	2304.21
23:10:00	155.4	2304.22	23:20:00	155.3	2304.21	23:30:00	155.3	2304.20
23:40:00	155.4	2304.21	23:50:00	155.3	2304.20	00:00:00	155.3	2304.21
00:10:00	155.3	2304.21	00:20:00	155.3	2304.21	00:30:00	155.3	2304.20
00:40:00	155.3	2304.21	00:50:00	155.3	2304.20	01:00:00	155.3	2304.21
01:10:00	155.4	2304.22	01:20:00	155.3	2304.20	01:30:00	155.3	2304.21
01:40:00	155.3	2304.19	01:50:00	155.3	2304.20	02:00:00	155.3	2304.21
02:10:00	155.3	2304.21	02:20:00	155.3	2304.21	02:30:00	155.3	2304.20
02:40:00	155.3	2304.20	02:50:00	155.3	2304.20	03:00:00	155.3	2304.19
03:10:00	155.3	2304.19	03:20:00	155.3	2304.19	03:30:00	155.3	2304.19
03:40:00	155.3	2304.18	03:50:00	155.3	2304.19	04:00:00	155.3	2304.18
04:10:00	155.3	2304.18	04:20:00	155.3	2304.19	04:30:00	155.3	2304.19
04:40:00	155.3	2304.19	04:50:00	155.3	2304.17	05:00:00	155.3	2304.18
05:10:00	155.3	2304.19	05:20:00	155.3	2304.19	05:30:00	155.3	2304.19
05:40:00	155.3	2304.19	05:50:00	155.4	2304.18	06:00:00	155.3	2304.19
06:10:00	155.3	2304.19	06:20:00	155.3	2304.19	06:30:00	155.3	2304.19
06:40:00	155.3	2304.19	06:50:00	155.3	2304.19	07:00:00	155.3	2304.19
07:10:00	155.3	2304.19	07:20:00	155.4	2304.20	07:30:00	155.3	2304.19
07:33:20	155.3	2304.19	07:33:30	155.3	2304.19	07:33:40	155.3	2304.18
07:40:00	155.4	2304.20	07:50:00	155.3	2304.17	08:00:00	155.4	2304.18
08:10:00	155.3	2304.18	08:20:00	155.3	2304.19	08:30:00	155.3	2304.19
08:40:00	155.3	2304.18	08:50:00	155.3	2304.19	09:00:00	155.4	2304.19
09:10:00	155.3	2304.18	09:20:00	155.3	2304.19	09:30:00	155.4	2304.20
09:40:00	155.4	2304.19	09:50:00	155.4	2304.20	10:00:00	155.4	2304.20
10:10:00	155.3	2304.19	10:20:00	155.3	2304.18	10:30:00	155.3	2304.19
10:40:00	155.4	2304.20	10:50:00	155.4	2304.20	11:00:00	155.4	2304.20
11:10:00	155.4	2304.19	11:20:00	155.4	2304.20	11:30:00	155.3	2304.19
11:40:00	155.4	2304.18	11:50:00	155.4	2304.18	12:00:00	155.3	2304.17
12:10:00	155.4	2304.18	12:20:00	155.3	2304.17	12:29:20	155.3	2304.17
12:29:30	155.4	2304.19	12:29:40	155.4	2304.19	12:29:50	155.3	2304.18
12:30:00	155.4	2304.19	12:30:10	155.4	2304.18	12:30:20	155.3	2302.04
12:30:30	155.0	2290.70	12:30:40	154.4	2273.35	12:30:50	153.6	2257.86
12:31:00	153.3	2245.49	12:31:10	153.8	2234.31	12:31:20	154.3	2223.85
12:31:30	154.6	2215.75	12:31:40	154.7	2209.90	12:31:50	154.8	2205.58
12:32:00	154.8	2202.33	12:32:10	154.8	2199.85	12:32:20	154.8	2197.85

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 19/03/81

Tool Positioned at a depth of: 1660

Time	Temp.	PSIA.	Time	Temp.	PSIA.	Time	Temp.	PSIA.
12:32:30	154.7	2196.33	12:32:40	154.6	2194.98	12:32:50	154.6	2194.04
12:33:00	154.5	2193.34	12:33:10	154.5	2192.90	12:33:20	154.5	2192.71
12:33:30	154.5	2192.64	12:33:40	154.4	2192.62	12:33:50	154.4	2192.71
12:34:00	154.4	2192.81	12:34:10	154.4	2192.96	12:34:20	154.3	2193.06
12:34:30	154.3	2193.21	12:34:40	154.3	2193.34	12:34:50	154.3	2193.57
12:35:00	154.3	2193.65	12:35:10	154.3	2193.82	12:35:20	154.3	2193.96
12:35:30	154.2	2194.15	12:35:40	154.2	2194.30	12:35:50	154.2	2194.41
12:36:00	154.2	2194.50	12:36:10	154.2	2194.61	12:36:20	154.2	2194.64
12:36:30	154.2	2194.68	12:36:40	154.2	2194.65	12:36:50	154.2	2194.58
12:37:00	154.2	2194.57	12:37:10	154.1	2194.53	12:37:20	154.2	2194.49
12:37:30	154.1	2194.44	12:37:40	154.2	2194.43	12:37:50	154.2	2194.42
12:38:00	154.2	2194.41	12:38:10	154.2	2194.50	12:38:20	154.2	2194.49
12:38:30	154.2	2194.49	12:38:40	154.1	2194.52	12:38:50	154.1	2194.55
12:39:00	154.1	2194.61	12:39:10	154.1	2194.67	12:39:20	154.1	2194.67
12:39:30	154.1	2194.75	12:39:40	154.1	2194.82	12:39:50	154.1	2194.91
12:40:00	154.1	2195.01	12:40:30	154.2	2195.30	12:41:00	154.2	2195.65
12:41:30	154.2	2195.98	12:42:00	154.2	2196.14	12:42:30	154.1	2196.16
12:43:00	154.1	2196.23	12:43:30	154.1	2196.25	12:44:00	154.2	2196.27
12:44:30	154.1	2196.30	12:45:00	154.2	2196.38	12:45:30	154.2	2196.14
12:46:00	154.2	2196.09	12:46:30	154.1	2196.09	12:47:00	154.2	2196.14
12:47:30	154.2	2196.14	12:48:00	154.2	2196.06	12:48:30	154.1	2195.71
12:49:00	154.2	2195.29	12:49:30	154.2	2194.89	12:50:00	154.1	2194.62
12:51:00	154.1	2194.25	12:52:00	154.1	2194.04	12:53:00	154.1	2193.85
12:54:00	154.1	2193.66	12:55:00	154.1	2193.51	12:56:00	154.1	2193.43
12:57:00	154.1	2193.34	12:58:00	154.1	2193.23	12:59:00	154.1	2193.17
13:00:00	154.1	2193.19	13:01:00	154.1	2193.14	13:02:00	154.1	2193.08
13:03:00	154.1	2193.06	13:04:00	154.1	2192.99	13:05:00	154.1	2192.93
13:06:00	154.1	2192.83	13:07:00	154.1	2192.79	13:08:00	154.1	2192.78
13:09:00	154.2	2192.46	13:10:00	154.1	2192.46	13:11:00	154.1	2192.31
13:12:00	154.1	2192.17	13:13:00	154.1	2192.11	13:14:00	154.2	2192.03
13:15:00	154.1	2192.05	13:16:00	154.1	2192.09	13:17:00	154.1	2192.11
13:18:00	154.1	2192.15	13:19:00	154.1	2192.18	13:20:00	154.2	2192.17
13:21:00	154.2	2192.29	13:22:00	154.1	2192.29	13:23:00	154.2	2192.29
13:24:00	154.1	2192.36	13:25:00	154.2	2192.37	13:26:00	154.2	2192.40
13:27:00	154.2	2192.48	13:28:00	154.1	2192.52	13:29:00	154.2	2192.56
13:30:00	154.2	2192.65	13:31:00	154.2	2192.68	13:32:00	154.2	2192.79
13:33:00	154.2	2192.80	13:34:00	154.2	2192.84	13:35:00	154.2	2192.89
13:36:00	154.2	2192.89	13:37:00	154.2	2192.89	13:38:00	154.3	2192.95
13:39:00	154.2	2192.97	13:40:00	154.3	2193.02	13:41:00	154.2	2193.03
13:42:00	154.2	2193.06	13:43:00	154.2	2193.06	13:44:00	154.2	2193.10
13:45:00	154.2	2193.17	13:46:00	154.3	2193.14	13:47:00	154.2	2193.15
13:48:00	154.3	2193.20	13:49:00	154.2	2193.22	13:50:00	154.3	2193.33
13:51:00	154.3	2193.27	13:52:00	154.3	2193.28	13:53:00	154.3	2193.21
13:54:00	154.2	2192.93	13:55:00	154.3	2193.13	13:56:00	154.3	2193.19
13:57:00	154.3	2193.26	13:58:00	154.3	2193.25	13:59:00	154.2	2193.25
14:00:00	154.3	2193.27	14:01:00	154.3	2193.24	14:02:00	154.3	2193.23
14:03:00	154.3	2193.28	14:04:00	154.3	2193.29	14:05:00	154.3	2193.30
14:06:00	154.3	2193.32	14:07:00	154.3	2193.35	14:08:00	154.3	2193.38
14:09:00	154.3	2193.48	14:10:00	154.3	2193.46	14:11:00	154.3	2193.46
14:12:00	154.3	2193.44	14:13:00	154.3	2193.44	14:14:00	154.4	2193.43
14:15:00	154.3	2193.43	14:16:00	154.3	2193.56	14:17:00	154.4	2193.51
14:18:00	154.4	2193.48	14:19:00	154.3	2193.48	14:20:00	154.3	2193.50
14:21:00	154.4	2193.53	14:22:00	154.3	2193.52	14:23:00	154.3	2193.60
14:24:00	154.3	2193.53	14:25:00	154.3	2193.51	14:26:00	154.4	2193.51
14:27:00	154.4	2193.50	14:28:00	154.3	2193.46	14:29:00	154.4	2193.43
14:29:40	154.3	2193.58	14:29:50	154.3	2193.59	14:30:00	154.4	2193.60
14:30:10	154.4	2193.60	14:30:20	154.3	2193.67	14:30:30	154.7	2210.07
14:30:40	155.7	2234.15	14:30:50	156.3	2253.75	14:31:00	156.7	2269.62
14:31:10	156.8	2281.36	14:31:20	157.0	2289.20	14:31:30	157.0	2294.00
14:31:40	156.9	2296.73	14:31:50	156.9	2298.42	14:32:00	156.9	2299.58

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 19/03/81

Tool Positioned at a depth of: 1660

Time	Temp.	PSIA.	Time	Temp.	PSIA.	Time	Temp.	PSIA.
14:32:10	156.8	2300.45	14:32:20	156.8	2301.14	14:32:30	156.8	2301.69
14:32:40	156.8	2302.11	14:32:50	156.7	2302.44	14:33:00	156.7	2302.70
14:33:10	156.6	2302.89	14:33:20	156.6	2303.06	14:33:30	156.6	2303.18
14:33:40	156.5	2303.28	14:33:50	156.5	2303.36	14:34:00	156.4	2303.40
14:34:10	156.5	2303.46	14:34:20	156.4	2303.49	14:34:30	156.3	2303.50
14:34:40	156.3	2303.50	14:34:50	156.4	2303.51	14:35:00	156.3	2303.51
14:35:10	156.3	2303.52	14:35:20	156.3	2303.52	14:35:30	156.2	2303.51
14:35:40	156.2	2303.51	14:35:50	156.2	2303.50	14:36:00	156.2	2303.49
14:36:10	156.2	2303.49	14:36:20	156.1	2303.47	14:36:30	156.2	2303.48
14:36:40	156.1	2303.46	14:36:50	156.1	2303.45	14:37:00	156.2	2303.45
14:37:10	156.1	2303.42	14:37:20	156.1	2303.41	14:37:30	156.1	2303.41
14:37:40	156.1	2303.39	14:37:50	156.0	2303.39	14:38:00	156.0	2303.37
14:38:10	156.0	2303.37	14:38:20	156.0	2303.37	14:38:30	156.0	2303.35
14:38:40	156.0	2303.34	14:38:50	156.0	2303.34	14:39:00	156.0	2303.33
14:39:10	156.0	2303.33	14:39:20	155.9	2303.33	14:39:30	155.9	2303.31
14:39:40	156.0	2303.31	14:39:50	155.9	2303.31	14:40:00	155.9	2303.30
14:40:10	155.9	2303.29	14:40:30	155.9	2303.29	14:41:00	155.9	2303.29
14:41:30	155.8	2303.26	14:42:00	155.9	2303.28	14:42:30	155.8	2303.25
14:43:00	155.8	2303.27	14:43:30	155.8	2303.26	14:44:00	155.8	2303.27
14:44:30	155.8	2303.27	14:45:00	155.7	2303.27	14:45:30	155.7	2303.29
14:46:00	155.7	2303.29	14:46:30	155.7	2303.30	14:47:00	155.7	2303.31
14:47:30	155.6	2303.31	14:48:00	155.6	2303.31	14:48:30	155.6	2303.32
14:49:00	155.6	2303.34	14:49:30	155.6	2303.34	14:50:00	155.6	2303.36
14:50:30	155.6	2303.34	14:51:00	155.6	2303.36	14:52:00	155.7	2303.35
14:53:00	155.7	2303.37	14:54:00	155.7	2303.39	14:55:00	155.7	2303.40
14:56:00	155.6	2303.43	14:57:00	155.6	2303.44	14:58:00	155.6	2303.46
14:59:00	155.6	2303.46	15:00:00	155.6	2303.48	15:01:00	155.6	2303.48
15:02:00	155.6	2303.50	15:03:00	155.6	2303.50	15:04:00	155.5	2303.49
15:05:00	155.6	2303.52	15:06:00	155.6	2303.52	15:07:00	155.6	2303.53
15:08:00	155.6	2303.53	15:09:00	155.5	2303.53	15:10:00	155.5	2303.55
15:11:00	155.5	2303.55	15:12:00	155.5	2303.56	15:13:00	155.5	2303.56
15:14:00	155.5	2303.57	15:15:00	155.5	2303.57	15:16:00	155.5	2303.57
15:17:00	155.5	2303.59	15:18:00	155.5	2303.59	15:19:00	155.5	2303.59
15:20:00	155.5	2303.59	15:21:00	155.4	2303.59	15:22:00	155.4	2303.59
15:23:00	155.5	2303.61	15:24:00	155.5	2303.61	15:25:00	155.5	2303.61
15:26:00	155.4	2303.61	15:27:00	155.4	2303.61	15:28:00	155.5	2303.63
15:29:00	155.4	2303.61	15:30:00	155.4	2303.61	15:31:00	155.4	2303.62
15:32:00	155.4	2303.62	15:33:00	155.4	2303.63	15:34:00	155.4	2303.63
15:35:00	155.4	2303.62	15:36:00	155.5	2303.65	15:37:00	155.4	2303.63
15:38:00	155.4	2303.63	15:39:00	155.4	2303.65	15:40:00	155.5	2303.67
15:41:00	155.4	2303.64	15:42:00	155.5	2303.65	15:43:00	155.4	2303.65
15:44:00	155.4	2303.65	15:45:00	155.4	2303.65	15:46:00	155.4	2303.65
15:47:00	155.4	2303.66	15:48:00	155.4	2303.67	15:49:00	155.4	2303.66
15:50:00	155.4	2303.66	15:51:00	155.4	2303.67	15:52:00	155.4	2303.67
15:53:00	155.4	2303.65	15:54:00	155.4	2303.67	15:55:00	155.4	2303.67
15:56:00	155.4	2303.67	15:57:00	155.4	2303.67	15:58:00	155.4	2303.68
15:59:00	155.4	2303.68	16:00:00	155.4	2303.67	16:01:00	155.3	2303.67
16:02:00	155.4	2303.68	16:03:00	155.4	2303.68	16:04:00	155.4	2303.68
16:05:00	155.4	2303.68	16:06:00	155.4	2303.69	16:07:00	155.4	2303.69
16:08:00	155.4	2303.70	16:09:00	155.4	2303.70	16:10:00	155.3	2303.71
16:11:00	155.4	2303.71	16:12:00	155.4	2303.71	16:13:00	155.4	2303.71
16:14:00	155.4	2303.71	16:15:00	155.4	2303.71	16:16:00	155.3	2303.71
16:17:00	155.4	2303.71	16:18:00	155.4	2303.73	16:19:00	155.3	2303.71
16:20:00	155.4	2303.73	16:21:00	155.4	2303.73	16:22:00	155.3	2303.73
16:23:00	155.4	2303.72	16:24:00	155.4	2303.73	16:25:00	155.4	2303.73
16:26:00	155.3	2303.73	16:27:00	155.3	2303.73	16:28:00	155.3	2303.73
16:29:00	155.4	2303.75	16:30:00	155.3	2303.75	16:31:00	155.4	2303.75
16:32:00	155.4	2303.75	16:33:00	155.3	2303.74	16:34:00	155.3	2303.75
16:35:00	155.3	2303.75	16:52:00	146.8	2256.55	16:53:00	146.8	2256.51
16:54:00	146.8	2256.62	16:55:00	146.7	2256.69	16:56:00	146.7	2256.77

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 19/03/81

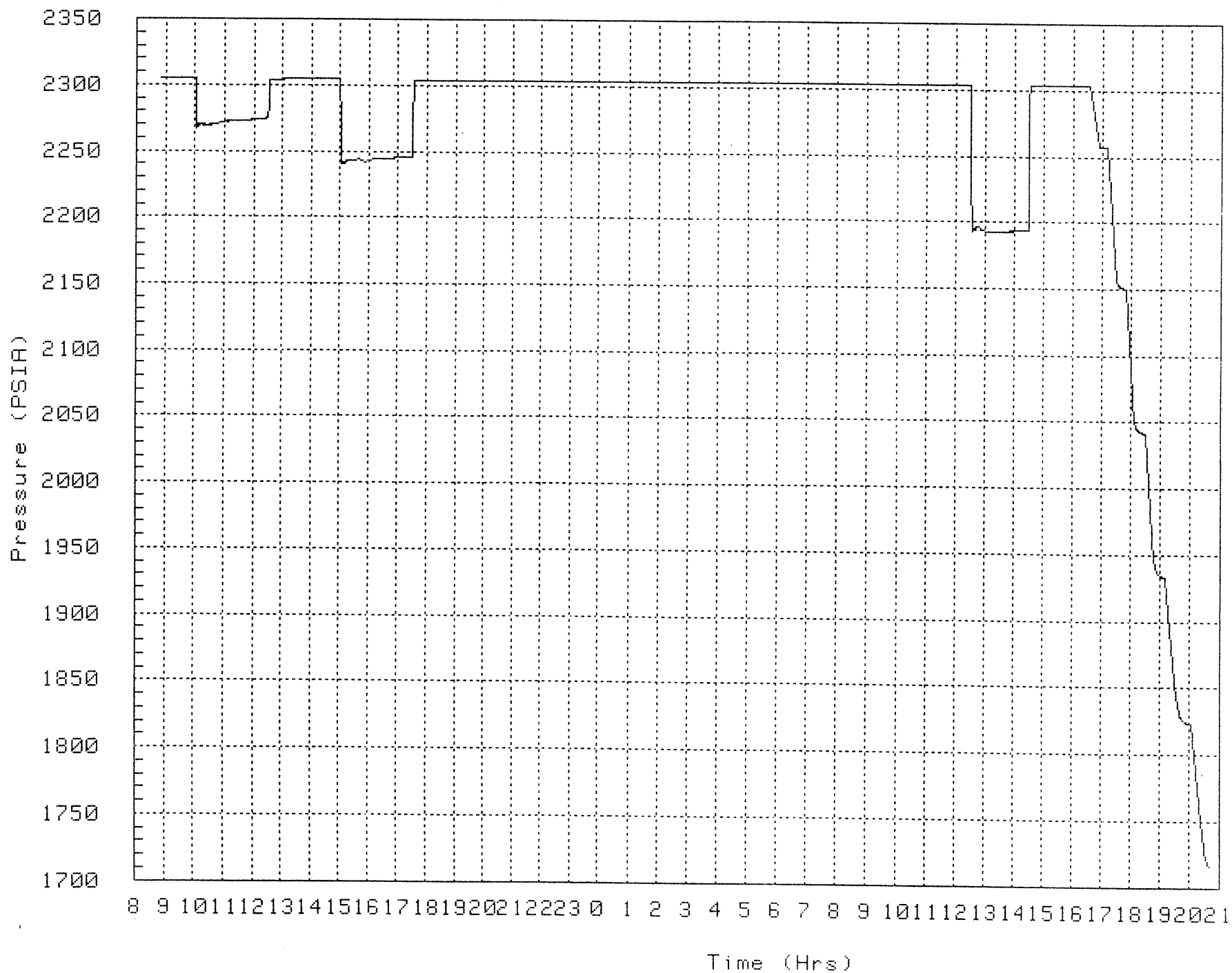
Tool Positioned at a depth of: 1660

Time	Temp.	PSIA.	Time	Temp.	PSIA.	Time	Temp.	PSIA.
16:57:00	146.6	2256.85	16:58:00	146.7	2256.91	16:59:00	146.7	2256.94
17:00:00	146.6	2256.96	17:01:00	146.5	2256.97	17:02:00	146.6	2256.99
17:03:00	146.6	2257.01	17:04:00	146.5	2257.01	17:05:00	146.5	2257.02
17:06:00	146.6	2257.04	17:07:00	146.5	2257.03	17:08:00	146.5	2257.05
17:09:00	146.5	2257.05	17:10:00	146.5	2257.06	17:30:00	130.0	2155.85
17:31:00	130.0	2154.73	17:32:00	129.9	2154.82	17:33:00	129.9	2153.40
17:34:00	130.0	2152.88	17:35:00	129.9	2152.44	17:36:00	129.9	2152.06
17:37:00	129.8	2151.73	17:38:00	129.9	2151.43	17:39:00	129.8	2151.18
17:40:00	129.8	2150.99	17:41:00	129.8	2150.82	17:42:00	129.8	2150.68
17:43:00	129.7	2150.56	17:44:00	129.7	2150.46	17:45:00	129.7	2150.39
17:46:00	129.7	2150.32	17:47:00	129.7	2150.25	17:48:00	129.7	2150.21
17:49:00	129.7	2150.17	17:50:00	129.6	2150.12	18:08:00	118.1	2048.97
18:09:00	118.0	2047.73	18:10:00	118.0	2046.77	18:11:00	118.0	2045.99
18:12:00	117.9	2045.30	18:13:00	117.9	2044.74	18:14:00	117.9	2044.25
18:15:00	117.9	2043.84	18:16:00	117.9	2043.52	18:17:00	117.8	2043.22
18:18:00	117.9	2042.99	18:19:00	117.8	2042.80	18:20:00	117.8	2042.62
18:21:00	117.8	2042.48	18:22:00	117.8	2042.35	18:23:00	117.7	2042.24
18:24:00	117.7	2042.15	18:25:00	117.8	2042.07	18:26:00	117.7	2041.99
18:27:00	117.7	2041.94	18:28:00	117.7	2041.88	18:29:00	117.7	2041.86
18:30:00	117.7	2041.81	18:48:00	104.5	1944.71	18:49:00	104.5	1942.91
18:50:00	104.4	1941.37	18:51:00	104.4	1940.09	18:52:00	104.4	1939.00
18:53:00	104.4	1938.07	18:54:00	104.4	1937.26	18:55:00	104.4	1936.60
18:56:00	104.3	1936.03	18:57:00	104.3	1935.54	18:58:00	104.3	1935.13
18:59:00	104.3	1934.78	19:00:00	104.3	1934.48	19:01:00	104.2	1934.24
19:02:00	104.2	1934.01	19:03:00	104.2	1933.82	19:04:00	104.2	1933.66
19:05:00	104.2	1933.51	19:06:00	104.2	1933.40	19:07:00	104.2	1933.29
19:08:00	104.1	1933.20	19:09:00	104.1	1933.13	19:10:00	104.1	1933.05
19:11:00	104.1	1932.99	19:35:00	89.5	1841.26	19:36:00	89.4	1838.70
19:37:00	89.4	1836.43	19:38:00	89.4	1834.46	19:39:00	89.4	1832.77
19:40:00	89.3	1831.33	19:41:00	89.3	1830.10	19:42:00	89.2	1829.06
19:43:00	89.2	1828.17	19:44:00	89.2	1827.42	19:45:00	89.2	1826.78
19:46:00	89.1	1826.25	19:47:00	89.1	1825.80	19:48:00	89.1	1825.42
19:49:00	89.1	1825.10	19:50:00	89.1	1824.83	19:51:00	89.1	1824.58
19:52:00	89.1	1824.39	19:53:00	89.1	1824.20	19:54:00	89.1	1824.06
19:55:00	89.1	1823.93	19:56:00	89.0	1823.83	19:57:00	89.0	1823.73
19:58:00	89.0	1823.63	19:59:00	89.0	1823.56	20:00:00	89.0	1823.51
20:01:00	89.0	1823.45	20:02:00	89.0	1823.40	20:03:00	89.0	1823.36
20:04:00	89.0	1823.32	20:24:00	66.2	1750.44	20:25:00	66.1	1747.63
20:26:00	65.9	1744.02	20:27:00	65.8	1740.19	20:28:00	65.6	1736.55
20:29:00	65.5	1733.25	20:30:00	65.4	1730.35	20:31:00	65.2	1727.86
20:32:00	65.1	1725.67	20:33:00	64.9	1723.83	20:34:00	64.8	1722.29
20:35:00	64.6	1720.90	20:36:00	64.6	1719.68	20:37:00	64.5	1718.59
20:38:00	64.4	1717.66	20:39:00	64.3	1716.84	20:40:00	64.2	1716.14

GO INTERNATIONAL AUSTRALIA - LINEAR PRESSURE PLOT

BEACH PETROLEUM GRUMBY #1

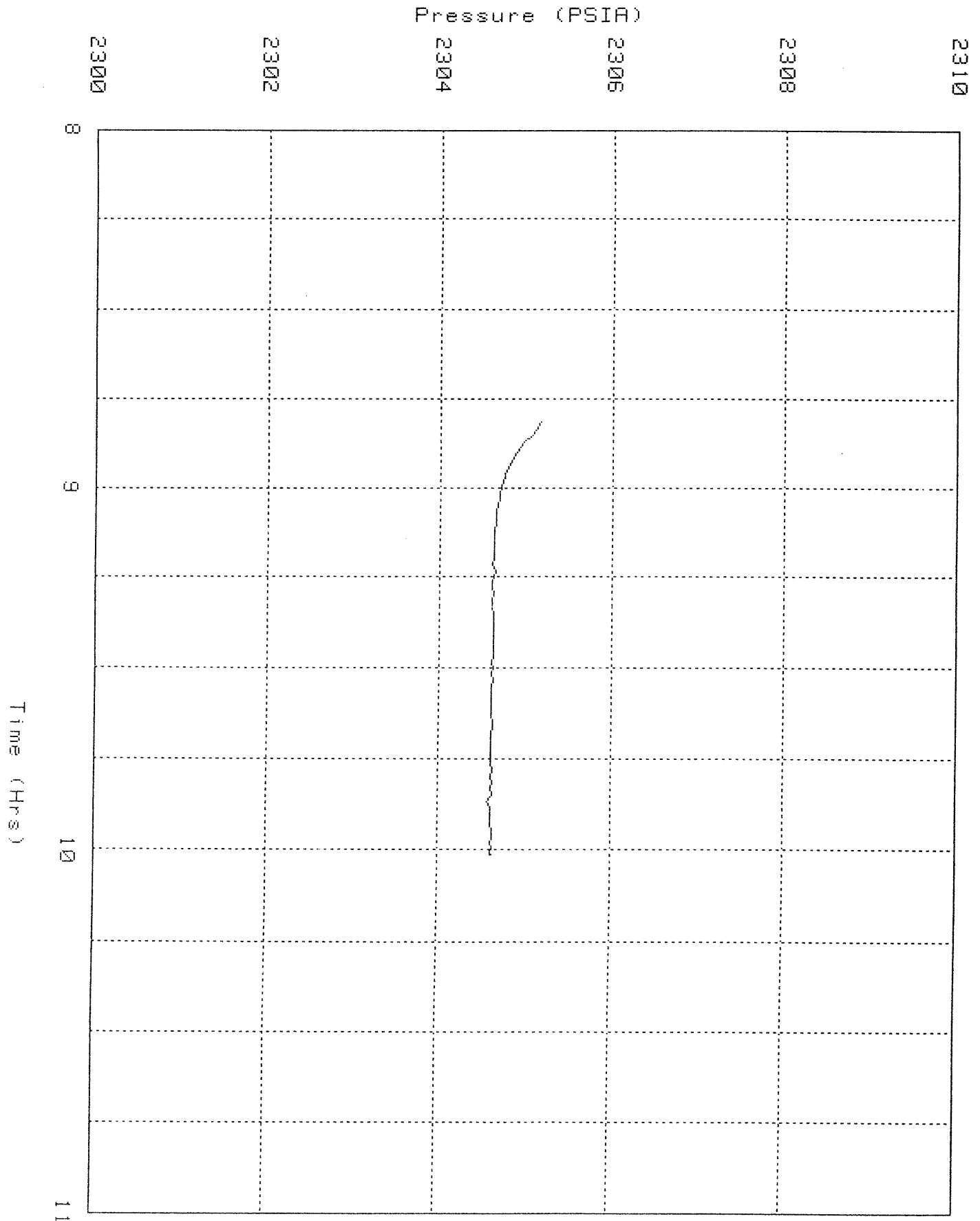
Plotted from: 08:49:00 to 20:40:00 (~ 36 hrs.)



GO INTERNATIONAL AUSTRALIA - LINEAR PRESSURE PLOT

BEACH PETROLEUM - GRUMBY #1

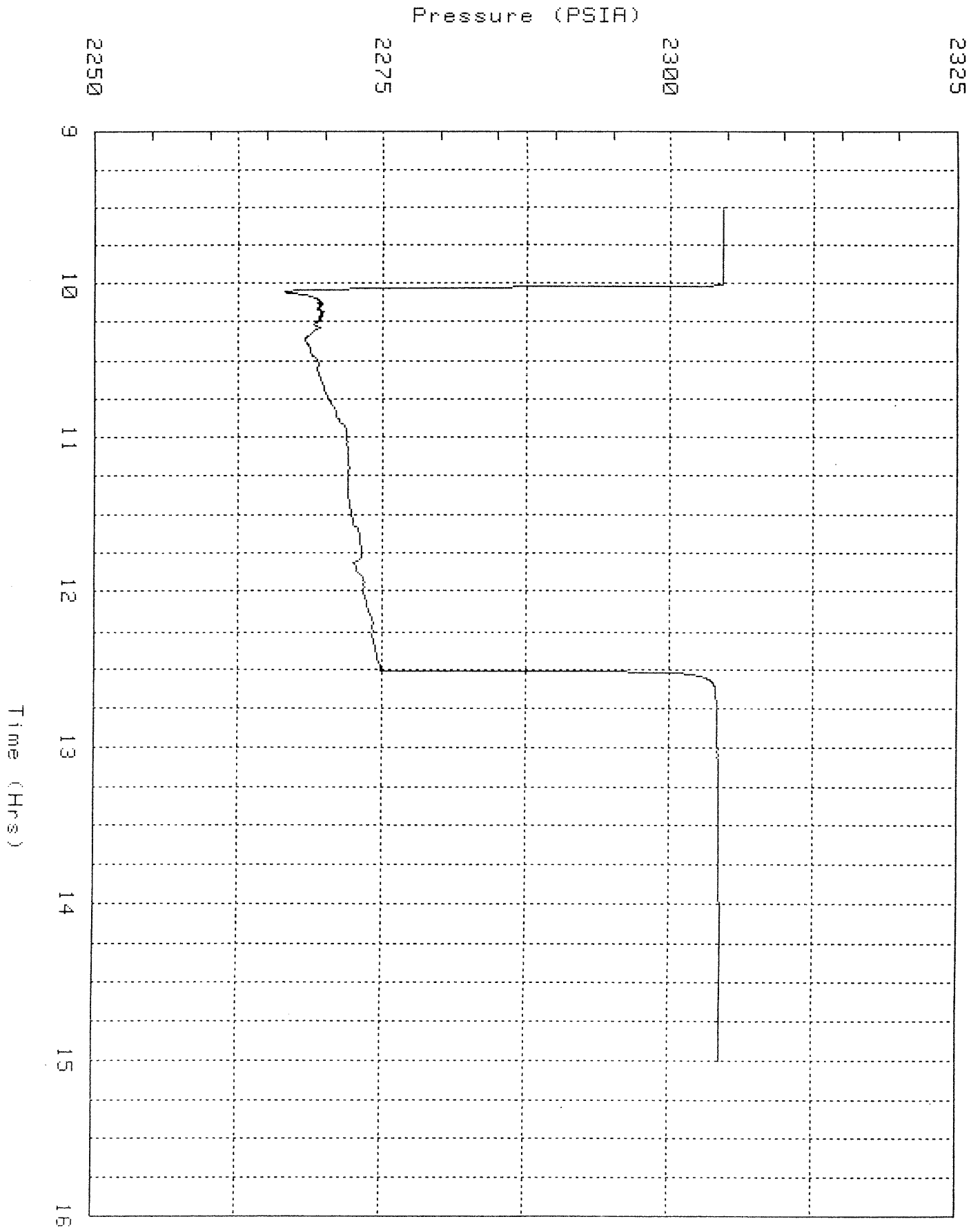
Plotted from: 08:49:00 to 10:00:50 (~ 1 hrs.)



GO INTERNATIONAL AUSTRALIA - LINEAR PRESSURE PLOT

BEACH PETROLEUM . GRUMBY #1

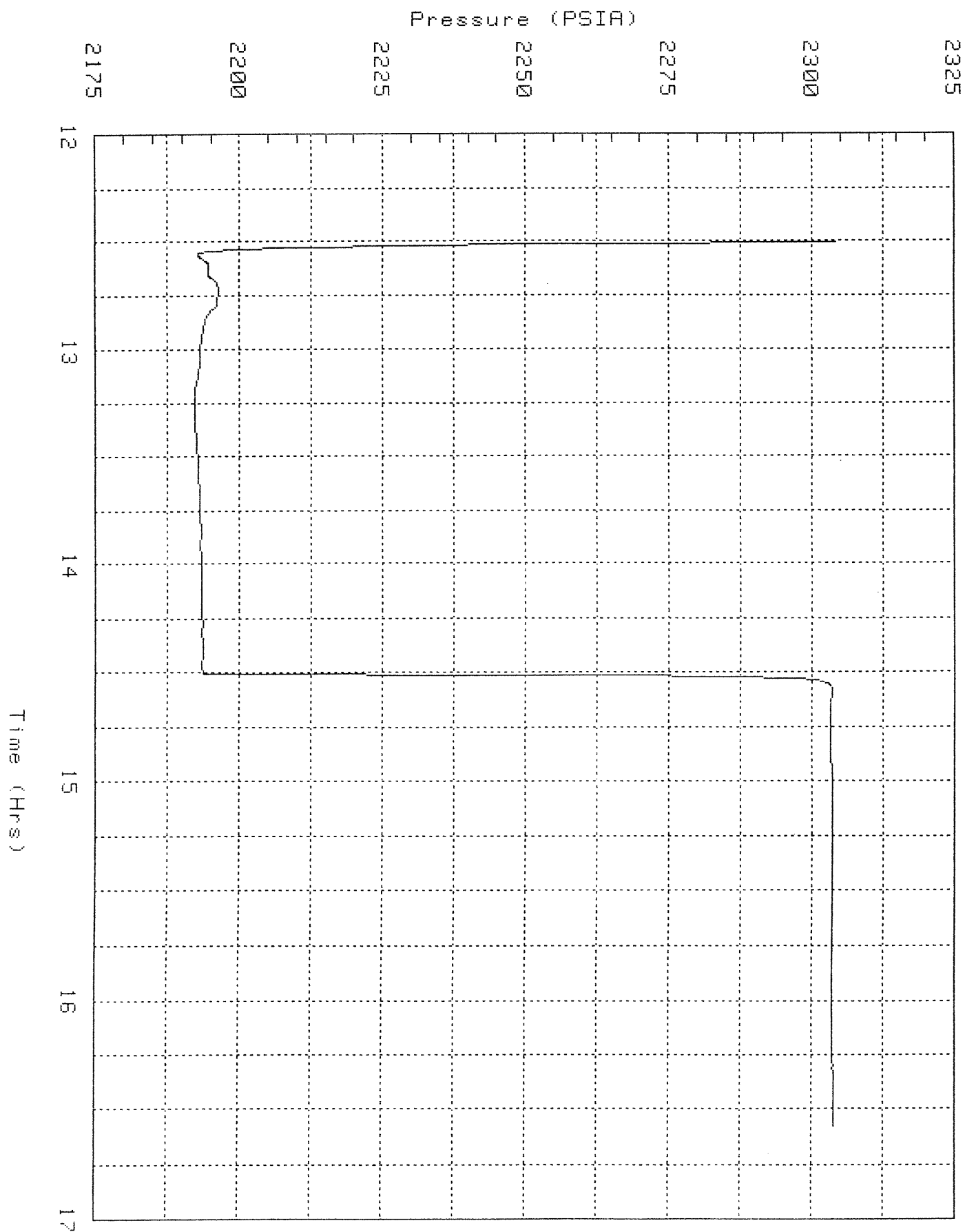
Plotted from: 09:30:00 to 15:00:10 (~ 6 hrs.)



GO INTERNATIONAL AUSTRALIA - LINEAR PRESSURE PLOT

BEACH PETROLEUM . GRUMBY #1

Plotted from: 12:30:10 to 16:35:00 (~ 4 hrs.)

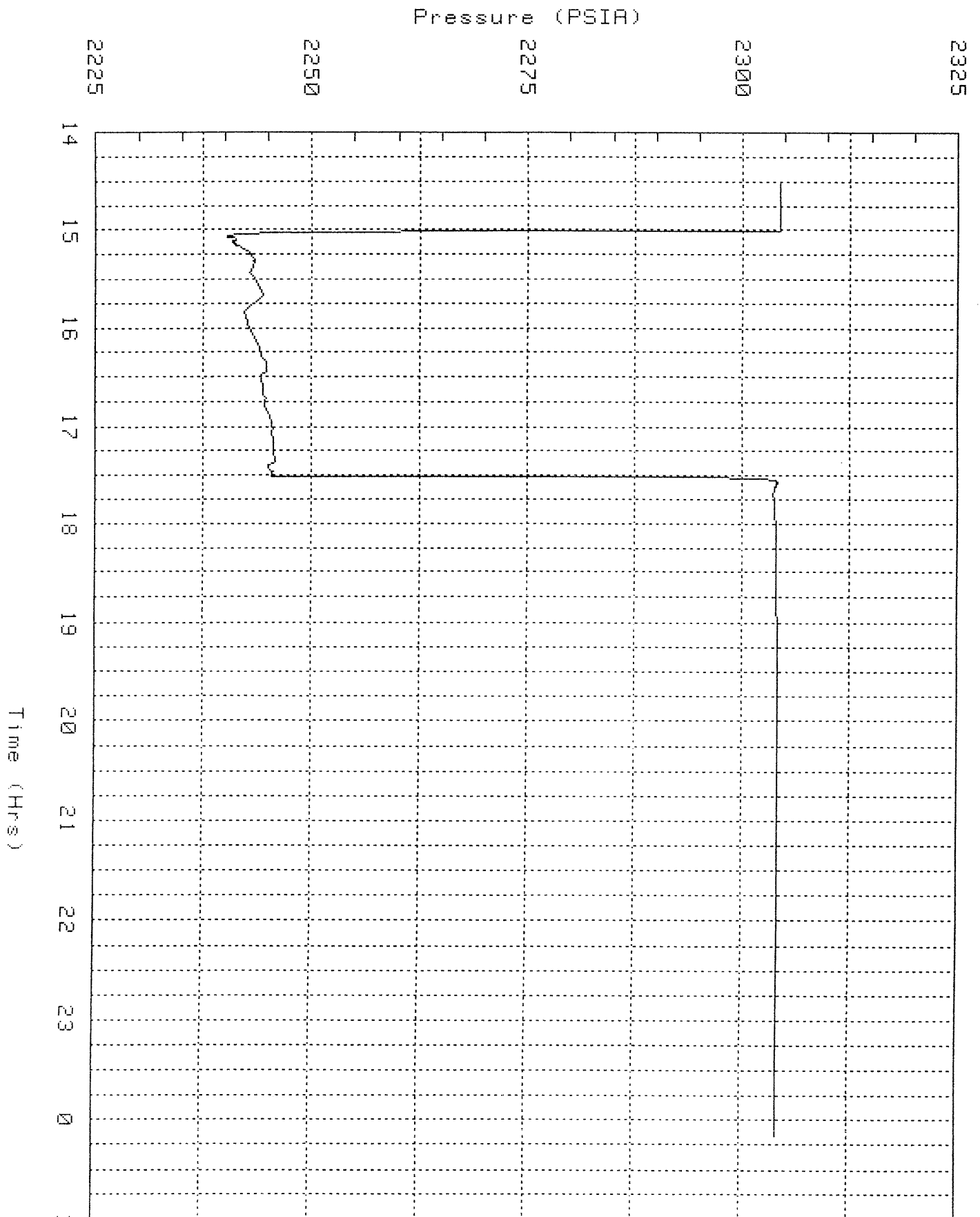




GO INTERNATIONAL AUSTRALIA - LINEAR PRESSURE PLOT

BEACH PETROLEUM . GRUMBY #1

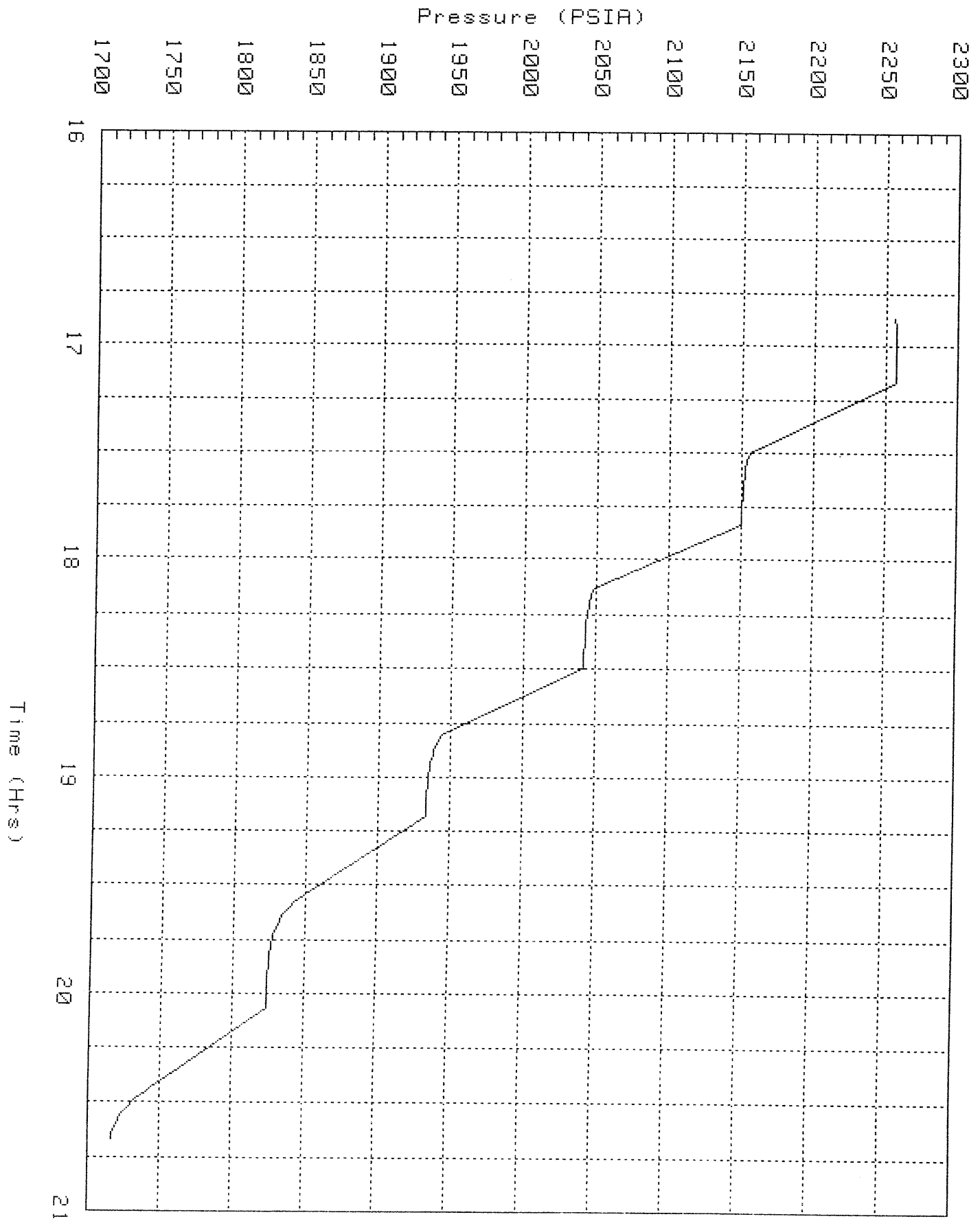
Plotted from: 14:30:00 to 00:10:00 (~ 10 hrs.)



GO INTERNATIONAL AUSTRALIA - LINEAR PRESSURE PLOT

BEACH PETROLEUM . GRUMBY #1

Plotted from: 16:52:00 to 20:40:00 (~ 4 hrs.)

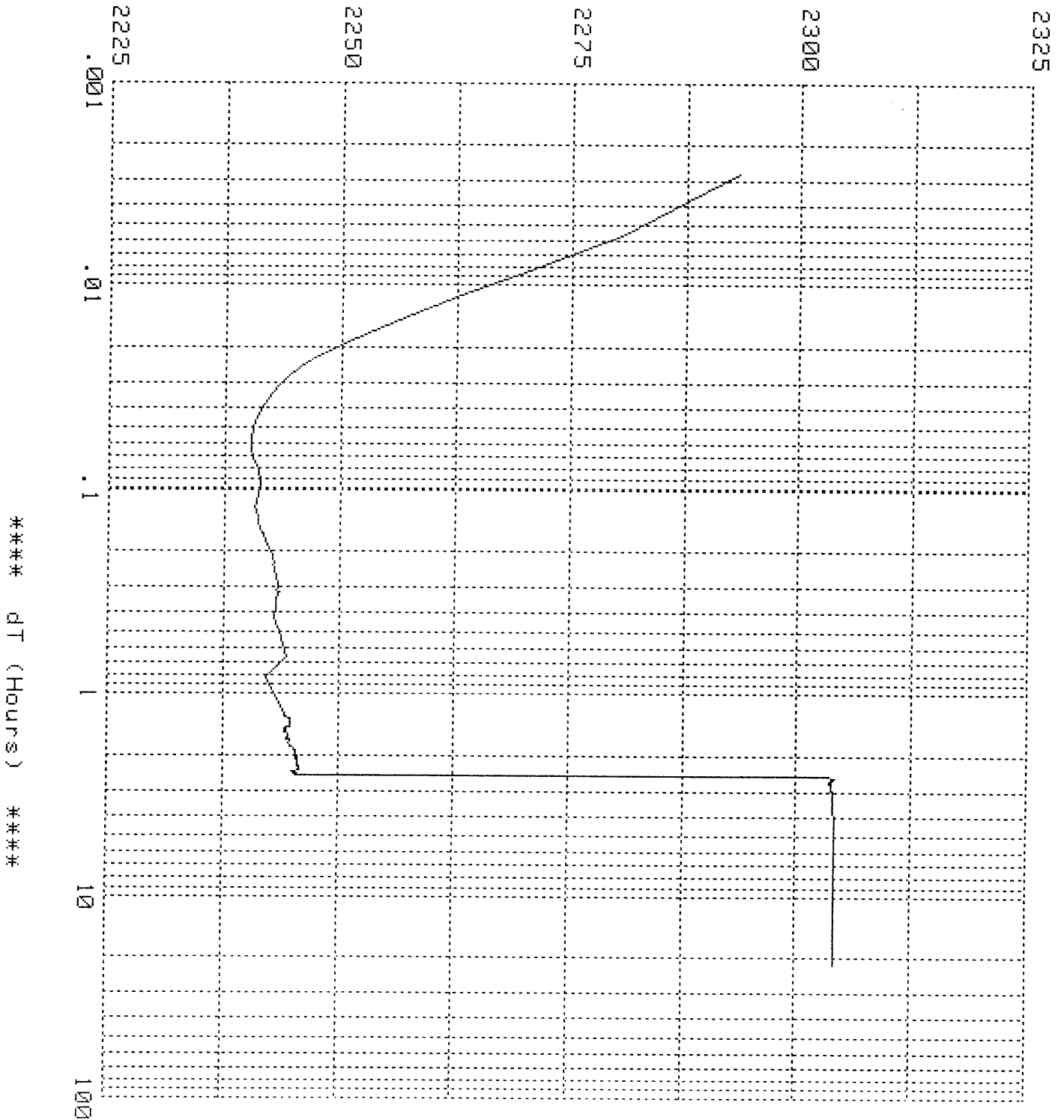


GO INTERNATIONAL AUSTRALIA  
LINEAR PRESSURE VS. LOG TIME

BEACH PETROLEUM GRUMBY #1 22/64 CHOKE

Start of plot: 15:00:20 Date: 18/03/81  
Finish of plot : 12:30:10 Date: 19/03/81

\*\*\*\*\* Pressure (PSIA) \*\*\*\*\*



GO INTERNATIONAL AUSTRALIA - HORNER PLOT

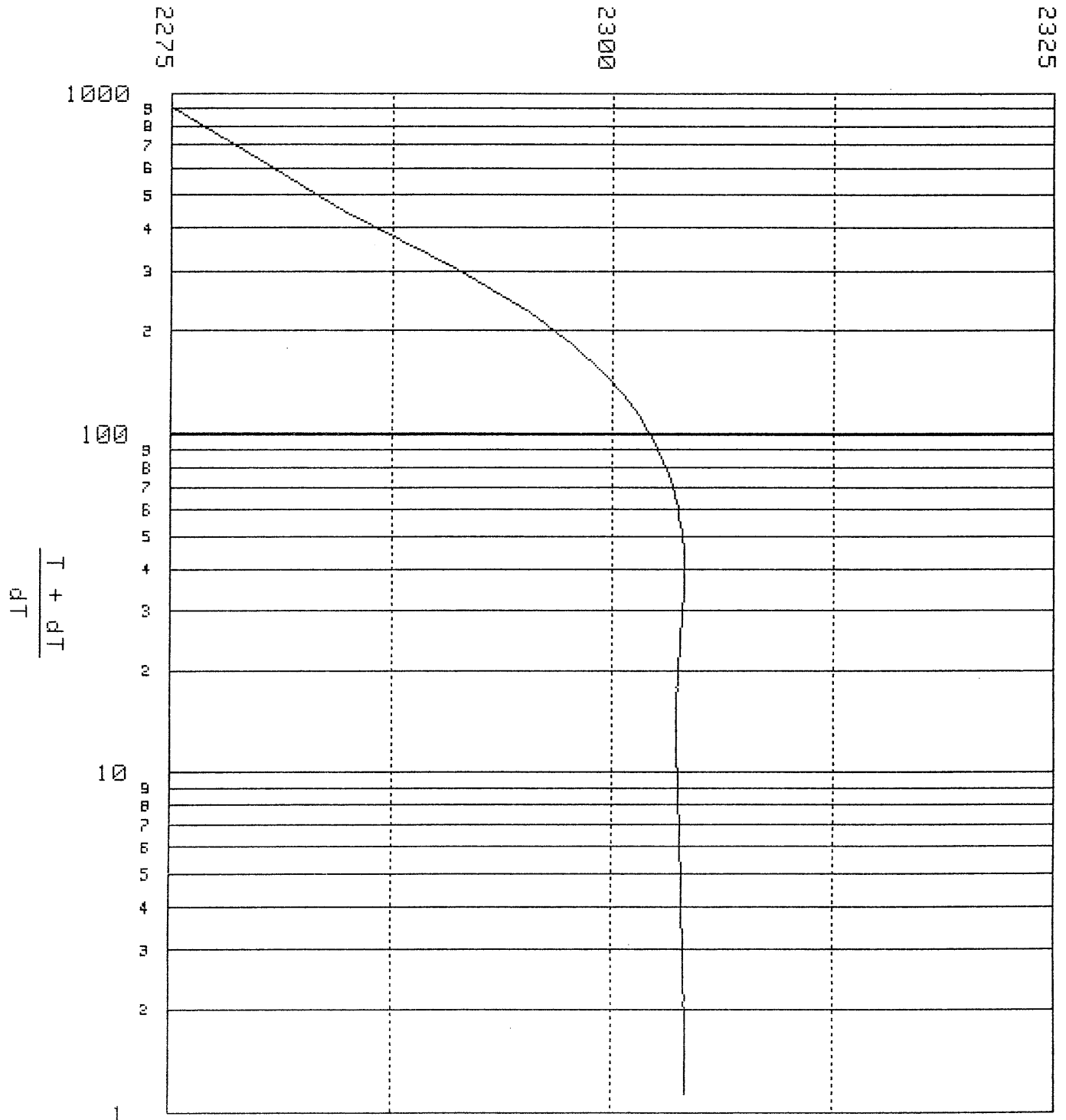
BEACH PETROLEUM GRUMBY #1 22/64 CHOKE

Time well flowed: 15:00:20 Date: 18/03/81

Time well shut in: 17:30:30 Date: 18/03/81

Time build-up completed: 12:30:10 Date: 19/03/81

Pressure (PSIA)



Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
17:30:40	157.0	2275.08	.003	14.61	902.000
17:30:50	157.5	2284.75	.006	24.28	451.500
17:31:00	157.7	2291.15	.008	30.68	301.333
17:31:10	157.7	2295.24	.011	34.77	226.250
17:31:20	157.8	2297.75	.014	37.28	181.200
17:31:30	157.7	2299.46	.017	38.99	151.167
17:31:40	157.7	2300.65	.019	40.18	129.714
17:31:50	157.5	2301.45	.022	40.98	113.625
17:32:00	157.5	2302.08	.025	41.61	101.111
17:32:10	157.5	2302.54	.028	42.07	91.100
17:32:20	157.4	2302.89	.031	42.42	82.909
17:32:30	157.3	2303.16	.033	42.69	76.083
17:32:40	157.3	2303.39	.036	42.92	70.308
17:32:50	157.3	2303.56	.039	43.09	65.357
17:33:00	157.3	2303.70	.042	43.23	61.067
17:33:10	157.2	2303.80	.044	43.33	57.313
17:33:20	157.2	2303.88	.047	43.41	54.000
17:33:30	157.2	2303.94	.050	43.47	51.056
17:33:40	157.2	2303.99	.053	43.52	48.421
17:33:50	157.1	2304.04	.056	43.57	46.050
17:34:00	157.1	2304.05	.058	43.58	43.905
17:34:10	157.0	2304.06	.061	43.59	41.955
17:34:20	157.1	2304.06	.064	43.59	40.174
17:34:30	157.0	2304.06	.067	43.59	38.542
17:34:40	157.0	2304.06	.069	43.59	37.040
17:34:50	157.0	2304.06	.072	43.59	35.654
17:35:00	156.9	2304.05	.075	43.58	34.370
17:35:10	156.9	2304.05	.078	43.58	33.179
17:35:20	157.0	2304.02	.081	43.55	32.069
17:35:30	157.0	2304.01	.083	43.54	31.033
17:35:40	156.9	2303.99	.086	43.52	30.065
17:35:50	156.9	2303.98	.089	43.51	29.156
17:36:00	156.8	2303.95	.092	43.48	28.303
17:36:10	156.8	2303.92	.094	43.45	27.500
17:36:20	156.8	2303.92	.097	43.45	26.743
17:36:30	156.8	2303.90	.100	43.43	26.028
17:36:40	156.8	2303.89	.103	43.42	25.351
17:36:50	156.8	2303.88	.106	43.41	24.711
17:37:00	156.8	2303.86	.108	43.39	24.103
17:37:10	156.8	2303.85	.111	43.38	23.525
17:37:20	156.7	2303.82	.114	43.35	22.976
17:37:30	156.7	2303.81	.117	43.34	22.452
17:37:40	156.7	2303.81	.119	43.34	21.953
17:37:50	156.7	2303.79	.122	43.32	21.477
17:38:00	156.7	2303.76	.125	43.29	21.022
17:38:10	156.7	2303.75	.128	43.28	20.587
17:38:20	156.6	2303.74	.131	43.27	20.170
17:38:30	156.6	2303.74	.133	43.27	19.771
17:38:40	156.6	2303.73	.136	43.26	19.388
17:38:50	156.6	2303.72	.139	43.25	19.020
17:39:00	156.6	2303.72	.142	43.25	18.667
17:39:10	156.6	2303.70	.144	43.23	18.327
17:39:20	156.6	2303.70	.147	43.23	18.000
17:39:30	156.6	2303.69	.150	43.22	17.685
17:39:40	156.6	2303.70	.153	43.23	17.382
17:39:50	156.6	2303.68	.156	43.21	17.089
17:40:00	156.6	2303.67	.158	43.20	16.807
17:40:30	156.5	2303.66	.167	43.19	16.017
17:41:00	156.5	2303.65	.175	43.18	15.302
17:41:30	156.5	2303.66	.183	43.19	14.652
17:42:00	156.5	2303.66	.192	43.19	14.058

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
17:42:30	156.4	2303.65	.200	43.18	13.514
17:43:00	156.4	2303.65	.208	43.18	13.013
17:43:30	156.4	2303.65	.217	43.18	12.551
17:44:00	156.4	2303.67	.225	43.20	12.123
17:44:30	156.4	2303.67	.233	43.20	11.726
17:45:00	156.3	2303.67	.242	43.20	11.356
17:45:30	156.3	2303.66	.250	43.19	11.011
17:46:00	156.3	2303.67	.258	43.20	10.688
17:46:30	156.3	2303.69	.267	43.22	10.385
17:47:00	156.3	2303.71	.275	43.24	10.101
17:47:30	156.3	2303.71	.283	43.24	9.833
17:48:00	156.2	2303.71	.292	43.24	9.581
17:48:30	156.2	2303.71	.300	43.24	9.343
17:49:00	156.2	2303.73	.308	43.26	9.117
17:49:30	156.2	2303.76	.317	43.29	8.904
17:50:00	156.2	2303.75	.325	43.28	8.701
17:50:30	156.2	2303.76	.333	43.29	8.508
17:51:00	156.2	2303.76	.342	43.29	8.325
17:51:30	156.2	2303.77	.350	43.30	8.151
17:52:00	156.2	2303.77	.358	43.30	7.984
17:53:00	156.1	2303.78	.375	43.31	7.674
17:54:00	156.2	2303.83	.392	43.36	7.390
17:55:00	156.1	2303.82	.408	43.35	7.129
17:56:00	156.1	2303.83	.425	43.36	6.889
17:57:00	156.0	2303.84	.442	43.37	6.667
17:58:00	156.1	2303.86	.458	43.39	6.461
17:59:00	156.1	2303.87	.475	43.40	6.269
18:00:00	156.0	2303.86	.492	43.39	6.090
18:01:00	156.0	2303.88	.508	43.41	5.923
18:02:00	156.0	2303.90	.525	43.43	5.767
18:03:00	156.0	2303.89	.542	43.42	5.621
18:04:00	156.0	2303.90	.558	43.43	5.483
18:05:00	156.0	2303.93	.575	43.46	5.353
18:06:00	156.0	2303.93	.592	43.46	5.230
18:07:00	156.0	2303.91	.608	43.44	5.114
18:08:00	155.9	2303.93	.625	43.46	5.004
18:09:00	155.9	2303.94	.642	43.47	4.900
18:10:00	156.0	2303.95	.658	43.48	4.802
18:11:00	156.0	2303.95	.675	43.48	4.708
18:12:00	155.9	2303.95	.692	43.48	4.618
18:13:00	156.0	2303.97	.708	43.50	4.533
18:14:00	155.9	2303.97	.725	43.50	4.452
18:15:00	155.9	2303.97	.742	43.50	4.375
18:16:00	155.9	2303.97	.758	43.50	4.300
18:17:00	155.9	2303.97	.775	43.50	4.229
18:18:00	155.9	2303.97	.792	43.50	4.161
18:19:00	155.9	2303.97	.808	43.50	4.096
18:20:00	155.9	2303.99	.825	43.52	4.034
18:21:00	155.9	2303.99	.842	43.52	3.974
18:22:00	155.9	2303.99	.858	43.52	3.916
18:23:00	155.8	2303.97	.875	43.50	3.860
18:24:00	155.8	2303.99	.892	43.52	3.807
18:25:00	155.9	2304.01	.908	43.54	3.755
18:26:00	155.8	2303.99	.925	43.52	3.706
18:27:00	155.9	2304.01	.942	43.54	3.658
18:28:00	155.8	2304.00	.958	43.53	3.612
18:29:00	155.8	2303.99	.975	43.52	3.567
18:30:00	155.8	2304.01	.992	43.54	3.524
18:31:00	155.8	2304.01	1.008	43.54	3.482
18:32:00	155.7	2304.03	1.025	43.56	3.442

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
18:33:00	155.7	2304.03	1.042	43.56	3.403
18:40:00	155.7	2304.04	1.158	43.57	3.161
18:50:00	155.8	2304.05	1.325	43.58	2.889
19:00:00	155.7	2304.07	1.492	43.60	2.678
19:10:00	155.7	2304.09	1.658	43.62	2.509
19:20:00	155.6	2304.12	1.825	43.65	2.371
19:30:00	155.6	2304.12	1.992	43.65	2.257
19:40:00	155.6	2304.13	2.158	43.66	2.160
19:50:00	155.5	2304.12	2.325	43.65	2.076
20:00:00	155.5	2304.14	2.492	43.67	2.004
20:10:00	155.5	2304.15	2.658	43.68	1.941
20:20:00	155.5	2304.15	2.825	43.68	1.886
20:30:00	155.5	2304.17	2.992	43.70	1.837
20:40:00	155.5	2304.17	3.158	43.70	1.792
20:50:00	155.5	2304.17	3.325	43.70	1.753
21:00:00	155.5	2304.18	3.492	43.71	1.717
21:10:00	155.4	2304.17	3.658	43.70	1.684
21:20:00	155.4	2304.19	3.825	43.72	1.654
21:30:00	155.5	2304.20	3.992	43.73	1.627
21:40:00	155.4	2304.19	4.158	43.72	1.602
21:50:00	155.4	2304.20	4.325	43.73	1.579
22:00:00	155.4	2304.21	4.492	43.74	1.557
22:10:00	155.3	2304.19	4.658	43.72	1.537
22:20:00	155.4	2304.21	4.825	43.74	1.519
22:30:00	155.3	2304.20	4.992	43.73	1.501
22:40:00	155.3	2304.20	5.158	43.73	1.485
22:50:00	155.4	2304.21	5.325	43.74	1.470
23:00:00	155.4	2304.21	5.492	43.74	1.456
23:10:00	155.4	2304.22	5.658	43.75	1.442
23:20:00	155.3	2304.21	5.825	43.74	1.430
23:30:00	155.3	2304.20	5.992	43.73	1.418
23:40:00	155.4	2304.21	6.158	43.74	1.406
23:50:00	155.3	2304.20	6.325	43.73	1.396
19/03/81					
00:00:00	155.3	2304.21	6.492	43.74	1.386
00:10:00	155.3	2304.21	6.658	43.74	1.376
00:20:00	155.3	2304.21	6.825	43.74	1.367
00:30:00	155.3	2304.20	6.992	43.73	1.358
00:40:00	155.3	2304.21	7.158	43.74	1.350
00:50:00	155.3	2304.20	7.325	43.73	1.342
01:00:00	155.3	2304.21	7.492	43.74	1.334
01:10:00	155.4	2304.22	7.658	43.75	1.327
01:20:00	155.3	2304.20	7.825	43.73	1.320
01:30:00	155.3	2304.21	7.992	43.74	1.313
01:40:00	155.3	2304.19	8.158	43.72	1.307
01:50:00	155.3	2304.20	8.325	43.73	1.301
02:00:00	155.3	2304.21	8.492	43.74	1.295
02:10:00	155.3	2304.21	8.658	43.74	1.289
02:20:00	155.3	2304.21	8.825	43.74	1.284
02:30:00	155.3	2304.20	8.992	43.73	1.278
02:40:00	155.3	2304.20	9.158	43.73	1.273
02:50:00	155.3	2304.20	9.325	43.73	1.268
03:00:00	155.3	2304.19	9.492	43.72	1.264
03:10:00	155.3	2304.19	9.658	43.72	1.259
03:20:00	155.3	2304.19	9.825	43.72	1.255
03:30:00	155.3	2304.19	9.992	43.72	1.250
03:40:00	155.3	2304.18	10.158	43.71	1.246
03:50:00	155.3	2304.19	10.325	43.72	1.242
04:00:00	155.3	2304.18	10.492	43.71	1.239
04:10:00	155.3	2304.18	10.658	43.71	1.235
04:20:00	155.3	2304.19	10.825	43.72	1.231

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 19/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
04:30:00	155.3	2304.19	10.992	43.72	1.228
04:40:00	155.3	2304.19	11.158	43.72	1.224
04:50:00	155.3	2304.17	11.325	43.70	1.221
05:00:00	155.3	2304.18	11.492	43.71	1.218
05:10:00	155.3	2304.19	11.658	43.72	1.215
05:20:00	155.3	2304.19	11.825	43.72	1.212
05:30:00	155.3	2304.19	11.992	43.72	1.209
05:40:00	155.3	2304.19	12.158	43.72	1.206
05:50:00	155.4	2304.18	12.325	43.71	1.203
06:00:00	155.3	2304.19	12.492	43.72	1.200
06:10:00	155.3	2304.19	12.658	43.72	1.198
06:20:00	155.3	2304.19	12.825	43.72	1.195
06:30:00	155.3	2304.19	12.992	43.72	1.193
06:40:00	155.3	2304.19	13.158	43.72	1.190
06:50:00	155.3	2304.19	13.325	43.72	1.188
07:00:00	155.3	2304.19	13.492	43.72	1.186
07:10:00	155.3	2304.19	13.658	43.72	1.183
07:20:00	155.4	2304.20	13.825	43.73	1.181
07:30:00	155.3	2304.19	13.992	43.72	1.179
07:33:20	155.3	2304.19	14.047	43.72	1.178
07:33:30	155.3	2304.19	14.050	43.72	1.178
07:33:40	155.3	2304.18	14.053	43.71	1.178
07:40:00	155.4	2304.20	14.158	43.73	1.177
07:50:00	155.3	2304.17	14.325	43.70	1.175
08:00:00	155.4	2304.18	14.492	43.71	1.173
08:10:00	155.3	2304.18	14.658	43.71	1.171
08:20:00	155.3	2304.19	14.825	43.72	1.169
08:30:00	155.3	2304.19	14.992	43.72	1.167
08:40:00	155.3	2304.18	15.158	43.71	1.165
08:50:00	155.3	2304.19	15.325	43.72	1.163
09:00:00	155.4	2304.19	15.492	43.72	1.162
09:10:00	155.3	2304.18	15.658	43.71	1.160
09:20:00	155.3	2304.19	15.825	43.72	1.158
09:30:00	155.4	2304.20	15.992	43.73	1.157
09:40:00	155.4	2304.19	16.158	43.72	1.155
09:50:00	155.4	2304.20	16.325	43.73	1.153
10:00:00	155.4	2304.20	16.492	43.73	1.152
10:10:00	155.3	2304.19	16.658	43.72	1.150
10:20:00	155.3	2304.18	16.825	43.71	1.149
10:30:00	155.3	2304.19	16.992	43.72	1.147
10:40:00	155.4	2304.20	17.158	43.73	1.146
10:50:00	155.4	2304.20	17.325	43.73	1.144
11:00:00	155.4	2304.20	17.492	43.73	1.143
11:10:00	155.4	2304.19	17.658	43.72	1.142
11:20:00	155.4	2304.20	17.825	43.73	1.140
11:30:00	155.3	2304.19	17.992	43.72	1.139
11:40:00	155.4	2304.18	18.158	43.71	1.138
11:50:00	155.4	2304.18	18.325	43.71	1.137
12:00:00	155.3	2304.17	18.492	43.70	1.135
12:10:00	155.4	2304.18	18.658	43.71	1.134
12:20:00	155.3	2304.17	18.825	43.70	1.133
12:29:20	155.3	2304.17	18.981	43.70	1.132
12:29:30	155.4	2304.19	18.983	43.72	1.132
12:29:40	155.4	2304.19	18.986	43.72	1.132
12:29:50	155.3	2304.18	18.989	43.71	1.132
12:30:00	155.4	2304.19	18.992	43.72	1.132
12:30:10	155.4	2304.18	18.994	43.71	1.132



GO INTERNATIONAL AUSTRALIA

dP/dT PLOT

BEACH PETROLEUM

GRUMBY #1

Drawdown

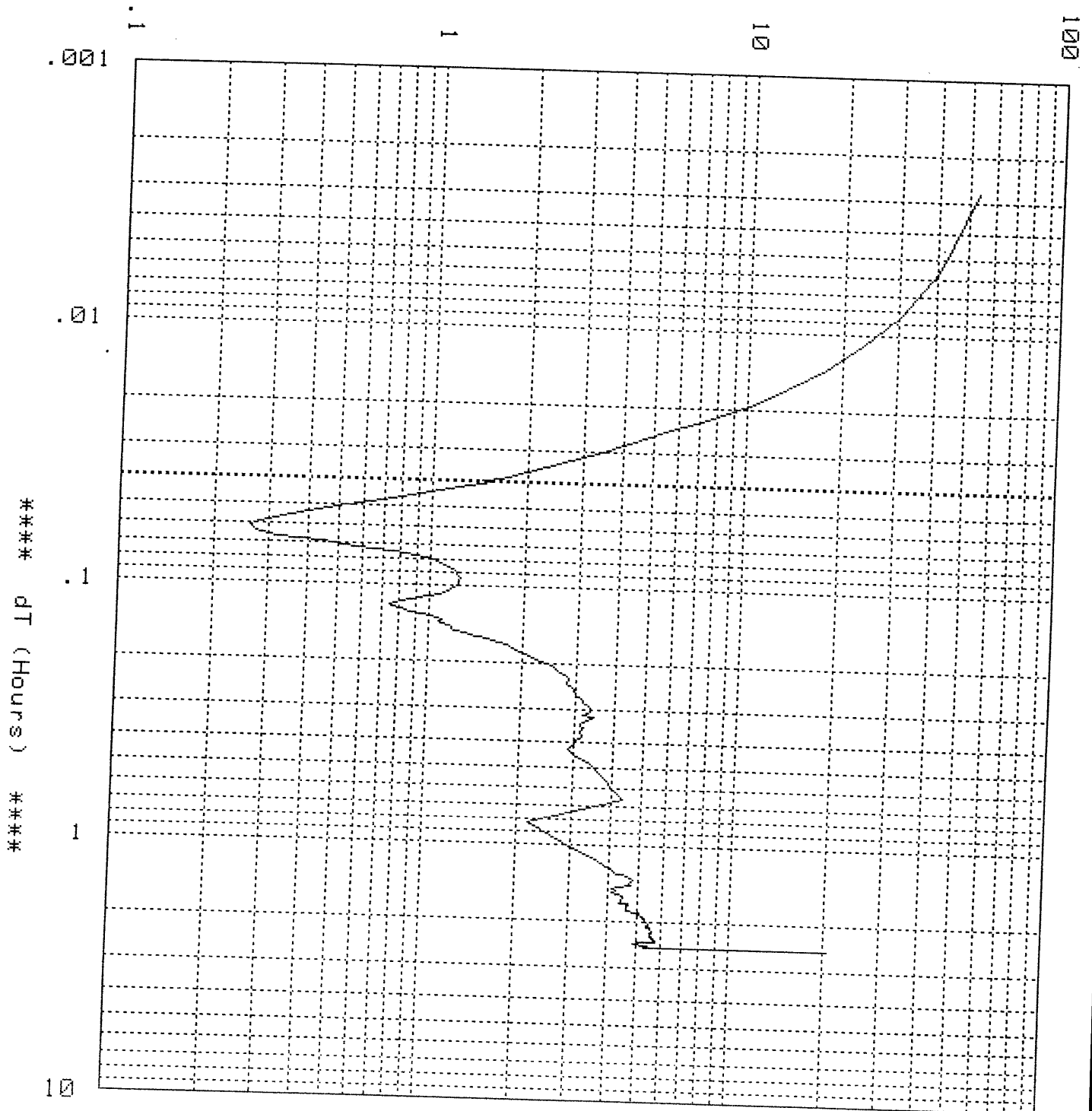
22/64 CHOKE

Time well flowed: 15:00:20 Date: 18/03/81

Time well shut in: 17:30:30 Date: 18/03/81

Time build-up completed: 12:30:10 Date: 19/03/81

\*\*\*\*\* dP (PSIA) \*\*\*\*\*



GO INTERNATIONAL AUSTRALIA

dP/dT PLOT

Build-up

BEACH PETROLEUM

GRUMBY #1

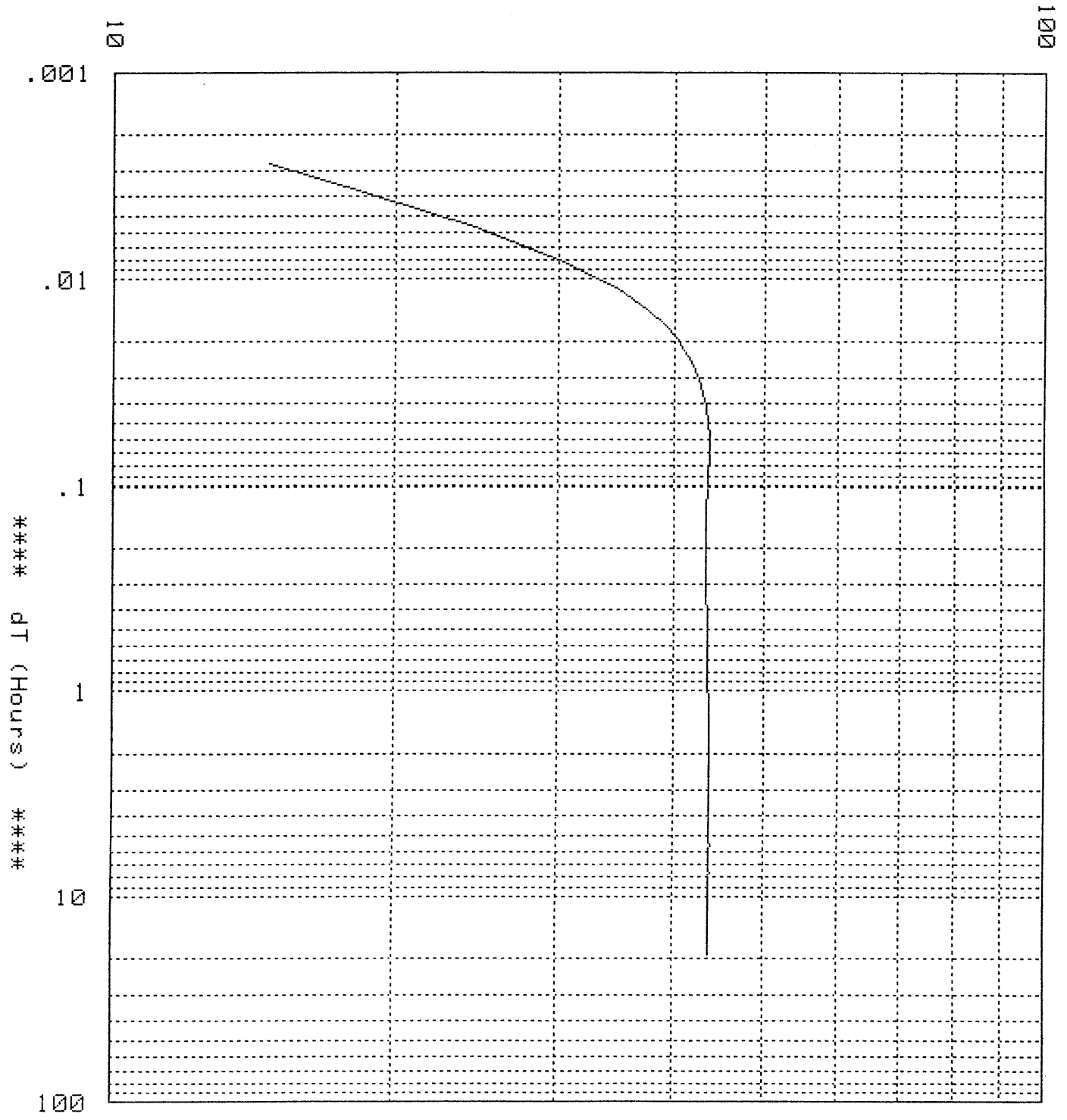
22/64 CHOKE

Time well flowed: 15:00:20 Date: 18/03/81

Time well shut in: 17:30:30 Date: 18/03/81

Time build-up completed: 12:30:10 Date: 19/03/81

\*\*\*\*\* dP (PSIA) \*\*\*\*\*



\*\*\*\*\*  
DT (Hours)  
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Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
15:00:30	155.0	2293.32	.003	53.32	902.000
15:00:40	154.7	2280.55	.006	40.55	451.500
15:00:50	154.3	2270.33	.008	30.33	301.333
15:01:00	154.1	2262.91	.011	22.91	226.250
15:01:10	154.1	2257.59	.014	17.59	181.200
15:01:20	154.5	2253.44	.017	13.44	151.167
15:01:30	155.0	2250.09	.019	10.09	129.714
15:01:40	155.4	2247.42	.022	7.42	113.625
15:01:50	155.5	2245.50	.025	5.50	101.111
15:02:00	155.6	2244.22	.028	4.22	91.100
15:02:10	155.6	2243.31	.031	3.31	82.909
15:02:20	155.7	2242.61	.033	2.61	76.083
15:02:30	155.6	2242.10	.036	2.10	70.308
15:02:40	155.6	2241.64	.039	1.64	65.357
15:02:50	155.6	2241.21	.042	1.21	61.067
15:03:00	155.6	2240.92	.044	.92	57.313
15:03:10	155.6	2240.69	.047	.69	54.000
15:03:20	155.6	2240.53	.050	.53	51.056
15:03:30	155.5	2240.43	.053	.43	48.421
15:03:40	155.5	2240.33	.056	.33	46.050
15:03:50	155.5	2240.28	.058	.28	43.905
15:04:00	155.5	2240.26	.061	.26	41.955
15:04:10	155.5	2240.27	.064	.27	40.174
15:04:20	155.5	2240.32	.067	.32	38.542
15:04:30	155.5	2240.44	.069	.44	37.040
15:04:40	155.5	2240.58	.072	.58	35.654
15:04:50	155.5	2240.76	.075	.76	34.370
15:05:00	155.5	2240.89	.078	.89	33.179
15:05:10	155.5	2241.02	.081	1.02	32.069
15:05:20	155.5	2241.12	.083	1.12	31.033
15:05:30	155.5	2241.18	.086	1.18	30.065
15:05:40	155.5	2241.20	.089	1.20	29.156
15:05:50	155.5	2241.21	.092	1.21	28.303
15:06:00	155.5	2241.25	.094	1.25	27.500
15:06:10	155.5	2241.22	.097	1.22	26.743
15:06:20	155.5	2241.22	.100	1.22	26.028
15:06:30	155.5	2241.17	.103	1.17	25.351
15:06:40	155.5	2241.15	.106	1.15	24.711
15:06:50	155.4	2241.07	.108	1.07	24.103
15:07:00	155.4	2240.98	.111	.98	23.525
15:07:10	155.4	2240.86	.114	.86	22.976
15:07:20	155.4	2240.81	.117	.81	22.452
15:07:30	155.4	2240.74	.119	.74	21.953
15:07:40	155.5	2240.76	.122	.76	21.477
15:07:50	155.4	2240.81	.125	.81	21.022
15:08:00	155.4	2240.86	.128	.86	20.587
15:08:10	155.5	2240.95	.131	.95	20.170
15:08:20	155.4	2241.01	.133	1.01	19.771
15:08:30	155.5	2241.09	.136	1.09	19.388
15:08:40	155.4	2241.07	.139	1.07	19.020
15:08:50	155.4	2241.09	.142	1.09	18.667
15:09:00	155.5	2241.16	.144	1.16	18.327
15:09:10	155.5	2241.17	.147	1.17	18.000
15:09:20	155.5	2241.20	.150	1.20	17.685
15:09:30	155.5	2241.31	.153	1.31	17.382
15:09:40	155.5	2241.36	.156	1.36	17.089
15:09:50	155.4	2241.44	.158	1.44	16.807
15:10:00	155.5	2241.56	.161	1.56	16.534
15:10:10	155.5	2241.61	.164	1.61	16.271
15:10:30	155.5	2241.78	.169	1.78	15.770
15:11:00	155.4	2241.89	.178	1.89	15.078

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
15:11:30	155.5	2242.12	.186	2.12	14.448
15:12:00	155.4	2242.30	.194	2.30	13.871
15:12:30	155.4	2242.49	.203	2.49	13.342
15:13:00	155.5	2242.62	.211	2.62	12.855
15:13:30	155.5	2242.74	.219	2.74	12.405
15:14:00	155.4	2242.82	.228	2.82	11.988
15:14:30	155.5	2242.78	.236	2.78	11.600
15:15:00	155.5	2242.92	.244	2.92	11.239
15:15:30	155.4	2242.97	.253	2.97	10.901
15:16:00	155.5	2243.02	.261	3.02	10.585
15:16:30	155.5	2243.11	.269	3.11	10.289
15:17:00	155.5	2243.16	.278	3.16	10.010
15:17:30	155.5	2243.32	.286	3.32	9.748
15:18:00	155.5	2243.37	.294	3.37	9.500
15:18:30	155.5	2243.35	.303	3.35	9.266
15:19:00	155.5	2243.18	.311	3.18	9.045
15:19:30	155.5	2243.47	.319	3.47	8.835
15:20:00	155.5	2243.32	.328	3.32	8.636
15:20:30	155.5	2243.17	.336	3.17	8.446
15:21:00	155.5	2243.13	.344	3.13	8.266
15:21:30	155.5	2243.20	.353	3.20	8.094
15:22:00	155.5	2243.12	.361	3.12	7.931
15:22:30	155.5	2243.11	.369	3.11	7.774
15:23:00	155.5	2243.15	.378	3.15	7.625
15:24:00	155.5	2243.03	.394	3.03	7.345
15:25:00	155.5	2242.95	.411	2.95	7.088
15:26:00	155.5	2242.87	.428	2.87	6.851
15:27:00	155.6	2243.01	.444	3.01	6.631
15:28:00	155.5	2243.15	.461	3.15	6.428
15:29:00	155.6	2243.36	.478	3.36	6.238
15:30:00	155.5	2243.44	.494	3.44	6.062
15:40:00	155.6	2244.39	.661	4.39	4.786
15:50:00	155.6	2242.18	.828	2.18	4.023
16:00:00	155.6	2242.85	.994	2.85	3.517
16:10:00	155.6	2243.72	1.161	3.72	3.156
16:16:00	155.7	2244.11	1.261	4.11	2.985
16:17:00	155.6	2244.19	1.278	4.19	2.959
16:18:00	155.7	2244.28	1.294	4.28	2.933
16:19:00	155.7	2244.46	1.311	4.46	2.909
16:20:00	155.7	2244.65	1.328	4.65	2.885
16:21:00	155.7	2244.74	1.344	4.74	2.862
16:22:00	155.7	2244.79	1.361	4.79	2.839
16:23:00	155.7	2244.79	1.378	4.79	2.817
16:24:00	155.7	2244.75	1.394	4.75	2.795
16:25:00	155.7	2244.71	1.411	4.71	2.774
16:26:00	155.7	2244.75	1.428	4.75	2.753
16:27:00	155.7	2244.71	1.444	4.71	2.733
16:28:00	155.7	2244.29	1.461	4.29	2.713
16:29:00	155.7	2244.14	1.478	4.14	2.694
16:30:00	155.7	2244.22	1.494	4.22	2.675
16:31:00	155.7	2244.27	1.511	4.27	2.656
16:32:00	155.7	2244.16	1.528	4.16	2.638
16:33:00	155.7	2244.14	1.544	4.14	2.621
16:34:00	155.7	2244.38	1.561	4.38	2.603
16:35:00	155.7	2244.48	1.578	4.48	2.586
16:36:00	155.7	2244.48	1.594	4.48	2.570
16:37:00	155.7	2244.48	1.611	4.48	2.553
16:38:00	155.8	2244.45	1.628	4.45	2.538
16:39:00	155.7	2244.42	1.644	4.42	2.522
16:40:00	155.7	2244.46	1.661	4.46	2.507

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
16:41:00	155.8	2244.40	1.678	4.40	2.492
16:42:00	155.7	2244.67	1.694	4.67	2.477
16:43:00	155.8	2244.72	1.711	4.72	2.463
16:44:00	155.8	2244.64	1.728	4.64	2.449
16:45:00	155.8	2244.62	1.744	4.62	2.435
16:46:00	155.8	2244.62	1.761	4.62	2.421
16:47:00	155.8	2244.63	1.778	4.63	2.408
16:48:00	155.8	2244.64	1.794	4.64	2.395
16:49:00	155.8	2244.77	1.811	4.77	2.382
16:50:00	155.7	2244.85	1.828	4.85	2.369
16:51:00	155.8	2245.08	1.844	5.08	2.357
16:52:00	155.8	2245.05	1.861	5.05	2.345
16:53:00	155.8	2245.10	1.878	5.10	2.333
16:54:00	155.8	2245.22	1.894	5.22	2.321
16:55:00	155.8	2245.28	1.911	5.28	2.310
16:56:00	155.8	2245.35	1.928	5.35	2.298
16:57:00	155.8	2245.30	1.944	5.30	2.287
16:58:00	155.8	2245.35	1.961	5.35	2.276
16:59:00	155.8	2245.37	1.978	5.37	2.265
17:00:00	155.9	2245.42	1.994	5.42	2.255
17:01:00	155.8	2245.48	2.011	5.48	2.244
17:02:00	155.8	2245.44	2.028	5.44	2.234
17:03:00	155.8	2245.47	2.044	5.47	2.224
17:04:00	155.8	2245.42	2.061	5.42	2.214
17:05:00	155.8	2245.43	2.078	5.43	2.205
17:06:00	155.8	2245.54	2.094	5.54	2.195
17:07:00	155.8	2245.57	2.111	5.57	2.186
17:08:00	155.8	2245.57	2.128	5.57	2.176
17:09:00	155.9	2245.61	2.144	5.61	2.167
17:10:00	155.8	2245.62	2.161	5.62	2.158
17:11:00	155.9	2245.61	2.178	5.61	2.149
17:12:00	155.8	2245.55	2.194	5.55	2.141
17:13:00	155.9	2245.54	2.211	5.54	2.132
17:14:00	155.9	2245.54	2.228	5.54	2.123
17:15:00	155.9	2245.56	2.244	5.56	2.115
17:16:00	155.9	2245.58	2.261	5.58	2.107
17:17:00	155.9	2245.60	2.278	5.60	2.099
17:18:00	155.8	2245.65	2.294	5.65	2.091
17:19:00	155.8	2245.68	2.311	5.68	2.083
17:20:00	155.9	2245.74	2.328	5.74	2.075
17:21:00	155.9	2245.76	2.344	5.76	2.068
17:22:00	155.9	2245.76	2.361	5.76	2.060
17:23:00	155.9	2245.58	2.378	5.58	2.053
17:24:00	155.9	2245.07	2.394	5.07	2.045
17:25:00	155.9	2244.92	2.411	4.92	2.038
17:26:00	155.9	2245.01	2.428	5.01	2.031
17:27:00	155.8	2245.24	2.444	5.24	2.024
17:28:00	155.9	2245.48	2.461	5.48	2.017
17:29:00	155.9	2245.44	2.478	5.44	2.010
17:29:50	155.9	2245.37	2.492	5.37	2.004
17:30:00	155.9	2245.35	2.494	5.35	2.003
17:30:10	155.9	2245.31	2.497	5.31	2.002
17:30:20	155.9	2245.29	2.500	5.29	2.001
17:30:30	156.3	2260.47	2.503	20.47	2.000

GO INTERNATIONAL AUSTRALIA  
LINEAR PRESSURE VS. LOG TIME

BEACH PETROLEUM

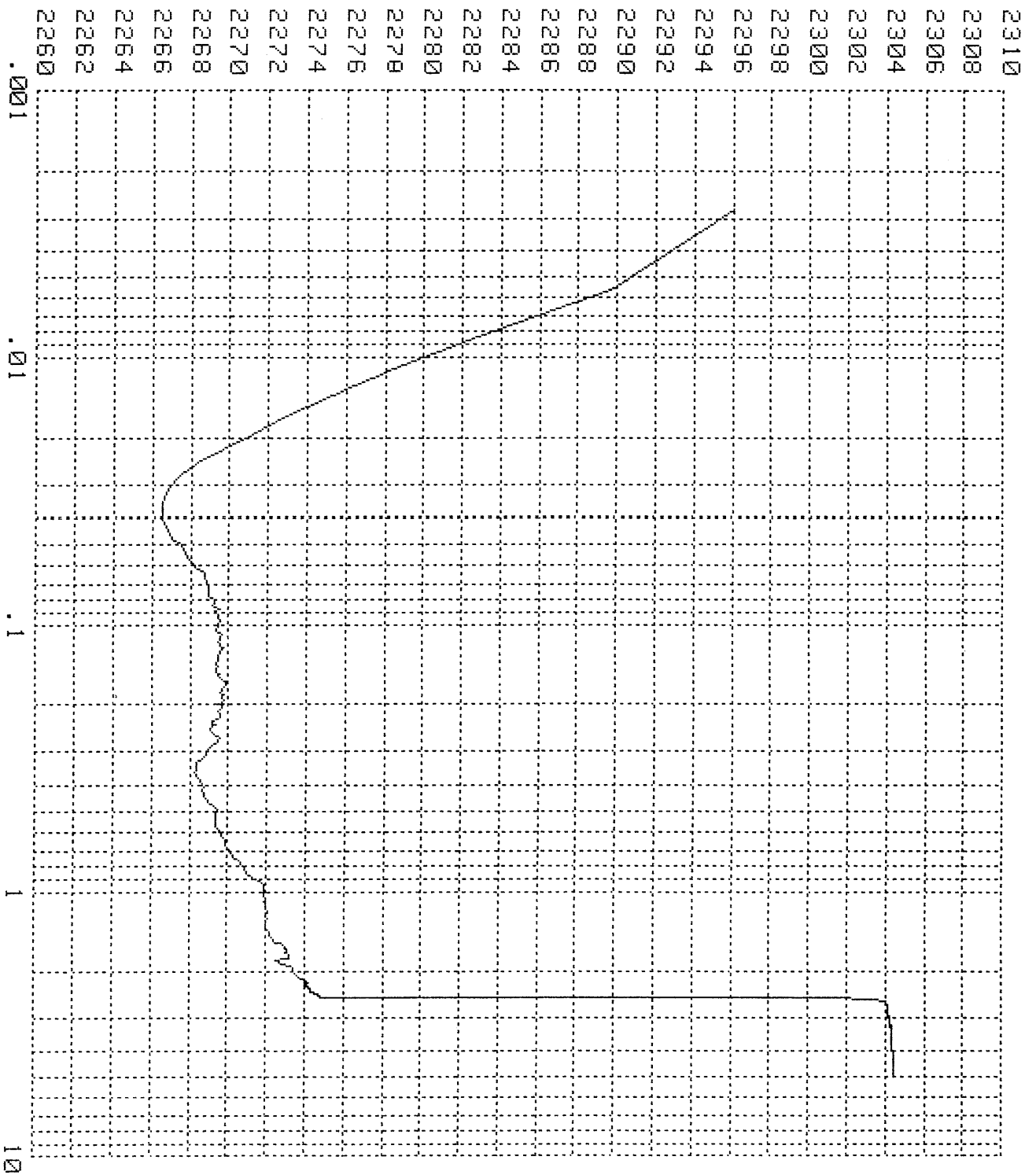
GRUMBY #1

18/64 CHOKE

Start of plot: 10:01:00 Date: 18/03/81

Finish of plot : 15:00:10 Date: 18/03/81

\*\*\*\*\* Pressure (PSIA) \*\*\*\*\*



\*\*\*\*\* dt (Hours) \*\*\*\*\*

GO INTERNATIONAL AUSTRALIA - HORNER PLOT

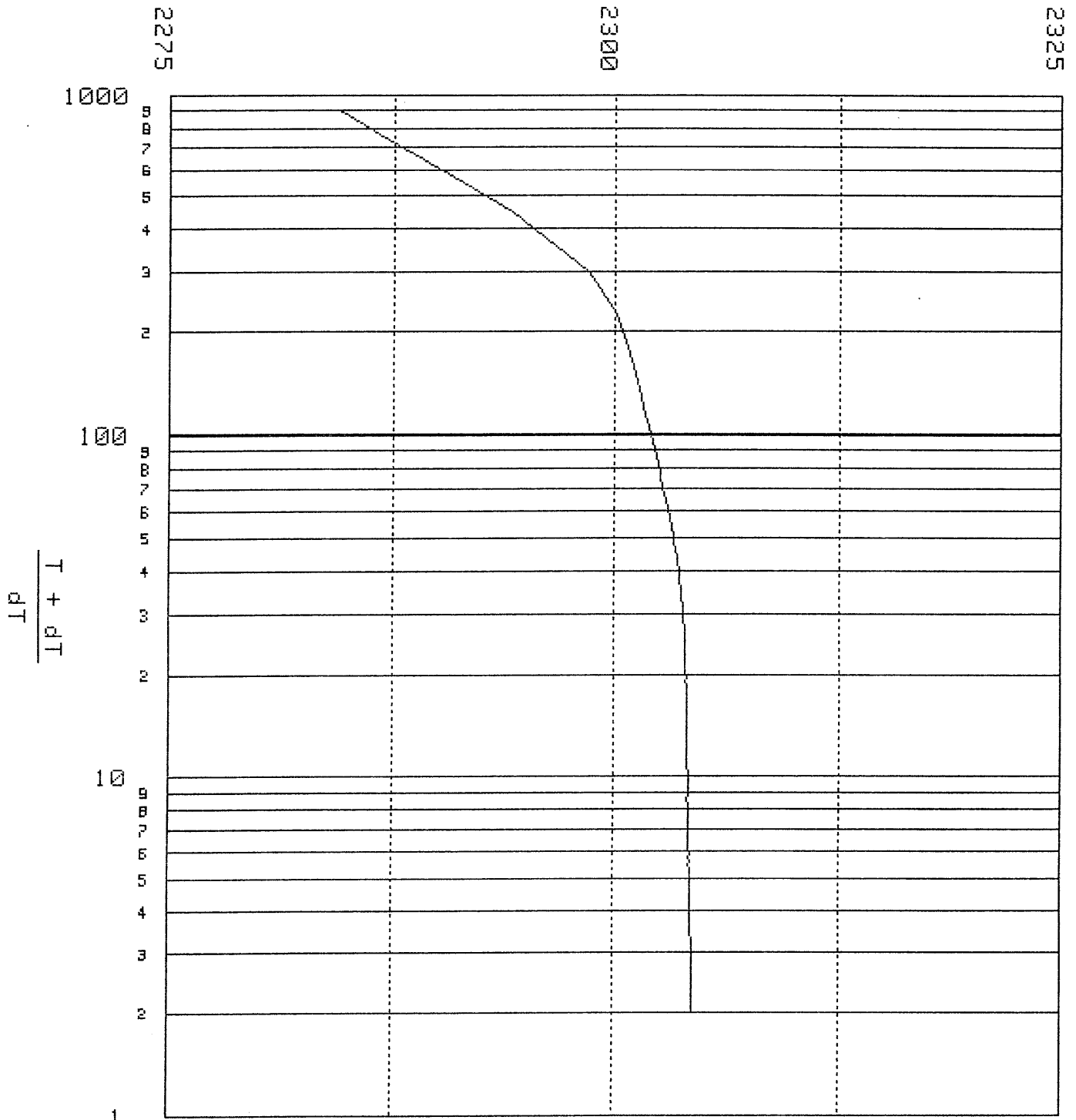
BEACH PETROLEUM GRUMBY #1 18/64 CHOKE

Time well flowed:10:01:00 Date: 18/03/81

Time well shut in:12:30:20 Date: 18/03/81

Time build-up completed:15:00:10 Date:18/03/81

Pressure (PSIA)



Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
12:30:30	156.6	2284.44	.003	9.59	897.000
12:30:40	157.1	2294.17	.006	19.32	449.000
12:30:50	157.2	2298.49	.008	23.64	299.667
12:31:00	157.2	2300.07	.011	25.22	225.000
12:31:10	157.2	2300.72	.014	25.87	180.200
12:31:20	157.2	2301.14	.017	26.29	150.333
12:31:30	157.1	2301.48	.019	26.63	129.000
12:31:40	157.1	2301.76	.022	26.91	113.000
12:31:50	157.1	2302.02	.025	27.17	100.556
12:32:00	157.0	2302.22	.028	27.37	90.600
12:32:10	157.1	2302.41	.031	27.56	82.455
12:32:20	157.0	2302.57	.033	27.72	75.667
12:32:30	157.1	2302.71	.036	27.86	69.923
12:32:40	157.0	2302.84	.039	27.99	65.000
12:32:50	157.0	2302.97	.042	28.12	60.733
12:33:00	157.0	2303.10	.044	28.25	57.000
12:33:10	156.9	2303.20	.047	28.35	53.706
12:33:20	156.9	2303.30	.050	28.45	50.778
12:33:30	156.9	2303.37	.053	28.52	48.158
12:33:40	156.9	2303.43	.056	28.58	45.800
12:33:50	156.9	2303.51	.058	28.66	43.667
12:34:00	156.9	2303.57	.061	28.72	41.727
12:34:10	156.8	2303.59	.064	28.74	39.957
12:34:20	156.9	2303.67	.067	28.82	38.333
12:34:30	156.9	2303.69	.069	28.84	36.840
12:34:40	156.8	2303.73	.072	28.88	35.462
12:34:50	156.9	2303.76	.075	28.91	34.185
12:35:00	156.8	2303.78	.078	28.93	33.000
12:35:10	156.8	2303.83	.081	28.98	31.897
12:35:20	156.8	2303.84	.083	28.99	30.867
12:35:30	156.8	2303.88	.086	29.03	29.903
12:35:40	156.8	2303.88	.089	29.03	29.000
12:35:50	156.8	2303.90	.092	29.05	28.152
12:36:00	156.8	2303.91	.094	29.06	27.353
12:36:10	156.8	2303.92	.097	29.07	26.600
12:36:20	156.8	2303.94	.100	29.09	25.889
12:36:30	156.7	2303.95	.103	29.10	25.216
12:36:40	156.7	2303.96	.106	29.11	24.579
12:36:50	156.7	2303.98	.108	29.13	23.974
12:37:00	156.7	2303.98	.111	29.13	23.400
12:37:10	156.7	2303.98	.114	29.13	22.854
12:37:20	156.7	2304.00	.117	29.15	22.333
12:37:30	156.7	2304.00	.119	29.15	21.837
12:37:40	156.7	2304.00	.122	29.15	21.364
12:37:50	156.7	2304.01	.125	29.16	20.911
12:38:00	156.7	2304.00	.128	29.15	20.478
12:38:10	156.7	2304.01	.131	29.16	20.064
12:38:20	156.7	2304.02	.133	29.17	19.667
12:38:30	156.7	2304.03	.136	29.18	19.286
12:38:40	156.7	2304.01	.139	29.16	18.920
12:38:50	156.6	2304.03	.142	29.18	18.569
12:39:00	156.6	2304.05	.144	29.20	18.231
12:39:10	156.6	2304.05	.147	29.20	17.906
12:39:20	156.6	2304.05	.150	29.20	17.593
12:39:30	156.7	2304.05	.153	29.20	17.291
12:39:40	156.7	2304.06	.156	29.21	17.000
12:39:50	156.6	2304.08	.158	29.23	16.719
12:40:00	156.6	2304.08	.161	29.23	16.448
12:40:30	156.5	2304.06	.169	29.21	15.689
12:41:00	156.6	2304.05	.178	29.20	15.000
12:41:30	156.6	2304.07	.186	29.22	14.373



Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
12:42:00	156.6	2304.09	.194	29.24	13.800
12:42:30	156.5	2304.10	.203	29.25	13.274
12:43:00	156.5	2304.11	.211	29.26	12.789
12:43:30	156.5	2304.12	.219	29.27	12.342
12:44:00	156.5	2304.10	.228	29.25	11.927
12:44:30	156.4	2304.11	.236	29.26	11.541
12:45:00	156.4	2304.10	.244	29.25	11.182
12:45:30	156.4	2304.11	.253	29.26	10.846
12:46:00	156.4	2304.10	.261	29.25	10.532
12:46:30	156.4	2304.14	.269	29.29	10.237
12:47:00	156.3	2304.16	.278	29.31	9.960
12:47:30	156.4	2304.17	.286	29.32	9.699
12:48:00	156.3	2304.14	.294	29.29	9.453
12:48:30	156.3	2304.14	.303	29.29	9.220
12:49:00	156.3	2304.14	.311	29.29	9.000
12:49:30	156.3	2304.14	.319	29.29	8.791
12:50:00	156.2	2304.12	.328	29.27	8.593
12:51:00	156.2	2304.14	.344	29.29	8.226
12:52:00	156.2	2304.15	.361	29.30	7.892
12:53:00	156.2	2304.16	.378	29.31	7.588
12:54:00	156.2	2304.17	.394	29.32	7.310
12:55:00	156.1	2304.16	.411	29.31	7.054
12:56:00	156.2	2304.17	.428	29.32	6.818
12:57:00	156.1	2304.18	.444	29.33	6.600
12:58:00	156.1	2304.19	.461	29.34	6.398
12:59:00	156.1	2304.19	.478	29.34	6.209
13:00:00	156.1	2304.21	.494	29.36	6.034
13:01:00	156.1	2304.23	.511	29.38	5.870
13:02:00	156.1	2304.21	.528	29.36	5.716
13:03:00	156.0	2304.23	.544	29.38	5.571
13:04:00	156.0	2304.22	.561	29.37	5.436
13:05:00	156.0	2304.23	.578	29.38	5.308
13:06:00	156.0	2304.26	.594	29.41	5.187
13:07:00	156.0	2304.25	.611	29.40	5.073
13:08:00	155.9	2304.25	.628	29.40	4.965
13:09:00	155.9	2304.26	.644	29.41	4.862
13:10:00	156.0	2304.26	.661	29.41	4.765
13:11:00	155.9	2304.27	.678	29.42	4.672
13:12:00	155.9	2304.27	.694	29.42	4.584
13:13:00	155.9	2304.29	.711	29.44	4.500
13:14:00	155.9	2304.29	.728	29.44	4.420
13:15:00	155.9	2304.28	.744	29.43	4.343
13:16:00	155.8	2304.27	.761	29.42	4.270
13:17:00	155.9	2304.30	.778	29.45	4.200
13:18:00	155.9	2304.30	.794	29.45	4.133
13:19:00	155.9	2304.30	.811	29.45	4.068
13:20:00	155.9	2304.31	.828	29.46	4.007
13:21:00	155.9	2304.32	.844	29.47	3.947
13:22:00	155.8	2304.30	.861	29.45	3.890
13:23:00	155.8	2304.30	.878	29.45	3.835
13:24:00	155.9	2304.32	.894	29.47	3.783
13:25:00	155.9	2304.33	.911	29.48	3.732
13:26:00	155.8	2304.31	.928	29.46	3.683
13:27:00	155.8	2304.31	.944	29.46	3.635
13:28:00	155.8	2304.32	.961	29.47	3.590
13:29:00	155.8	2304.33	.978	29.48	3.545
13:30:00	155.8	2304.31	.994	29.46	3.503
13:31:00	155.7	2304.32	1.011	29.47	3.462
13:32:00	155.8	2304.32	1.028	29.47	3.422
13:33:00	155.8	2304.32	1.044	29.47	3.383

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
13:34:00	155.7	2304.33	1.061	29.48	3.346
13:35:00	155.7	2304.34	1.078	29.49	3.309
13:36:00	155.7	2304.34	1.094	29.49	3.274
13:37:00	155.7	2304.35	1.111	29.50	3.240
13:38:00	155.7	2304.34	1.128	29.49	3.207
13:39:00	155.7	2304.35	1.144	29.50	3.175
13:40:00	155.7	2304.36	1.161	29.51	3.144
13:41:00	155.7	2304.34	1.178	29.49	3.113
13:42:00	155.7	2304.35	1.194	29.50	3.084
13:43:00	155.7	2304.36	1.211	29.51	3.055
13:44:00	155.7	2304.34	1.228	29.49	3.027
13:45:00	155.7	2304.36	1.244	29.51	3.000
13:46:00	155.6	2304.34	1.261	29.49	2.974
13:47:00	155.7	2304.37	1.278	29.52	2.948
13:48:00	155.7	2304.36	1.294	29.51	2.923
13:49:00	155.7	2304.36	1.311	29.51	2.898
13:50:00	155.7	2304.36	1.328	29.51	2.874
13:51:00	155.7	2304.37	1.344	29.52	2.851
13:52:00	155.7	2304.36	1.361	29.51	2.829
13:53:00	155.6	2304.37	1.378	29.52	2.806
13:54:00	155.6	2304.37	1.394	29.52	2.785
13:55:00	155.7	2304.37	1.411	29.52	2.764
13:56:00	155.7	2304.37	1.428	29.52	2.743
13:57:00	155.7	2304.37	1.444	29.52	2.723
13:58:00	155.7	2304.37	1.461	29.52	2.703
13:59:00	155.7	2304.37	1.478	29.52	2.684
14:00:00	155.7	2304.39	1.494	29.54	2.665
14:01:00	155.6	2304.39	1.511	29.54	2.647
14:10:00	155.6	2304.38	1.661	29.53	2.498
14:20:00	155.6	2304.39	1.828	29.54	2.362
14:30:00	155.5	2304.40	1.994	29.55	2.248
14:40:00	155.6	2304.41	2.161	29.56	2.152
14:50:00	155.5	2304.42	2.328	29.57	2.069
14:59:40	155.4	2304.39	2.489	29.54	2.000
14:59:50	155.5	2304.40	2.492	29.55	1.999
15:00:00	155.5	2304.42	2.494	29.57	1.998
15:00:10	155.4	2304.39	2.497	29.54	1.997

GO INTERNATIONAL AUSTRALIA

dP/dT PLOT

Build-up

BEACH PETROLEUM

GRUMBY #1

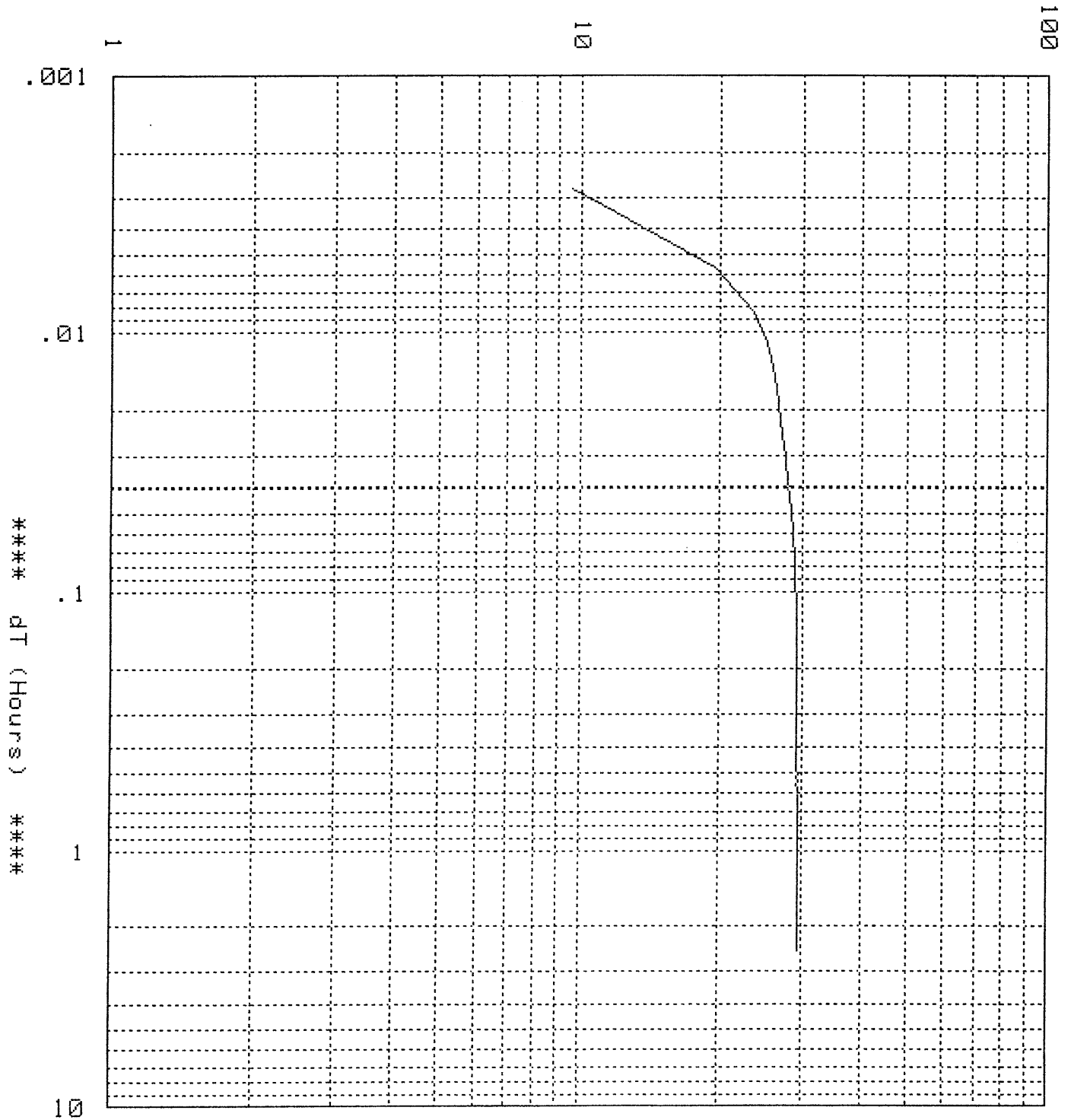
18/64 CHOKE

Time well flowed: 10:01:00 Date: 18/03/81

Time well shut in: 12:30:20 Date: 18/03/81

Time build-up completed: 15:00:10 Date: 18/03/81

\*\*\*\*\* dP (PSIA) \*\*\*\*\*



GO INTERNATIONAL AUSTRALIA

dP/dT PLOT

Drawdown

BEACH PETROLEUM

GRUMBY #1

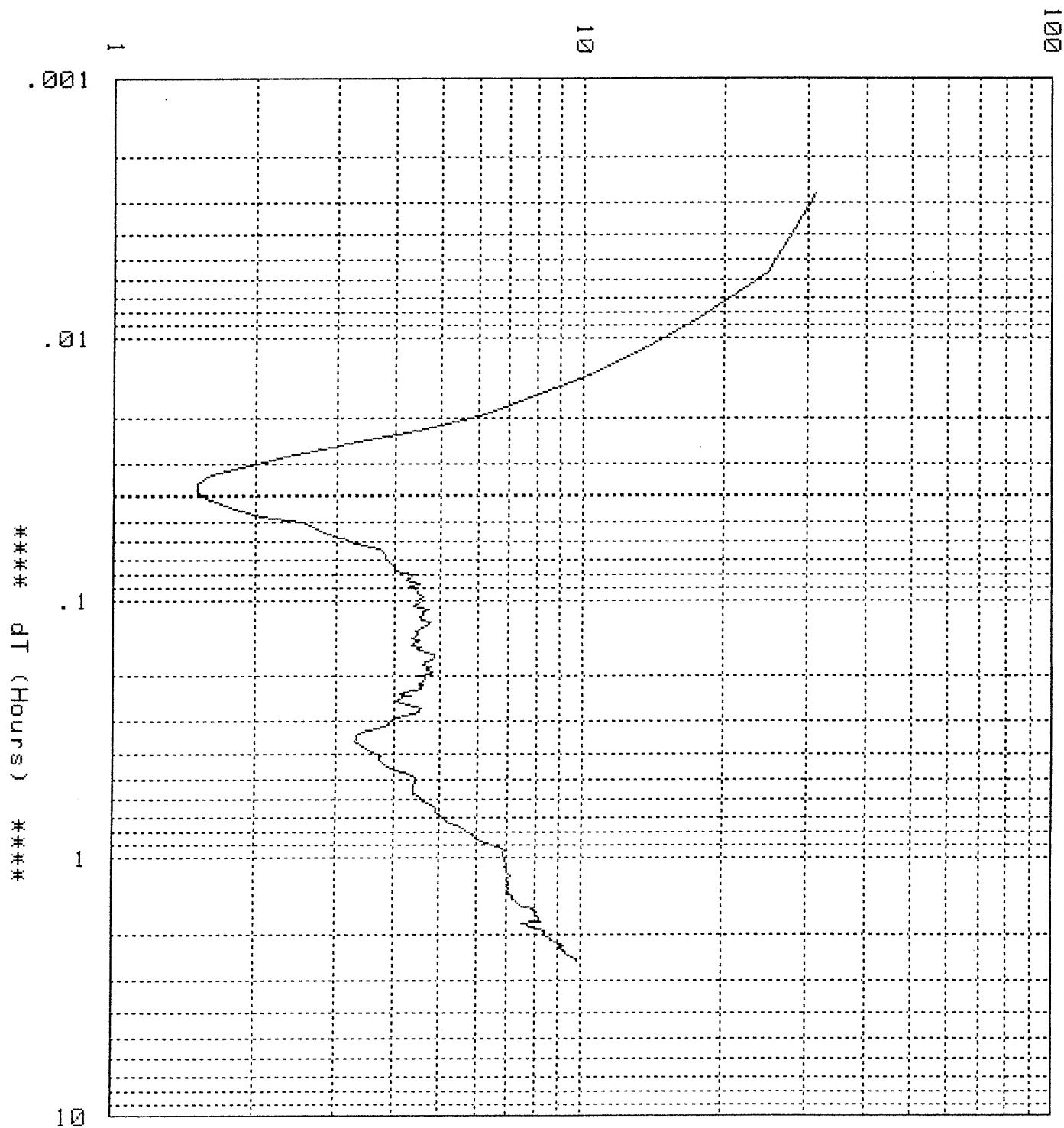
18/64 CHOKE

Time well flowed: 10:01:00 Date: 18/03/81

Time well shut in: 12:30:20 Date: 18/03/81

Time build-up completed: 15:00:10 Date: 18/03/81

\*\*\*\*\* dP (PSIA) \*\*\*\*\*



Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
10:01:10	154.5	2296.06	.003	31.06	897.000
10:01:20	154.3	2289.69	.006	24.69	449.000
10:01:30	154.1	2282.76	.008	17.76	299.667
10:01:40	154.0	2278.49	.011	13.49	225.000
10:01:50	154.0	2275.33	.014	10.33	180.200
10:02:00	154.3	2272.93	.017	7.93	150.333
10:02:10	154.6	2271.16	.019	6.16	129.000
10:02:20	154.9	2269.62	.022	4.62	113.000
10:02:30	155.0	2268.32	.025	3.32	100.556
10:02:40	155.1	2267.43	.028	2.43	90.600
10:02:50	155.3	2266.92	.031	1.92	82.455
10:03:00	155.4	2266.60	.033	1.60	75.667
10:03:10	155.5	2266.50	.036	1.50	69.923
10:03:20	155.5	2266.50	.039	1.50	65.000
10:03:30	155.5	2266.64	.042	1.64	60.733
10:03:40	155.5	2266.81	.044	1.81	57.000
10:03:50	155.5	2267.06	.047	2.06	53.706
10:04:00	155.6	2267.52	.050	2.52	50.778
10:04:10	155.6	2267.67	.053	2.67	48.158
10:04:20	155.6	2267.88	.056	2.88	45.800
10:04:30	155.5	2268.17	.058	3.17	43.667
10:04:40	155.5	2268.29	.061	3.29	41.727
10:04:50	155.5	2268.71	.064	3.71	39.957
10:05:00	155.5	2268.79	.067	3.79	38.333
10:05:10	155.5	2268.82	.069	3.82	36.840
10:05:20	155.6	2268.91	.072	3.91	35.462
10:05:30	155.6	2268.98	.075	3.98	34.185
10:05:40	155.6	2268.99	.078	3.99	33.000
10:05:50	155.6	2269.38	.081	4.38	31.897
10:06:00	155.6	2269.20	.083	4.20	30.867
10:06:10	155.6	2269.52	.086	4.52	29.903
10:06:20	155.6	2269.30	.089	4.30	29.000
10:06:30	155.5	2269.41	.092	4.41	28.152
10:06:40	155.5	2269.45	.094	4.45	27.353
10:06:50	155.6	2269.59	.097	4.59	26.600
10:07:00	155.6	2269.46	.100	4.46	25.889
10:07:10	155.6	2269.50	.103	4.50	25.216
10:07:20	155.6	2269.38	.106	4.38	24.579
10:07:30	155.6	2269.71	.108	4.71	23.974
10:07:40	155.6	2269.58	.111	4.58	23.400
10:07:50	155.6	2269.59	.114	4.59	22.854
10:08:00	155.6	2269.50	.117	4.50	22.333
10:08:10	155.6	2269.55	.119	4.55	21.837
10:08:20	155.6	2269.75	.122	4.75	21.364
10:08:30	155.7	2269.70	.125	4.70	20.911
10:08:40	155.6	2269.55	.128	4.55	20.478
10:08:50	155.6	2269.50	.131	4.50	20.064
10:09:00	155.6	2269.42	.133	4.42	19.667
10:09:10	155.6	2269.46	.136	4.46	19.286
10:09:20	155.6	2269.40	.139	4.40	18.920
10:09:30	155.6	2269.34	.142	4.34	18.569
10:09:40	155.7	2269.50	.144	4.50	18.231
10:09:50	155.7	2269.36	.147	4.36	17.906
10:10:00	155.7	2269.34	.150	4.34	17.593
10:10:10	155.6	2269.54	.153	4.54	17.291
10:10:20	155.6	2269.44	.156	4.44	17.000
10:10:30	155.6	2269.55	.158	4.55	16.719
10:10:40	155.7	2269.66	.161	4.66	16.448
10:10:50	155.6	2269.83	.164	4.83	16.186
10:11:00	155.7	2269.83	.167	4.83	15.933
10:11:10	155.7	2269.84	.169	4.84	15.689

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
10:11:20	155.6	2269.79	.172	4.79	15.452
10:11:30	155.7	2269.64	.175	4.64	15.222
10:11:40	155.7	2269.64	.178	4.64	15.000
10:11:50	155.6	2269.59	.181	4.59	14.785
10:12:00	155.7	2269.77	.183	4.77	14.576
10:12:10	155.7	2269.69	.186	4.69	14.373
10:12:20	155.7	2269.68	.189	4.68	14.176
10:12:30	155.7	2269.79	.192	4.79	13.986
10:12:40	155.7	2269.71	.194	4.71	13.800
10:12:50	155.6	2269.50	.197	4.50	13.620
10:13:00	155.6	2269.61	.200	4.61	13.444
10:13:10	155.7	2269.64	.203	4.64	13.274
10:13:20	155.7	2269.64	.206	4.64	13.108
10:13:30	155.6	2269.57	.208	4.57	12.947
10:13:40	155.6	2269.48	.211	4.48	12.789
10:13:50	155.7	2269.57	.214	4.57	12.636
10:14:00	155.7	2269.52	.217	4.52	12.487
10:14:10	155.7	2269.54	.219	4.54	12.342
10:14:20	155.7	2269.53	.222	4.53	12.200
10:14:30	155.7	2269.42	.225	4.42	12.062
10:14:40	155.6	2269.37	.228	4.37	11.927
10:14:50	155.7	2269.19	.231	4.19	11.795
10:15:00	155.6	2269.11	.233	4.11	11.667
10:15:10	155.7	2269.34	.236	4.34	11.541
10:15:20	155.7	2269.13	.239	4.13	11.419
10:15:30	155.7	2269.12	.242	4.12	11.299
10:16:00	155.7	2269.03	.250	4.03	10.956
10:16:30	155.7	2269.25	.258	4.25	10.634
10:17:00	155.7	2269.56	.267	4.56	10.333
10:17:30	155.7	2269.49	.275	4.49	10.051
10:18:00	155.6	2269.17	.283	4.17	9.784
10:18:30	155.7	2268.94	.292	3.94	9.533
10:19:00	155.7	2268.91	.300	3.91	9.296
10:19:30	155.7	2268.86	.308	3.86	9.072
10:20:00	155.7	2268.65	.317	3.65	8.860
10:20:30	155.7	2268.47	.325	3.47	8.658
10:21:00	155.7	2268.35	.333	3.35	8.467
10:21:30	155.7	2268.30	.342	3.30	8.285
10:22:00	155.7	2268.30	.350	3.30	8.111
10:22:30	155.7	2268.28	.358	3.28	7.946
10:23:00	155.7	2268.38	.367	3.38	7.788
10:23:30	155.7	2268.45	.375	3.45	7.637
10:24:00	155.8	2268.51	.383	3.51	7.493
10:24:30	155.7	2268.61	.392	3.61	7.355
10:25:00	155.7	2268.68	.400	3.68	7.222
10:25:30	155.7	2268.72	.408	3.72	7.095
10:26:00	155.8	2268.69	.417	3.69	6.973
10:26:30	155.7	2268.74	.425	3.74	6.856
10:27:00	155.8	2268.77	.433	3.77	6.744
10:27:30	155.8	2268.79	.442	3.79	6.635
10:28:00	155.8	2268.87	.450	3.87	6.531
10:28:30	155.8	2268.98	.458	3.98	6.430
10:29:00	155.8	2269.19	.467	4.19	6.333
10:29:30	155.7	2269.29	.475	4.29	6.240
10:30:00	155.7	2269.38	.483	4.38	6.149
10:31:00	155.8	2269.46	.500	4.46	5.978
10:32:00	155.8	2269.40	.517	4.40	5.817
10:33:00	155.8	2269.37	.533	4.37	5.667
10:34:00	155.9	2269.37	.550	4.37	5.525
10:35:00	155.8	2269.39	.567	4.39	5.392

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
10:36:00	155.9	2269.49	.583	4.49	5.267
10:37:00	155.8	2269.53	.600	4.53	5.148
10:38:00	155.8	2269.66	.617	4.66	5.036
10:39:00	155.9	2269.81	.633	4.81	4.930
10:40:00	155.9	2269.90	.650	4.90	4.829
10:41:00	155.8	2269.91	.667	4.91	4.733
10:42:00	155.9	2269.97	.683	4.97	4.642
10:43:00	155.9	2270.07	.700	5.07	4.556
10:44:00	155.9	2270.15	.717	5.15	4.473
10:45:00	155.9	2270.24	.733	5.24	4.394
10:46:00	155.9	2270.49	.750	5.49	4.319
10:47:00	156.0	2270.53	.767	5.53	4.246
10:48:00	155.9	2270.69	.783	5.69	4.177
10:49:00	156.0	2270.78	.800	5.78	4.111
10:50:00	156.0	2270.91	.817	5.91	4.048
10:51:00	155.9	2270.88	.833	5.88	3.987
10:52:00	156.0	2270.98	.850	5.98	3.928
10:53:00	156.0	2271.17	.867	6.17	3.872
10:54:00	156.0	2271.31	.883	6.31	3.818
10:55:00	156.0	2271.49	.900	6.49	3.765
10:56:00	156.0	2271.72	.917	6.72	3.715
10:57:00	156.0	2271.83	.933	6.83	3.667
10:58:00	156.0	2271.90	.950	6.90	3.620
10:59:00	156.0	2271.87	.967	6.87	3.575
11:00:00	156.0	2271.85	.983	6.85	3.531
11:01:00	156.0	2271.89	1.000	6.89	3.489
11:02:00	156.0	2271.93	1.017	6.93	3.448
11:03:00	156.0	2271.91	1.033	6.91	3.409
11:04:00	156.1	2271.99	1.050	6.99	3.370
11:05:00	156.1	2271.99	1.067	6.99	3.333
11:06:00	156.0	2271.99	1.083	6.99	3.297
11:07:00	156.0	2271.93	1.100	6.93	3.263
11:08:00	156.0	2272.00	1.117	7.00	3.229
11:09:00	156.1	2271.99	1.133	6.99	3.196
11:10:00	156.1	2271.99	1.150	6.99	3.164
11:11:00	156.1	2272.02	1.167	7.02	3.133
11:12:00	156.1	2272.07	1.183	7.07	3.103
11:13:00	156.1	2272.04	1.200	7.04	3.074
11:14:00	156.1	2271.99	1.217	6.99	3.046
11:15:00	156.1	2272.01	1.233	7.01	3.018
11:16:00	156.1	2271.99	1.250	6.99	2.991
11:17:00	156.1	2272.05	1.267	7.05	2.965
11:18:00	156.1	2272.01	1.283	7.01	2.939
11:19:00	156.1	2271.99	1.300	6.99	2.915
11:20:00	156.1	2272.01	1.317	7.01	2.890
11:21:00	156.2	2272.02	1.333	7.02	2.867
11:22:00	156.2	2271.96	1.350	6.96	2.844
11:23:00	156.2	2272.01	1.367	7.01	2.821
11:24:00	156.1	2272.06	1.383	7.06	2.799
11:25:00	156.2	2272.12	1.400	7.12	2.778
11:26:00	156.2	2272.15	1.417	7.15	2.757
11:27:00	156.1	2272.15	1.433	7.15	2.736
11:28:00	156.2	2272.19	1.450	7.19	2.716
11:29:00	156.2	2272.21	1.467	7.21	2.697
11:30:00	156.1	2272.31	1.483	7.31	2.678
11:31:00	156.2	2272.35	1.500	7.35	2.659
11:32:00	156.2	2272.36	1.517	7.36	2.641
11:33:00	156.2	2272.42	1.533	7.42	2.623
11:34:00	156.2	2272.49	1.550	7.49	2.606
11:35:00	156.2	2272.80	1.567	7.80	2.589

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 18/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
11:36:00	156.2	2272.93	1.583	7.93	2.572
11:37:00	156.2	2272.95	1.600	7.95	2.556
11:38:00	156.3	2273.01	1.617	8.01	2.540
11:39:00	156.2	2273.01	1.633	8.01	2.524
11:40:00	156.2	2273.07	1.650	8.07	2.508
11:41:00	156.2	2273.05	1.667	8.05	2.493
11:42:00	156.3	2273.04	1.683	8.04	2.479
11:43:00	156.2	2273.11	1.700	8.11	2.464
11:44:00	156.3	2273.19	1.717	8.19	2.450
11:45:00	156.2	2273.15	1.733	8.15	2.436
11:46:00	156.3	2273.15	1.750	8.15	2.422
11:47:00	156.3	2273.21	1.767	8.21	2.409
11:48:00	156.2	2272.97	1.783	7.97	2.396
11:49:00	156.2	2272.50	1.800	7.50	2.383
11:50:00	156.3	2272.63	1.817	7.63	2.370
11:51:00	156.3	2272.74	1.833	7.74	2.358
11:52:00	156.2	2272.80	1.850	7.80	2.345
11:53:00	156.3	2272.90	1.867	7.90	2.333
11:54:00	156.3	2273.21	1.883	8.21	2.322
11:55:00	156.3	2273.27	1.900	8.27	2.310
11:56:00	156.3	2273.39	1.917	8.39	2.299
11:57:00	156.3	2273.43	1.933	8.43	2.287
11:58:00	156.3	2273.40	1.950	8.40	2.276
11:59:00	156.3	2273.42	1.967	8.42	2.266
12:00:00	156.3	2273.40	1.983	8.40	2.255
12:01:00	156.3	2273.40	2.000	8.40	2.244
12:02:00	156.3	2273.48	2.017	8.48	2.234
12:03:00	156.4	2273.55	2.033	8.55	2.224
12:04:00	156.3	2273.62	2.050	8.62	2.214
12:05:00	156.4	2273.61	2.067	8.61	2.204
12:06:00	156.3	2273.66	2.083	8.66	2.195
12:07:00	156.3	2273.71	2.100	8.71	2.185
12:08:00	156.4	2273.77	2.117	8.77	2.176
12:09:00	156.3	2273.87	2.133	8.87	2.167
12:10:00	156.4	2274.04	2.150	9.04	2.158
12:11:00	156.3	2274.14	2.167	9.14	2.149
12:12:00	156.4	2274.24	2.183	9.24	2.140
12:13:00	156.3	2274.02	2.200	9.02	2.131
12:14:00	156.4	2274.04	2.217	9.04	2.123
12:15:00	156.4	2274.15	2.233	9.15	2.114
12:16:00	156.3	2274.13	2.250	9.13	2.106
12:17:00	156.4	2274.10	2.267	9.10	2.098
12:18:00	156.4	2274.20	2.283	9.20	2.090
12:19:00	156.4	2274.25	2.300	9.25	2.082
12:20:00	156.4	2274.28	2.317	9.28	2.074
12:21:00	156.4	2274.34	2.333	9.34	2.067
12:23:00	156.4	2274.35	2.367	9.35	2.052
12:24:00	156.4	2274.47	2.383	9.47	2.044
12:25:00	156.4	2274.54	2.400	9.54	2.037
12:26:00	156.4	2274.59	2.417	9.59	2.030
12:27:00	156.4	2274.68	2.433	9.68	2.023
12:28:00	156.5	2274.76	2.450	9.76	2.016
12:29:00	156.4	2274.81	2.467	9.81	2.009
12:29:30	156.5	2274.83	2.475	9.83	2.006
12:29:40	156.5	2274.82	2.478	9.82	2.004
12:29:50	156.4	2274.83	2.481	9.83	2.003
12:30:00	156.5	2274.82	2.483	9.82	2.002
12:30:10	156.4	2274.85	2.486	9.85	2.001
12:30:20	156.4	2274.85	2.489	9.85	2.000



GO INTERNATIONAL AUSTRALIA  
LINEAR PRESSURE VS. LOG TIME

BEACH PETROLEUM

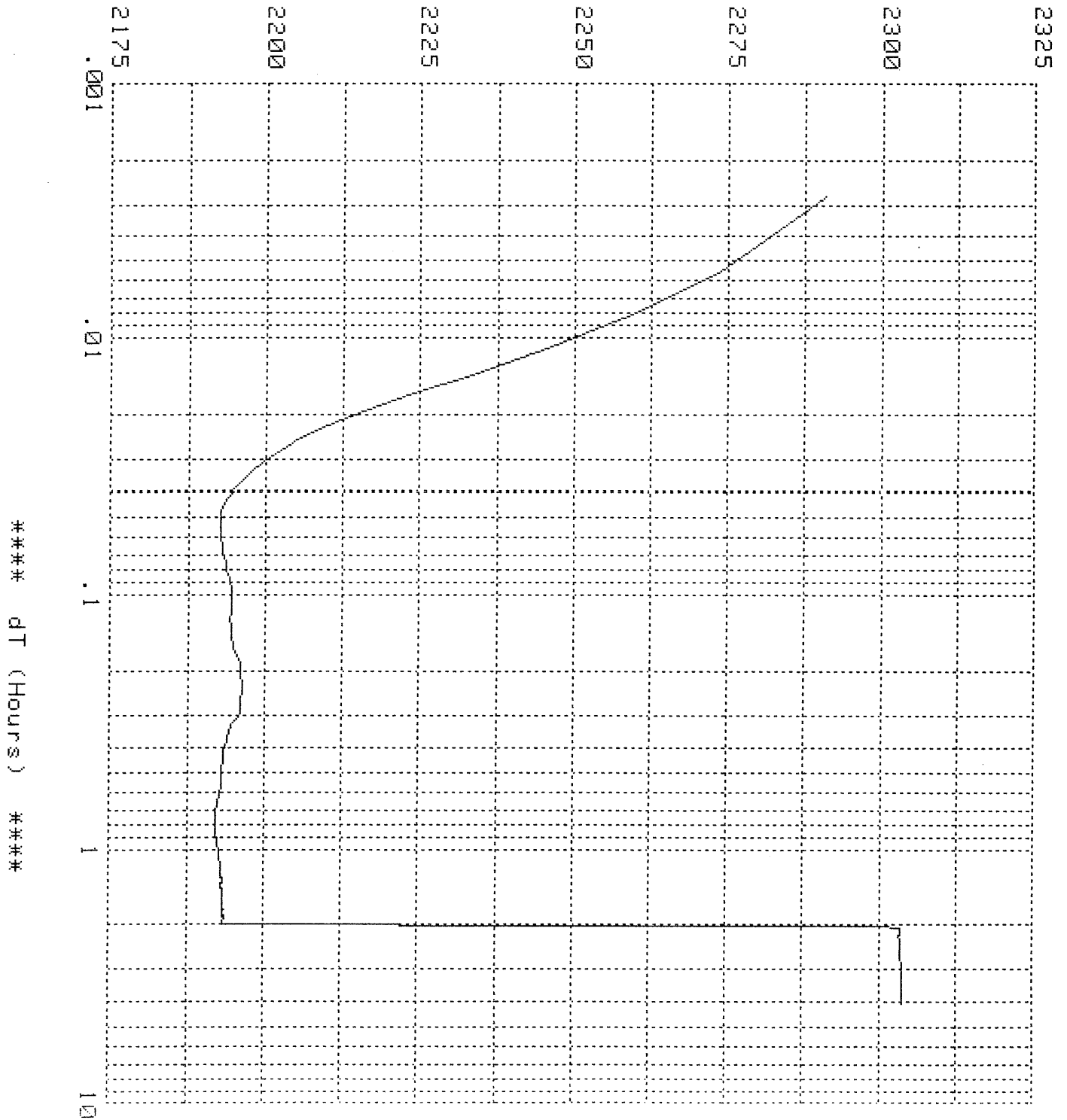
GRUMBY #1

28/64 CHOKE

Start of plot: 12:30:20 Date: 19/03/81

Finish of plot : 16:35:00 Date: 19/03/81

\*\*\*\*\* Pressure (PSIA) \*\*\*\*\*



GO INTERNATIONAL AUSTRALIA - HORNER PLOT

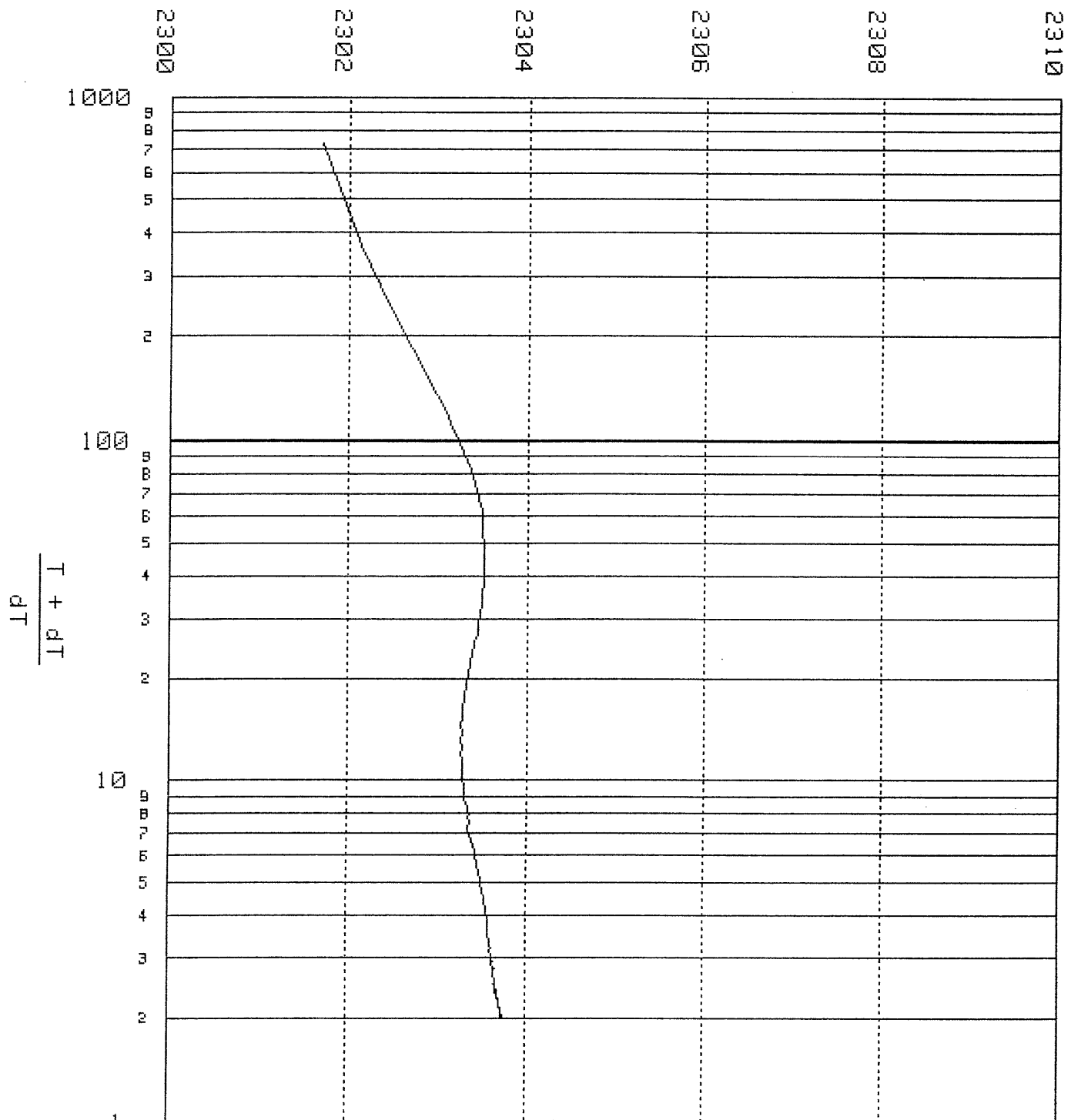
BEACH PETROLEUM GRUMBY #1 28/64 CHOKE

Time well flowed:12:30:20 Date: 19/03/81

Time well shut in:14:32:20 Date: 19/03/81

Time build-up completed:16:35:00 Date:19/03/81

Pressure (PSIA)



Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 19/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
14:32:30	156.8	2301.69	.003	.55	733.000
14:32:40	156.8	2302.11	.006	.97	367.000
14:32:50	156.7	2302.44	.008	1.30	245.000
14:33:00	156.7	2302.70	.011	1.56	184.000
14:33:10	156.6	2302.89	.014	1.75	147.400
14:33:20	156.6	2303.06	.017	1.92	123.000
14:33:30	156.6	2303.18	.019	2.04	105.571
14:33:40	156.5	2303.28	.022	2.14	92.500
14:33:50	156.5	2303.36	.025	2.22	82.333
14:34:00	156.4	2303.40	.028	2.26	74.200
14:34:10	156.5	2303.46	.031	2.32	67.545
14:34:20	156.4	2303.49	.033	2.35	62.000
14:34:30	156.3	2303.50	.036	2.36	57.308
14:34:40	156.3	2303.50	.039	2.36	53.286
14:34:50	156.4	2303.51	.042	2.37	49.800
14:35:00	156.3	2303.51	.044	2.37	46.750
14:35:10	156.3	2303.52	.047	2.38	44.059
14:35:20	156.3	2303.52	.050	2.38	41.667
14:35:30	156.2	2303.51	.053	2.37	39.526
14:35:40	156.2	2303.51	.056	2.37	37.600
14:35:50	156.2	2303.50	.058	2.36	35.857
14:36:00	156.2	2303.49	.061	2.35	34.273
14:36:10	156.2	2303.49	.064	2.35	32.826
14:36:20	156.1	2303.47	.067	2.33	31.500
14:36:30	156.2	2303.48	.069	2.34	30.280
14:36:40	156.1	2303.46	.072	2.32	29.154
14:36:50	156.1	2303.45	.075	2.31	28.111
14:37:00	156.2	2303.45	.078	2.31	27.143
14:37:10	156.1	2303.42	.081	2.28	26.241
14:37:20	156.1	2303.41	.083	2.27	25.400
14:37:30	156.1	2303.41	.086	2.27	24.613
14:37:40	156.1	2303.39	.089	2.25	23.875
14:37:50	156.0	2303.39	.092	2.25	23.182
14:38:00	156.0	2303.37	.094	2.23	22.529
14:38:10	156.0	2303.37	.097	2.23	21.914
14:38:20	156.0	2303.37	.100	2.23	21.333
14:38:30	156.0	2303.35	.103	2.21	20.784
14:38:40	156.0	2303.34	.106	2.20	20.263
14:38:50	156.0	2303.34	.108	2.20	19.769
14:39:00	156.0	2303.33	.111	2.19	19.300
14:39:10	156.0	2303.33	.114	2.19	18.854
14:39:20	155.9	2303.33	.117	2.19	18.429
14:39:30	155.9	2303.31	.119	2.17	18.023
14:39:40	156.0	2303.31	.122	2.17	17.636
14:39:50	155.9	2303.31	.125	2.17	17.267
14:40:00	155.9	2303.30	.128	2.16	16.913
14:40:10	155.9	2303.29	.131	2.15	16.574
14:40:30	155.9	2303.29	.136	2.15	15.939
14:41:00	155.9	2303.29	.144	2.15	15.077
14:41:30	155.8	2303.26	.153	2.12	14.309
14:42:00	155.9	2303.28	.161	2.14	13.621
14:42:30	155.8	2303.25	.169	2.11	13.000
14:43:00	155.8	2303.27	.178	2.13	12.438
14:43:30	155.8	2303.26	.186	2.12	11.925
14:44:00	155.8	2303.27	.194	2.13	11.457
14:44:30	155.8	2303.27	.203	2.13	11.027
14:45:00	155.7	2303.27	.211	2.13	10.632
14:45:30	155.7	2303.29	.219	2.15	10.266
14:46:00	155.7	2303.29	.228	2.15	9.927
14:46:30	155.7	2303.30	.236	2.16	9.612
14:47:00	155.7	2303.31	.244	2.17	9.318

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 19/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
14:47:30	155.6	2303.31	.253	2.17	9.044
14:48:00	155.6	2303.31	.261	2.17	8.787
14:48:30	155.6	2303.32	.269	2.18	8.546
14:49:00	155.6	2303.34	.278	2.20	8.320
14:49:30	155.6	2303.34	.286	2.20	8.107
14:50:00	155.6	2303.36	.294	2.22	7.906
14:50:30	155.6	2303.34	.303	2.20	7.716
14:51:00	155.6	2303.36	.311	2.22	7.536
14:52:00	155.7	2303.35	.328	2.21	7.203
14:53:00	155.7	2303.37	.344	2.23	6.903
14:54:00	155.7	2303.39	.361	2.25	6.631
14:55:00	155.7	2303.40	.378	2.26	6.382
14:56:00	155.6	2303.43	.394	2.29	6.155
14:57:00	155.6	2303.44	.411	2.30	5.946
14:58:00	155.6	2303.46	.428	2.32	5.753
14:59:00	155.6	2303.46	.444	2.32	5.575
15:00:00	155.6	2303.48	.461	2.34	5.410
15:01:00	155.6	2303.48	.478	2.34	5.256
15:02:00	155.6	2303.50	.494	2.36	5.112
15:03:00	155.6	2303.50	.511	2.36	4.978
15:04:00	155.5	2303.49	.528	2.35	4.853
15:05:00	155.6	2303.52	.544	2.38	4.735
15:06:00	155.6	2303.52	.561	2.38	4.624
15:07:00	155.6	2303.53	.578	2.39	4.519
15:08:00	155.6	2303.53	.594	2.39	4.421
15:09:00	155.5	2303.53	.611	2.39	4.327
15:10:00	155.5	2303.55	.628	2.41	4.239
15:11:00	155.5	2303.55	.644	2.41	4.155
15:12:00	155.5	2303.56	.661	2.42	4.076
15:13:00	155.5	2303.56	.678	2.42	4.000
15:14:00	155.5	2303.57	.694	2.43	3.928
15:15:00	155.5	2303.57	.711	2.43	3.859
15:16:00	155.5	2303.57	.728	2.43	3.794
15:17:00	155.5	2303.59	.744	2.45	3.731
15:18:00	155.5	2303.59	.761	2.45	3.672
15:19:00	155.5	2303.59	.778	2.45	3.614
15:20:00	155.5	2303.59	.794	2.45	3.559
15:21:00	155.4	2303.59	.811	2.45	3.507
15:22:00	155.4	2303.59	.828	2.45	3.456
15:23:00	155.5	2303.61	.844	2.47	3.408
15:24:00	155.5	2303.61	.861	2.47	3.361
15:25:00	155.5	2303.61	.878	2.47	3.316
15:26:00	155.4	2303.61	.894	2.47	3.273
15:27:00	155.4	2303.61	.911	2.47	3.232
15:28:00	155.5	2303.63	.928	2.49	3.192
15:29:00	155.4	2303.61	.944	2.47	3.153
15:30:00	155.4	2303.61	.961	2.47	3.116
15:31:00	155.4	2303.62	.978	2.48	3.080
15:32:00	155.4	2303.62	.994	2.48	3.045
15:33:00	155.4	2303.63	1.011	2.49	3.011
15:34:00	155.4	2303.63	1.028	2.49	2.978
15:35:00	155.4	2303.62	1.044	2.48	2.947
15:36:00	155.5	2303.65	1.061	2.51	2.916
15:37:00	155.4	2303.63	1.078	2.49	2.887
15:38:00	155.4	2303.63	1.094	2.49	2.858
15:39:00	155.4	2303.65	1.111	2.51	2.830
15:40:00	155.5	2303.67	1.128	2.53	2.803
15:41:00	155.4	2303.64	1.144	2.50	2.777
15:42:00	155.5	2303.65	1.161	2.51	2.751
15:43:00	155.4	2303.65	1.178	2.51	2.726

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 19/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
15:44:00	155.4	2303.65	1.194	2.51	2.702
15:45:00	155.4	2303.65	1.211	2.51	2.679
15:46:00	155.4	2303.65	1.228	2.51	2.656
15:47:00	155.4	2303.66	1.244	2.52	2.634
15:48:00	155.4	2303.67	1.261	2.53	2.612
15:49:00	155.4	2303.66	1.278	2.52	2.591
15:50:00	155.4	2303.66	1.294	2.52	2.571
15:51:00	155.4	2303.67	1.311	2.53	2.551
15:52:00	155.4	2303.67	1.328	2.53	2.531
15:53:00	155.4	2303.65	1.344	2.51	2.512
15:54:00	155.4	2303.67	1.361	2.53	2.494
15:55:00	155.4	2303.67	1.378	2.53	2.476
15:56:00	155.4	2303.67	1.394	2.53	2.458
15:57:00	155.4	2303.67	1.411	2.53	2.441
15:58:00	155.4	2303.68	1.428	2.54	2.424
15:59:00	155.4	2303.68	1.444	2.54	2.408
16:00:00	155.4	2303.67	1.461	2.53	2.392
16:01:00	155.3	2303.67	1.478	2.53	2.376
16:02:00	155.4	2303.68	1.494	2.54	2.361
16:03:00	155.4	2303.68	1.511	2.54	2.346
16:04:00	155.4	2303.68	1.528	2.54	2.331
16:05:00	155.4	2303.68	1.544	2.54	2.317
16:06:00	155.4	2303.69	1.561	2.55	2.302
16:07:00	155.4	2303.69	1.578	2.55	2.289
16:08:00	155.4	2303.70	1.594	2.56	2.275
16:09:00	155.4	2303.70	1.611	2.56	2.262
16:10:00	155.3	2303.71	1.628	2.57	2.249
16:11:00	155.4	2303.71	1.644	2.57	2.236
16:12:00	155.4	2303.71	1.661	2.57	2.224
16:13:00	155.4	2303.71	1.678	2.57	2.212
16:14:00	155.4	2303.71	1.694	2.57	2.200
16:15:00	155.4	2303.71	1.711	2.57	2.188
16:16:00	155.3	2303.71	1.728	2.57	2.177
16:17:00	155.4	2303.71	1.744	2.57	2.166
16:18:00	155.4	2303.73	1.761	2.59	2.155
16:19:00	155.3	2303.71	1.778	2.57	2.144
16:20:00	155.4	2303.73	1.794	2.59	2.133
16:21:00	155.4	2303.73	1.811	2.59	2.123
16:22:00	155.3	2303.73	1.828	2.59	2.112
16:23:00	155.4	2303.72	1.844	2.58	2.102
16:24:00	155.4	2303.73	1.861	2.59	2.093
16:25:00	155.4	2303.73	1.878	2.59	2.083
16:26:00	155.3	2303.73	1.894	2.59	2.073
16:27:00	155.3	2303.73	1.911	2.59	2.064
16:28:00	155.3	2303.73	1.928	2.59	2.055
16:29:00	155.4	2303.75	1.944	2.61	2.046
16:30:00	155.3	2303.75	1.961	2.61	2.037
16:31:00	155.4	2303.75	1.978	2.61	2.028
16:32:00	155.4	2303.75	1.994	2.61	2.019
16:33:00	155.3	2303.74	2.011	2.60	2.011
16:34:00	155.3	2303.75	2.028	2.61	2.003
16:35:00	155.3	2303.75	2.044	2.61	1.995

GO INTERNATIONAL AUSTRALIA

dP/dT PLOT

Build-up

BEACH PETROLEUM

GRUMBY #1

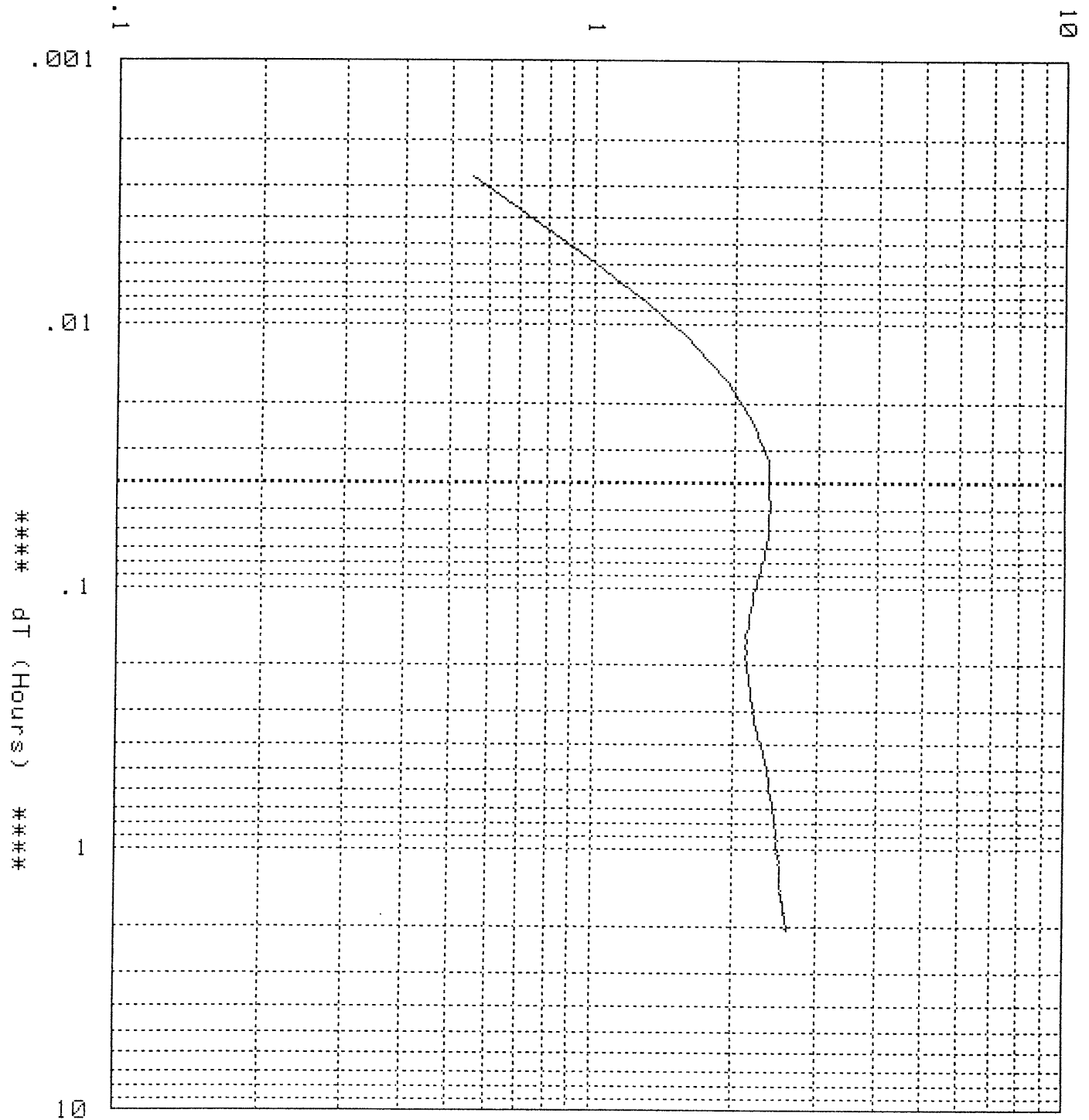
28/64 CHOKE

Time well flowed: 12:30:20 Date: 19/03/81

Time well shut in: 14:32:20 Date: 19/03/81

Time build-up completed: 16:35:00 Date: 19/03/81

\*\*\*\*\* dP (PSIA) \*\*\*\*\*



GO INTERNATIONAL AUSTRALIA

dP/dT PLOT

Drawdown

BEACH PETROLEUM

GRUMBY #1

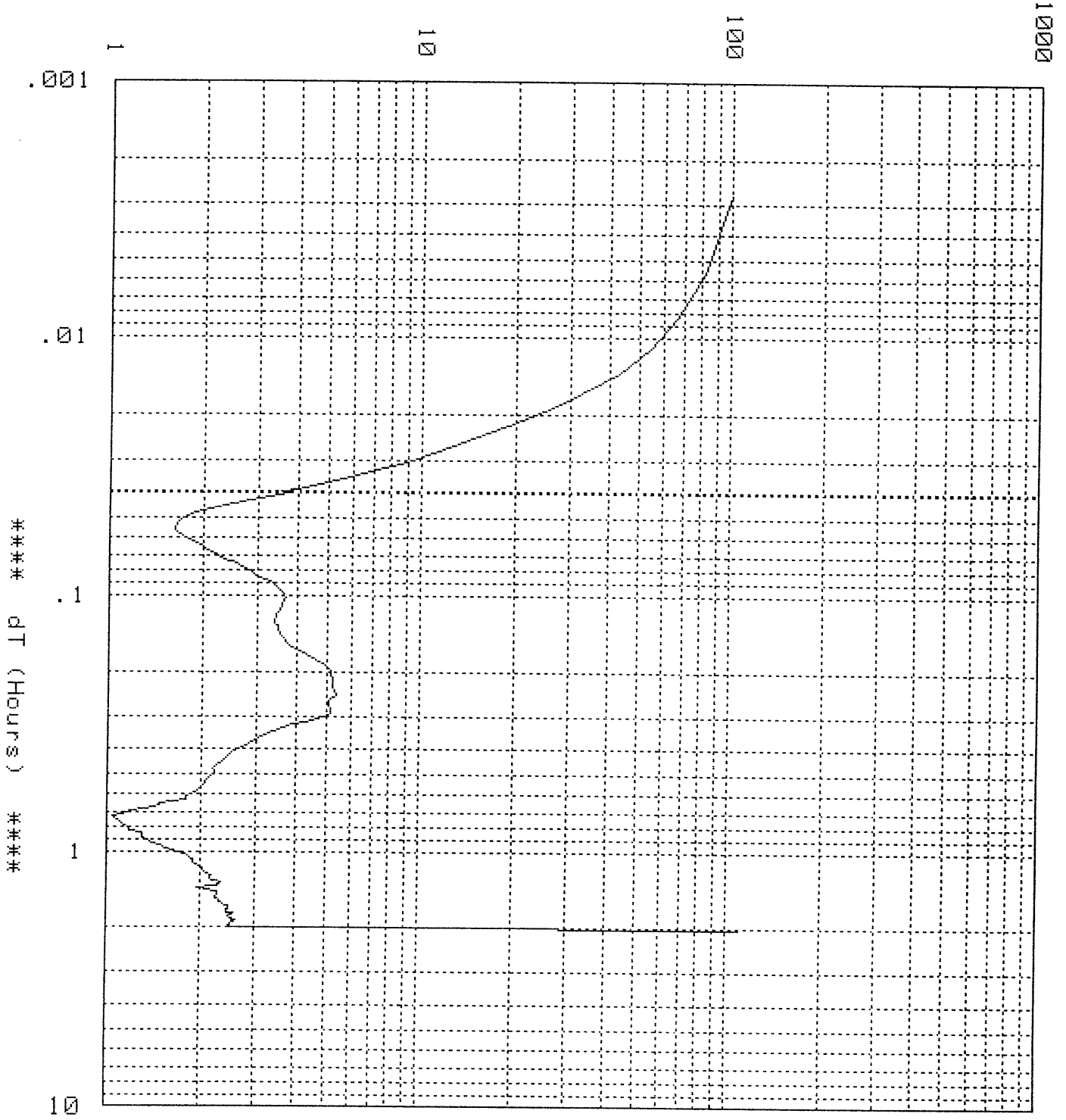
28/64 CHOKE

Time well flowed: 12:30:20 Date: 19/03/81

Time well shut in: 14:32:20 Date: 19/03/81

Time build-up completed: 16:35:00 Date: 19/03/81

\*\*\*\*\* dP (PSIA) \*\*\*\*\*



Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 19/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
12:30:30	155.0	2290.70	.003	99.70	733.000
12:30:40	154.4	2273.35	.006	82.35	367.000
12:30:50	153.6	2257.86	.008	66.86	245.000
12:31:00	153.3	2245.49	.011	54.49	184.000
12:31:10	153.8	2234.31	.014	43.31	147.400
12:31:20	154.3	2223.85	.017	32.85	123.000
12:31:30	154.6	2215.75	.019	24.75	105.571
12:31:40	154.7	2209.90	.022	18.90	92.500
12:31:50	154.8	2205.58	.025	14.58	82.333
12:32:00	154.8	2202.33	.028	11.33	74.200
12:32:10	154.8	2199.85	.031	8.85	67.545
12:32:20	154.8	2197.85	.033	6.85	62.000
12:32:30	154.7	2196.33	.036	5.33	57.308
12:32:40	154.6	2194.98	.039	3.98	53.286
12:32:50	154.6	2194.04	.042	3.04	49.800
12:33:00	154.5	2193.34	.044	2.34	46.750
12:33:10	154.5	2192.90	.047	1.90	44.059
12:33:20	154.5	2192.71	.050	1.71	41.667
12:33:30	154.5	2192.64	.053	1.64	39.526
12:33:40	154.4	2192.62	.056	1.62	37.600
12:33:50	154.4	2192.71	.058	1.71	35.857
12:34:00	154.4	2192.81	.061	1.81	34.273
12:34:10	154.4	2192.96	.064	1.96	32.826
12:34:20	154.3	2193.06	.067	2.06	31.500
12:34:30	154.3	2193.21	.069	2.21	30.280
12:34:40	154.3	2193.34	.072	2.34	29.154
12:34:50	154.3	2193.57	.075	2.57	28.111
12:35:00	154.3	2193.65	.078	2.65	27.143
12:35:10	154.3	2193.82	.081	2.82	26.241
12:35:20	154.3	2193.96	.083	2.96	25.400
12:35:30	154.2	2194.15	.086	3.15	24.613
12:35:40	154.2	2194.30	.089	3.30	23.875
12:35:50	154.2	2194.41	.092	3.41	23.182
12:36:00	154.2	2194.50	.094	3.50	22.529
12:36:10	154.2	2194.61	.097	3.61	21.914
12:36:20	154.2	2194.64	.100	3.64	21.333
12:36:30	154.2	2194.68	.103	3.68	20.784
12:36:40	154.2	2194.65	.106	3.65	20.263
12:36:50	154.2	2194.58	.108	3.58	19.769
12:37:00	154.2	2194.57	.111	3.57	19.300
12:37:10	154.1	2194.53	.114	3.53	18.854
12:37:20	154.2	2194.49	.117	3.49	18.429
12:37:30	154.1	2194.44	.119	3.44	18.023
12:37:40	154.2	2194.43	.122	3.43	17.636
12:37:50	154.2	2194.42	.125	3.42	17.267
12:38:00	154.2	2194.41	.128	3.41	16.913
12:38:10	154.2	2194.50	.131	3.50	16.574
12:38:20	154.2	2194.49	.133	3.49	16.250
12:38:30	154.2	2194.49	.136	3.49	15.939
12:38:40	154.1	2194.52	.139	3.52	15.640
12:38:50	154.1	2194.55	.142	3.55	15.353
12:39:00	154.1	2194.61	.144	3.61	15.077
12:39:10	154.1	2194.67	.147	3.67	14.811
12:39:20	154.1	2194.67	.150	3.67	14.556
12:39:30	154.1	2194.75	.153	3.75	14.309
12:39:40	154.1	2194.82	.156	3.82	14.071
12:39:50	154.1	2194.91	.158	3.91	13.842
12:40:00	154.1	2195.01	.161	4.01	13.621
12:40:30	154.2	2195.30	.169	4.30	13.000
12:41:00	154.2	2195.65	.178	4.65	12.438
12:41:30	154.2	2195.98	.186	4.98	11.925



Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 19/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
12:42:00	154.2	2196.14	.194	5.14	11.457
12:42:30	154.1	2196.16	.203	5.16	11.027
12:43:00	154.1	2196.23	.211	5.23	10.632
12:43:30	154.1	2196.25	.219	5.25	10.266
12:44:00	154.2	2196.27	.228	5.27	9.927
12:44:30	154.1	2196.30	.236	5.30	9.612
12:45:00	154.2	2196.38	.244	5.38	9.318
12:45:30	154.2	2196.14	.253	5.14	9.044
12:46:00	154.2	2196.09	.261	5.09	8.787
12:46:30	154.1	2196.09	.269	5.09	8.546
12:47:00	154.2	2196.14	.278	5.14	8.320
12:47:30	154.2	2196.14	.286	5.14	8.107
12:48:00	154.2	2196.06	.294	5.06	7.906
12:48:30	154.1	2195.71	.303	4.71	7.716
12:49:00	154.2	2195.29	.311	4.29	7.536
12:49:30	154.2	2194.89	.319	3.89	7.365
12:50:00	154.1	2194.62	.328	3.62	7.203
12:51:00	154.1	2194.25	.344	3.25	6.903
12:52:00	154.1	2194.04	.361	3.04	6.631
12:53:00	154.1	2193.85	.378	2.85	6.382
12:54:00	154.1	2193.66	.394	2.66	6.155
12:55:00	154.1	2193.51	.411	2.51	5.946
12:56:00	154.1	2193.43	.428	2.43	5.753
12:57:00	154.1	2193.34	.444	2.34	5.575
12:58:00	154.1	2193.23	.461	2.23	5.410
12:59:00	154.1	2193.17	.478	2.17	5.256
13:00:00	154.1	2193.19	.494	2.19	5.112
13:01:00	154.1	2193.14	.511	2.14	4.978
13:02:00	154.1	2193.08	.528	2.08	4.853
13:03:00	154.1	2193.06	.544	2.06	4.735
13:04:00	154.1	2192.99	.561	1.99	4.624
13:05:00	154.1	2192.93	.578	1.93	4.519
13:06:00	154.1	2192.83	.594	1.83	4.421
13:07:00	154.1	2192.79	.611	1.79	4.327
13:08:00	154.1	2192.78	.628	1.78	4.239
13:09:00	154.2	2192.46	.644	1.46	4.155
13:10:00	154.1	2192.46	.661	1.46	4.076
13:11:00	154.1	2192.31	.678	1.31	4.000
13:12:00	154.1	2192.17	.694	1.17	3.928
13:13:00	154.1	2192.11	.711	1.11	3.859
13:14:00	154.2	2192.03	.728	1.03	3.794
13:15:00	154.1	2192.05	.744	1.05	3.731
13:16:00	154.1	2192.09	.761	1.09	3.672
13:17:00	154.1	2192.11	.778	1.11	3.614
13:18:00	154.1	2192.15	.794	1.15	3.559
13:19:00	154.1	2192.18	.811	1.18	3.507
13:20:00	154.2	2192.17	.828	1.17	3.456
13:21:00	154.2	2192.29	.844	1.29	3.408
13:22:00	154.1	2192.29	.861	1.29	3.361
13:23:00	154.2	2192.29	.878	1.29	3.316
13:24:00	154.1	2192.36	.894	1.36	3.273
13:25:00	154.2	2192.37	.911	1.37	3.232
13:26:00	154.2	2192.40	.928	1.40	3.192
13:27:00	154.2	2192.48	.944	1.48	3.153
13:28:00	154.1	2192.52	.961	1.52	3.116
13:29:00	154.2	2192.56	.978	1.56	3.080
13:30:00	154.2	2192.65	.994	1.65	3.045
13:31:00	154.2	2192.68	1.011	1.68	3.011
13:32:00	154.2	2192.79	1.028	1.79	2.978
13:33:00	154.2	2192.80	1.044	1.80	2.947

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 19/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
13:34:00	154.2	2192.84	1.061	1.84	2.916
13:35:00	154.2	2192.89	1.078	1.89	2.887
13:36:00	154.2	2192.89	1.094	1.89	2.858
13:37:00	154.2	2192.89	1.111	1.89	2.830
13:38:00	154.3	2192.95	1.128	1.95	2.803
13:39:00	154.2	2192.97	1.144	1.97	2.777
13:40:00	154.3	2193.02	1.161	2.02	2.751
13:41:00	154.2	2193.03	1.178	2.03	2.726
13:42:00	154.2	2193.06	1.194	2.06	2.702
13:43:00	154.2	2193.06	1.211	2.06	2.679
13:44:00	154.2	2193.10	1.228	2.10	2.656
13:45:00	154.2	2193.17	1.244	2.17	2.634
13:46:00	154.3	2193.14	1.261	2.14	2.612
13:47:00	154.2	2193.15	1.278	2.15	2.591
13:48:00	154.3	2193.20	1.294	2.20	2.571
13:49:00	154.2	2193.22	1.311	2.22	2.551
13:50:00	154.3	2193.33	1.328	2.33	2.531
13:51:00	154.3	2193.27	1.344	2.27	2.512
13:52:00	154.3	2193.28	1.361	2.28	2.494
13:53:00	154.3	2193.21	1.378	2.21	2.476
13:54:00	154.2	2192.93	1.394	1.93	2.458
13:55:00	154.3	2193.13	1.411	2.13	2.441
13:56:00	154.3	2193.19	1.428	2.19	2.424
13:57:00	154.3	2193.26	1.444	2.26	2.408
13:58:00	154.3	2193.25	1.461	2.25	2.392
13:59:00	154.2	2193.25	1.478	2.25	2.376
14:00:00	154.3	2193.27	1.494	2.27	2.361
14:01:00	154.3	2193.24	1.511	2.24	2.346
14:02:00	154.3	2193.23	1.528	2.23	2.331
14:03:00	154.3	2193.28	1.544	2.28	2.317
14:04:00	154.3	2193.29	1.561	2.29	2.302
14:05:00	154.3	2193.30	1.578	2.30	2.289
14:06:00	154.3	2193.32	1.594	2.32	2.275
14:07:00	154.3	2193.35	1.611	2.35	2.262
14:08:00	154.3	2193.38	1.628	2.38	2.249
14:09:00	154.3	2193.48	1.644	2.48	2.236
14:10:00	154.3	2193.46	1.661	2.46	2.224
14:11:00	154.3	2193.46	1.678	2.46	2.212
14:12:00	154.3	2193.44	1.694	2.44	2.200
14:13:00	154.3	2193.44	1.711	2.44	2.188
14:14:00	154.4	2193.43	1.728	2.43	2.177
14:15:00	154.3	2193.43	1.744	2.43	2.166
14:16:00	154.3	2193.56	1.761	2.56	2.155
14:17:00	154.4	2193.51	1.778	2.51	2.144
14:18:00	154.4	2193.48	1.794	2.48	2.133
14:19:00	154.3	2193.48	1.811	2.48	2.123
14:20:00	154.3	2193.50	1.828	2.50	2.112
14:21:00	154.4	2193.53	1.844	2.53	2.102
14:22:00	154.3	2193.52	1.861	2.52	2.093
14:23:00	154.3	2193.60	1.878	2.60	2.083
14:24:00	154.3	2193.53	1.894	2.53	2.073
14:25:00	154.3	2193.51	1.911	2.51	2.064
14:26:00	154.4	2193.51	1.928	2.51	2.055
14:27:00	154.4	2193.50	1.944	2.50	2.046
14:28:00	154.3	2193.46	1.961	2.46	2.037
14:29:00	154.4	2193.43	1.978	2.43	2.028
14:29:40	154.3	2193.58	1.989	2.58	2.022
14:29:50	154.3	2193.59	1.992	2.59	2.021
14:30:00	154.4	2193.60	1.994	2.60	2.019
14:30:10	154.4	2193.60	1.997	2.60	2.018

Well Name: GRUMBY #1

Company: BEACH PETROLEUM Date: 19/03/81

Tool Positioned at a depth of: 1660

Time	Temperature	PSIA	Dt	Dp	T+Dt/Dt
14:30:20	154.3	2193.67	2.000	2.67	2.017
14:30:30	154.7	2210.07	2.003	19.07	2.015
14:30:40	155.7	2234.15	2.006	43.15	2.014
14:30:50	156.3	2253.75	2.008	62.75	2.012
14:31:00	156.7	2269.62	2.011	78.62	2.011
14:31:10	156.8	2281.36	2.014	90.36	2.010
14:31:20	157.0	2289.20	2.017	98.20	2.008
14:31:30	157.0	2294.00	2.019	103.00	2.007
14:31:40	156.9	2296.73	2.022	105.73	2.005
14:31:50	156.9	2298.42	2.025	107.42	2.004
14:32:00	156.9	2299.58	2.028	108.58	2.003
14:32:10	156.8	2300.45	2.031	109.45	2.001
14:32:20	156.8	2301.14	2.033	110.14	2.000

GO INTERNATIONAL AUSTRALIA PTY. LTD.

COMPANY..BEACH PETROLEUM

STATE...VICTORIA

FIELD....GRUMBY

WELL....#1

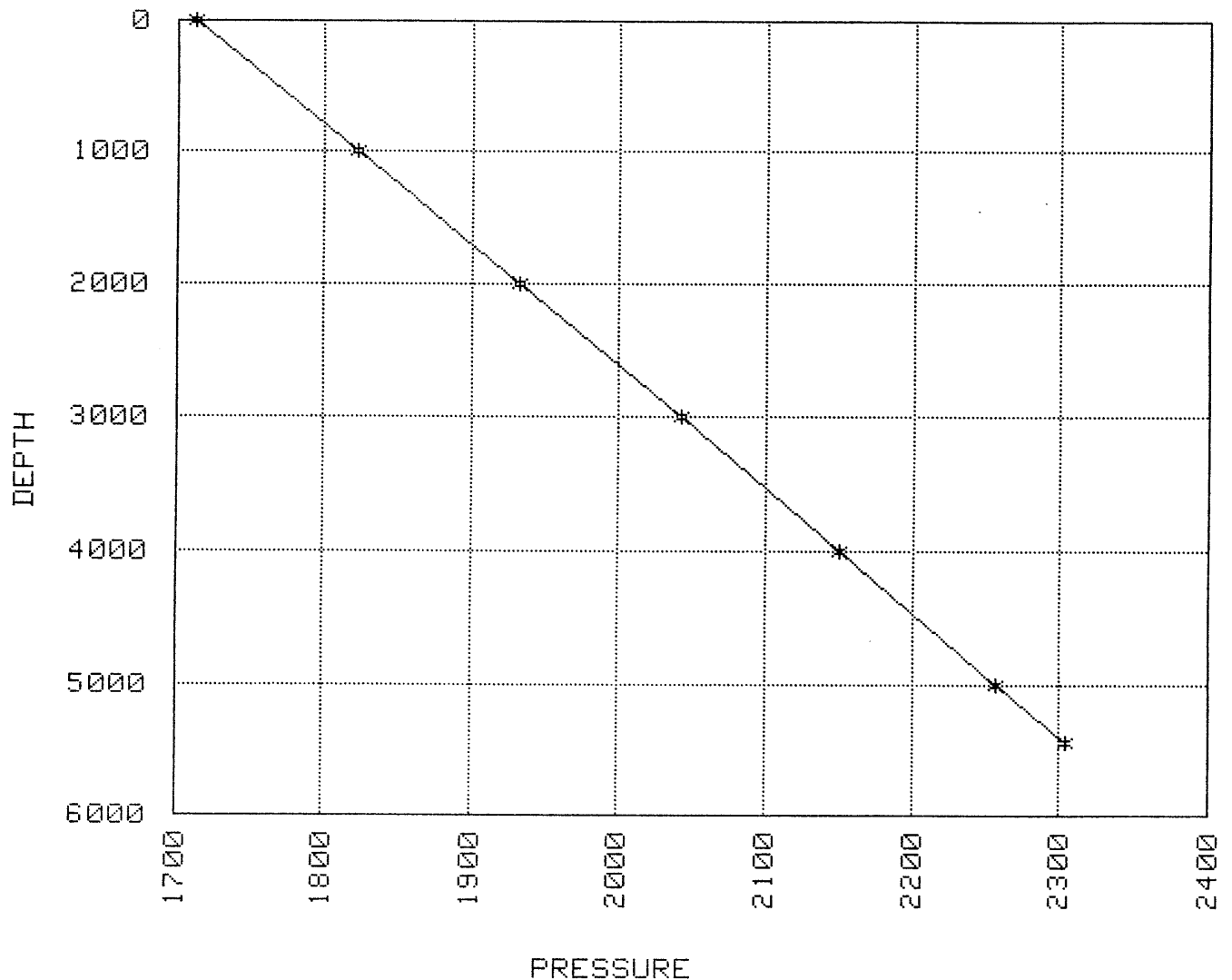
DATE.....19/03/81

PURPOSE.....GRADIENT

ELEMENT.....H.P.PROBE

SERIAL No...509

GRADIENT PLOT



DEPTH (TVD) FT	PRESSURE	GRADIENT (PSI/FT.)
0.0	1713.24	
1000.6	1823.32	.110
1998.0	1932.99	.110
2998.7	2041.81	.109
3999.3	2150.12	.108
4999.9	2257.06	.107
5446.1	2303.75	.105

GO INTERNATIONAL AUSTRALIA PTY. LTD.  
P.O. BOX 380  
SALE, VICTORIA 3850

BEACH PETROLEUM N.L.

EXPLORATION

GRUMBY NO. 1  
March 18, 1981

Type of Test: Isochronal

<u>HOURS</u>	<u>TUBING PRESS</u>	<u>CASING PRESS</u>	<u>WELL HEAD TEMP</u>	<u>DIFF PRESS H2O X2</u>	<u>STATIC PRESS</u>	<u>SEPARATOR TEMP F°</u>	<u>GAS VOLUME MCF/DAY</u>	<u>ORIFICE PLATE</u>	
March 18, 1981									
0700	Run in hole and hang @ 1660 metres								
0955	1697	200							
1000	Flow well on 18/64 choke and 1.5 orifice								
1010	1655								
1015	1653			73.00	465	25			
1030	1652	420	70	73.00	460	26			
1045	1657	450	74	73.40	465	27	Co2 53%		
1100	1660	480	75	72.00	465	28			
1115	1663	500	77	73.20	455	27			
1130	1664	510	77	72.00	457	25			
1145	1665	525	78	72.00	457	25			
1200	1667	550	79	72.50	450	27			
1215	1669	560	79	71.00	465	28	3.96 MMCD/DAY		
1230	1670	590	80	Shut in well					
1235	1715	590	80						
1240	1713	564	80						
1245	1713	565	80						
1300	1709	480	80						
1330	1705	420	79						
1430	1704	400	78						
1500	1704	375	77	Flow well on 22/64 choke					
1505	1616	375	76						
1510	1618	380	76						
1515	1620	395	76	90.00	525	33			
1530	1620	410	76	92.00	525	32			
1545	1618	475	75	94.80	510	28			
1600	1699	495	75	96.50	510	27			
1615	1620	500	76	96.50	510	27			
1630	1620	550	75	89.00	555	23	4.9 MMCF/DAY		
1645	1622	550	75	87.00	585	36			
1700	1622	580	75	96.00	485	31			
1715	1622	600	75	85.80	640	39			
1730	1620	600	76	85.80	640	39	Shut in well		
1735	1723	600	76						
1740	1720	600	75						
1745	1718	595	74						
1800	1715	530	70						
1815	1713	490	69						
1900	1710	480	64						
2000	1705	340							
2100	1704	300							
2200	1703								
2400	1792								

GO INTERNATIONAL AUSTRALIA PTY. LTD.

BEACH PETROLEUM N.L.

GRUMBY NO. 1

HOURS	TUBING PRESS	CASING PRESS	WELL HEAD TEMP	DIFF PRESS H2O X2	STATIC PRESS	SEPARATOR TEMP F <sup>o</sup>	GAS VOLUME MCF/DAY	ORIFICE PLATE
March 19, 1981								
0200	1702							
0400	1701							
0600	1700	280						
0800	1698	280						
1230	1698	280		Flow well on 28/64 choke				2.00 inch
1235	1515	300	68					
1240	1519	310	67					
1245	1522	330	68	85.00	360	22		
1300	1515	400	73	94.70	337	19		
1315	1512	450	74	93.80	352	21	7.62 MMCF/DAY	
1330	1513	490	73	97.00	315	17		
1345	1514	500	74	93.00	385	20	53 CO2	
1400	1514	540	72	89.00	405	25		
1415	1515	590	74	85.00	535	28	8.88 MMCF/DAY	
1430	1515	600	74	78.5	585	34	Shut in well	
1435	1727	600	73					
1440	1721	600	73					
1445	1719	600	71					
1500	1715	550	70					
1520	1713							
1530	1710							
1635	Pull up hole first gradient							
1652	Hang at 1524 metres							
1730	Hang at 1219 metres							
1808	Hang at 914 metres							
1848	Hang at 609 metres							
1935	Hang in lubricator							
2050	Shut in well bleed down							

ENCLOSURES:

PE601394

This is an enclosure indicator page.  
The enclosure PE601394 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE601394 has the following characteristics:

ITEM\_BARCODE = PE601394  
CONTAINER\_BARCODE = PE902706  
NAME = Composite Well Log  
BASIN = OTWAY  
PERMIT = PEP 93  
TYPE = WELL  
SUBTYPE = COMPOSITE\_LOG  
DESCRIPTION = Composite Well Log (enclosure from WCR)  
for Grumby-1  
REMARKS =  
DATE\_CREATED = 14/03/81  
DATE\_RECEIVED =  
W\_NO = W737  
WELL\_NAME = Grumby-1  
CONTRACTOR = Schlumberger  
CLIENT\_OP\_CO = Beach Petroleum NL

(Inserted by DNRE - Vic Govt Mines Dept)



PE601395

This is an enclosure indicator page.  
The enclosure PE601395 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE601395 has the following characteristics:

ITEM\_BARCODE = PE601395  
CONTAINER\_BARCODE = PE902706  
    NAME = Exploration Logging Mudlog  
    BASIN = OTWAY  
    PERMIT = PEP 93  
    TYPE = WELL  
    SUBTYPE = MUD\_LOG  
DESCRIPTION = Exploration Logging Mudlog (enclosure  
              from WCR) for Grumby-1  
REMARKS =  
DATE\_CREATED = 7/03/81  
DATE\_RECEIVED =  
    W\_NO = W737  
    WELL\_NAME = Grumby-1  
CONTRACTOR = Exploration Logging  
CLIENT\_OP\_CO = Beach Petroleum NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE601396

This is an enclosure indicator page.  
The enclosure PE601396 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE601396 has the following characteristics:

ITEM\_BARCODE = PE601396  
CONTAINER\_BARCODE = PE902706  
NAME = Dual Laterolog Micro Spherically  
Focused Log  
BASIN = OTWAY  
PERMIT = PEP 93  
TYPE = WELL  
SUBTYPE = WELL\_LOG  
DESCRIPTION = Dual Laterolog Micro Spherically  
Focused Log, 1:200, (enclosure from  
WCR) for Grumby-1  
REMARKS =  
DATE\_CREATED = 7/03/81  
DATE\_RECEIVED =  
W\_NO = W737  
WELL\_NAME = Grumby-1  
CONTRACTOR = Schlumberger  
CLIENT\_OP\_CO = Beach Petroleum NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE601397

This is an enclosure indicator page.  
The enclosure PE601397 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE601397 has the following characteristics:

ITEM\_BARCODE = PE601397  
CONTAINER\_BARCODE = PE902706  
NAME = Dual Laterolog Micro Spherically  
Focused Log  
BASIN = OTWAY  
PERMIT = PEP 93  
TYPE = WELL  
SUBTYPE = WELL\_LOG  
DESCRIPTION = Dual Laterolog Micro Spherically  
Focused Log, 1:500, (enclosure from  
WCR) for Grumby-1  
REMARKS =  
DATE\_CREATED = 7/03/81  
DATE\_RECEIVED =  
W\_NO = W737  
WELL\_NAME = Grumby-1  
CONTRACTOR = Schlumberger  
CLIENT\_OP\_CO = Beach Petroleum NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE601398

This is an enclosure indicator page.  
The enclosure PE601398 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE601398 has the following characteristics:

ITEM\_BARCODE = PE601398  
CONTAINER\_BARCODE = PE902706  
NAME = Borehole Compensated Sonic Log  
BASIN = OTWAY  
PERMIT = PEP 93  
TYPE = WELL  
SUBTYPE = WELL\_LOG  
DESCRIPTION = Borehole Compensated Sonic Log, 1:200  
(enclosure from WCR) for Grumby-1  
REMARKS =  
DATE\_CREATED = 7/03/81  
DATE\_RECEIVED =  
W\_NO = W737  
WELL\_NAME = Grumby-1  
CONTRACTOR = Schlumberger  
CLIENT\_OP\_CO = Beach Petroleum NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE601399

This is an enclosure indicator page.  
The enclosure PE601399 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE601399 has the following characteristics:

ITEM\_BARCODE = PE601399  
CONTAINER\_BARCODE = PE902706  
NAME = Borehole Compensated Sonic Log  
BASIN = OTWAY  
PERMIT = PEP 93  
TYPE = WELL  
SUBTYPE = WELL\_LOG  
DESCRIPTION = Borehole Compensated Sonic Log, 1:500  
(enclosure from WCR) for Grumby-1  
REMARKS =  
DATE\_CREATED = 7/03/81  
DATE\_RECEIVED =  
W\_NO = W737  
WELL\_NAME = Grumby-1  
CONTRACTOR = Schlumberger  
CLIENT\_OP\_CO = Beach Petroleum NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE602492

This is an enclosure indicator page.  
The enclosure PE602492 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE602492 has the following characteristics:

- ITEM\_BARCODE = PE602492
- CONTAINER\_BARCODE = PE902706
- NAME = Compensated Neutron Formation Density
- BASIN = OTWAY
- PERMIT = PEP 93
- TYPE = WELL
- SUBTYPE = WELL\_LOG
- DESCRIPTION = Compensated Neutron Formation Density,  
1:500, (enclosure from WCR) for  
Grumby-1
- REMARKS =
- DATE\_CREATED = 7/03/81
- DATE\_RECEIVED = 3/07/81
- W\_NO = W737
- WELL\_NAME = Grumby-1
- CONTRACTOR = Schlumberger
- CLIENT\_OP\_CO = Beach Petroleum NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE601400

This is an enclosure indicator page.  
The enclosure PE601400 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE601400 has the following characteristics:

- ITEM\_BARCODE = PE601400
- CONTAINER\_BARCODE = PE902706
- NAME = Compensated Neutron Formation Density
- BASIN = OTWAY
- PERMIT = PEP 93
- TYPE = WELL
- SUBTYPE = WELL\_LOG
- DESCRIPTION = Compensated Neutron Formation Density,  
1:200, (enclosure from WCR) for  
Grumby-1
- REMARKS =
- DATE\_CREATED = 7/03/81
- DATE\_RECEIVED = 11/03/81
- W\_NO = W737
- WELL\_NAME = Grumby-1
- CONTRACTOR = Schlumberger
- CLIENT\_OP\_CO = Beach Petroleum NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE902708

This is an enclosure indicator page.  
The enclosure PE902708 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE902708 has the following characteristics:

ITEM\_BARCODE = PE902708  
CONTAINER\_BARCODE = PE902706  
NAME = Repeat Formation Tester  
BASIN = OTWAY  
PERMIT = PEP 93  
TYPE = WELL  
SUBTYPE = RFT  
DESCRIPTION = Repeat Formation Tester (enclosure from  
WCR) for Grumby-1  
REMARKS =  
DATE\_CREATED = 9/03/81  
DATE\_RECEIVED = 3/07/81  
W\_NO = W737  
WELL\_NAME = Grumby-1  
CONTRACTOR = Schlumberger  
CLIENT\_OP\_CO = Beach Petroleum NL

(Inserted by DNRE - Vic Govt Mines Dept)



PE601401

This is an enclosure indicator page.  
The enclosure PE601401 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE601401 has the following characteristics:

ITEM\_BARCODE = PE601401  
CONTAINER\_BARCODE = PE902706  
NAME = Cement Bond Log  
BASIN = OTWAY  
PERMIT = PEP 93  
TYPE = WELL  
SUBTYPE = WELL\_LOG  
DESCRIPTION = Cement Bond Log, 1:200, (enclosure from  
WCR) for Grumby-1  
REMARKS =  
DATE\_CREATED = 12/03/81  
DATE\_RECEIVED = 3/07/81  
W\_NO = W737  
WELL\_NAME = Grumby-1  
CONTRACTOR = Schlumberger  
CLIENT\_OP\_CO = Beach Petroleum NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE601402

This is an enclosure indicator page.  
The enclosure PE601402 is enclosed within the  
container PE902706 at this location in this  
document.

The enclosure PE601402 has the following characteristics:

- ITEM\_BARCODE = PE601402
- CONTAINER\_BARCODE = PE902706
- NAME = Casing Collar Log and Perforating  
Record
- BASIN = OTWAY
- PERMIT = PEP 93
- TYPE = WELL
- SUBTYPE = WELL\_LOG
- DESCRIPTION = Casing Collar Log and Perforating  
Record, 1:200, (enclosure from WCR) for  
Grumby-1
- REMARKS =
- DATE\_CREATED = 12/03/81
- DATE\_RECEIVED = 16/03/81
- W\_NO = W737
- WELL\_NAME = Grumby-1
- CONTRACTOR = Schlumberger
- CLIENT\_OP\_CO = Beach Petroleum NL

(Inserted by DNRE - Vic Govt Mines Dept)