DEPT. NAT. RES & ENV
PE601095

TIRRENGOWA - 1 W.C.R.

PETROLEUM DIVISION

EXLOG (SM)

COMPANY HARTOGEN ENERGY LTD.

WELL TIRRENGOWA # 1
FIELD WILDCAT
REGION OTWAY BASIN
COORDINATES LAT: 38° 22' 58.6"
LONG: 143° 20' 20.67"
API WELL INDEX NO.
SPUD DATE 14 MARCH 1987
ELEVATION 456 FT

TOTAL DEPTH 4175FT
CONTRACTOR O.D.& E.
RIG / TYPE RIG No. 19

LOG INTERVAL
DEPTH FROM SPUD TO 4175FT
DATE FROM 14/3/87 TO 22/03/87
SCALE 1:240 UNIT 53
LOG PREPARED BY D. HORNER &
A. HODGSON

HOLE SIZE

10 "	TO	800FT		TO	
7 "	TO	4175FT		TO	
	TO			TO	

CASING RECORD

16"	AT	26FT		AT	
8 "	AT	794FT		AT	
	AT			AT	

MUD TYPES

FRESHWATER/GEL	TO	800FT
KCL/POLYMER	TO	4175FT
	TO	

LITHOLOGY SYMBOLS

LIMESTONE; DOLOMITE; ANHYDRITE AND GYPSUM; HALITE; COAL AND LIGNITE; CLAY; SHALE; SILT AND SILTSTONE; SILTY SANDSTONE; SAND AND SANDSTONE; CONGLOMERATE; CHERT; IGNEOUS UNDIFFERENTIATED; MARL; SCHIST; VOLC

EXLOG SUITE 10 AUG 1987

- [x] FORMATION EVALUATION LOG
- [ ] PRESSURE EVALUATION LOG
- [ ] DRILLING DATA PRESSURE LOG
- [x] WIRELINE DATA PRESSURE LOG
- [ ] TEMPERATURE DATA LOG
- [ ] GEMDAS COMPUTER LOGS

ABBREVIATIONS

NB	NEW BIT	SVG	SURVEY GAS
RRB	RERUN BIT	C	CARBIDE TEST
CB	CORE BIT	W	MUD DENSITY LB/GAL
WOB	WEIGHT ON BIT	V	FUNNEL VISCOSITY
RPM	REVS PER MINUTE	F	FILTRATE — API
FLC	FLOW CHECK	FC	FILTER CAKE
CR	CIRCULATE RETURNS	PV	PLASTIC VISCOSITY
PR	POOR RETURNS	YP	YIELD POINT
NR	NO RETURNS	SOL	SOLIDS — %
LAT	LOGGED AFTER TRIP	SD	SAND — %
BG	BACKGROUND GAS	S	SALINITY — PPM Cl
TG	TRIP GAS	RM	MUD RESISTIVITY
STG	SHORT TRIP GAS	RMF	FILTRATE RESISTIVITY
CG	CONNECTION GAS		
SWG	SWAB GAS		

CASING SEAT; CORED INTERVAL; NO RECOVERY; SIDEWALL CORE; WIRELINE LOG RUN; TEST INTERVAL; + WIRELINE TEST

GAS — 100 Total gas units is equivalent to 2% methane-in-air.

OIL — Based on live oil in unwashed cuttings and percentage staining of washed cuttings.

EXLOG COMPANY: HARTOGEN WELL: TIRRENGOWA No. 1 SHEET NO. 1

FORMATION EVALUATION LOG

RATE OF PENETRATION — ☐ FT/HR ☒ MIN/FT — VISUAL POROSITY (CORE: GOOD, FAIR, TRACE) — DEPTH — TEST — CUTTINGS LITHOLOGY

HYDROCARBON ANALYSIS — OIL (GOOD, FAIR, TRACE) — CONTINUOUS TOTAL GAS — PETROLEUM VAPOURS — GAS PERCENT 0.4 0.8 1.2 1.6 2 — GAS UNITS 20 40 60 80 100 — CHROMATOGRAPH — METHANE 1 — ETHANE 2 — PROPANE 3 — BUTANES N4 — I4 — PENTANES 5 — GAS PERCENT 0.01 0.1 1.0 10 — PPM 100 1K 10K 100K — CUT (GOOD, FAIR)

CUTTINGS GAS UNITS — TOTAL GAS — PET VAPS 0 - - - 50

LITHOLOGY DESCRIPTION AND REMARKS

ROTARY KELLY BUSHING
14 FEET
GROUND LEVEL
456 FEET
SEA LEVEL

ALL DEPTHS MEASURED FROM THE ROTARY KELLY BUSHING

16" CONDUCTOR SET AT 26 FEET

SPUD IN WITH FRESHWATER GEL MUD SYSTEM.

SPUD AT 0430HRS 14/3/87 WITH 10 5/8" HOLE.

BASALT, FROM SPUD TO 60FT, DARK RED TO DARK BROWN, HARD TO VERY HARD, VESICU, COMMON XLN, VERY WEATHERED

SANDSTONE, FROM 20FT, MEDIUM TO LIGHT BROWN TO DARK YELLOW, COM CLEAR QUARTZ, COARSE-VERY COARSE, SUBRND OCC SUBANGULAR, POORLY SORTED, LOOSE-FRIABLE, COM DARK BROWN ARGILLACEOUS MATRIX, GOOD VISUAL POROS.

MARL, FROM 30FT, OFF WHITE-MEDIUM OLIVE GREY, SOFT, STICKY, VERY DISPERSIVE, COMMON FOSSIL FRAGMENTS-BIVALVES, GASTROPODS, CORAL OCC FORAMS.

MARL, AS ABOVE, MEDIUM OLIVE GREY, OCC MED BROWN GREY, LIGHT-MED GREY, SOFT,

NB#1 SEC 8 3/3S 10 5/8" 774FT/12 3/4HRS 13 83 GIN 14/3/87 HODGSON

0 FEET

100

1 2 4 6 10 — 20 40 60 80 100 — 100 1K 10K 100K — Dev 1°

HORNER