ENCLOSURE 5. 374105 OR-0339 Vol 2

BAROID *ppm* LOG

WELL AROO NO.1
COMPANY HEMATITE PETROLEUM PTY. LTD.
FIELD BASS BASIN
COUNTY OFFSHORE STATE TAS.

INTERVAL LOGGED 772 FT TO 12,112 FT
DATE LOGGED 5 MARCH, 1974. TO 19 APRIL '74
DEPTH MEASURED FROM K.B. ELEV. 32 FT.

SUPERVISING ENGINEER K. Mc DONALD UNIT NO 8809
TYPE MUDS NATIVE SEAWATER TO 5730 FT
LIGNOSULFONATE TO 12,112 FT

LEGEND

LOGGERS: HUGHES
: SOBEY
: VAN DER HEIDE

ABBREVIATIONS

NB	NEW BIT
NCB	NEW CORE BIT
CO	CIRCULATED OUT
DST	DRILL STEM TEST
LAT	LOGGED AFTER TRIP
TG	TRIP GAS
NR	NO RETURNS
DS	DIRECTIONAL SURVEY
DC	DEPTH CORRECTION

MUD CHARACTERISTICS

W	WEIGHT X LBS/GAL ___ LBS/CU FT
V	VISCOSITY, API, SECONDS
F	FILTRATE, API, CC'S
CK	FILTER CAKE
S	SALINITY X PPM CL⁻ ___ GPG CL⁻
Rm	MUD-RESISTIVITY, OHM-METER
Rmc	MUD-CAKE RESISTIVITY, OHM-METER
Rmf	MUD-FILTRATE RESISTIVITY, OHM-METER

LITHOLOGY

SAND	░	LIMESTONE	▦
SHALE	▤	OOLITIC LIMESTONE	▦
CLAY	▤	DOLOMITE	▨
CHERT	▲	GYPSUM, ANHYDRITE	▨
SALT	▦	COAL OR LIGNITE	■
SILTSTONE	▤	GRANITE WASH	☒
CONGLOMERATE	▓		

DRILLING RATE
☒ FT. PER HR.
☐ MIN. PER FT.
1500 1000 500
VISUAL POROSITY
LITHOLOGY
DEPTH
ppm HYDROCARBONS IN MUD M=1000
C1
0 1M 5M 10M
OIL TSG 2.5 5.0 7.5
C2
0 1M
25.00
C3
0 1M
2.5
C4
0 1M
C5+
0 1M
CUTTINGS ANALYSIS
TOTAL GAS ———
METHANE — — —
LIQUID HYDROCARBONS (C6+) —·—6+—·—
OIL TSG 25 50 75
STARTED LOGGING AT 1930 HRS, 5 MARCH 1974
WATER DEPTH – 250'
DRILLED 26" HOLE TO 772'
DRILLING 15" HOLE W/16 1/2" UR. DRLG W/SEAWATER
HOT WIRE 30 UNITS = 1% TOTAL GAS IN AIR.
PPM C1 —— PPM C2 —— PPM C3 —— PPM C4 —— PPM C5 ——
HOT WIRE - - - CO2 - - - H2S - - -
20" CSG SHOE AT 704'
700
NB.2, OSC-3AJ 9.9 HRS
X10
800
CALCIRUDITE: WH GY, ABNT BRY, DEBRIS.
NO GAS
900
SILTST: LT GY, FM TR CALC. MNUT FLK BY DK-GY, BLK & RD-LITHIC GRNS.
1000
CALCIRUDITE: WH, CRM GY. TR GY BLK LOOSE BIOCLASTIC FRAGS.
1100
NO GAS
X10
1200
SILTST: LT GY, DENSE, UNIFORM TEX. TR CALC.
1300
SILTST: LT GY, MINOR YEL BRN. TR CALC.
1400
NO CO2 NO H2S
1500
CALCIRUDITE: WH, GY, CRM. DK GY, CRS BIOCLASTIC DEBRIS, BRY & MINOR GAST, LAMELLIBRANCHI.
1600
6-3-74
CALCIRUDITE: WH, GY, CRM, DK GY FOSS FRAGS.
1700
1800
SILTST: LT GY, FM LITHIC.
1900
CALCIRUDITE: BCM CALCARENITE, GY, FM, CRSE GRN, CLAY.
2000
DEPTH CORRECTION
2100
POH 2099' WASH OUT RR B.2
T.G – 0
2200
SILTST: GY BRN, LT GY FM.
SCALE CHANGE 600 400 200
2300
SILTST: BRN GY, MINOR LT GY, FM DNS. MNUT FLK W/DK GY & RD LITHIC GRNS.
2400
NO GAS
2500
CALCARENITE: LT GY, FM, ANG, CRSE, FOSS FRAGS.
2600
2700
SILTST: LT GY–BRN GY, FM, DNS, CALC.
2800
CONVERTED TO GEL & S/WATER.
MARL: LT GY–MED GY, SOFT GUMMY, FM, MACRO FOSS, ABNT FORAMS.
2900
MARL: LT GY, SOFT ABNT FORAMS.
13 3/8" CSG SHOE AT 2937'
DS-1 1/4°
3000
C.O. 7/8-3-74 NB.3, XDG 9.8 HRS
T.G – 18
DRILL 16 1/2" HOLE TO 3034'
POH, TIGHT, C.O. RUN E. LOGS
CMT
DRILL 12 1/4" HOLE.
3100
X10
9-3-74.
3200
MARL: MID. GY., SOFT, W- FOSS. DEBRIS.
3300
X10
3400
MARL: LT.-MID. GY., SOFT, V. FOSS.
3500
3600
3700
MARL: LT.-MID. GY., SOFT, ABNT. FOSS.
X10
3800
3900
DS. 1/4°
4000
MARL: LT.-MID. GY., SOFT, ABNT. FOSS., TR. SILTST.
4100
N.B.4 XDG 107 HRS
T.G. 30
4200
X10
MARL: MID. GY., SILTST: TAN GY., SOFT, V.CALC. CARB.
4300
4400
CALC. SILTST: TAN GY. SOFT, CARB, GLAUC.
ONE PUMP.
4500
X10
4600
X10
CALC. SILTST: TAN GY.
X10
4700
DS. 3/4°
4800
CALC. SILTST: BRN GY. SOFT-FM, GLAUC
MARL: MID GY, SOFT.
4900
10-3-74.
5000
CALC. SILTST: BRN GY.
5100
5200
2 PUMPS
MARL: MID GY, FIRM.
D.S. 1°
5300
WT 9.3
VIS 32
CALC. SILTST: BRN GY, SOFT-FIRM, DNS, TR GLAUC.
5400
5500
5600
DS. 1°
CALC. SILTST: BRN.– MED. GY., MICA, GLAUC.
CO. NB.5 XDG. 8.1 HRS.
T.G. 90
5700
SILTST: BRN. GY., FIRM, CALC.
STRING IN LIGNOSULFONATE MUD.
5800
SCALE CHANGE 150 100 50
5900
6000
11-3-74
SILTST: BRN.– MED. GY. TR. CALC. MICA.
6100
C.O. NB.6, J33, 50.4 HRS.
T.G. 35.
WT 9.8
VIS 43
PH 9.0
F 12.6
CL 10,800
TEMP 115°F
P.O.H., SWABBING, C.O.
6200
CLYST: DULL BRN., SOFT, GUMMY.
6300
SILTST: BRN. GY., MICA, TR COAL– BLK.
12-3-74
DS 3/4°
SCALE CHANGE 75 50 25
6400
T.G. 60
WT 9.8
VIS 43
PH 9.5
F 6.6
CL 9200
TEMP 125°F
P.O.H. WASHOUT IN D.P. & B/SUBS.
X10
6500
SILTST: BRN.– MED. GY., FIRM, MICA, DULL FLOR.
6600
CLYST: DULL BRN., STICKY.
13-3-74
6700
WT 9.8
VIS 47
PH 10.0
F 6.2
CL 7200
TEMP 135°F
SANDST: LT. BRN. V.F. GRN, POORLY SORTED, TIGHT.
6800
X10
SANDST: BRN. F-C. GRN., UNCONS, SA-R. GLAUC., DOL.
DS. 1°
COAL: BLK-BRN. BLK SILTY.
X10
SILTST: CARB.
6900
SANDST: LT.-DK. BRN. F-CRSE., DOL., TIGHT, PALE YELLOW FLOR.
7000
WT 9.8
VIS 46
PH 9.8
F 5.6
CL 6800
TEMP 136°F
SILTST: LT.-DK. BRN, FIRM-HARD, V. MICA, TR. MIN. FLOR.
SANDST: CRSE. GRN., UNCONS.
7100
14-3-74
SANDST: F. GRN, CONS., DOL., TIGHT.
NB 7, J33, HRS 63.4
TG 15
SANDST: LT. TAN–BRN, HARD, V.F, QTZ, MICA, DOL, FAINT FLUOR.
7200
SILTST: LT.-DK. BRN, FIRM-HARD, CARB.
WT 9.8
VIS 49
PH 10
F 5.2
CL 7000
TEMP 125°F
RR B 7, 15-3-74
TG 8
HANG OFF FOR WEATHER
7300
COAL: BLK, SHINY.
7400
DOLOMITE: TAN, HARD, COARSE, CRYSTALLINE
DS. 1°
7500
SANDST: TAN, HARD. F-VF GRN, MICACEOUS.
SILTST: BRN-BLK, V.F, CARB-CEMENT.
COAL: BLK, SHINY.
7600
16-3-74
SANDST: CLEAR-TAN VF-COARS, QUARTZ.
7700
WT 9.8
VIS 47
PH 10
F 5.6
CL 6000
TEMP 149°F
SILTST: LT.-DK. BRN, FIRM-HD., MICA, QTZ, CARB, IN/BEDDED W. SAND.
7800
SANDST: V.LT. TAN–BRN, FIRM-HARD, FRIABLE-DENSE, V.F. -F. QTZ. IN MICA, SILT & CARB MATRIX.
7900
COAL: BLK, SHINY.
DS. 1°
17-3-74
8000
WT 9.8
VIS 45
PH 10
F 7.2
CL 5500
TEMP 152°F
SILTST: BRN.–BRN. BLK, FIRM, CARB, MICA.
8100
8200
SILTST: BRN-BLK, FIRM-HARD, MICA, V. CARB., GATHERING TO EARTHY COAL.