ENCLOSURE 1. 847

OR-0338.

BUREAU OF MINERAL RESOURCES
GEOLOGY AND GEOPHYSICS

74211

371082

HEMATITE PETROLEUM PTY. LTD.

NANGKERO No1

COMPOSITE WELL LOG

T/4P

LOCATION: Latitude : 40°04'24·161"S
Longitude : 145°58'41·952"E

ELEVATION (From sea level): Sea floor : −261 feet
Kelly bushing : +32 feet

5 cm

DATE DRILLING COMMENCED : 24-4-1974

DATE RIG RELEASED : 15-5-1974

TOTAL DEPTH : 9440 feet K.B. (Driller)

WELL STATUS : Dry, Plugged and Abandoned.

WELL HEAD FITTINGS : None

DRILLING CONTRACTOR : Global Marine A/Asia Pty. Ltd.

CASING :

Size (inches)	Setting Depth (feet)	No of sacks
20	643 (Driller)	1000
13⅜	3250 (Driller)	1000

CEMENT PLUGS :

	from (feet)	to (feet)	No. of sacks
No.1	3350	3127	300
No.2	650	350	185

LEGEND

LITHOLOGY

SANDSTONE	▨	▤	SILTSTONE
MUDSTONE	▤	▦	CALCIRUDITE
LIMESTONE	▦	▦	CALCARENITE
SHALE	▤	■	COAL
MARL	▦	□	VOLCANICS

ACCESSORIES

ARKOSIC	□	□	LIMONITE
ARGILLACEOUS	□	□	BENTONITE
CALCAREOUS	⊥	□	PYRITE
DOLOMITE	□	m	MICA
CHERT	□	C	CARBONACEOUS MATTER
CALCITE CRYSTALS	□	□	MACROFOSSILS
GLAUCONITE	□	□	MICROFOSSILS
QUARTZ CRYSTALS	□	□	GYPSUM
KAOLINITE	□	□	SAND SIZE LITHICS

WELL SYMBOLS

- PLUGGED INTERVAL
- CORE
- SIDE WALL CORE
- FORMATION INTERVAL TEST
- CASING SHOE

WIRE LINE LOGGING CHART

TYPE OF LOG	SP/GR/ISF/S	SP/ISF/S	CAL/GR/FDC/CNL	HDT	CAL
Run no.	1	2	1	1	1
Date	27-4-1974	12-5-1974	12-5-1974	13-5-1974	27-4-1974
First reading (feet K.B.)	3256	9455	9448	9448	3245
Last reading (feet K.B.)	645	3224	3224	5500	645
Casing (logged)	645	3224	3224	3224	645
Bit size (inches)	16·5	12·25	12·25	12·25	16·5
Mud nature	Seawater	Lignosulphonate	Lignosulphonate	Lignosulphonate	Seawater
Mud resist. BHT.	0·18@111°F	0·26@186°F	0·25@201°F	0·24@206°F	0·18@111°F
Log scales (inches per 100 feet)	2(SP/GR/ISF) 5(SP/ISF/S)	2(SP/ISF only) 5(SP/ISF/S)	2 and 5	Recorded @10 Interpreted log 2 and 5	5

Lithology by : E.A. Hodgson, D.R. Nichols
Compiled by : E.A. Hodgson
Mud logging by : Baroid Australia Pty. Ltd.
Wire logging by : Schlumberger Seaco, Inc.

LITHOLOGICAL SYMBOLS AND ABBREVIATIONS USED IN MUD LOG

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	▨		

T.D. DRILLER 9440'
T.D. SCHLUMBERGER 9462'
BOTTOM LOG INTERVAL 9455'

NANGKERO - 1

FORMATION INTERVAL TESTS

Test No.	Depth (feet)	Recovery			Water Salinity (p.p.m.)	Water Nitrate Content (p.p.m.)	Water Resistivity (ohm-m²/m)	Hydrostatic Pressure (p.s.i.) *1	Sampling Pressure (p.s.i.) *1	Final Shutin Pressure (p.s.i.) *1	Surface Pressure (p.s.i.) *3	Comment
		Gas (c.f.)	Oil (c.c.)	Water (c.c.)								
3	7,370	-	-	-	-	-	-	-	-	-	-	Mudrun
4	7,376	0.2 (displaced air)	-	9,500	36,400	69	0.13	3,907	3,353	3,364	-	Tool lost seal when sample sealed. Did not affect test or results.
2	9,054	0.5	-	9,500	8,900	5	0.44	4,765	3,897	4,048	100	-
1	9,304	0.6	-	9,000	5,380	35	0.56	4,885	3,264 (after shape charge fired)	4,163	200	GAS ANALYSIS C_1 2,900 p.p.m. C_2 300 p.p.m.

*1 Amerada 10,300 gauge
*2 Amerada 11,800 gauge
*3 Schlumberger

HEMATITE PETROLEUM PTY. LTD.

Nangkero-1 Composite Well Log