

A. A. P.
MASTER LOG
 WELL: **MOYLE I.**
 PERMIT: **OP 2**
 MUD LOGGING COMPANY: **GEOSERVICES**
 DATE: **27-7-66**

Thomas DePal
NORTHERN TERRITORY GEOLOGICAL SURVEY
 LOG No. **1**
 STATE: **NORTHERN TERRITORY**
 WELL SITE GEOLOGIST: **F. BROPHY**
 SCALE: 1" = 50'
 DEPTH: **0** ft. **500** ft.
 FROM **0** m. TO **500** m.

D R I L L I N G & M U D

New Bit W Weight on bit in tons
 RRB Rerun Bit r.p.m. Rotation
 C Conventional Bit FR Flow Rate
 J Jet Bit
 DB Diamond Bit S Salinity
 TB Turbo Bit F.C. Filter Cake
 CB Core Bit Rmf. Mud Filtrate Resistivity
 DCB Diamond Core Bit

L I T H O L O G I C A L

Soil cover, Fe ss, Argillite, sand
 Sandstone medium gr
 Sandstone fine gr
 Shale Silty
 Shale Silty carbonaceous

Feldspar
 Mica
 Pyrite
 Glauconite
 Iron

E N G I N E E R I N G

Location: Lat. 14° 19' 10" Long. 129° 46' 30"
 Elevation: Reference: Ground: 185.7'
 Date spudded: **27-7-66**
 Hole size: **12 1/4** Ins. From **0** To **500**'
 Casing: Ins. Depth Cem't'd to

D R I L L I N G D A T A

DATE	BIT TYPE, SIZE, REMARKS, CASING HOLE SIZE, PLUGS & PERF.	MUD	DRILLING RATE	DEPTH
27-7-66	Huanes OSC 3 jet 12 1/4"	2-4T 150 RPM 1800 R/m		00
28-7-66	25 above	10 T 120 RPM 1800 R/m		50
29-7-66	XSD 24 5/8"	41 70 RPM Top 2/m 4-10 T 130 RPM 1800 R/m		100

G E O L O G I C A L D A T A

DEPTH	CUTTINGS LOG	CORES	CUTTINGS ANALYSIS	HYDROCARBON OCCURENCES						FOSSILS & DIPS	DETAILED LITHOLOGY	DEPTH	LITHOLOGY, TESTS, REMARKS	STRATIGRAPHY		
				IN MUD			IN CUTTINGS		IN CORES					FORMATION	AGE	
				GAS			OIL		OIL							
				CHROMATOLOG %	Methane Ethane Propane		CCL 4	LIVE	CCL 4							LIVE
00	Weathered Fe rich topsoil with "loam"			NO GAS RECORDED								00	TOP 60' (approx) Soil cover including lateritized zone, red mudstone, Fe sandstone & sand Fe fragments; rare fresh S.S.			
50										50	(60'-132')	Sandstone sfy grey, yellow (where weathered) well sorted quartz grs, subangular-subrounded weakly cemented argillaceous occasional mica; weathered, friable, porous				
100										100		interbeds of brown poorly sorted medium grain ferruginous sandstone, sometimes microangular-metach				
150										150						
200										200		(132'-375')	Sandstone medium grained, light fawn to grey well sorted 95% rounded subrounded quartz cement white argillaceous 5%, increasing to 20% towards base (at 320) rare mica porous friable traces of Fe ss, some pyrite			
250										250						
300										300						
350										350						
400										400			(375'-500')	Silty shale greenish grey, v soft. pyritic micaceous less carbonaceous Some dark mineral rare feldspar poor sorting, apparent laminations more a mudstone than shale in parts		
450										450						
500										500						

KULSHILL FORMATION
 GREYWACKES MEMBER
 LOWER PERMIAN

A. A. P. *2266/90*
MASTER LOG **NORTHERN TERRITORY GEOLOGICAL SURVEY**
MOYLE I. LOG No. **2**
 PERMIT: **OP 2** STATE: **NORTHERN TERRITORY**
 MUD LOGGING COMPANY: **GEOSERVICES** WELL SITE GEOLOGIST: **F. BROPHY**
 DATE: *29-7-66* SCALE: 1" = 50' 1:600 DEPTH: *500* ft. *1000* ft.
 FROM _____ m. TO _____ m.

D R I L L I N G & M U D

New Bit W Weight on bit in tons
 RRB Rerun Bit r.p.m. Rotation
 C Conventional Bit FR Flow Rate
 J Jet Bit
 DB Diamond Bit S Salinity
 TB Turbo Bit FC. Filter Cake
 CB Core Bit Rmf. Mud Filtrate Resistivity
 DCB Diamond Core Bit

L I T H O L O G I C A L

Tillite (poorly sorted silty shale) Feldspar
 Silty shale Mica
 Silty shale carbonaceous Pyrite
 Coal Glaucconite
 Calcareous Sandstone
 Sandstone with lithic fragments

E N G I N E E R I N G

Location: Lat. 14° 19' 10" Long. 129° 46' 30"
 Elevation: Reference: _____ Ground: 185.7'
 Date spudded: *27-7-66*
 Hole size: 12 1/4 Ins. From 0' To 1000'
 Casing: _____ Ins. Depth _____ Cem't'd to _____

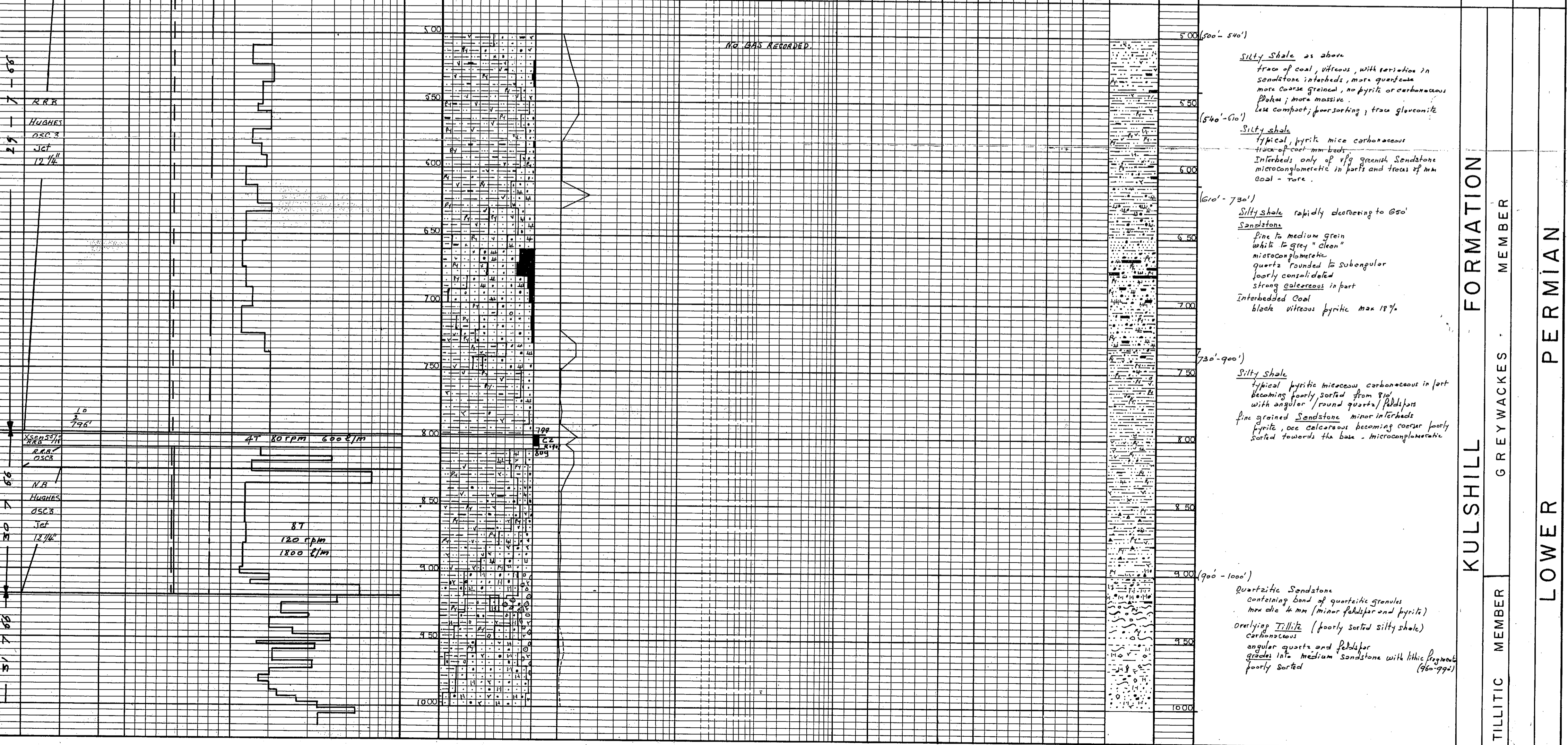
D R I L L I N G D A T A

DATE: _____
 BIT TYPE, SIZE, REMARKS, CASING HOLE SIZE, PLUGS & PERF., DEVIATION, MUD (Volume loss gain, Weight, Viscosity, Filter loss), DRILLING RATE (min/ft)

G E O L O G I C A L D A T A

CUTTINGS LOG (%), CORES (DEPTH RECOV. TESTS), CUTTINGS ANALYSIS (Calcimetry, Dolomimetry, Sand Ratio), HYDROCARBON OCCURENCES (IN MUD: GAS CHROMATOLOG %, OIL; IN CUTTINGS: OIL; IN CORES: OIL), FOSSILS & DIPS, DETAILED LITHOLOGY

L I T H O L O G Y , T E S T S , R E M A R K S
S T R A T I G R A P H Y
 FORMATION, AGE



KULSHILL FORMATION
 GREYWACKES MEMBER
 LOWER PERMIAN

A. A. P.
MASTER LOG NORTHERN TERRITORY GEOLOGICAL SURVEY
 WELL: **MOYLE I.** LOG No. **3**
 PERMIT: **OP 2** STATE: **NORTHERN TERRITORY**
 MUD LOGGING COMPANY: **GEOSERVICES** WELL SITE GEOLOGIST: **F BROPHY**
 DATE: **31-7-66** SCALE: 1" = 50' 1:600 DEPTH: **1000** ft. **1500** ft.
 FROM m. TO m.

L E M U D
 New Bit W Weight on bit in tons
 RRB Rerun Bit r.p.m. Rotation
 C Conventional Bit FR Flow Rate
 J Jet Bit
 DB Diamond Bit S Salinity
 TB Turbo Bit F.C. Filter Cake
 CB Core Bit Rmf. Mud Filtrate Resistivity
 DCB Diamond Core Bit

G E N D
L I T H O L O G I C A L
 Silty Shale
 Silicified Sandstone
 Calcareous Sandstone
 Tillite
 Microconglomerate
 Feldspar
 Mica
 Pyrite
 Carbonaceous material
 Calcite veinlet

E N G I N E E R I N G
 Location: Lat. 14° 19' 10" Long. 129° 46' 30"
 Elevation: Reference: Ground:
 Date spudded: **27 7 66**
 Hole size: **8 3/4"** Ins. From **1016'** To **1500'**
 Casing: **9 5/8"** Ins. Depth **1016** Cem't'd to

DRILLING DATA

DATE	BIT TYPE, SIZE, REMARKS	CASING HOLE SIZE	PLUGS & PERF.	DEVIATION	MUD		DRILLING RATE		DEPTH
					Volume loss gain	Weight	min/ft		
31-7-66	RRB 8 3/4"	8 3/4"			3T	80 RPM	100	2 1/2	1000
31-7-66	NB HUGHES DWV-R 8 3/4"	8 3/4"				90 RPM	1500	2 1/2	1027
31-7-66	RRB 8 3/4"	8 3/4"			3-T	70 RPM	100	2 1/2	1227
31-7-66	NB DWV 8 3/4"	8 3/4"				10 RPM	100	2 1/2	1427

G E O L O G I C A L D A T A

DEPTH	CUTTINGS LOG %	CORES RECOV. TESTS	CUTTINGS ANALYSIS	HYDROCARBON OCCURENCES		FOSSILS & DIPS	DETAILED LITHOLOGY	DEPTH	LITHOLOGY, TESTS, REMARKS		STRATIGRAPHY	
				IN MUD					IN CUTTINGS		FORMATION	AGE
				GAS					OIL			
				CHROMATOLOG %								
1000								1000	(1000') Sandy Tillite			
1027								1027	No cuttings or cores between 1027'			
1140								1140	(1140'-1280') Microconglomeratic Sandstone / Siltstone			
1227								1227				
1280								1280				
1300								1300	(1280'-1500') Tillite			
1350								1350				
1427								1427				
1500								1500				

DRILLING DATA

Volume loss gain: 0-15
 Weight: 0-150
 Viscosity: 50-130
 Filter loss: 0-80

min/ft: 0-89

DRILLING RATE: 0-89

DEPTH: 0-1500

CUTTINGS LOG: 0-80

CUTTINGS ANALYSIS: Calcimetry, Dolomimetry, Sand Ratio

HYDROCARBON: GAS (Methane, Ethane, Propane), OIL (CCL4, LIVE)

FOSSILS & DIPS: TRACE, FAIR, GOOD

DETAILED LITHOLOGY: (1000') Sandy Tillite, (1140'-1280') Microconglomeratic Sandstone / Siltstone, (1280'-1500') Tillite

STRATIGRAPHY: FORMATION, AGE

PR 66/9

A. A. P.
MASTER LOG NORTHERN TERRITORY GEOLOGICAL SURVEY
WELL: **MOYLE I.** LOG No. **4**
PERMIT: OP 2 **STATE:** NORTHERN TERRITORY
MUD LOGGING COMPANY: GEOSERVICES **WELL SITE GEOLOGIST:** F. BROPHY
DATE: 7-8-66 **SCALE:** 1" = 50' 1:600 **DEPTH:** 1500 ft. 1767 ft.
 FROM _____ m. TO _____ m.

D R I L L I N G & M U D

MB New Bit W Weight on bit in tons
 RRB Rerun Bit r.p.m. Rotation
 C Conventional Bit FR Flow Rate
 J Jet Bit
 DB Diamond Bit S Salinity
 TB Turbo Bit F.C. Filter Cake
 CB Core Bit Rmf. Mud Filtrate Resistivity
 DCB Diamond Core Bit

L I T H O L O G I C A L

Tillite
 Metadolomite

E N G I N E E R I N G

Location: Lat. 14° 19' 10" Long. 129° 46' 30"
 Elevation: Reference: Ground:
 Date spudded: 27 7 66
 Hole size: 8 3/4" Ins. From 1500' To 1767'
 Casing: 9 5/8" Ins. Depth 1012' Cem't'd to

D R I L L I N G D A T A

DATE	BIT TYPE, SIZE, REMARKS	CASING HOLE SIZE	PLUGS & PERF.	DEVIATION	MUD		DRILLING RATE	
					Volume loss gain	min/ft		
6-8-66	NR Reed YHR 8 3/4"							
7-8-66	NR Reed YSL 8 3/4"							
8-8-66	NR Reed YSL 8 3/4"							
9-8-66	NR Reed YSL 8 3/4"							
10-8-66	NR Reed YSL 8 3/4"							
11-8-66	NR Reed YSL 8 3/4"							
12-8-66	NR Reed YSL 8 3/4"							
13-8-66	NR Reed YSL 8 3/4"							
14-8-66	NR Reed YSL 8 3/4"							
15-8-66	NR Reed YSL 8 3/4"							
16-8-66	NR Reed YSL 8 3/4"							
17-8-66	NR Reed YSL 8 3/4"							
18-8-66	NR Reed YSL 8 3/4"							
19-8-66	NR Reed YSL 8 3/4"							
20-8-66	NR Reed YSL 8 3/4"							
21-8-66	NR Reed YSL 8 3/4"							
22-8-66	NR Reed YSL 8 3/4"							
23-8-66	NR Reed YSL 8 3/4"							
24-8-66	NR Reed YSL 8 3/4"							
25-8-66	NR Reed YSL 8 3/4"							
26-8-66	NR Reed YSL 8 3/4"							
27-8-66	NR Reed YSL 8 3/4"							
28-8-66	NR Reed YSL 8 3/4"							
29-8-66	NR Reed YSL 8 3/4"							
30-8-66	NR Reed YSL 8 3/4"							
31-8-66	NR Reed YSL 8 3/4"							
32-8-66	NR Reed YSL 8 3/4"							
33-8-66	NR Reed YSL 8 3/4"							
34-8-66	NR Reed YSL 8 3/4"							
35-8-66	NR Reed YSL 8 3/4"							
36-8-66	NR Reed YSL 8 3/4"							
37-8-66	NR Reed YSL 8 3/4"							
38-8-66	NR Reed YSL 8 3/4"							
39-8-66	NR Reed YSL 8 3/4"							
40-8-66	NR Reed YSL 8 3/4"							
41-8-66	NR Reed YSL 8 3/4"							
42-8-66	NR Reed YSL 8 3/4"							
43-8-66	NR Reed YSL 8 3/4"							
44-8-66	NR Reed YSL 8 3/4"							
45-8-66	NR Reed YSL 8 3/4"							
46-8-66	NR Reed YSL 8 3/4"							
47-8-66	NR Reed YSL 8 3/4"							
48-8-66	NR Reed YSL 8 3/4"							
49-8-66	NR Reed YSL 8 3/4"							
50-8-66	NR Reed YSL 8 3/4"							
51-8-66	NR Reed YSL 8 3/4"							
52-8-66	NR Reed YSL 8 3/4"							
53-8-66	NR Reed YSL 8 3/4"							
54-8-66	NR Reed YSL 8 3/4"							
55-8-66	NR Reed YSL 8 3/4"							
56-8-66	NR Reed YSL 8 3/4"							
57-8-66	NR Reed YSL 8 3/4"							
58-8-66	NR Reed YSL 8 3/4"							
59-8-66	NR Reed YSL 8 3/4"							
60-8-66	NR Reed YSL 8 3/4"							
61-8-66	NR Reed YSL 8 3/4"							
62-8-66	NR Reed YSL 8 3/4"							
63-8-66	NR Reed YSL 8 3/4"							
64-8-66	NR Reed YSL 8 3/4"							
65-8-66	NR Reed YSL 8 3/4"							
66-8-66	NR Reed YSL 8 3/4"							
67-8-66	NR Reed YSL 8 3/4"							
68-8-66	NR Reed YSL 8 3/4"							
69-8-66	NR Reed YSL 8 3/4"							
70-8-66	NR Reed YSL 8 3/4"							
71-8-66	NR Reed YSL 8 3/4"							
72-8-66	NR Reed YSL 8 3/4"							
73-8-66	NR Reed YSL 8 3/4"							
74-8-66	NR Reed YSL 8 3/4"							
75-8-66	NR Reed YSL 8 3/4"							
76-8-66	NR Reed YSL 8 3/4"							
77-8-66	NR Reed YSL 8 3/4"							
78-8-66	NR Reed YSL 8 3/4"							
79-8-66	NR Reed YSL 8 3/4"							
80-8-66	NR Reed YSL 8 3/4"							
81-8-66	NR Reed YSL 8 3/4"							
82-8-66	NR Reed YSL 8 3/4"							
83-8-66	NR Reed YSL 8 3/4"							
84-8-66	NR Reed YSL 8 3/4"							
85-8-66	NR Reed YSL 8 3/4"							
86-8-66	NR Reed YSL 8 3/4"							
87-8-66	NR Reed YSL 8 3/4"							
88-8-66	NR Reed YSL 8 3/4"							
89-8-66	NR Reed YSL 8 3/4"							
90-8-66	NR Reed YSL 8 3/4"							
91-8-66	NR Reed YSL 8 3/4"							
92-8-66	NR Reed YSL 8 3/4"							
93-8-66	NR Reed YSL 8 3/4"							
94-8-66	NR Reed YSL 8 3/4"							
95-8-66	NR Reed YSL 8 3/4"							
96-8-66	NR Reed YSL 8 3/4"							
97-8-66	NR Reed YSL 8 3/4"							
98-8-66	NR Reed YSL 8 3/4"							
99-8-66	NR Reed YSL 8 3/4"							
100-8-66	NR Reed YSL 8 3/4"							

G E O L O G I C A L D A T A

DEPTH	CUTTINGS LOG	CORES	CUTTINGS ANALYSIS	HYDROCARBON OCCURENCES			FOSSILS & DIPS	DETAILED LITHOLOGY	DEPTH	LITHOLOGY, TESTS, REMARKS	STRATIGRAPHY				
				IN MUD		IN CUTTINGS					IN CORES		FORMATION	AGE	
				GAS		OIL					OIL				
				CHROMATOLOG %											
1500									1500' 1695'	Tillite as above (1280' 1500'					
1550										- trace coal plant material					
1600										- core no 5 1637 1647 also					
1650										- shows occurrence of					
1700										- rare beels with striated					
1750										- faceted raft pebbles and cobbles					
1760															
1767															
1695 (approximated depth)										Metamorphic Basement:					
										- amphibolite (metadolomite?)					
										- dark grey mottled hard					
										- plagioclase hornblende					
										- rare calcite veinlets					
										- possible steep dip. with some faulting.					