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WEAVER OIL AND GAS CORPORATION, AUSTRALIA

TASMANIAN DEVIL NO. 1

WELL COMPLETION REPORT

OR-356B

445002

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1. SUMMARY

1.1 Drilling

The Tasmanian Devil No. 1 exploratory well was drilled in the southern part of the Bass Basin off the northern coast of Tasmania in permit T-16-P.

The well was spudded on August 27, 1984 using the Diamond M Epoch, semisubmersible drilling rig. A 26-inch hole was drilled to 265m and 20 inch casing set at 251m. Then a 17-1/2 inch hole was drilled to 564m and a DIL-SLS-CAL-GR-SP log was run over the interval 561.0m to 251.5m with GR run to the sea bottom.

A string of 13-3/8 inch casing was run and set at 552m. A 12-1/4 inch hole was drilled to 864m Total Depth, and the interval evaluated by a DIL-SLS-CAL-GR-SP log and LDL-CNL-GR log.

No significant hydrocarbons were encountered and no indications of hydrocarbons were noted on the logs. The well was plugged and abandoned as a dry hole and the rig released on September 3, 1984.

1.2 Geology

Tasmanian Devil No. 1 was planned as an exploratory well to test the hydrocarbon potential of the Tertiary Eastern View Coal Measures, specifically the lower member, below the M. diversus horizon.

The well penetrated a sequence of sedimentary and volcanic rocks. The well was similar to prognosis down to the near base of the Torquay Group Claystones. The seismic horizon originally thought to correspond to the top Eastern View Coal Measures was found to be Tertiary basalt.

No significant indications of hydrocarbons were noted during drilling, and this was confirmed by wireline electric logs. Only a very limited amount of sandstone and siltstones were encountered near the base of the Torquay Group.

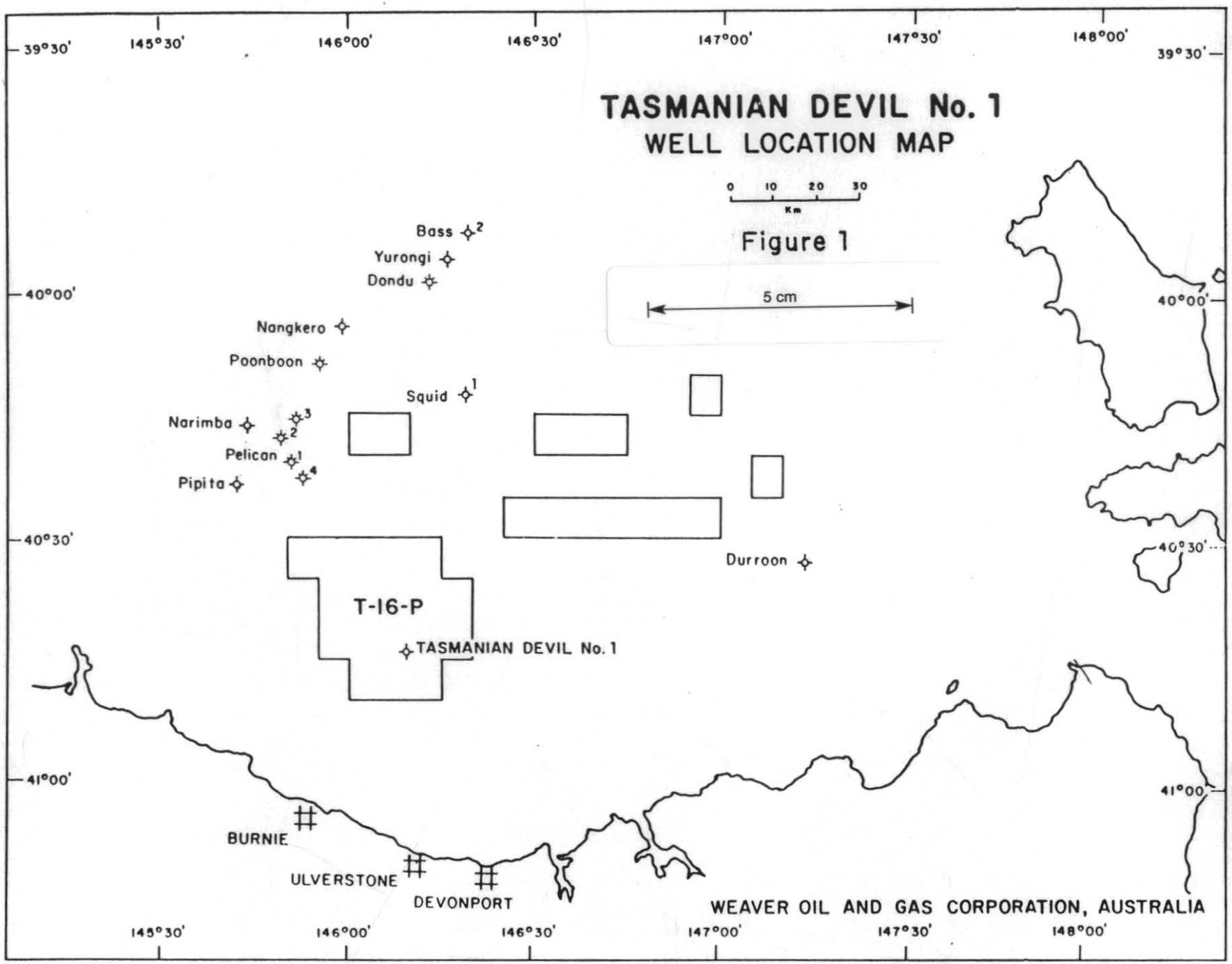
2. INTRODUCTION

Exploration Permit T-16-P consists of 32 graticular blocks with a total area of 2430 square kilometers. The permit is located in the southern part of the Bass Basin. (Figure 1.)

The Tasmanian Devil No. 1 well is located on an tilted fault block which was interpreted to be Eastern View Coal Measures on basement overlain by the Demons Bluff Formation.

Tasmanian Devil No. 1 was drilled at Shot Point No. 700 on Line WB-82-51. Stratigraphic control was provided by the Pelican No. 1 located 53km to the northwest and tied to the prospect by seismic line WB-81-11.

The well was drilled under a farmout agreement from Weaver Oil and Gas Corporation, Australia, to Bridge Oil Limited, Cluff Oil (Pacific) Ltd, Sunland Petroleum Corporation N.L., Kimberley Oil & Gas N.L., Australian Hydrocarbons N.L., Oakwood International Petroleum N.L., Weeks Australia Limited and Belco Petroleum Australia, Inc.


TASMANIAN DEVIL No. 1
WELL LOCATION MAP
0 10 20 30
Km
Figure 1
5 cm
39°30'
145°30'
146°00'
146°30'
147°00'
147°30'
148°00'
40°00'
40°30'
41°00'
Bass 2
Yurongi
Dondu
Nangkero
Poonboon
Squid 1
Narimba
3
2
Pelican 1
4
Pipita
Durroon
T-16-P
TASMANIAN DEVIL No. 1
BURNIE
ULVERSTONE
DEVONPORT
WEAVER OIL AND GAS CORPORATION, AUSTRALIA

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3. WELL HISTORY

3.1 General Data

(a)	Well name and number:	Tasmanian Devil No. 1
(b)	Name and address of operator:	Weaver Oil and Gas Corporation Australia, 109 St. George's Terrace, PERTH WA 6000 and 14141 Southwest Freeway Sugarland, Texas 77478 USA
(c)	Tenement Holder: (at time of drilling)	Weaver Oil and Gas Corporation, Australia
(d)	Petroleum Title:	T-16-P
(e)	District:	Bass Basin
(f)	Location - latitude: - longitude:	40°44' 16."209 S 146°09' 44."958 E
(g)	Elevation, rotary kelly bushing: drill floor: sea floor:	21.9m AMSL 21.4m AMSL 73.8m BMSL
(h)	Total Depth:	863.7m - Driller 862m - Schlumberger
(i)	Date Drilling Commenced:	August 27, 1984
(j)	Date Total Depth Reached:	September 1, 1984
(k)	Date Rig Released:	September 3, 1984
(l)	Drilling Time to Total Depth:	6 days
(m)	Status:	Plugged and Abandoned
(n)	Total Cost:	US $2,500,000.

Diamond M Epoch

EQUIPMENT, TOOLS, MATERIALS, SUPPLIES AND SERVICES

(Contractor is to provide the Drilling Unit as described in this Appendix A)

1. Drilling Vessel Description and Specifications

The drilling vessel will be as described in Appendix A, Part 2 attached hereto.

a. Moorings - Eight (8) 2-3/4" dia. chains, 4800 ft. long

b. Anchors - Eight (8) 30,000 lb. Baldt Moorfast
Eight (8) 30,000 lb. Baldt Moorfast (spares)

c. Mooring windlasses - Four (4) Skagit double drum type wildcat type for 2-3/4" chain; 450,000 lb. stall

d. Anchor buoys - Eight (8) designed for 1200 ft. water depth

e. Pendant wires, shackles and associated jewelry for primary anchors only

f. One (1) mooring line tension sensing and indicating system

g. Vessel position reference system - Honeywell RS-505 Acoustic indicator and riser angle indicator.

2. Drilling Equipment

a. Drawworks - Oilwell E-3000 driven by two (2) GE 752 DC motors, with Baylor 7838 electric brake and Crown-O-Matic

b. Drill line - 1½" dia., 7,500 ft. long IWRC wire rope

c. Wireline anchor - National, designed for 1½" wire rope

d. Sandline - 9/16" dia. 15,000 ft. long galvanized wire rope

e. Derrick and substructure - 160 ft. derrick with 1,000,000 lb. hook load capacity, 50 ft. x 50 ft. welded substructure

f. Motion Compensator - Vetco Model 400-20D with 400,000 capacity and 20 ft. stroke

g. Mud Pumps - Two (2) Oilwell 1700 PT Triplex pumps with pulsation dampeners. Each driven by two (2) GE-752 DC motors. Mud pumps to be charged by two (2) 6 x 8 centrifugal pumps.

h. Rotary Table - Oilwell 37½" table driven by GE-752 motor

i. Crown Block - Oilwell seven (7) sheave type; 600 ton

j. Hook Block - Oilwell 650 ton capacity with BJ 5500 Dynaplex hook

k. Traveling Block Guide System - Two-rail system design

l. Swivel - Oilwell PC-650

m. Rotary Hose - Two (2) each, installed in derrick, 3" x 75' wire braid, 10,000 psi test

n. Weight Indicator - Martin Decker Type E AW-11 with E-80 sensator.

o. Electric Power Supply - described in Part 2 of Appendix "A"

p. Kelly Spinner - Varco Model 6500.

q. Drilling Recorder - One (1) six channel recorder for penetration, weight, pump pressure, torque (electric) rotary RPM and pump rate from two (2) pumps alternately.

r. Iron Roughneck - Varco Model 2000

3. Drill String

a. Drill Pipe:

(1) 10,000 ft. - 5" O.D., Grade E, 19.5 lb/ft. Range 2 drill pipe, quench and temper, with 4½" IF x 6-3/8" O. D. 18-degree taper, ultrasonically inspected tool joints and internally plastic coated.

(2) 5,000 ft. - 5" O.D. Grade S-135 19.5 lb/ft. Range 2 drill pipe, quench and temper, with 4½" IF x 6-3/8" O.D. 18-degree taper, ultrasonically inspected tool joints and internally plastic coated.

(3) Forty (40) joints 5" O.D. 50 lbs./ft. Range 2 Hevi Wate Drill Pipe w/4½" I.F. Tool Joints

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b. Drill Collars:

(1) Six (6) 9½" O.D. x 30" long spiral drill collars

(2) Thirty (30) 7-3/4" O.D. x 2-13/16" I.D. x 30' long spiral collars.

(3) Thirty (30) 6-1/2" O.D. x 2-13/16" I.D. x 30' long spiral collars.

(Note: Drill collars recessed for elevator and slip handling, have API connection and stress relieved grooves on pins and bore back in boxes. Threads and stress relief grooves cold worked and treated for anti-galling.

c. Bumper Subs

(1) Two (2) 6½" O.D. with 5 ft. stroke.

(2) Two (2) 8" O.D. with 5 ft. stroke.

d. Kelly- Two (2) 5-1/4" Hex type

e. Subs and Bit Subs- As required for contractors drill string

f. Sufficient box and pin thread protectors for all Contractor's equipment

g. Bit Breakers for 26", 17½", 12¼" and 8½".

h. Pipe Wipers for 5" drill pipe

4. Blowout Preventers, Subsea Equipment and Control Equipment

a. Diverter System - Regan Model KFDH-3.

b. One (1) 30" Cameron Pin Connector

c. 18-3/4"-10,000 psi WP BOP stack consisting of the following major components (H_2S trim):

(1) Flex Joint - Cameron 18-3/4" with RCK connector

(2) Riser Connector - C.I.W. 18-3/4"-10,000 psi WP Collet connector

(3) Annular Preventers - Two (2) Cameron 18-3/4", 5000 psi.

(4) Ram preventer - Two (2) double type "U" II Cameron 18-3/4" - 10,000 psi WP BOP's

(5) Wellhead connector - Cameron, 18-3/4"-10,000 psi W.P. Collet connector.

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d. BOP Kill and Choke Line System:

(1) Master valves - Two (2) Cameron 10,000 psi WP 3-1/16" right angle failsafe valves hydraulic open, spring close.

(2) Operating valves - Two (2) Cameron 10,000 psi WP 3-1/16" straight through valves, hydraulic open, spring close.

(3) Flex Joint Jumper Connection - Two (2) 3-1/8" 10,000 psi WP choke and kill lines.

e. BOP Guidance System:

(1) Four post and funnel lower section BOP frame on 6' radius centers complete with reinforcement and guide funnels as required. Funnels and posts slotted for guide wire installation, internally ground and complete with retaining doors. Frame attachment at top Preventer and Wellhead connector.

(2) Four-funnel upper section BOP frame on 6' radius centers complete with reinforcement as required. Funnels slotted for guide wire installation, internally ground and complete with retaining doors. Frame attachment at Riser connector.

f. Miscellaneous Equipment Items:

(1) Installed in BOP:

(a). Three (3) sets 5" rams complete with long life ram rubbers.

(b). One (1) set shear rams complete.

(c). Two (2) annular bag elements.

g. Marine Riser - 1200 Ft. of Cameron 21" X ½" Wall X-52 Riser with RCK connections and integral choke and kill lines. Riser pup joints 5 Ft., 10 Ft., 15 Ft., 20 Ft., 30 Ft. and 40 Ft. long.

h. Slip joint - Two (2) Cameron telescoping joints, 45' stroke with dual packer with split inserts. Material of slip joint X-52 innner and outer barrel with RCK pin riser connection and type "R" top connection.

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i. Choke and Kill Hoses:

Two (2) each 3" I.D. 10,000 psi WP rotary hose.

j. Marine Riser Tensioning System:

(1). Six (6) Western Gear tensioning units designed for 50' line travel and maximum line load capacity of 80,000 lb. tension.

(2). Six (6) idler sheaves.

(3). Control Panel

k. Guideline Tensioning System:

(1). Four (4) Western Gear tensioning units, each with 40 ft. line travel and maximum line load capacity of 16,000 lb. tension.

(2). Four (4) idler sheaves.

l. Pod Line Tensioning System:

Two (2) each Ingersoll Rand K6UAL hoists with constant tensioners.

m. BOP Accumulator Unit - Koomey air-electric powered 660 gal. accumulator unit, 3000 psi.

n. Blowout Preventer Control Panels:

(1). Master control panel located on rig floor adjacent to driller's console.

(2). Remote control panel located in toolpusher's office.

(3). Complete manual control at accumulator unit.

(4). All control panels to be graphically illustrated.

o. Hydraulic Control Hoses - Two (2) hoses designed for 1200 ft. water depth.

p. Hydraulic Control Pods- Two (2) Koomey type, fully redundant.

q. Choke Manifold - 10,000 psi with Cameron Type F gate valves, two adjustable chokes and one remotely operated Swaco Super Choke.

r. Surface BOP test manifold

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5. Downhole Tools and Equipment

a. Casing Protectors: 100 each with installation tool.

b. Control Valves:

(1). One (1) inside Gray BOP, with 4-1/2" I.F. connections.

(2). One (1) Safety valve with 4-1/2" I.F. connections

(3). Two (2) lower kelly valves, 5000 psi W.P.

(4) Two (2) upper kelly valves, 5000 psi W.P.

6. Fishing Tools.

a. Overshots

(1). One (1) 11¼" O.D. series 150 Type FS Bowen Overshot, with grapples to catch 9½" D.C. and 7-3/4" D.C.

(2). One (1) 8-1/8" O.D. Series 150 Type FS Bowen overshot, with grapples to catch 6½" D.C. and 5" D.P.

b. Junk Subs

(1). One (1) Bowen 12-7/8" O.D. for 17½" hole with 7-5/8" API Reg Connection

(2). One (1) Bowen 9-5/8" O.D. for 12¼" hole with 6-5/8" API Reg Connections.

(3). One (1) Bowen 6-5/8" OD for 8½" hole with 4½" I.F. Connection.

c. Junk Basket

(1). One (1) Bowen 11" OD Reverse Circ. Type with 6-5/8" API Reg. Box Connection.

(2). One (1) Bowen 7-7/8" O.D. Reverse Circ. Type with 4½" IF Box Connector.

d. Taper Taps for contractor drill string.

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7. Drill String Handling Tools

a. Tongs, slips, elevators, links for 5" O.D. drill pipe, 9½", 7-3/4" and 6-1/2" O.D. drill collars as listed below:

(1). Tongs - Two (2) sets of tongs with jaws for 5" D.P., 9½", 7-3/4" and 6½" D.C.

(2). Slips - Two (2) sets slips for 5" D.P.
One (1) set slips for 9½" D.C.
One (1) set slips for 7-3/4" D.C.
One (1) set slips for 6-1/2" D.C.

(3). Elevators- Two (2) sets for 5" D.P.
One (1) set for 7-3/4" DC
One (1) set for 6-1/2" DC

(4). Safety Clamps - One (1) Varco type MP-R

(5). Links - One (1) set B.J. 500 Ton 3-1/2" x 144" Links
One (1) set B.J. 350 Ton 2-3/4" x 132" Links

b. Air Tuggers- Located on drill floor

8. Mud Facilities and Equipment

a. Mud Tanks

(1)	Two (2) Active Mud Tanks	Total capacity	666 bbls.
(2)	Two (2) Reserve Mud Tanks	Total capacity	681 bbls.
(3)	One (1) Slugging Pit w/Jet Gun	Total Capacity	50 bbls.
(4)	One (1) Sand Trap	Total capacity	167 bbls.
(5)	One (1) Trip Tank	Total capacity	30 bbls.

b. Mud Mixing Pumps - Three (3) Mission 5 x 6 centrifugal pumps with 75 HP electric motors.

c. Shaleshaker - Hutchison-Hayes "Rhumba" 102 dual high speed

d. Desander - Demco 86V with six (6) 8" cones

e. Desander Pump - 5 x 6 centrifugal with 50 HP electric motor

f. Desilter - Sweco PO-4C16 with 16 x 4" cones

g. Desilter Pump - 5 x 6 centrifugal with 50 HP electric motor.

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h. Degasser - Wellco Model 5200

i. Mud Agitators - Four (4) Lightnin Mixers

j. Pit Level indicator - Martin Decker PVT system

k. Gas Detection System - Baroid 7471 combustible gas detector.

l. Mud Cleaner - Baroid with eight (8) 2" cones

9. Casing and Related Tools

a. Casing tools for 20", 13-3/8", 9-5/8" and 7" casing as listed below:

(1). Elevators - three (3) 500 ton slip type Spider/ Elevators with inserts for 13-3/8", 9-5/8", and 7" casing.

One (1) set side door elevators for 20", 13-3/8", 9-5/8" and 7" casing

(2) Single joint elevators - One (1) set for 20", 13-5/8", 9-5/8" and 7" casing.

(3). Casing Slips - One (1) set for 20" casing.

b. Hydraulic Casing Tongs - Lamb Model 20,000, with jaws for 20", 13-3/8", 9-5/8" and 7" casing.

10. Special Equipment

a. Totco non directional drift indicator, 0-8 degrees and 0-16 degrees.

b. One (1) set Vetco 18-3/4" wellhead running and testing tools.

c. One (1) fork lift 5000 lb capacity

d. One (1) Subsea system underwater television.

e. One (1) electric driven measuring line assembly with 15,000 ft of .092" line.

f. One (1) each CIW Cup Tester for: 13-3/8", 9-5/8" and 7".

11. Special Services

a. COMPANY TO FURNISH:

(1). Drill sites, location surveying, marker buoys and permits (except as provided by Contractor);

(2). Drill bits, reamers, hole openers, stabilizers, under reamers, and cutter heads;

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(3). Production test equipment, including piping, separator and tanks;

(4). All permanent well equipment, such as guide bases, casing, casinghead, drive shoes, tubing, packers, Christmas trees, wellheads, wear bushings;

(5). Cement, Cement equipment and services including rental if applicable;

(6). Mud logging services, supervision, drilling mud and chemicals;

(7). Electric logging unit tools, and logging services;

(8). All support vessels and diesel fuel for drilling unit and all support vessels;

(9). Drilling water;

(10). Potable water when applicable;

(11). Casing crews, tubing tools and tongs;

(12). Special tools and services, fishing tools and services, other than those specified in Item 6 of Appendix "A", Part 1;

(13). Shore base facilities; crane and labor for loading and unloading equipment, material and supplies furnished by both parties;

(14). Drill pipe and drill collars and accessories other than those specified in Item 3 of Appendix "A", Part 1;

(15). Acidizing and perforating services;

(16). Drill stem testing materials and services;

(17). Coring equipment, supplies and services;

(18). Wire line surveying services, other than single shot instrument;

(19). Communication for Company's requirements;

(20). Directional drilling service and tools;

(21). Casing Cutting Tools;

(22). Land transportation for handling Company supplies, materials, and equipment;

(23). Weather reporting services;

(24). Well completion equipment and services and swabbing equipment other than sand line;

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(25). Replacement drill pipe rubbers;

(26). If stack is pulled and passes testing procedures and company desires to break stack down, then Company must furnish replacement rubber goods and gaskets as required;

(27). Storage facilities at the designated shorebase.

(28). Port, harbor, pilotage and similar fees if applicable.

(29). Helicopter Services.

(30). Workboat loading hoses and tie up lines.

(31). Transportation for Company, Contractor and third party personnel, equipment, materials and supplies between Company's Operation Base or heliport and the Drilling Unit offshore. Transportation for Contractor and Contractor's third party personnel between and Melbourne and Company's Operation Base.

(32). Accommodation for Company's personnel onshore.

(33). Diving equipment and services as required.

(34). Lubricants for Company furnished equipment and material.

(35). Running and handling tools for Operator's subsea and wellhead equipment.

(36). Furnished office facilities for Contractor shorebase personnel.

b. CONTRACTOR TO FURNISH:

(1). Drawings as required to enable Company to obtain necessary drilling permits.

(2). Storage facilities aboard the drilling unit.

(3). Loading and offloading Company and Contractor equipment aboard the drilling unit.

(4). Daily lodging and meals aboard drilling unit for Contractor and Five (5) Company designated personnel.

(a) Cost of daily lodging and meals for Company designated personnel in excess of five (5) will be billed to Company at $50.00 per man per day, $12.50 per casual meal, or $12.50 for casual lodging.

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(5). Transportation of Contractor personnel, equipment, materials and supplies to and from Melbourne except as provided in 11.a (31) above.

(6). Accommodation for Contractor's personnel onshore.

(7) Lubricants including pipe dope for Contractor furnished equipment and material.

(8) BOP hydraulic fluid.

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APPENDIX A, PART 2

DRILLING VESSEL DESCRIPTION AND SPECIFICATIONS

NAME: Diamond M Epoch
YEAR BUILT: 1977
CLASSIFICATION: ABS Maltese Cross A1 Drilling Unit

1. Operating Capabilities

A.	Water Depth Capacity -	1,200 Ft.
B.	Drilling Depth Capacity -	30,000 Ft.

2. Principal Characteristics

A.	Platform	
	1) Length	195 Ft.
	2) Beam	166 Ft.
B.	Hulls (2)	
	1) Beam	35 Ft.
	2) Depth	25 Ft.
C.	Baseline to Main Deck	95 Ft.
D.	Baseline to Pipe Rack	108 Ft.
E.	Baseline to Rig Floor	128.25 Ft.
F.	Displacement	
	1) Lightship (15.5 Ft. draft)	7,754 long tons
	2) Ocean Tow (23 Ft. draft)	11,642 long tons
	3) Field Move (23 Ft. draft)	11,642 long tons
	4) Drilling (55 Ft.draft)	16,404 long tons
G.	Variable Deck Load	
	1) Ocean Move	1300 short tons
	2) Field Move	2512 short tons
	3) Drilling	2512 short tons
H.	Natural Period	
	1) Heave	20.7 sec.
	2) Roll	40.6 sec.
	3) Pitch	31.5 sec.

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3. Capacities

A.	Bulk Tanks	9,200	cu.ft.
B.	Sack Storage	5,100	sacks
C.	Fuel	6,400	Bbls.
D.	Potable Water	755	Bbls.
E.	Drill Water	15,842	Bbls.
F.	Mud Tanks	1,548	Bbls.
G.	Quarters	80 man + 4 man hospital	

4. Ships Equipment

A. Power System

1) Main Diesel Generators -	Two (2) EMD 16E-9 Diesel Engines, 3070 HP. Each driving EMD 2000 KW AC Generators. One (1) EMD 16E-8 Diesel Engine, 2200 HP, driving EMD 1500 KW AC generator
2) Emergency Diesel Generators -	One (1) Detroit Diesel 8V-71N engine driving 250 KW AC Generator
3) Power Distribution-	Baylor Model 2000, 5 bay SCR System 750 V, 1000/1600 amps

B. Air System

1) Main Air System -	Two (2) Ingersoll Rand air compressor, 504 CFM each at 125 psi
2) Emergency Air Compressor	Diesel driven cold start compressor
3) Bulk System -	One (1) Bulk air compressor 40 psi

C. Cranes -	Two (2) Link Belt ABS 238 35 ton
D. Welding Machines -	Three (3) Lincoln DC rectifier type

E. Safety Equipment

1) Fire Fighting Equipment -	One (1) Lot portable fire extinguishers as per U.S.C.G., CO_2 Flooding System and 1500 lb dry chemical system
2) Life Jackets -	As per U.S.C.G
3) Liferafts -	Six (6) 25-man U.S.C.G. approved
4) Lifeboats -	Two (2) 50-man covered, powered U.S.C.G. approved

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F.	Helicopter Deck -	Heliport designed to accommodate a Sikorsky S-61N Helicopter
G.	Communication -	AM Marine Radio Stations telephone and complete intercom system w/loud speaker, Marisat Satellite Communications System. Two (2) Single Side Band transceivers.
H.	Distillation Unit	One (1) 7200 GPD Aquachem, One (1) 10,000 GPD Koomey R/O Unit.
I.	Sewage Treatment System	Red Foxx design.
J.	Helicopter Radio Beacon	NDB Radio Beacon Model SS250B 25 watt, 400 KHZ

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APPENDIX B

CONTRACTOR PERSONNEL

DESCRIPTION	ON BOARD	TOTAL
SHOREBASE		
Rig Manager	-	1
Administrator	-	1
Materialsman	-	1
EXPATRIATES (28/28)		
Rig Superintendent	1	2
Toolpusher	1	2
Barge Captain	1	2
Driller	2	4
Electrician	1	2
Mechanic	1	2
Sub Sea Engineer	1	2
Control Room Operator	2	4
Medic	1	2
Nationals (7/7)		
Derrickman	4	8
Motorman	2	4
Welder	1	2
Storekeeper	1	2
Crane Operator	2	4
Radio Operator	2	4
Floorman	6	12
Roustabouts	8	16
Catering Crew	As Required	

AJS

APPENDIX C
INSURANCE

Contractor shall at all times during the term of this Agreement, provide, pay for and maintain the following insurance:

(a) Workmens Compensation Insurance or similar insurance required by any country's laws which are applicable to any employee of Contractor used in the performance of this Agreement.

(b) Employers Liability Insurance with limits as required by law but in no event less than $1,000,000 per occurrence.

(c) General Public Liability Insurance covering liabilites for bodily injury, including death, to persons and liabilities for damage to property with combined single limit of not less than $5,000,000 per occurrence. This insurance must cover contractual liability and all operations of Contractor required to fulfill its obligations under this Agreement.

(d) All Risks Physical Damage insurance to the full reinstatement value of all Contractor's Equipment utilized in the work performed under this Agreement. The deductible on such insurance shall not exceed $250,000.

(e) Full Conditions Hull and Machinery Insurance, including collision, to the stated value of the Drilling Unit and any other vessel employed by Contractor in the performance of the work hereunder.

(f) Amended Conditions Protection and Indemnity Insurance in an amount of not less than the stated value of the Drilling Unit. Removal of Wreck Insurance for up to the stated value of the Drilling Unit.

(g) War Risk Insurance including confiscation, nationalization, expropriation and deprivation to the stated value of the Drilling Unit.

AJ

(h) Automobile Public Liability Insurance covering owned, non-owned and hired automobiles used in the performance of the work hereunder, with bodily injury limits of not less than $100,000 per person, $300,000 per accident and property damage limit of not less than $100,000 per accident or as required by local law.

"The stated value" as referred to in items (e) and (f) above is agreed to be $58,000,000.

Any deductibles payable on any of the above insurances shall be borne by Contractor, except that Company shall be liable for Contractor's deductible up to $50,000 in any case where Company is liable under Clause 1001 (a) and (b).

The term "employed" referred to in items (e) and (f) above shall mean "those vessels owned or directly chartered or hired by Contractor".

Contractor shall name Company and the Weaver Group and its Farmees (members of the operating group) as additional insureds and waive its rights of subrogation against the Company and the Weaver Group and its Farmees, their affiliates, employees and agents.

AJS

APPENDIX D

DEPRECIATION - SCHEDULE

Drillpipe	-	3% per month
Drillcollars	-	1½% per month
Other equipment	-	1% per month

Depreciation commences from the first date such lost or damaged items were first placed in service following purchase. In no event will items be depreciated below fifty percent (50%) of landed replacement cost.

AJS

BJ

3.3 Drilling Data

A summary of the daily operations is presented in the Drilling Data Analysis Chart and the Time-Depth Chart (Appendix Nos. 2.1 and 2.2). Principal details are presented as follows:

a) Hole Size, Casing Data and Drilling Fluid

Hole		Casing		
Size (in)	Depth (m)	Size (in)	Depth (m)	Weight (lb/ft)
26	265	20	251	133
17-1/2	564	13-3/8	552	68
12-1/4	864			

b) Leak off tests

L.O.T. at 270m, equivalent mud weight = 12.5 lbs.
L.O.T. at 575m, equivalent mud weight = 14.6 lbs.

c) Drilling fluid

Hole Size (in)	Fluid Type
26	Sea water
17-1/2	Lig-CMC-Gel
12-1/4	Lig-Dex Gel

3.4 Formation Sampling

(a) Ditch Cuttings:

All samples were lagged, the lag being calculated and checked every 100m or less by the use of carbide. The type and interval of the samples were as follows:

(i) Five, 100 gram, washed and dried samples representative of each 10m were caught from surface casing to 564m. The sample interval was 5m between 564m and 864m TD. A set of cuttings have been lodged with the Tasmanian Department of Mines and the BMR.

(ii) One, 250 gram, unwashed sample, composite of every 15m, was taken for palaentological analysis.

(b) Cores:

No conventional cores were cut.

(c) Sidewall Sampling:

No sidewall cores were attempted.

3.5 Logging and surveys

(a) Two runs of wire line electric logs were made as follows:

(i) Run 1 at 565m: (driller depth)

DIL-SLS-CAL-GR-SP, interval 561m - 251.5m with GR to sea bottom.

(ii) Run 2 at 863.7m: (driller depth)

DIL-SLS-CAL-GR-SP, interval 861m - 552m
LDL-CNL-GR

(b) Wellsite Lithology Log: 265 - 864M

(c) Geoservices Geological Evaluation - Hydrocarbon Mudlog: 260-864.8m.

(d) Deviation Surveys:

Hole deviation was measured at regular intervals. The results are shown in Table 1.

(e) Temperature Survey:

A temperature survey was not run. The maximum BHT recorded was 54.7°C prior to Run 2 of the wire line electric logs.

(f) Velocity Survey:

A velocity survey was not run. A two-way time-depth was computed from the sonic log and is included as Table 2. A synthetic seismogram was also prepared and is included as Enclosure 4.

The velocity data obtained from the well indicates that the top Oligocene was encountered close to prognosis, however the reflection mapped as top Eastern View Coal Measures is actually the top of the basalt encountered at -720 meters. The Eastern View Coal Measures were not encountered in this well and are most probably replaced by the time equivalent basalt.

The synthetic siesmogram shows good correlation to the seismic data at Top Oligocene and Top Basalt. The strong reflection observed at .730 seconds is generated by the contrast in acoustic impedance between the basalt and the overlying Oligocene clastic section.

TABLE 1

DEVIATION SURVEY
OF
TASMANIAN DEVIL NO. 1

Depth (m)	Angle (deg.)
265	1/2
564	1
798	1/2
864	1/2

TABLE 2

445031

EXPL.ASSOC.INTERNATIONAL WEAVER, O&G, #1 T. DEVIL TASMANIA, AUSTRALIA

TIME(2-WAY) - DEPTH BELOW SEA LEVEL

	0.000	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
0.000 -	0.	1.	2.	2.	3. -	4. -	5.	6.	7.	7. -
0.010 -	8.	9.	10.	11.	11. -	12. -	13.	14.	15.	16. -
0.020 -	16.	17.	18.	19.	20. -	21. -	21.	22.	23.	24. -
0.030 -	25.	25.	26.	27.	28. -	29. -	30.	30.	31.	32. -
0.040 -	33.	34.	34.	35.	36. -	37. -	38.	39.	39.	40. -
0.050 -	41.	42.	43.	44.	44. -	45. -	46.	47.	48.	48. -
0.060 -	49.	50.	51.	52.	53. -	53. -	54.	55.	56.	57. -
0.070 -	57.	58.	59.	60.	61. -	62. -	62.	63.	64.	65. -
0.080 -	66.	66.	67.	68.	69. -	70. -	71.	71.	72.	73. -
0.090 -	74.	75.	76.	76.	77. -	78. -	79.	80.	80.	81. -
0.100 -	82.	83.	84.	85.	85. -	86. -	87.	88.	89.	89. -
0.110 -	90.	91.	92.	93.	94. -	94. -	95.	96.	97.	98. -
0.120 -	98.	99.	100.	101.	102. -	103. -	103.	104.	105.	106. -
0.130 -	107.	108.	108.	109.	110. -	111. -	112.	112.	113.	114. -
0.140 -	115.	116.	117.	117.	118. -	119. -	120.	121.	121.	122. -
0.150 -	123.	124.	125.	126.	126. -	127. -	128.	129.	130.	131. -
0.160 -	131.	132.	133.	134.	135. -	135. -	136.	137.	138.	139. -
0.170 -	140.	140.	141.	142.	143. -	144. -	144.	145.	146.	147. -
0.180 -	148.	149.	149.	150.	151. -	152. -	153.	153.	154.	155. -
0.190 -	156.	157.	158.	158.	159. -	160. -	161.	162.	163.	163. -
0.200 -	164.	165.	166.	167.	167. -	168. -	169.	170.	171.	172. -
0.210 -	172.	173.	174.	175.	176. -	176. -	177.	178.	179.	180. -
0.220 -	181.	181.	182.	183.	184. -	185. -	185.	186.	187.	188. -
0.230 -	189.	190.	190.	191.	192. -	193. -	194.	195.	195.	196. -
0.240 -	197.	198.	199.	199.	200. -	201. -	202.	203.	204.	204. -
0.250 -	205.	206.	207.	208.	208. -	209. -	210.	211.	212.	213. -
0.260 -	213.	214.	215.	216.	217. -	218. -	218.	219.	220.	221. -
0.270 -	222.	222.	223.	224.	225. -	226. -	227.	227.	228.	229. -
0.280 -	230.	231.	231.	232.	233. -	234. -	235.	236.	237.	238. -
0.290 -	239.	240.	242.	243.	244. -	245. -	246.	247.	248.	249. -
0.300 -	250.	251.	252.	253.	254. -	256. -	257.	258.	259.	260. -
0.310 -	261.	262.	263.	264.	266. -	267. -	268.	269.	270.	271. -
0.320 -	272.	273.	274.	276.	277. -	278. -	279.	280.	281.	282. -
0.330 -	283.	284.	285.	286.	287. -	289. -	290.	291.	292.	293. -
0.340 -	294.	295.	296.	298.	299. -	300. -	301.	302.	303.	304. -
0.350 -	305.	306.	308.	309.	310. -	311. -	312.	313.	314.	316. -
0.360 -	317.	318.	319.	320.	321. -	322. -	324.	325.	326.	327. -
0.370 -	328.	329.	330.	332.	333. -	334. -	335.	336.	337.	338. -
0.380 -	340.	341.	342.	343.	344. -	345. -	347.	348.	349.	350. -
0.390 -	351.	352.	353.	355.	356. -	357. -	358.	359.	361.	362. -
0.400 -	363.	364.	365.	366.	367. -	369. -	370.	371.	372.	373. -
0.410 -	374.	376.	377.	378.	379. -	380. -	382.	383.	384.	385. -
0.420 -	386.	387.	389.	390.	391. -	392. -	394.	395.	396.	397. -
0.430 -	399.	400.	401.	403.	404. -	405. -	407.	408.	409.	410. -
0.440 -	412.	413.	414.	415.	417. -	418. -	419.	420.	422.	423. -
0.450 -	425.	426.	427.	428.	430. -	431. -	432.	434.	435.	436. -
0.460 -	437.	439.	440.	441.	442. -	444. -	445.	446.	447.	449. -
0.470 -	450.	451.	452.	453.	455. -	456. -	457.	458.	459.	460. -
0.480 -	462.	463.	464.	465.	467. -	468. -	469.	470.	472.	473. -
0.490 -	474.	475.	476.	478.	479. -	480. -	481.	482.	483.	485. -
0.500 -	486.	487.	488.	489.	491. -	492. -	493.	494.	495.	496. -
0.510 -	497.	498.	500.	501.	502. -	503. -	504.	505.	506.	507. -
0.520 -	508.	509.	510.	512.	513. -	514. -	515.	516.	517.	518. -
0.530 -	520.	521.	522.	523.	524. -	525. -	526.	527.	528.	529. -
0.540 -	531.	532.	533.	534.	535. -	536. -	538.	539.	540.	541. -
0.550 -	542.	543.	544.	545.	546. -	548. -	549.	550.	551.	552. -
0.560 -	553.	554.	555.	556.	558. -	559. -	560.	561.	562.	563. -
0.570 -	564.	565.	566.	567.	568. -	569. -	570.	571.	572.	573. -
0.580 -	574.	575.	576.	577.	578. -	579. -	580.	581.	582.	583. -
0.590 -	584.	585.	586.	586.	587. -	589. -	590.	591.	592.	593. -
0.600 -	594.	595.	596.	597.	598. -	599. -	600.	601.	602.	603. -
0.610 -	604.	605.	606.	607.	608. -	610. -	611.	612.	613.	614. -
0.620 -	615.	616.	617.	618.	619. -	620. -	621.	622.	623.	624. -
0.630 -	625.	626.	627.	628.	629. -	630. -	632.	633.	634.	635. -
0.640 -	636.	637.	638.	639.	640. -	641. -	642.	643.	644.	645. -
0.650 -	646.	647.	648.	649.	650. -	652. -	653.	654.	655.	656. -
0.660 -	657.	658.	659.	660.	661. -	662. -	663.	664.	665.	666. -
0.670 -	667.	668.	669.	670.	671. -	672. -	673.	674.	675.	676. -
0.680 -	677.	678.	679.	681.	682. -	683. -	684.	685.	686.	687. -
0.690 -	688.	690.	691.	692.	693. -	694. -	696.	697.	698.	699. -
0.700 -	700.	701.	702.	703.	704. -	706. -	707.	708.	709.	710. -
0.710 -	711.	712.	714.	715.	716. -	717. -	718.	719.	720.	721. -
0.720 -	722.	723.	724.	726.	727. -	728. -	729.	731.	732.	734. -
0.730 -	736.	738.	741.	743.	746. -	748. -	751.	754.	757.	759. -
0.740 -	762.	765.	767.	770.	773. -	776. -	779.	782.	785.	788. -
0.750 -	790.	793.	796.	799.	802. -	805. -	808.	811.	814.	817. -
0.760 -	820.	823.	826.	[illegible]	33	35	37	41		

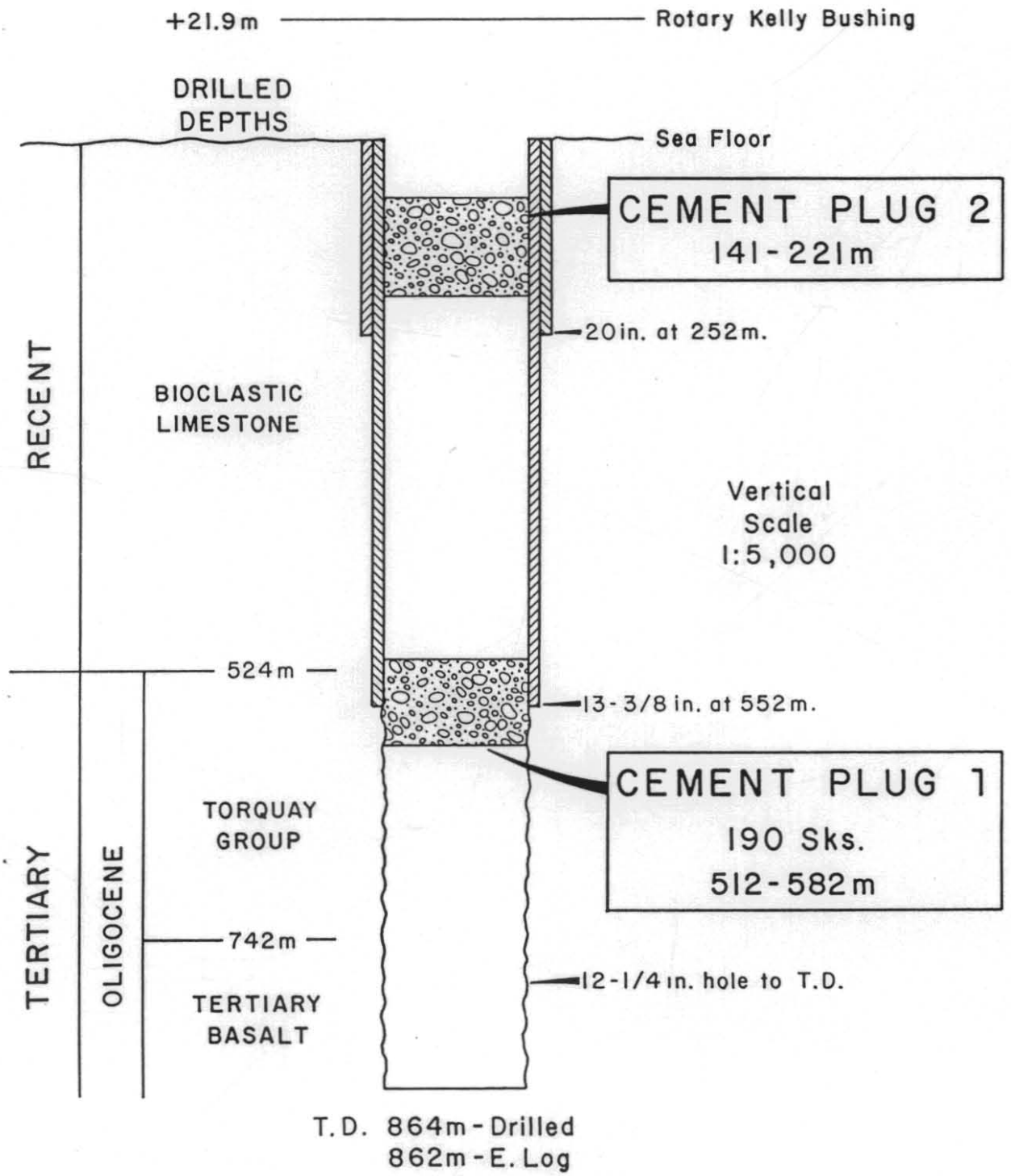
PETROPHYSICS, INC. 2141 W. GOVERNOR CICLE SUITE A /HOUSTON TEXAS/77063 (713)956-1266

3.6 Abandonment

Cement plugs were set between 141 - 221m and 512 - 582m (Figure 2), and the well abandoned in a suitable manner as prescribed by the Tasmanian Department of Mines.

Figure 2

ABANDONMENT DIAGRAM
TASMANIAN DEVIL No.1



4. GEOLOGY

4.1 Summary Of Previous Work

In 1960, Broken Hill Proprietary Ltd. (BHP) was granted an exploration license covering the whole of the Bass Basin. The permits were later held by Hematite Petroleum a wholly owned subsidiary of BHP.

Lewis G. Weeks designed the initial exploration programme which consisted of an aeromagnetic survey flown in 1961 to define the suspected sedimentary basin. This was followed by a regional seismic survey in 1962-63. In 1965, Esso farmed into the Hematite permits.

By mid-1970 six wells had been drilled and oil and gas shows were recorded in Bass 3, Pelican 1, Pelican 2 and Cormorant 1. Major regional seismic surveys in 1971 and 1972 were followed by the drilling of ten wells, all dry. The last well drilled was Pipita 1 by Hematite in 1982. (Figure 3)

In 1980-81, various permits covering areas previously relinquished by Hematite were granted to Weaver Oil and Gas and groups headed by Bass Strait Oil and Gas. Amoco was awarded a permit in 1984. Seismic surveys were subsequently carried out in 1981 and 1982 by Weaver Oil and Gas which resulted in the selection of the Tasmanian Devil No. 1 well location.

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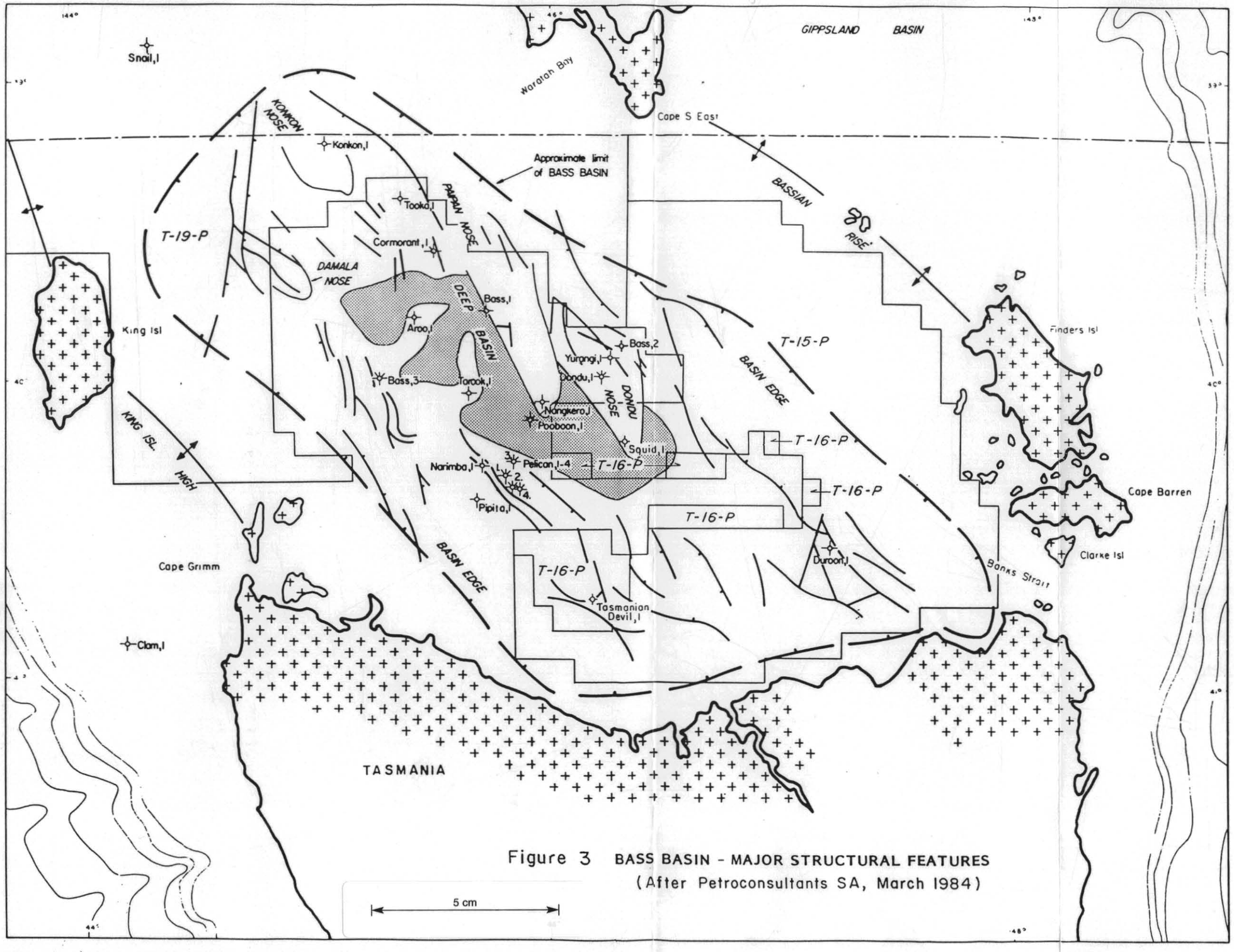


Figure 3 BASS BASIN - MAJOR STRUCTURAL FEATURES
(After Petroconsultants SA, March 1984)

14/

4.2 Summary Of Regional Geology

The Bass Basin is an elliptic northwest-southeast trending depositional trough produced by a NE-SW oriented tensional stress. It covers 62,000 sq. km in the Bass Strait between Tasmania and the Australian mainland. (Figure 3).

The Bass Basin appears to have initially developed in Late Jurassic time as the result of northeast-southwest tensional stress caused by the initial break-up of the Australian and Antarctic plates.

The Bass Basin is an excellent example of aborted, or failed rifts. Crustal extension during the Cretaceous developed a high relief, rifted terrane of graben and half-graben depocenters filled during the Early Cretaceous with volcanogenic detritus under fluviatile and alluvial conditions. In the northwest half of the Bass Basin most rift faults are downthrown to the southwest, forming a series of half-grabens with similar polarity. In the southeast half, rifting was more complex with two rift sequences of different trends.

Major structural features are a deep basin, basin edges, and a number of fault controlled structural noses: Dondu, Paipan, Konkon and Damala noses. (Figure 3).

The predominant structural style is that of faulted blocks with onlap and compaction of sediments over upthrown blocks. Other characteristics are faulted anticlines and arches or folds generated by intrusive or extrusive rocks.

Predominantly vertical movements seem to have controlled structural growth throughout the basin's history.

The earliest major tectonic event (Mid Cretaceous) is seen in the southern area, while the late activity (Upper Cretaceous and Late Tertiary) are observed in the northwestern area.

Worldwide rifts and aborted rifts are ideal environments for occurences of hydrocarbons. The combination of high quality source rocks and optimum thermal history allow for above average productivity on a volumetric basis. Good examples of prolific rifts include the Gippsland basin and the Dampier basin of Australia, Vulcan graben and the Viking graben of the North Sea. All of these examples developed through a two-stage evolution. The stages are:

1. Crustal upwarp and extensional faulting, the rift stage

2. Post-rift sag

Large reserves in rifts are generally found in sediments of the first stage. The boundary between the rift and sag stage in the Bass Basin is not clearly understood and is tentatively placed at the base Tertiary. (Inter-Upper Cretaceous unconformity).

Exploration to date in the Bass Basin has concentrated on sediments of the second stage (Tertiary sag stage). Results, so far, have been disappointing. Continued exploration will be directed towards understanding the early Tertiary and Cretaceous section.

The Bass Basin developed in the Early Cretaceous and the environment of deposition for this section is interpreted from the Duroon No. 1 well to be upper alluvial plain including lacustrine. The distribution of late Cretaceous sediments in the Bass Basin is interpreted to be much more widespread than during Early Cretaceous times as individual trough broadened and merged into a more continuous basin.

During the Paleocene, the basin was structurally quiescent but continued sag along the old major fault systems resulted in over 70 meters of coarse sediments being deposited near the basin margin and possibly over 900 meters of fine sediments in the basin center. Coal deposition throughout the section was limited. The basin appears to have been landlocked with braided streams flowing from the edge of the highlands to the southwest and eastward merging basinward into a broad meandering stream pattern building out into a lacustrine delta plain towards the northwest.

Increased tectonic activity during the Lower Eocene resulted in renewed movement which gave rise to a slightly smaller basin configuration than that which existed during the Paleocene. The structural movements were intensified towards the end of the Early Eocene and were accompanied by faulting, folding and local igneous activity. Local erosion of the early part of the section produced the unconformity which is seen at the Lower M. diversus palynological zone level.

During the Middle Eocene, stream activity increased. A pattern of braided streams flowed out from the edge of the rugged basin margin, merging into a cut-and-fill secondary stream channel system which built out over extensively developed coal swamps. This section is characterized as having both the highest sand content and the highest coal percentage within the Eastern View Coal Measures sequence. Provenance areas were located on the Tasmanian mainland in the south, the "Bassian Rise" in the northeast and for the first time, along the basin margin in the north and northwest.

The Late Eocene is dominated by the widespread deposition of the Upper Eocene Shale. This shale unit was deposited as a result of a marine transgression which started in the northwest and moved very rapid to the southeast.

4.3 Stratigraphy

The Tasmanian Devil #1 exploratory well penetrated a sedimentary and volcanic sequence which, based on palynology, lithology, petrology, and wire line log correlations ranges from Tertiary to Recent.

Formation tops and their thicknesses are shown in the stratigraphic column (Figure 4) and graphically presented on the Composite Log (Enclosure 1). The well was quite different to prognosis. (Figure 5). The seismic horizon thought to correspond to the top Eastern View Coal Measures was found to be an olivine basalt. The Tasmanian Devil No. 1 well was abandoned after drilling 122m of basalt.

The stratigraphy encountered in Tasmanian Devil No. 1 is summarised below. Depths are below the rotary table kelly bushing which was 21.9m above mean sea level.

(a) Recent:

Bioclastic Limestone (seafloor - 524m)

Samples were not available for examination until 265m. Between 265 - 524m this interval consists of bioclastic limestones, undifferentiated limestones and calcarenite.

(b) Tertiary:

(i) Torquay Group: (524m - 742m)

This interval consists of 218m of massive claystone. Within this interval some sand stringers were noted. A marginal marine environment of deposition is envisaged.

(ii) Olivine Basalt: (742m - 864m TD)

This interval consists of 122m of olivine basalt. It is interpreted to be of Oligocene and pre-Oligocene age.

4.4 Structure

The Tasmanian Devil No. 1 well was drilled on a structural closure and is mapped as a tilted fault block bounded to the southwest by a down-to-the-south normal fault accompanied by a northwest trending low. (Figure 6). A representative seismic profile through the well location showing the current structural interpretation is shown by Figure 7.

RKB Elevation: 21.9m AMSL — WD: 73.8m BRKB

AGE		FORMATION	LITHOLOGY	DEPTH RT	DEPTH MSL	THICKNESS
		Sea Level			0m	
						74
		Sea Floor		96	-74	
RECENT		BIOCLASTIC LIMESTONE				429
				524	-502	
TERTIARY	OLIGOCENE	TORQUAY GROUP				218
				742	-720	
		TERTIARY BASALT				122
				864	-842	

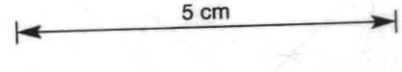
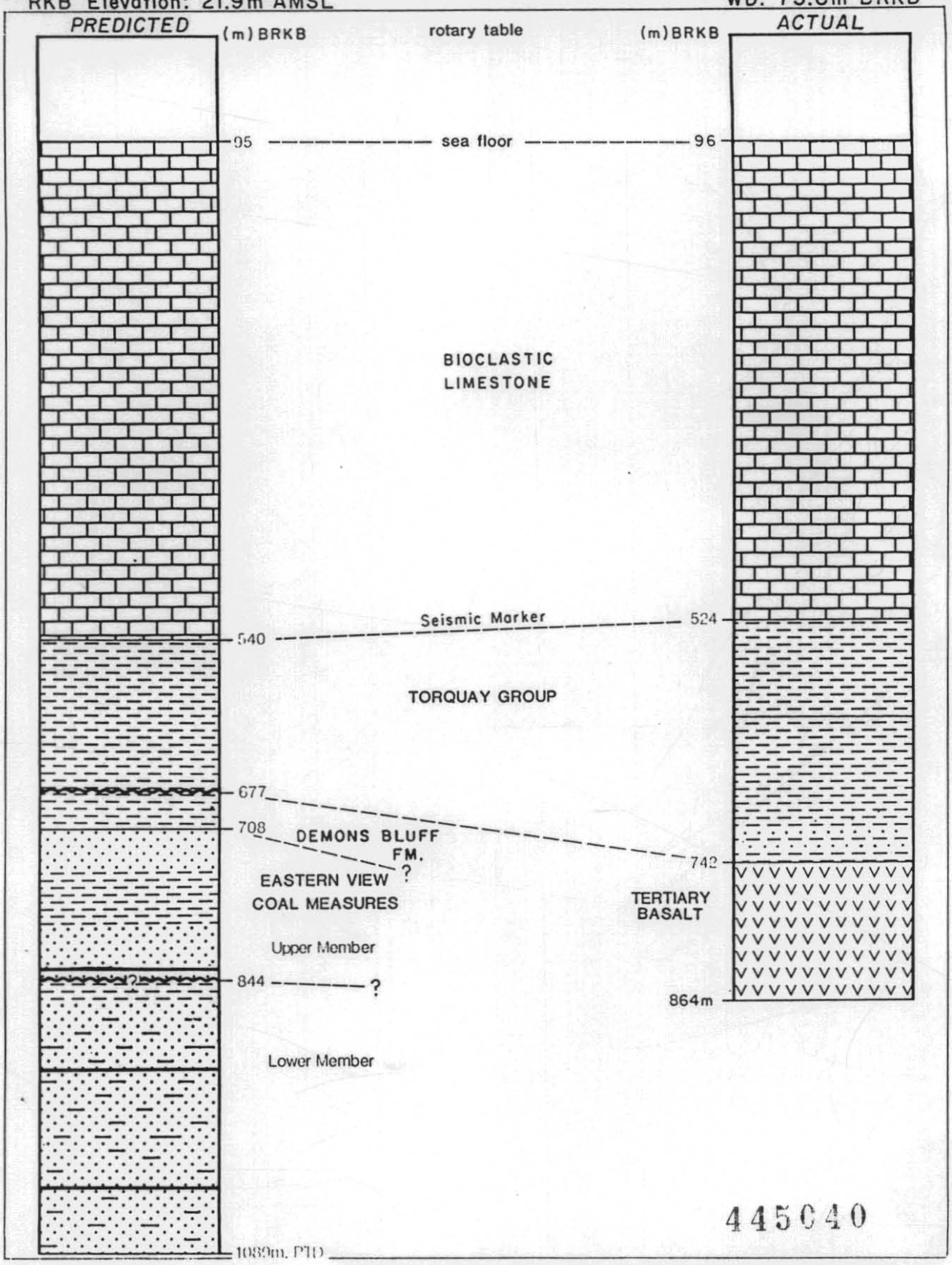


Figure 4

Vertical Scale : 1:5 000

WEAVER OIL & GAS CORP. AUSTRALIA

DATE Feb. 1985	**TASMANIAN DEVIL**
GEOLOGY P. J. Lawry	**No.1**
APPROVED	
DRAWING No.	STRATIGRAPHIC TABLE
REVISION No.	



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5 cm

Figure 5

Vertical Scale : 1:5000

WEAVER OIL & GAS CORP. AUSTRALIA

DATE Feb. 1985	**TASMANIAN DEVIL**
GEOLOGY P. J. Lawry	**No. 1**
APPROVED	
DRAWING No.	COMPARISION PREDICTED AND
REVISION No. 19/	ACTUAL SECTION

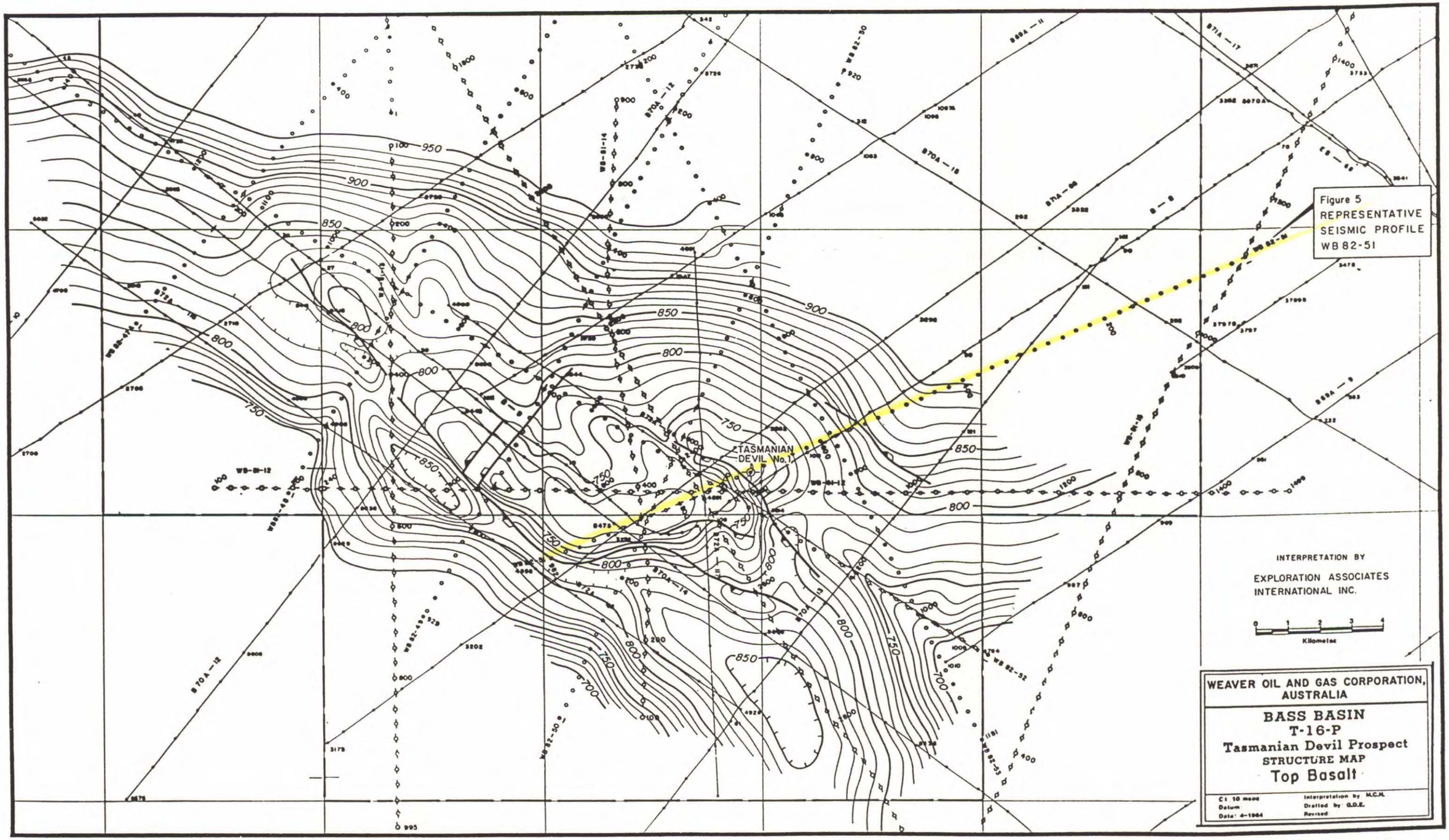


Figure 5
REPRESENTATIVE
SEISMIC PROFILE
WB 82-51
TASMANIAN
DEVIL No.1
INTERPRETATION BY
EXPLORATION ASSOCIATES
INTERNATIONAL INC.
Kilometes
WEAVER OIL AND GAS CORPORATION,
AUSTRALIA
BASS BASIN
T-16-P
Tasmanian Devil Prospect
STRUCTURE MAP
Top Basalt
Interpretation by M.C.M.
Drafted by G.D.E.
Revised

Figure 6

5 cm

FIGURE 7

LINE WB82-51
S.P. 1-982

S.W.
DIRECTION OF SHOOTING

AGC-STACK

445042

5 cm

SP 889	
TIME	VRMS
0	1490
120	1490
350	1670
760	2020
1260	2660
1930	3060
2670	3860
4000	4980

SP 809	
TIME	VRMS
0	1490
130	1490
420	1780
760	2100
1120	2420
1460	2740
1860	3380
2450	4180
4000	4980

SP 729	
TIME	VRMS
0	1490
120	1490
330	1640
780	2020
1150	2500
1560	2820
2000	3700
4000	4820

SP 649	
TIME	VRMS
0	1490
120	1490
300	1640
780	2020
1100	2500
1520	2900
2030	3700
2820	4500
4000	4980

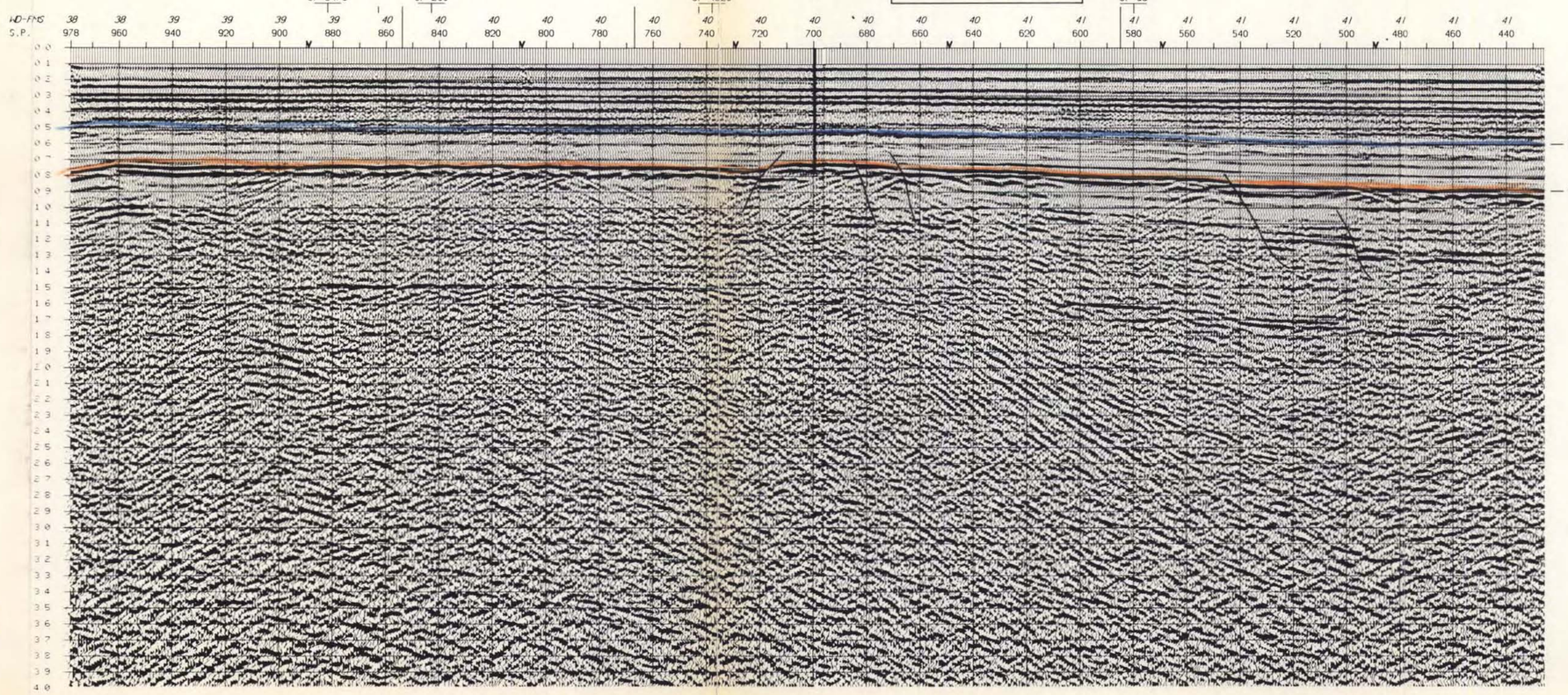
SP 569	
TIME	VRMS
0	1490
120	1490
350	1670
760	2020
1110	2340
1650	3060
2060	3860
3080	4660
4000	4980

SP 489	
TIME	VRMS
0	1490
120	1490
400	1670
920	2020
1300	2500
1750	2900
2350	3860
4000	4980

TASMANIAN DEVIL No. 1

LINE B-9 SP 5
LINE WB81-14 SP 355
LINE B70A-14 SP 8476
LINE WB82-50 SP 290
LINE WB81-12 SP 735
LINE WB82-52 SP 4010
LINE B70A-116 SP 4820
LINE WB82-53 SP 745
LINE B-B SP 98

Top Oligocene	-502m	.514 sec.
Top Basalt	-720m	.718 sec.
TD	-841m	.767 sec.



21

WEAVER OIL & GAS
BASS BASIN
PERMIT T-16-P

GeoCenter
Houston Texas

DATE PROCESSED MAY 1982
REEL NUMBER 6408
CONTRACT NUMBER 4805

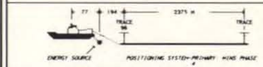
FIELD RECORDING

RECORDED BY WESTERN GEOPHYSICAL
DATE FEBRUARY 1982 SYSTEM DFSV
FORMAT SEG B GAIN 36 DB

ENERGY SOURCE
TYPE AIR GUNS 760 CU. INS. 4500 PSI.
ARRAY 10 GUNS DEPTH 6 METERS

STREAMER
LENGTH 2375 METERS NO. TRACES 96
DEPTH 40 FT GROUP INTERVAL 25 METERS
ARRAY 20 GEOPH/TR OVER 25 METERS

PARAMETERS
RECORDING FOLD 4800% S.P. SPACING 25 METERS
SAMPLE INTERVAL 2 MS RECORD LENGTH 5 SECONDS
RECORDING FILTER OUT - 12HZ @ 70DB/OCTAVE



DIGITAL PROCESSING

SEQ	PROCESS	PARAMETERS
1	DEMULTIPLEX	BINARY GAIN RECOVERY OUTPUT 4 MS
2	GAIN	AMPLITUDE RECOVERY
3	CDP TRACE GATHER	4800%/ADJACENT TRACE SUM
4	PRE-FILTER	SEE BELOW
5	DECONVOLUTION	SEE BELOW
6	VELOCITY ANALYSIS	CONSTANT VELOCITY STACK OVER 6 CDPS
7	NMO/MUTE	NORMAL MOVEOUT MUTE APPLICATION
8	CDP STACK	4800%
9	FILTER	SEE BELOW
10	EQUALIZATION	DATA DEPENDENT

DECON	* OPERATOR LENGTH	PREDICTIVE GAP	DERIVATION WINDOWS	APPLICATION WINDOWS	
5	160	30	0 TO 3500	RECORD LENGTH	DECONVOLUTION PARAMETERS

FILTER	CUT OFF POINT	6 DB POINT	6 DB POINT	CUT OFF POINT	APPLICATION TIMES FOR SHOTPOINTS SPECIFIED			
9	12	15	56	64	0-2500			FILTER PARAMETERS
	4	6	30	40	3500-4000			
4	4	6	56	66	RECORD LENGTH			

ALL TIMES IN MILLISECONDS ALL FREQUENCIES IN HERTZ
FILTERS INTERPOLATED LINEARLY BETWEEN APPLICATION TIMES
APPLICATION TIMES INTERPOLATED LINEARLY BETWEEN SHOTPOINTS
*OPERATOR LENGTH GIVEN IS ACTIVE LENGTH ADD GAP FOR TOTAL LENGTH

SAMPLE RATE: 4MS; DATUM CORRECTION: 13 MS

SCALES: HORIZONTAL 24 TR/IN VERTICAL 2.5 IN/SEC

RECORDING POLARITY: NEG. VALUE EQUALS PRESSURE INCREASE

PROCESSING POLARITY: POSITIVE NO. GIVES BLACK PEAK

4.5 Hydrocarbon Indications

Hydrocarbon indications were continually monitored by Geoservices geological evaluation mudlogging and the wellsite geologist during drilling. The results are shown on the mudlog and the wellsite lithology log. (Enclosures 2 and 3).

Low levels of background gas were encountered through most of the section drilled, but none of the readings were interpreted to be of any significance. No fluorescence was noted anywhere in the section, and generally hydrocarbon indications were very low.

Wireline electric logs confirmed the mudlog and showed no significant indication of hydrocarbons.

4.6 Formation Evaluation

Two runs of wireline electric logs were conducted. Run 1 at 564m prior to setting 13 3/8" casing, and Run 2 at 862m TD. Both runs of logs were interpreted manually and used in conjunction with the mudlog and sample log to evaluate the well.

A summary of these results is given in Section 5 of the Appendix.

After interpretation it was decided no intervals warranted testing, and the well was plugged and abandoned as a dry hole.

4.7 Conclusions And Contributions To Geological Knowledge

The Tasmanian Devil No.1 exploratory well provided valuable structural and stratigraphic information towards the evaluation of the hydrocarbon potential of Exploration Permit T-16-P as well as the whole of the Bass Basin.

The Tasmanian Devil anomaly was originally recognized on seismic lines acquired in the 1960's and 1970's, by the previous permit holders, as a tilted fault block at the Oligocene seismic marker level.

Additional seismic, magnetic and gravity data was acquired by Weaver Oil and Gas Corporation, Australia in 1981 and 1982. A designed long regional seismic line was tied to the Pelican No 1 well for purposes of structural and stratigraphic control.

The magnetic, gravity, aeromagnetic and seismic reflection data were modeled. Seismic time structure maps and isochron maps were constructed at various key reflector levels.

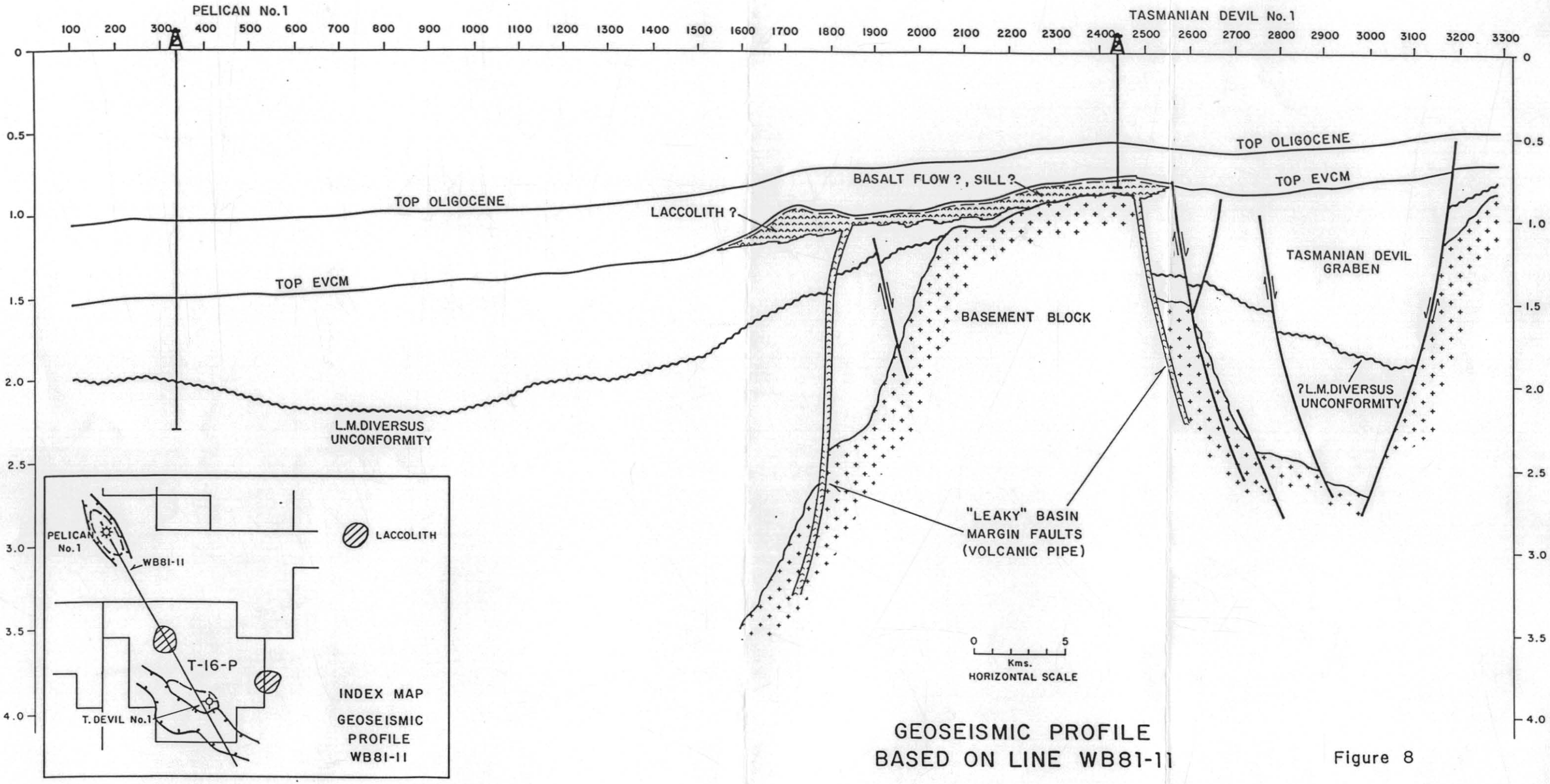
The Tasmanian Devil No.1 reached total depth after drilling 122m of olivine basalt. This well did not encounter sediments older than the Torquay Group claystone of Oligocene age. With the palynology and petrographic data obtained from this well it is apparent the equivalent of the basal Oligocene sandstones and the Eastern View Coal Measures were not tested with this well. No significant reservoir rocks were observed within the Tertiary Oligocene sediments. The strong reflection mapped as top Eastern View Coal Measures prior to drilling is actually the top of the basalt.

A Geoseismic profile has been constructed between Pelican No.1 and Tasmanian Devil No.1 along seismic line 81-11 and is included as Figure 8. The profile illustrates the relationship between the top Eastern View Coal Measures horizon in the deep basinal area and the Top Basalt horizon in the Tasmanian Devil area. Between shot points 1600 and 1800 an apparent volcanic anomaly exists just below the top Eastern View Coal Measures horizon. It resembles a laccolith in geometry. It's position in the section implies implacement along bedding planes near the boundary between the top Eastern View Coal Measures and the overlying Eocene-Oligocene shale section. Alternatively the volcanics may have been extruded onto the surface near the end of Eastern View deposition and prior to the Eocene/Oligocene transgression.

Whatever the mode of occurance of the volcanics it is apparent that the top Eastern View horizon either terminates against or slightly on laps onto the top basalt horizon near the volcanic anomaly between shotpoints 1600-1800.

Other occurances of volcanics exist in the nearby area. These occurances seem to be related to deep-seated faulting along basement involved faults of the type that bound the Tasmanian Devil structure. These faults may be "leaky" faults which may have acted as conduits to aid in the local emplacement of the basalt drilled in Tasmanian Devil No.1.

Computer modeling of the seismic, gravity and magnetic data done before and reviewed after the drilling of the Tasmanian Devil No.1 exploratory well indicate that this well penetrated the upper 122 meters of a major basalt on dolerite sill which most probably rests on an equally non-prospective basement complex of unknown age and composition.



GEOSEISMIC PROFILE
BASED ON LINE WB81-11

Figure 8

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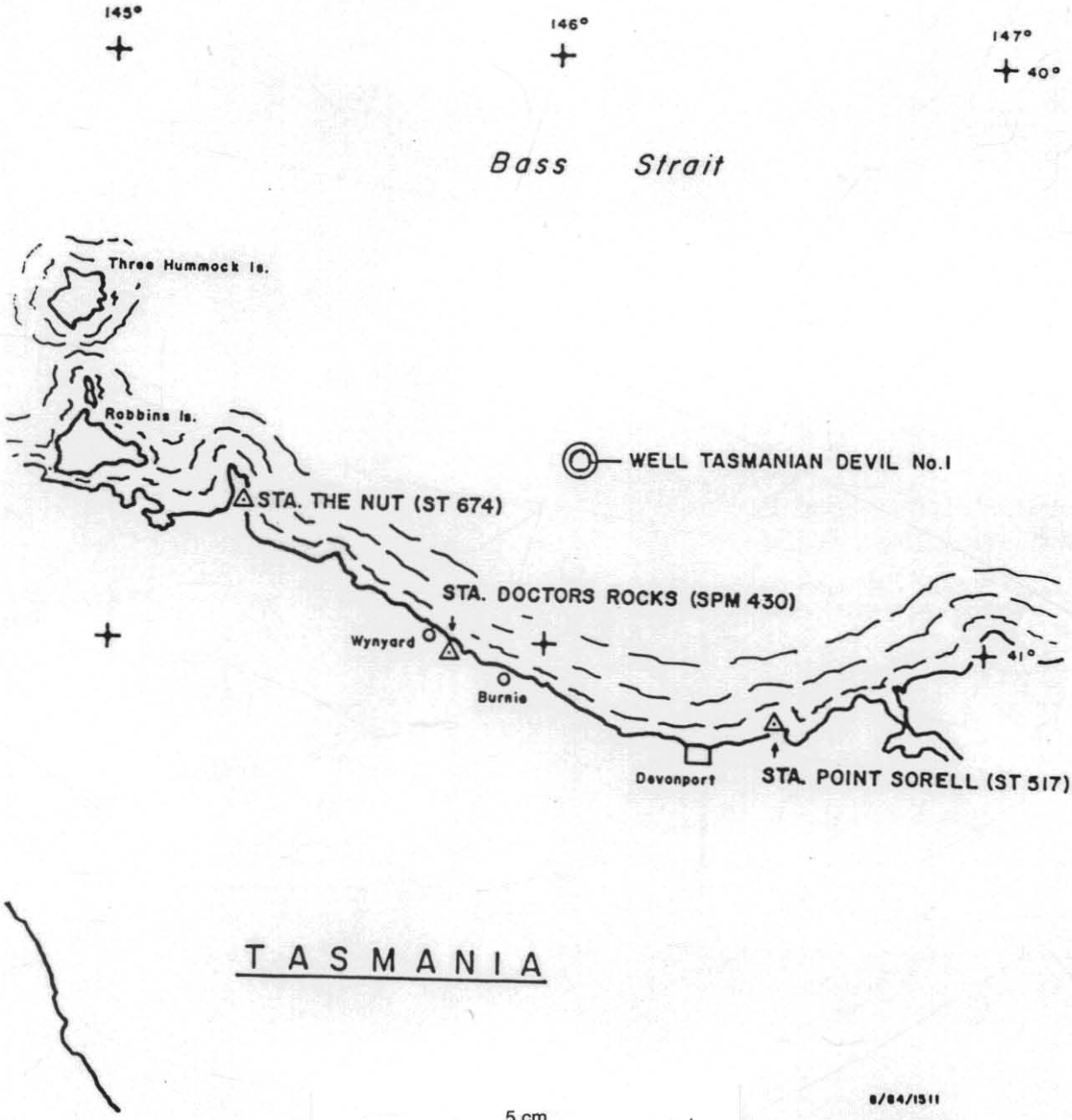
WELL TASMANIAN DEVIL No.1——AUSTRALIA

LAT. 40°44'16".209 S
LONG. 146°09'44".958 E

N 5,489,992 meters
E 429,285 meters

UTM PROJ. ———— AUST. NAT. SPHEROID
ZONE 55, C.M. 147° E ———— A.G.D.



8/84/1511

OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.

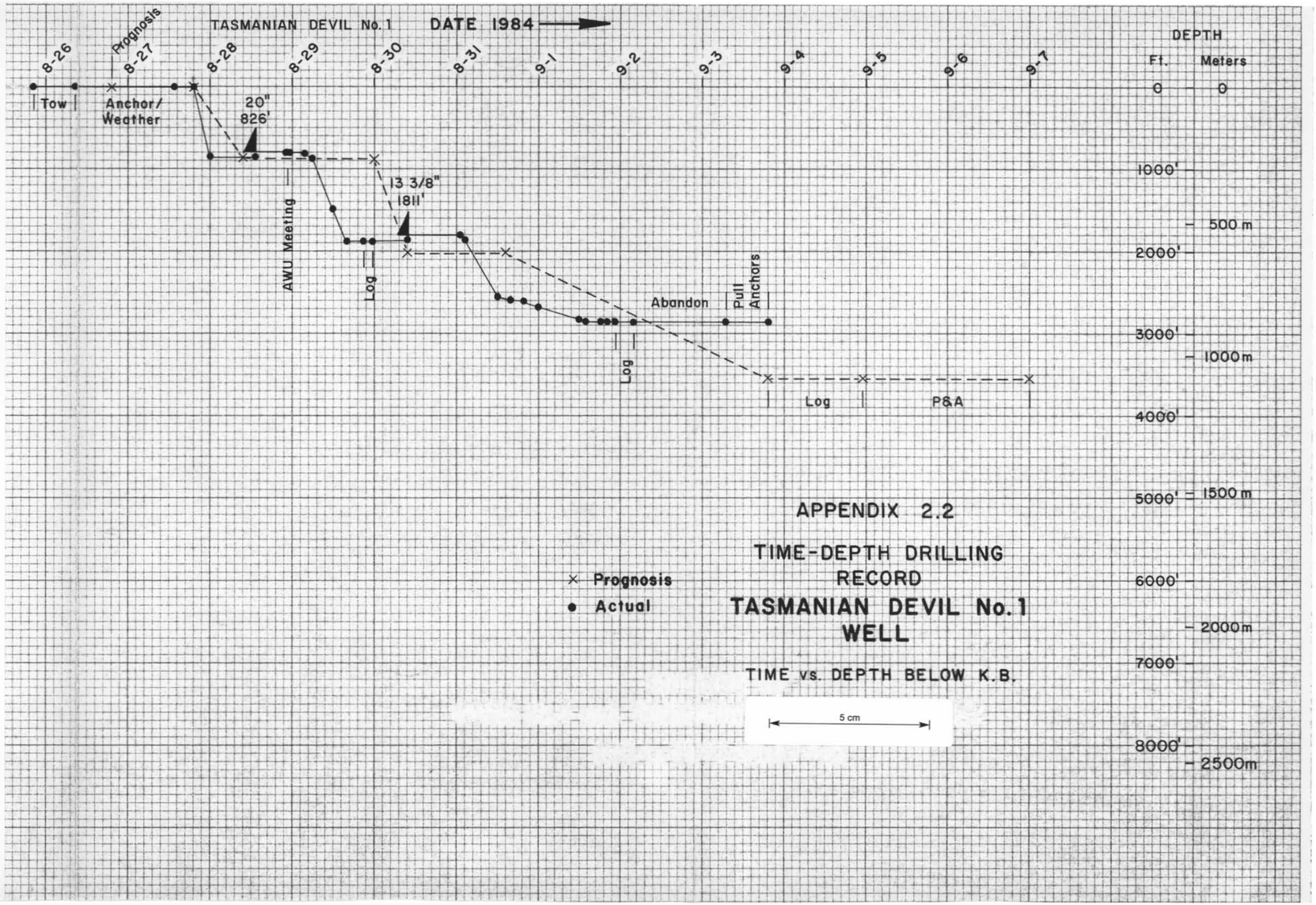
TASMANIAN DEVIL # 1

DRILLING ANALYSIS CHART

APPENDIX 2.1

DATE		BIT							SURVEY		PUMP					MUD DATA								
	DAY	BIT NO.	MAKE	TYPE	SIZE	REMARKS AND BIT COND.	DEPTH IN (m)	DEPTH OUT (m)	DEPTH	DEG.	DEPTH M	WOB K lbs.	RPM	PUMP PRES-PSI	FLOW RATE-GPM	MW Lb/Gal	FUNNEL VIS.	PLASTIC VIS.	YP	GEL	WL	H2O %	SOL %	PH
Aug 27 1984	1	1	Smith	DGJ	17½	with 26" Hole opener	96	265	265	½	305 345	5-10 5-10	140 140	2400 2900	790 980									
Aug 28 1984	2										405	5-10	140	3000	980									
Aug 29 1984	3	1RR	Smith	DGJ	17½	3X18 Jets	265	564	568	1	495	5-10	140	3000	980	9.2	46	10	12	10½	14.3	96	4	10
Aug 30 1984	4										555	10-15	140	3000	980									
Aug 31 1984	5	2RR	HTC	XDJ	12¼	3X14 Jest T7 B3 GI	564	798	798	½	775	35-40	130	3500	690	9.1	44	11	11	4/21	9.8	96	4	11
Sept 1 1984	6	3	HTC	J22	12¼	2X14 1X13 Jets T8 B8 G¼	798	863	865	½	830	40-45	70	2500	690	9.2	40	7	8	4/16	9.1	95	5	10
		2RR	HTC	XDJ	12¼	T8 B4 GI	863	864																

445050



APPENDIX 2.2

TIME-DEPTH DRILLING RECORD

TASMANIAN DEVIL No.1 WELL

TIME vs. DEPTH BELOW K.B.

APPENDIX 3

Lithological Description

The following lithological units have been compiled from ditch cuttings descriptions, wireline log interpretation and palynological analysis.

All depths quoted are below the rotary table kelly bushing.

Depth: Seafloor to 265m: (Thickness, 265m)

No samples. Returns to seafloor.

Depth: 265 - 524m (Thickness, 259m)

Bioclastic Limestone: White to very light yellow to light yellow grey, very fine to very coarse, dominantly coarse grained skeletal fragments, 5% argillaceous matrix, 5% calcareous cement, fossils include briozoans, bivalves, molluska, shell fragments, echinoid spines and forams, trace glauconite, trace mica, firm to friable, good intraskeletal porosity.

with gradations to

Limestone: As above

and

Calcarenite: As above.

Depth: 524 - 611m (Thickness, 87m)

Claystone: Light olive grey to olive grey, trace to 10% silt, 5% calcareous, 5% skeletal fragments, trace coal, soft.

Depth: 611 - 702m (Thickness, 91m)

Claystone: Medium grey brown to olive brown, trace silt, trace calcareous, trace micromica, trace carbonaceous matter, trace skeletal fragments, trace glauconite, soft and dispersive.

Depth: 702 - 724m (Thickness, 22m)

Claystone: As above, with gradations to and interbeds of

Sandstone: Translucent to very light brown grey, very fine to coarse dominantly fine to medium grained, poor to well dominantly moderately sorted, subangular to subrounded trace to 20% argillaceous matrix, trace to 20% dolomitic, trace to 5% calcareous and trace pyrite cements, trace lithic fragments, trace mica, trace skeletal fragments, firm to friable, poor visual porosity.

Depth: 742 - 864m (Thickness, 122m)

Olivine Basalt: Moderate green to medium brown to black, medium grained porphyritic texture, consists olivine, plagioclase, augite and opaques, very hard.

APPENDIX 4

445053

THE STRATIGRAPHIC PALYNOLOGY

OF

TASMANIAN DEVIL # 1

for: KIMBERLEY OIL & GAS N.L.

10th January, 1985.

Helene A. Martin,
School of Botany,
University of New South Wales,
Box 1, Post Office,
Kensington, NSW 2033,
AUSTRALIA.
(02) 697-2075.

SUMMARY OF STRATHIGRAPHIC PALYNOLOGY

445054

Depth (m)	Spore pollen Zone	Confidence	Dinoflagellate Zone	Confidence	Age	Palaeoenvironmen
		TASMANIAN DEVIL				
600-750	*P. tuberculatus*	Moderate	?	—	Early Oligocene Early Miocene	Marginal marine

Introduction

All of the assemblages are poorly preserved. The grains are frequently broken or corroded and the finer morphological details may be obliterated. This poor preservation often prevents a reliable specific identification although the objects may be referable to a genus.

All of the samples are cuttings so the assemblages must be interpreted with extra care. The top of the range of diagnostic species is probably more reliable than the first appearance for the former will be unaffected by cavings or carry down. The top of the range is not fool-proof, however, for spores and pollen may be re-worked into younger sediments.

Diagnostic species may be limited or absent from an assemblage. Under these circumstances, the nature of the assemblage as a whole may indicate the zone, although with less confidence than if the determination is based on diagnostic species. Confidence is further reduced if this approach must be used for cuttings.

SPORE POLLEN ZONATION.

Spore pollen zonation follows Stover & Partridge (1973). Partridge (1976) modified the ages of the zones somewhat and subdivided some of the zones. The Lower *N. asperus* Zone of Stover & Partridge (1973) is subdivided into an older Lower and a younger Middle *N. asperus* Zone, without diagnosis or description (Partridge 1976). A discussion of the Middle *N. asperus* Zone in Stover & Partridge (1982) shows that it is based on the species which first appear in the upper part of the Lower *N. asperus* Zone (in Stover & Partridge, 1973), e.g. *Triorites magnificus*. This discussion in Stover & Partridge (1982) is used as a diagnosis of the Middle *N. asperus* Zone.

Partridge (1976) and Stover *et. al.* (1979) list subdivisions to the *M. diversus* Zone without diagnosis or description. Under these circumstances, subdivision of the *M. diversus* Zone is not possible.

Spores and pollen identified are listed in Table 1 and the ranges of diagnostic species shown in Fig. 1.

DINOFLAGELLATES.

Dinoflagellate zonation follows Stover, Helby & Partridge (1979). The zones in this reference are much the same as those in Partridge (1976), with some minor amendments in the former. Neither of these references describe or diagnose the zones. In this report, zone determination relies upon the ranges of a few selected species (see Fig. 2). Dinoflagellates associated with the Early Oligocene - Early Miocene *P. tuberculatus* zone have not been defined. The literature on dinoflagellates of this time range is old and scanty.

For dinoflagellates identified, see Table 1.

TASMANIAN DEVIL

Preservation is much better here and there is an abundance of spores, pollen and dinoflagellates.

SPORE POLLEN ZONATION

600 - 750 m. *P. Tuberculatus* Zone, Early Oligocene - Early Miocene.

None of the diagnostic species which first appear at the base of the *P. tuberculatus* Zone are present but they are not common and are frequently lacking. None of the distinctive species whose ranges terminate at the top of the Mid *N. asperus* Zone are present either. There is no evidence of the Upper *N. asperus* Zone. The general characteristics of the assemblages fit the *P. tuberculatus* Zone and this seems the most likely.

DINOFLAGELLATE ZONATION

600 - 750 m. ?

Operculodinium centrocarpum and *Spiniferites ramosus* are the most common species here. All the other species identified are consistent with the spore-pollen determination.

PALAEOENVIRONMENT

TASMANIAN DEVIL

All of the assemblages contain diverse dinoflagellates and the environment was marginal marine.

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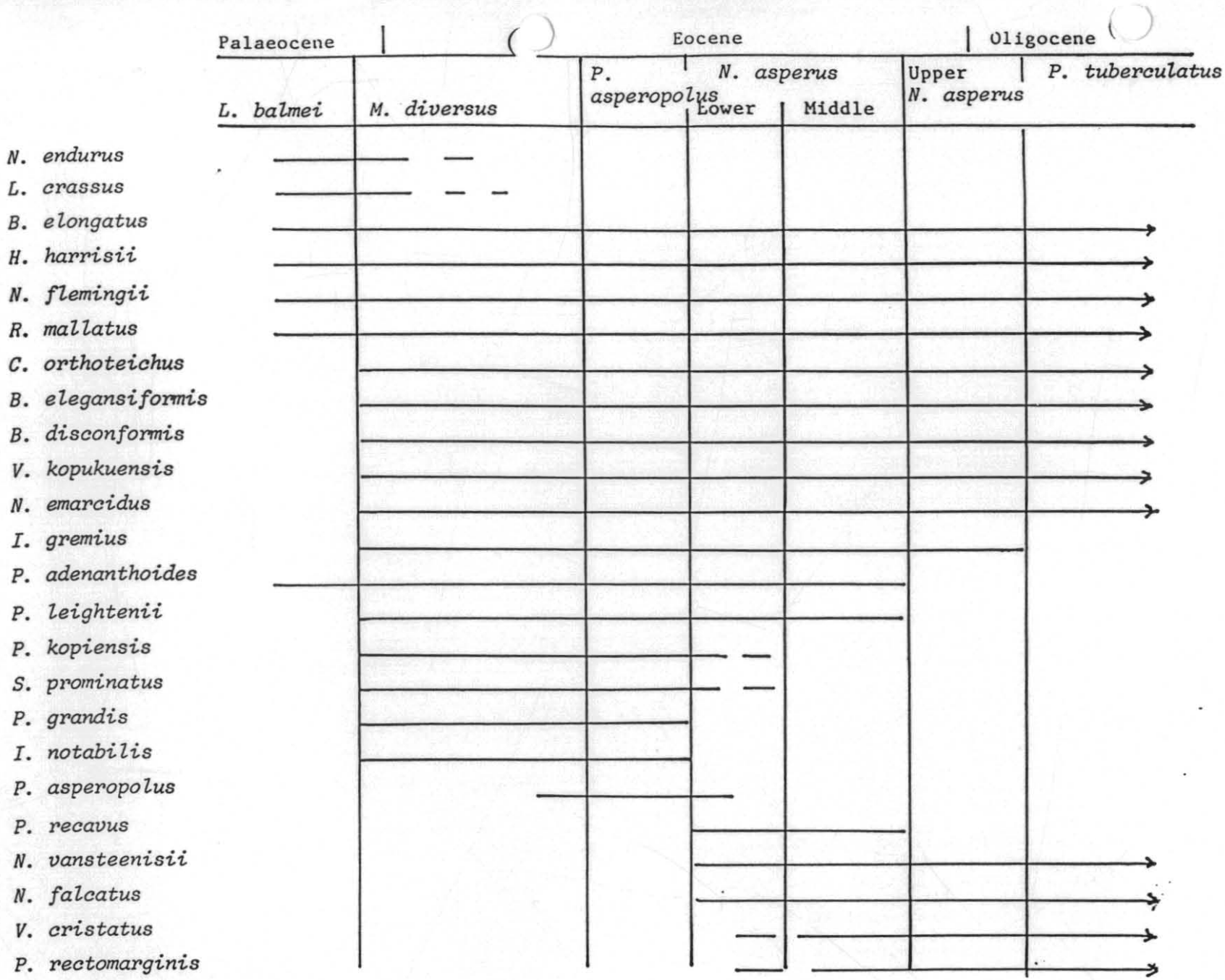

FIG. 1 - SPORE POLLEN RANGE CHART
Ranges from Stover and Partridge, 1973
Tasmanian Devil #1

Helene A. Martin, January 1985

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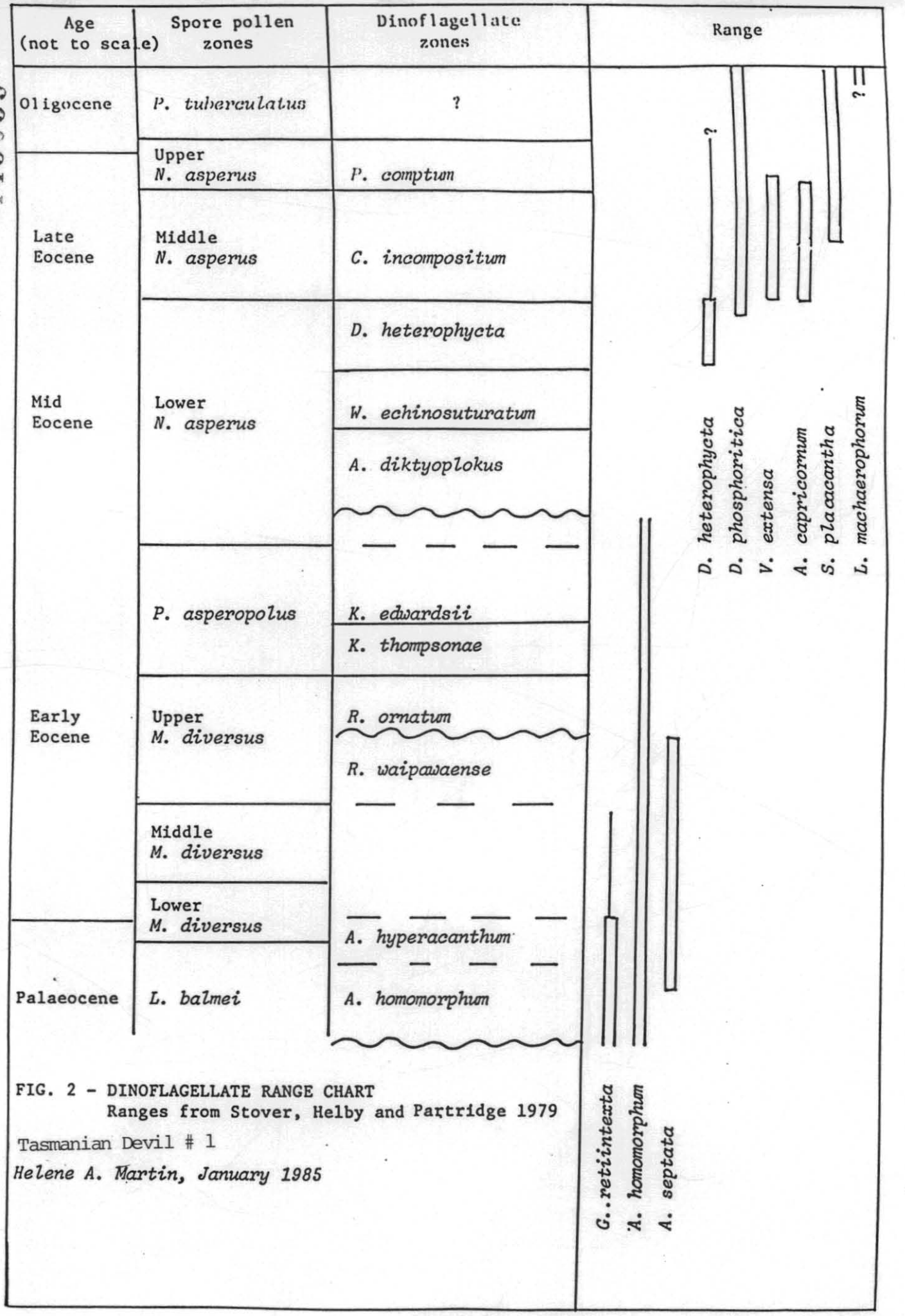

FIG. 2 - DINOFLAGELLATE RANGE CHART
Ranges from Stover, Helby and Partridge 1979

Tasmanian Devil # 1

Helene A. Martin, January 1985

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DEPTH IN METRES	SPORES Baculatisporites disconformis 3 Crassoretitriletes vanraadshooveni 8 Cyathea pateoospora 2 Cyathidites australis 1 Dictyophyllidites concavus 9 Gleichenidites circinidites 1 Inaperturopsites gremius 3 Laevigatosporites ovatus 1 Latrobosporites crassus 3 Lycopodiumsporites sp. Polypodiidites sp. Rousetisporites sp. Rugulatisporites mallatus 3 Rugulatisporites sp. Stereisporites sp. Verrucosisporites cristatus 2 V. kopukuensis 3 GYMNOSPERM POLLEN Alisporites sp. Araucariacites australis 1 Baiseacites sp.* Cupressacites 2 L. florinii Phyllocladidites mawsonii 3 Podocarpidites spp. Podosporites microsaccatus 1 ANGIOSPERM POLLEN Banksieaeidites elongatus 3 Beaupreaidites elegansiformis 3 Cupanieidites orthotenchus 3 Dilwynites granulatus 3 D. tuberculatus 9 Ericipites crassiexinus 3 Haloragacidites harrisii 3 Intratriporopollenites notabilis 3 Liliacidites sp. Malvacearumpollis sp. Malvaceoipollis diversus 3 Milfordia hypolaenoides 3 Myrtaceidites eucalyptoides 2 M. parvus 2 Nothofagidites asperus 3 N. brassii/emarcidus 3 N. dembrutus 3 N. emarcidus 3 N. endurus 3 N. falcatus 3 N. flemingii 3 N. venustensis 3 Periporopollenites demaratus 3 Polycolpites esobalteus 3 Proteacidites adenanthoides 3 P. annularis 3 P. asperopolus 3 P. grandis 3 P. tianhoensis 2 P. kopiensis 3 P. leightonii 3 P. obscurus 3 P. pseudomotes 3 P. recurvus 3 P. rectomarginis 3 P. subscabratus 9 Proteacidites spp. Quintinia petlatipora 2 Spinizonocolpites prominatus 3 Tricolpites adelaidensis 4 T. paenestriatus 3 T. sphaerica 3 Unidentified triolpate/tricolporates DINOFLAGELLATES Achomosphaera septata 7 Achomosphaera sp. Apectodinium homomorphum 6 Apectodinium sp. Apteodinium sp. Areoliniga sp. Areosphaeridium capricornum 7 Batiacasphaera sp. Cordosphaeridium inodes 6 Cordosphaeridium sp. Deflandrea heterophlycta 6 D. phosphoritica 6 Glaphyrocysta retintexta 7 Hystrichokolpoma rigaudiae 6 Hystrichosphaeridium sp. Impagidinium dispertitum 7 Impagidinium sp. Lingulodinium machaerophorum 6 Operculodinium centrocarpum 6 Operculodinium sp. Spiniferites ramosus 6 Spiniferites sp. Systematophora placacantha 6 Tasmanites globulus 5 Tectatodinium sp. Vozhenikovia antenna 6 Unidentified dinoflagellates	Spore pollen concentration Spore pollen preservation Dinoflagellate concentration Dinoflagellate preservation	Spore pollen zonation	Dinoflagellate zonation
600 - 705 705 - 750	[illegible]	P. tuberculatus	?

REFERENCES

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2. Martin, 1973
3. Stover & Partridge, 1973
4. Stover & Partridge, 1982
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8. Germeraad *et al.* 1968
9. Harris, 1965

KEY TO SYMBOLS

Ø abundant, above average
O average
+ poor, below average
Z Exceedingly poor, trace occurrence
* Reworked Permian
C common in the assemblage
+ present, average
R rare
cf similar, but with some difference to the species

TABLE 1: SPORES, POLLEN AND DINOFLAGELLATES IDENTIFIED IN TASMANIAN DEVIL NO.1

Helene A. Martin, January 1985

TASMANIAN DEVIL NO. 1

K.K. No.	Depth (m)	$\bar{R}_v$max	Range	N	Exinite Fluorescence (Remarks)
x1334	705-720 ?Ctgs	0.39	0.38-0.40	2	Rare phytoplankton, greenish yellow, rare cutinite, sporinite and alginite A, yellow. (Carbonate>>sandstone> claystone. Dom rare to sparse, E>I>V. All macerals rare. Abundant pyrite. Vitrinite may be a contaminant, such as a mud additive.)

445062

FIGURE : 1
VITRINITE REFLECTANCE AND COAL MACERAL IDENTIFICATION

CLIENT NAME : KIMBERLEY OIL& GAS DATE : NOVEMBER 1984 WELL NAME : TASMANIAN DEVIL #1

DEPTH OR SAMPLE No : 705-720 Metres SAMPLE TYPE : CUTTINGS

(Total No. of Readings = 5) 0.38 0.40 1.34 1.38 1.44

VITRINITE REFLECTANCE								MACERAL IDENTIFICATION			
POPULATION		No. of	Mean	Min.	Max.	STD.		%	%	%	%
Number	%	Readings	Ro (%)	Ro (%)	Ro (%)	Dev. (%)	Comments	Alginite	Exinite	Vitrinite	Inertinite
1	40	2	0.39	0.38	0.40	0.01	INDIGENOUS (I)	25.00	25.00	25.00	25.00
2	60	3	1.39	1.34	1.44	0.05	INERTINITE (N)	No data	No data	No data	No data

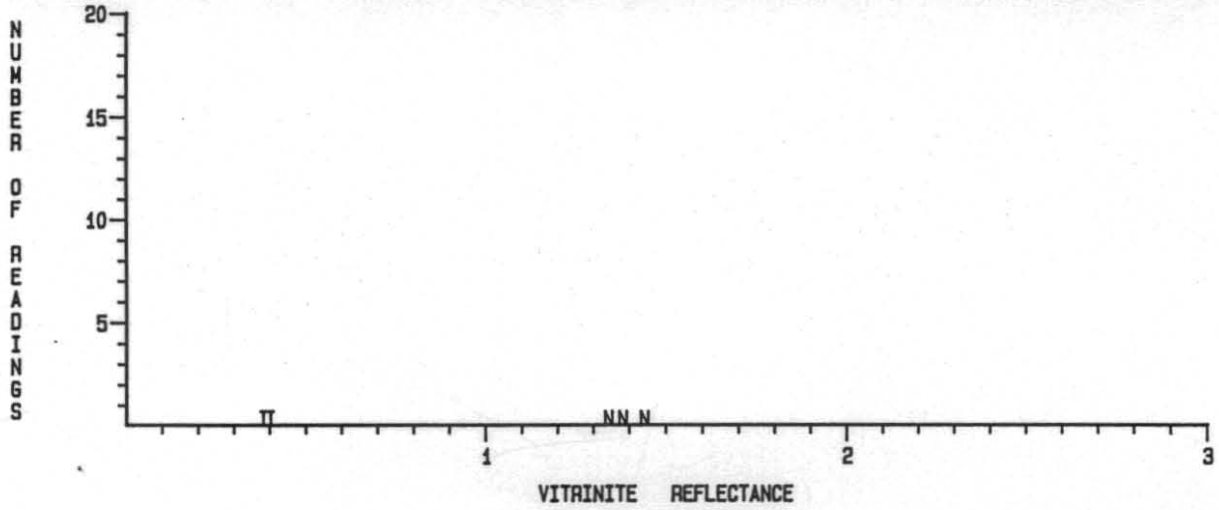

TABLE 1

ROCK-EVAL PYROLYSIS DATA (one run)

WELLNAME = TASMANIAN DEVIL #1 DATE OF JOB = OCTOBER 1984

DEPTH(m)	TMAX	S1	S2	S3	S1+S2	S2/S3	PI	PC	TOC	HI	OI
645.0- 660.0	389	0.14	0.38	3.76	0.52	0.10	0.27	0.04	0.59	64	637
705.0- 720.0	399	0.07	0.28	2.39	0.35	0.12	0.20	0.03	0.68	41	351

TMAX = Max. temperature S2
S1+S2 = Potential yield
PC = Pyrolysable carbon
OI = Oxygen Index

S1 = Volatile hydrocarbons (HC)
S3 = Organic carbon dioxide
TOC = Total organic carbon
nd = no data

S2 = HC generating potential
PI = Production index
HI = Hydrogen index

The Australian
Mineral Development
Laboratories

182 Wittenoom Street
East Perth
Western Australia 6000
Telephone 325 7311
Telex AA94893
In reply quote:

445064

amdel

3/0/0

13 November 1984

Kimberley Oil & Gas N.L.,
GPO Box W2099,
PERTH, W.A. 6001.

ATTENTION: Mr. Philip Lawry,
Senior Geologist.

REPORT GS P656/85

YOUR REFERENCE:	Service Request No. 159
IDENTIFICATION:	865 m
MATERIAL:	Drill cutting
LOCALITY:	Tasmanian Devil No. 1
WORK REQUIRED:	Petrography

Investigation and Report by: Frank Radke

Manager - W.A. Division: N.V. Blesing

for Brian S. Hickman,
Managing Director.

Head Office:
Flemington Street, Frewville
South Australia 5063
Telephone: (08) 79 1662
Telex: Amdel AA82520
Pilot Plant:
Osman Place
Thebarton S.A.
Telephone (08) 43 5733
Branch Laboratories:
Melbourne, Vic.
Telephone (03) 645 3093
Townsville, Qld.
Telephone (077) 75 1377

PETROGRAPHY OF A DOLERITE

Sample: 865 m; TSC43692

Rock Name:
Dolerite

Hand Specimen:
This sample consists of small, medium to pale grey chips up to 3 mm wide.

Thin Section:
The thin section was cut from many chips embedded in an araldite block. Most of the chips consist of plagioclase feldspar laths which are intergrown with clinopyroxene. Olivine is also present in the rock as intergrowths with the plagioclase and as individual grains up to 0.5 mm wide. This rock is generally quite fresh with the plagioclase showing only incipient alteration to finely divided sericite/clay and the clinopyroxene showing localized alteration to a green chlorite. The olivine in particular tends to be quite fresh showing only slight alteration to reddish-brown, iddingsitic material.

In addition to the dolerite chips small amounts of calcite occur in chips up to 1.5 mm wide. Most of the calcite chips have a coarsely granular texture although some very finely granular calcite chips are present.

This sample consists mainly of small dolerite chips quite similar to the dolerites described in report G 6145/85.

The Australian
Mineral Development
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182 Wittenoom Street
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Telephone 325 7311
Telex AA94893
In reply quote:

445066

amdel

3/0/0

13 November 1984

Kimberley Oil & Gas N.L.,
GPO Box W2099,
PERTH, W.A. 6001.

ATTENTION: Mr. Philip Lawry,
Senior Geologist.

REPORT GS P613/85

YOUR REFERENCE:	Service Request No. 155
LOCALITY:	Tasmanian Devil No. 1
IDENTIFICATION:	775 m and 865 m
WORK REQUIRED:	Petrography
DATE RECEIVED:	25 October 1984

Investigation and Report by: Frank Radke

Manager - W.A. Division: N.V. Blesing

for Brian S. Hickman,
Managing Director.

Head Office:
Flemington Street, Frewville
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Telephone: (08) 79 1662
Telex: Amdel AA82520
Pilot Plant:
Osman Place
Thebarton S.A.
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Branch Laboratories:
Melbourne, Vic.
Telephone (03) 645 3093
Townsville, Qld.

PETROGRAPHY OF TWO DOLERITES

Sample: 765-780 m; TS45676

Rock Name:
Dolerite

Hand Specimen:
This sample consists of medium grey coloured chips up to about 1 cm in size.

Thin Section:
The thin section was cut from several chips most of which are comprised of plagioclase intergrown with mafic minerals. The mafic minerals consist mainly of clinopyroxene which forms prismatic to anhedral grains generally located interstitially between the plagioclase laths. Most of the clinopyroxene has a relatively coarse grain size but some of the chips contain granular, interstitial clinopyroxene. Both the clinopyroxene and plagioclase are very fresh although some of the clinopyroxene shows localized alteration to a green chloritic phyllosilicate.

In addition to the clinopyroxene the rock also contains some completely altered mafic crystals believed to represent disseminated olivine. In most cases these crystals now consist of green to reddish-brown iron-stained phyllosilicates although in one chip they have been replaced by granular calcite.

This sample contains a very small number of chips considered to be of sedimentary origin which includes some fine-grained sandstones as well as some limestones comprised of granular calcite mosaics.

This sample consists mainly of dolerite chips which are considered to represent a shallow basic intrusive rock such as a dyke or sill.

Sample: 865-880 m; TS45677

Rock Name:
Dolerite

Hand Specimen:
This sample consists of small, angular chips up to 3 mm wide.

Thin Section:
The thin section was cut from numerous chips which consist mainly of plagioclase and clinopyroxene. The sample is texturally very similar to the previously described sample although the chips are much smaller and it is possible that the rock could have a slightly finer grain size. The chips consist mainly of randomly oriented plagioclase laths intergrown with clinopyroxene and minor olivine. The olivine is generally replaced by phyllosilicates which have a reddish-brown iron-stained colour although some relatively fresh olivine crystals with iddingsite rims and fracture linings are present. The clinopyroxene is generally quite fresh although it locally shows some alteration to a green chloritic phyllosilicate.

A few chips comprised mainly of calcite which tends to be intergrown with opaque to translucent iron oxides imparting a turbid character to it are present. The rock also contains some more coarsely granular calcite chips believed to represent fragments of limestone. A few fine-grained sedimentary rock fragments are also present.

This sample is very similar to the sample from 765-780 m and is comprised mainly of dolerite chips believed to represent a shallow basic intrusive rock such as a dyke or sill.

445069

UNPUBLISHED REPORT 1984/74

Igneous rocks from Tasmanian Devil #1

by P.W. BAILLIE
A.V. BROWN

TASMANIA DEPARTMENT OF MINES

1984/74. Igneous rocks from Tasmanian Devil #1

445070

P.W. Baillie
A.V. Brown

Abstract

Tasmanian Devil #1 bottomed in Tertiary alkali olivine basalt and not granite basement. Detailed petrological and petrographic information is presented.

INTRODUCTION

Tasmanian Devil #1, a hydrocarbon exploration well, was drilled in the Bass Basin on behalf of a consortium headed by Weaver Oil and Gas. The well was located at 40°44'16.209"S, 146°09'44.958"E and penetrated 863 m before being plugged and abandoned as a dry hole.

The Completion Report submitted by Triton Engineering Services Company Ltd indicates the following stratigraphy:

Pliocene/Miocene limestone	ML - 508 m
Pliocene/Miocene claystone	508 - 589 m
Eocene Shale (Demon's Bluff)	589 - 680 m
Sand	680 - 701 m
Claystone	701 - 720 m
Volcanic rocks	720 - 830 m
Granite basement	830 - 863 m

Preliminary examination of the wireline logs raised doubts as to whether granite basement had been penetrated, which resulted in a follow-up petrological analysis of ditch cuttings, these being the only material available to work with as no cores were cut nor side-wall cores shot.

LOGGING RESULTS

Volcanic rocks were first detected by the mud-loggers at 736 m where they record the presence of - "*Diorite* - medium brown-black, fine-grained, very hard, crystalline (rock with) feldspar, hornblende, opaques, minor quartz". The same rock was reported over the interval 736-855 m.

From 855-863 m the mud-loggers recorded the presence of - "*Granite* - white-grey, very hard, coarse-grained, crystalline (rock with) feldspar, quartz, biotite, opaques".

It will be noted that there is a difference of 25 m between the initial recording of "granite" by the mud-loggers, and the depth of intersection quoted by Triton in the Completion Report.

The following wireline logs were run:

DIL - SLS - CAL - GR - SP	Run 1	(251-561 m)
DIL - SLS - CAL - GR - SP	Run 2	(552-861 m)
LDL - CNL - GR	Run 1	(552-862 m)

Of relevance to this report is the section 700-863 m. All the logs show a pronounced change of character below 750 m, but are best observed on the resistivity (DIL) and sonic (SLS) logs. The velocity gradually increases from 150 µs/ft at 750 m to 60 µs/ft at 765 m. Velocity then very slowly increases to 50 µs/ft at 852 m. A similar gradual, then slow

increase is shown by the three resistivity curves. This pattern is interpreted as either a weathered zone (750-760 m), or a highly fractured upper igneous contact, above a massive igneous body.

The possibility of the presence of a weathered zone is increased by the density log which shows an increase in density from 1.90 g/cc (750 m) to 2.80 g/cc (765 m) and then constant at 2.80 g/cc to 863 metres.

Because of the lengths of the various sondes it is not possible to confirm if there is a change in lithology at 855 m, although there is no obvious change from basalt to granite at 830 m, as suggested in the Triton Completion Report.

PETROGRAPHIC DESCRIPTIONS

Thin sections were prepared of cuttings samples from 815 m, 835 m, 850 m, 855 m, 860 m, 865 m (sic.). The thin sections were made from 275 mm diameter grain mounts, each thin section containing approximately 250 grains.

In all six thin sections at least 95% of the grains present are olivine-bearing basalt, similar to the Tertiary alkali olivine basalts found onshore in north-western Tasmania in the Burnie-Waratah basalt field. At the Waratah end of this tract the basalts are interbedded with sediments which have yielded an earliest Oligocene microflora (Brown and Forsyth, 1984).

Thin section description

865 m (sic.): Texture ophitic to intergranular, with titanaugite and opaque mineral grains interlocked by plagioclase laths. Clinopyroxene is a purplish pink (titaniferous) augite which occurs as discrete grains or grains enclosing an opaque mineral.

Also present in the slide are four grains of recrystallised carbonate and one grain of vesicular basaltic glass.

860 m: Texture dominantly intergranular, with plagioclase laths interlocking and surrounding olivine and opaque mineral grains.

In this slide is one grain of fossiliferous calcarenite and one grain of a quartz phyllite similar to phyllites from the Precambrian of north-western and western Tasmania.

This sample contains the highest degree of alteration observed in the six slides.

855 m: Medium-grained olivine-phyric basalt. Olivine grains are surrounded by interlocking plagioclase laths with an intergranular texture. Interstices are filled by anhedral titaniferous augite and a black opaque mineral (Fe-Ti oxide). A minor percentage of grains consist of plagioclase microlites in a black glass and olive-green to brown fibrous material replacing devitrified glass.

850 m: Texture more ophitic than intergranular. Minor grains are devitrified glass, some with feldspar microlites. One to two grains of pyritised basalt are present.

835 m: Similar to above, some alteration is present. Percentage of devitrified glass is higher than 850-865 m and the texture is dominantly intergranular.

815 m: Similar to above. Texture is variable from ophitic to intergranular. Two grains of phyllite have been largely replaced by carbonate.

MINERAL CHEMISTRY

Polished thin sections were prepared from the 275 mm grain mounts prepared from material taken from the 815, 835, 850 and 855 m samples. For each sample, five areas were chosen that contained all four (or most of the four) mineral components of the basalt. Analysis of the mineral grains was carried out using the Jeol JXA-50A Electron Probe Microanalyzer at the Central Science Laboratory of the University of Tasmania.

The four mineral phases present are olivine, feldspar, clinopyroxene and Ti-Fe oxide. Each of the phases shows a similar compositional range between and within each sample, indicating that each sample represents a homogenous grouping of grains from a very similar source rock.

Olivine

The variation in composition of the olivine crystals does not reflect any gradation or differentiation and, with the exception of large olivine phenocrysts in sample TD 855, all ranges were recorded in each sample.

The larger olivine phenocrysts have an average composition of $Fo_{71.5}$ (4 grains) with the smaller olivine phenocrysts being $Fo_{66.5}$ (4 grains). Groundmass olivine averages $Fo_{60.5}$.

These values are less magnesian than the lower-most alkali olivine basalts so far studied on the Tasmanian mainland, but only reflect a normal differentiation trend between alkali olivine basalt and olivine-bearing tholeiite.

Clinopyroxene

The clinopyroxene grains in all four samples are a titaniferous, high calcic augite [Ca; Mg; Fe; = 44.4; 42.6; 13.0] with an average of 1.36 wt% TiO_2 (20 grains). Some samples (3 grains) contained greater than 0.20 wt% Cr_2O_3 (up to 0.39 wt%). In comparison with clinopyroxene from other Tasmanian alkali olivine basalt the variation in composition in (Ca, Mg, Fe) is insignificant, but the grain analyses have slightly lower TiO_2 and Cr_2O_3 contents, again consistent with the olivine composition and due to a degree of differentiation of source magma.

Plagioclase

Although a range of feldspar compositions occur, the variations recorded occur in each of the four samples. The most calcic plagioclase is a calcic labradorite ($An_{64.3}$ - average of 7 grains). A second labradorite has a composition of $An_{56.2}$ (average of 7 grains), and a high-calcic andesine, $An_{46.5}$ (5 grains) is also present. The variation in composition is more likely to be due to alteration than original composition variations.

A second feldspar present displays diffuse albite twinning and has a larger grain size than the labradorite-andesine laths. The composition suggests that it is an intergrowth of plagioclase and K feldspar. Two compositional variations were recorded; one having a composition of [Ca; Na; K; = 14.2, 62.8, 23.0] (2 grains) occurred in TD 815 and TD 835, whereas in TD 835, 850 and 855 a second intergrowth with a composition of [Ca, Na, K = 3.9; 46.6; 49.6] occurs.

Opaque minerals

Analyses of the majority of opaque mineral grains (15 grains) were uniform throughout the four samples, and showed the mineral to be ilmenite. The minor opaque phase (5 grains) is a titaniferous magnetite. In comparison with other Tasmanian alkali olivine basalts the opaque phase is higher in TiO_2 content, and forms ilmenite at a higher temperature than titaniferous magnetite. The presence of ilmentite could also explain the low TiO_2 content of the clinopyroxene in these samples, as in most cases the ilmenite appears to crystallise before clinopyroxene.

DISCUSSION

Each of the four samples contains mineral grains which display a small compositional range, consistent with all the grains having come from a similar source. The nature of sampling precludes easy recognition of individual flows. Within onshore Tertiary basalt fields flows range in thickness from approximately one metre to about 10 m (Brown and Forsyth, 1984). Flows of alkali olivine basalt in excess of 50 m thick are not considered to be likely, given the low viscosity of alkali olivine basalt lava, grain size observed in the samples, and lack of chemical variation.

A possible flow top occurs at 822 m and is indicated by a one inch increase in hole size and a decrease in density from 2.9 g/cc to 2.6 g/cc. A corresponding decrease in resistivity indicates the presence of water, consistent with the top of a ?weathered flow.

Other possible flow tops are present at 841 m and in the zone 750-780 m.

CONCLUSION

The mineral chemistry, petrographic observations and comparison with Tertiary basalts exposed onshore in north-western Tasmania all support the conclusion that the samples from Tasmanian Devil #1 are alkali olivine basalts, transitional to olivine-bearing tholeiites, and probably of Oligocene age.

No evidence to support the presence of granite basement was observed.

REFERENCE

BROWN, A.V.; FORSYTH, S.M. 1984. Chemistry of Tertiary basalt, and palynology of interbedded sediments from B.H.P. drill holes, E.L. 33/79. *Unpubl.Rep.Dep.Mines Tasm.* 1984/39. (closed file report).

[6 November 1984]

APPENDIX 5

TASMANIAN DEVIL NO. 1.

445074

1. Summary

1.1 Logs Available

Run No.	Date	Interval (m RT)	Tool	BHT (^oC)	Log Scales
1	29/8/84	562.5 - 251*	DIL-SLS-GR	43.3	1/200, 1/500
2	1/9/84	862.5 - 552	DIL-SLS-GR	54.5	1/200, 1/500
	2/9/84	863.0 - 552	LTL-CNL-GR	54.7	1/200, 1/500

*GR to seafloor

1.2 Hole Details

Run No.	Casing Size	Casing Shoe at (m)	Hole Size	Mud Density	Mud Type
1	20"	251	17 1/2"	9.3	Lig-CMC-Gel
2	13 3/8"	552	12 1/4"	9.1	Lig-Dex-Gel

1.3 Mud Resistivities

Run No.	Rmf @ Temp m	Rmf @ Temp ^oC	Rm @ Temp m	Rm @ Temp ^oC	Rmc @ Temp m	Rmc @ Temp ^oC	Rmf @ Temp m	Rmf @ Temp ^oC
1	0.580	17	0.707	17.5	1.040	16.5	0.345	43.3
2	0.566	16	0.689	15.5	0.951	15	0.279	54.5

1.4 Interpretation Summary

Formation	Net/Gross m sand/m total	Effective Ø	V Clay (%)	Rw(m) (m)	Sw (%)
Torquay Group					
Sandy interval 702-723m	21/21	35	45	0.21	100+

2. Interpretation

2.1 Run 1

Examination of Run 1 logs indicated no potential hydrocarbon zones, and a quantitative analysis was not undertaken.

2.2 Run 2

2.21 RW Calculations

RW was calculated using the SP curve for the one interval that showed a deflection (702-723m). Using an SSP defelction of -18mv, an RW of 0.21 ohm m @ 47 C was calculated. (18900 ppm NaCl equivalent).

2.22 Porosity Calculation

Øs calculated using Whyllie Time Average equation together with a compaction factor of 1.6.
ØND calculated using the standard crossplot.

2.23 RT Calculation

RT calculated using a tornado chart to correct for invasion.

2.24 Vshale and Rshale

Vshale calculated using GR as an indicator, a Rshale of 0.6 ohm m was chosen.

2.25 Values of a, m & n

Standard values of a, m & n were used, 0.81, 2 and 2 respectively.

2.26 SW Calculation

SW was calculated using the Indonesian Equation.

2.3 Results

Only one interval (702 - 723m) had any reservoir potential.

Zone (m)	GR (API)	RT (ohmm)	t (s/m)	Øs (%)	ØND (%)	Vsh (%)	SW (%)
703-704	39	0.43	140	39	35	30	100+
712-714	55	0.32	130	35	38	58	98
720-722	47	0.47	140	39	39	42	92

3. Summary

3.1 No hydrocarbon bearing zones are indicated on the logs.

COMPANY: WEAVER OIL & GAS AUSTRALIA
SPUDDED: August 27, 1984
COMPLETED: 3/9/84 T.D.: 864m BRKB
STATUS: P & A ELEV. ~~GL/SK~~: WD: 73.8m
K.B.: 21.9m ASL
SUBSIDY: ~~YES~~/NO 1st FLANGE:

WELL TASMANIAN DEVIL No. 1
BASIN: Bass
TENEMENT: T 16 P
LAT.: 40 44'16 "209S LONG.:146 09' 44 "958E
NORTHING: - EASTING: -

FORMATION / MARKER	KEY	TOPS (m) DRILL	TOPS (m) SUB SEA	LITHOLOGIC SUMMARY / PALEO DATING	REMARKS / SHOWS
KB		0	+21.9		
SL		21.9	0		
Bioclastic Limest(SB)		96	- 74	limestones	
Torquay Group		524	-502	claystone	
Olivine Basalt		742	-720	basalt	
TD		864	-842		

CORES

No	DEPTH (m)	REC	LITHOLOGY	No	DEPTH (m)	REC	LITHOLOGY

LOGS

DIL ☑ SLS ☑ LDT ☑ CNL ☑ HDT ☐ CDM ☐ GRN ☐ CBL ☐ CCL ☐ ☐
MUD ☑ C GPH ☐ PWL ☐ REPORT ☑ ☐ ☐ ☐ ☐ ☐ ☐

SWC NIL DITCH SAMPLES: FROM 251 TO 863m STORED BMR, TMD, UTS

CASING TUBING								
SIZE (" x lb/ft)	20/133	13 3/8	/68					
LANDED AT (m)	252	552						
CEMENT (SACKS)								

TEST RESULTS; FLUID ANALYSES, LOST CIRCULATION (INTERVALS, CAUSES); PLUG TOPS; REMARKS

plug No. 1 512 - 582m
No. 2 141 - 221m

No indications of hydrocarbons

APPROVED: BY: REVISED: ISSUED: WELL INDEX SHEET WEAVER

445677 ENCLOSURE 1

WEAVER OIL AND GAS CORPORATION AUSTRALIA

TASMANIAN DEVIL No.1

COMPOSITE WELL LOG

Scale 1:500

PERMIT:	T-1-P	DATE SPUD:	August 27 1984	MUDLOGGING:	Geomaster
LOCATION: Lat.	42° 44' 44.204" S	DATE T.D:	September 1 1984	CEMENTING:	Halliburton
Long.	147° 14' 44.976" E	DATE RIG RELEASED:	September 5 1984	WELLSITE GEOLOGISTS:	Philip J. Lowry
ELEVATION:	K.B. 312m (1025ft)	DRILLING CONTRACTOR:	Diamond Ski Drilling Co.		
	G.L. 309.3m (1015ft)	RIG:	Ajax		
TOTAL DEPTH:	1.9 Km (6234ft)	MUD COMPANY:	Tri-Mac Engineering Services Co.	LOG COMPILATION:	Philip J. Lowry
	864m - 2.83Km	DRILLING LOGGING:	Schlumberger Dowell	DRAFTING:	Wendy L. Mitchell
STATUS:	Plugged and Abandoned				

DISPLACED LOGS

RUN No.	1	2
DATE	29/8/84	1/9/84
LOG TYPE(s)	DIL-GL-SGR-SP-CAL-GLS-GR-SP	
INTERVAL	50-864m	852-864m
MUD TYPE	LIGNOSAL/KCL	LIGNOSAL/KCL
MUD DENSITY	9.0 lb/gal	9.1 lb/gal
Rmf AT TEMP	0.065 ohm m 23.5°C ohm m	
MEAS. BHT	45.0°C	34.0°C

OTHER LOGS & SURVEYS

TYPE	Run No.	INTERVAL
LDL-CNL-GR	2	852-861m

HOLE SIZE

SIZE	INTERVAL
26"	20-265m
17 1/2"	265-552m
12 1/4"	544-864m

CASING

SIZE	WEIGHT	INTERVAL
20"	133 lb/ft	20-265m
13 3/8"	68 lb/ft	20-552m

PLUGS

TYPE	INTERVAL
Cement No.1	512-562 m
Cement No.2	161-220m

PERFORATIONS

DST Nº	SPACING	INTERVAL
None		

LITHOLOGY LEGEND

ROCK TYPE: Conglomerate, Sandstone, Siltstone, Claystone, Shale, Limestone, Dolomite, Coal, Chert, Chert/Porcellanite, Porcellanite, Volcanics, Volcaniclastics, Igneous, Metamorphic, Marl, Evaporite, Pebbles, Boulders, Cobbles, Granules, Gravel, Fossiliferous, Calcareous, Glauconitic, Pyritic, Micaceous, Carbonaceous, Bituminous, Tuffaceous, Cherty, Sandy, Silty, Shaly, Pebbly, Dolomitic, Glauconitic, Tuffaceous, Fossiliferous, Pyritic, Micaceous, Carbonaceous, Bitumin

ENCLOSURE 2.

Schlumberger OILFIELD SERVICES SA MASTERLOG

OPERATOR

WELL: NEA-1 (GA)

LOCATION: NEA-1 (GA) EXPLORATION DRILLING

COUNTRY: ALGERIA

Spud Date: 25-8-84

Completion Date: 25-8-84

Total Depth: 1000m

Drilling Contractor: Sonatrach

Rig: Sonatrach Rig

Drilling Fluid: Water Based Mud

Max. Deviation: 0°

Max. Dogleg: 0°

Casing Shoe: 30" Casing Shoe 20m

Casing Shoe: 13 3/8" Casing Shoe 270m

Casing Shoe: 9 5/8" Casing Shoe 575m

Casing Shoe: 7" Casing Shoe 1000m

Bit Size: 17 1/2" 270m

Bit Size: 12 1/4" 575m

Bit Size: 8 1/2" 1000m

Bit Type: Tricone

Bit Type: Tricone

Bit Type: Tricone

445/79 ENCLOSURE 3

DATE DRILLED: August 27, 1979

DATE ABANDONED: September 3, 1984

PROJECT: T-16-P

WELLSITE LITHOLOGY LOG

TASMANIAN DEVIL NO.1

LATITUDE: 40°47'16.206"S LONGITUDE: 148°20'46.938"E

ELEVATION GROUND / K.B.: 73.8m

ELEVATION RT / K.B.: 35.7m

WATER DEPTH: 37.9m

TOTAL DEPTH: 2012m

DRILLING: LEGRAND

ROCK TYPES

CEMENT

ACCESSORIES

MATRIX

ROUNDED, FRAC

ROUNDED

ANGULAR

ANGULAR, FRAC

SORTING

VERY WELL SORTED

WELL SORTED

MOD. SORTED

POOR SORTED

VERY POOR SORTED

GRAIN SIZE

VERY COARSE

COARSE

MEDIUM

FINE

VERY FINE

CRYSTALLINE

CRYPTO CRYSTALLINE

GLASSY

ROUNDNESS

VERY ROUNDED

ROUNDED

SUBROUNDED

ANGULAR

VERY ANGULAR

CLAST

CLAY CLASTS

SILTY CLASTS

SANDY CLASTS

GRAVEL CLASTS

COBBLE CLASTS

BOULDER CLASTS

CHERT CLASTS

CHERT CLASTS WITH CLAY

CHERT CLASTS WITH SILT

CHERT CLASTS WITH SAND

CHERT CLASTS WITH GRAVEL

CHERT CLASTS WITH COBBLES

CHERT CLASTS WITH BOULDERS

CHERT CLASTS WITH CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS

CHERT CLASTS WITH CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS, MATRIX

ENG. DATA	DEPTH (m)	LITHOL.	ROCK Type %	SORTING	ROUNDNESS	GRAIN SIZE	MATRIX Type %	CEMENT Type %	ACCESS Type & %	P	CHERT	C.C.	DESCRIPTION SUMMARY AND REMARKS
	0												
	10												
	20												
	30												
	40												
	50												
	60												
	70												
	80												
	90												
	100												
	110												
	120												
	130												
	140												
	150												
	160												
	170												
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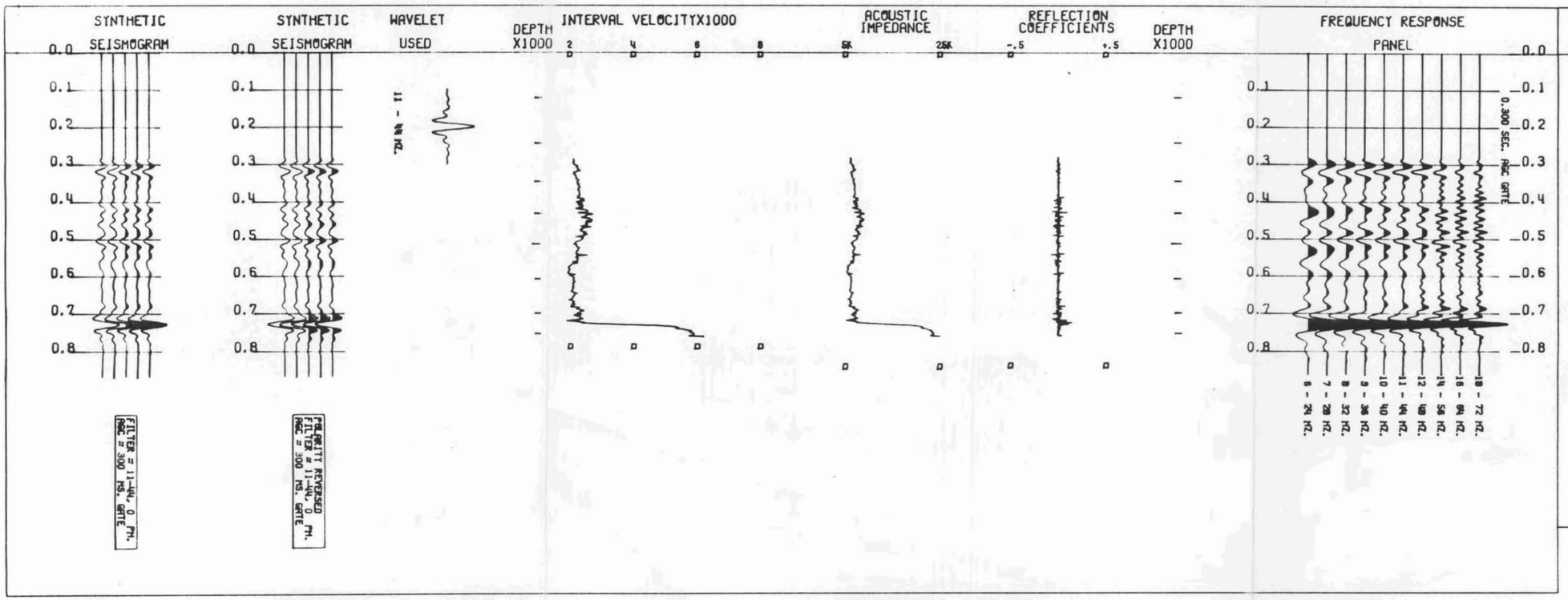

PETROPHYSICS, INC.
HOUSTON, TEXAS (713) 850 1288

SEISMIC TIME CONVERSION

CLIENT: EXPL. ASSOC. INTERNATIONAL

WELL ID: WEAVER, O&G, #1 T. DEVIL

LOCATION: TASMANIA, AUSTRALIA

LOG TYPE: SONIC

VELOCITY: 1650 M/S INTG SONIC

DATUM: SEA LEVEL

LOG REF(KB): +22

DATE: 24 SEP 84

ENCLOSURE 4

5 cm

TASMANIAN DEVIL - 1

445081

ENCLOSURE 5

FINAL REPORT
OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.
PROJECT 1511

FOR
TRITON ENGINEERING SERVICES
COMPANY LTD. (U.K.)

TASMANIA, AUSTRALIA
AUGUST 1984

WELL LOCATION TASMANIAN DEVIL #1

ONA

OFFSHORE NAVIGATION,
(AUSTRALIA) PTY. LTD.

445082

FINAL REPORT

OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.

PROJECT 1511

FOR

TRITON ENGINEERING SERVICES COMPANY LTD. (U.K.)

WELL LOCATION TASMANIAN DEVIL #1

TASMANIA, AUSTRALIA

AUGUST 1984

445083

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APPENDIX A - Daily Operations Logs

APPENDIX B - The Maxiran Radiopositioning System

I. INTRODUCTION

Offshore Navigation (Australia) Pty. Ltd.(ONA), under contract to Triton Engineering Services Company Ltd. (U.K.), (TRITON), employed a Maxiran Radiopositioning System to position the Drilling Vessel (D/V) DIAMOND M EPOCH on a location that was designated by TRITON as:

WELL LOCATION TASMANIAN DEVIL #1

The survey was conducted in the Bass Strait, off the coast of Tasmania, Australia. The well was located approximately 35 kilometers north of Penguin, Tasmania.

The ONA base of operation was established at Station Doctors Rocks on 17 August 1984.

II. FIELD OPERATIONS RECAP

The Maxiran system required for this operation had been stored in the area at the completion of the Well Location SQUID #1 survey. The Maxiran base station equipment was stored in Devonport, and the Maxiran mobile equipment was stored at a TRITON warehouse in Welshpool, Victoria. The Maxiran towers and hardware had remained erected on board the M/V BASS TIDE.

At the request of TRITON representative, Mr. C. Thomasson, ONA personnel began mobilization activities in Perth, W.A. on 30 July 1984, and travelled to Melbourne, Victoria on 31 July. The ONA mobile operator travelled to Welshpool on 1 August 1984 and installed the stored Maxiran mobile equipment on board the M/V BASS TIDE that same date.

The ONA party chief/base operator and two base operators travelled from Melbourne to Devonport on 1 August 1984. Station Doctors Rocks and Point Sorell were installed and operational on 2 August, and Station The Nut was installed and operational on 3 August 1984.

II. FIELD OPERATIONS RECAP (continued)

The M/V BASS TIDE departed Port Welshpool on 1 August 1984 and proceeded to the D/V DIAMOND M EPOCH, which was still drilling at Well Location SQUID #1. The vessel arrived at the rig at 1330 hours 2 August and remained at the site until 0200 hours 7 August 1984, at which time the vessel returned to Port Welshpool.

Due to difficulties being experienced at Well Location SQUID #1, the rig move to Well Location TASMANIAN DEVIL #1 was delayed 8 to 10 days. The ONA party chief/base operator was advised by Mr. C. Thomasson at 1000 hours 7 August 1984 to dismantle the Maxiran system. The three base stations were dismantled and stored at Hertz Devonport on 8 August 1984, and the ONA base operating personnel were released and departed the area.

The M/V BASS TIDE arrived at Port Welshpool at 0900 hours 7 August 1984. At the request of TRITON, the Maxiran towers and hardware remained erected on board the vessel and the Maxiran mobile equipment was removed and stored at the TRITON warehouse in Welshpool. The ONA mobile operator was released 7 August 1984 and departed the area.

II. FIELD OPERATIONS RECAP (continued)

The ONA mobile operator returned to Welshpool on 15 August 1984 and installed the Maxiran mobile equipment on board the M/V BASS TIDE that same date. The ONA party chief/base operator and two base operators returned to Devonport on 16 August. Installation of the Maxiran base station equipment on the three sites required to control the survey began on 17 August. Installation was not completed until 19 August 1984 due to weather conditions grounding the helicopter.

The M/V BASS TIDE departed Port Welshpool at 1515 hours 15 August 1984 and proceeded to the D/V DIAMOND M EPOCH, arriving at 0110 hours 16 August. The vessel stood by the rig for completion of drilling operations at Well Location SQUID #1. On completion of drilling operations, weather conditions caused a delay in picking up of the rig anchors. An attempt to pick up anchors began at 0500 hours 22 August, but was discontinued at 1030 hours that same date due to rough weather conditions. The weather subsided, and anchor handling operations resumed at 1300 hours 25 August 1984.

II. FIELD OPERATIONS RECAP (continued)

The M/V BASS TIDE departed departed the rig at 2000 hours 25 August 1984 and proceeded to the Well Location TASMANIAN DEVIL #1, arriving in the location area at 2345 hours that date. The buoy pattern was set and checked between 2345 hours 25 August and 0120 hours 26 August 1984.

The M/V EASTERN TIDE was utilized to tow the D/V DIAMOND M EPOCH onto location and to handle anchors. The rig arrived at the well site, and anchoring operations began at 0748 hours 26 August 1984. The anchors were secured, and the final Maxiran reading was recorded at 1443 hours 27 July 1984. See Appendix A, Daily Operations Logs, of this report for details of operation.

Dismantling of the Maxiran base stations began on 28 August 1984 and was completed on 29 August. The M/V BASS TIDE returned to Port Welshpool at 0835 hours 28 August. The Maxiran mobile installation was removed from the vessel, and the ONA mobile operator and Maxiran mobile equipment required for post-calibration travel via air to Devonport. This mobile equipment was installed at

II. FIELD OPERATIONS RECAP (continued)

Station Doctors Rocks, and the Maxiran base station equipment was installed at Station Point Sorell. a post-calibration of the Maxiran system was conducted between 0930 and 1100 hours 29 August 1984. See "Maxiran Post-Calibration" of this report for details.

On completion of the Maxiran post-calibration, all equipment was packaged and loaded on a truck. The vehicle departed Tasmania on board the EMPRESS OF AUSTRALIA on 30 August 1984 and travelled to Melbourne. The truck proceeded to the TRITON Welshpool warehouse on 31 August, picked up the balance of the Maxiran mobile equipment, and proceeded to Perth, W.A.

The ONA party chief/base operator, mobile operator, and one base operator were released on 31 August 1984. The second ONA base operator drove the equipment truck to Perth, and was released on his arrival in Perth on 5 September 1984.

III. GENERAL INFORMATION

A. Maxiran frequencies used were:

Mobile Transmitter	429 MHz
Base Transmitter	429 MHz

B. Satisfactory radiotelephone communications were maintained between the Maxiran stations on the frequencies of 7840.0 and 4637.5 (SSB) kilocycles.

C. The Maxiran field data accumulated during this survey was turned over to Mr. P. Munday, the TRITON representative, on 27 August 1984. The final Maxiran ranges recorded were transmitted to the ONA office in Perth, W.A. for final computation.

D. Three Maxiran base station installations were provided by ONA for this survey.

E. Three Maxiran base station sites were occupied to control the survey. They were:

STATION DOCTORS ROCKS (SPM 430)

STATION POINT SORELL (ST 517)

STATION THE NUT (ST 674)

III. GENERAL INFORMATION (continued)

F. The maximum range observed by the Maxiran system during this survey was 110 kilometers.

G. The Maxiran mobile equipment was checked daily for proper delay setting, as was determined by a Maxiran Calibration that was conducted on 12 July 1984, prior to the commencement of the Well Location SQUID #1 survey. Results of this calibration were reported in the final report distributed for that survey.

IV. MAXIRAN POST-CALIBRATION

A post-calibration of the Maxiran system was conducted between 0930 and 1100 hours 29 August 1984. For this post-calibration, the Maxiran mobile equipment was installed at Station Doctors Rocks, and the base station equipment was installed at Station Point Sorell. The computed slope range of 63.753 kilometers between the two markers was used.

The following pages consist of the field report of this post-calibration.

445093

OFFSHORE NAVIGATION, INC.

10

MAXIRAN CALIBRATION REPORT

DATE: AUG 29TH 84

MOBILE STATION			BASE STATION		
LOCATION:	DRS ROCKS		LOCATION:	PT SORELL	
OPERATOR:	A. HOGGART DRUSSELL		OPERATOR:	R. ROUNDS G NARD	
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM 013	042	BEACON	NTL - 02	026 CODE 1
INTERROGATOR	NTM - 02	002	CONTROL BOX	NCL - 02	040
AMPLIFIER	NTU - 02	006	AMPLIFIER	NTU - 02	055
AMPLIFIER P/S	NPU - 01	006	AMPLIFIER P/S	NPU - 01	020
PREAMP	SAU - 12	148	PREAMP	SAU - 12	155
COAX	TYPE	LENGTH	COAX	TYPE	LENGTH
	AS PER MOBILE INSTILATION			AS PER BASE INSTILATION	
ANTENNA	TYPE	HEIGHT	ANTENNA	TYPE	HEIGHT
	VERT PAIRS L.P.Ls	20'		VERT PAIRS L.P.Ls	20'
INPUT VOLTAGE	117 V AC		INPUT VOLTAGE	117V AC	
TX. FREQUENCY	429 MHZ		TX. FREQUENCY	429 MHZ	
RX. FREQUENCY	429 MHZ		RX. FREQUENCY	429 MHZ	
RX. GAIN SETTING	AGC		RX. GAIN SETTING	AGC	
WEATHER CONDITIONS	COLD		WEATHER CONDITIONS	COLD	
	CLEAR SKIES			CLEAR SKIES	

OBSERVED RANGE IN CALIBRATE: 72.971 KM

COMPUTED SLANT RANGE: 63.753 KM

∴ MOBILE ZERO SETTING IS: 9.218 KM

OBSERVED RANGE IN OPERATE: 63.753 KM TIME: 0930

SIGNED: [signature]

NOTES REGARDING CALIBRATION PROCEDURES:

1. All equipment will be allowed to warm up for at least 30 minutes prior to calibrating.
2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
3. Each report will be complete in itself. Do not refer to other reports for information.
4. Use the reverse side of this report for any additional comments deemed necessary or advisable for completeness and clarity.

445094

OFFSHORE NAVIGATION, INC.

11

MAXIRAN CALIBRATION REPORT

DATE: AUG 29 84

MOBILE STATION			BASE STATION		
LOCATION:	DRS ROCKS		LOCATION:	PT SORELL	
OPERATOR:	A. HOGGART J RUSSELL		OPERATOR:	R. ROUNDS G. WARD	
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM-01B	042	BEACON	NTL-02	020 CODE 1
INTERROGATOR	NTM-02	002	CONTROL BOX	NCL-02	040
AMPLIFIER	NTU-02	006	AMPLIFIER	NTU-02	055
AMPLIFIER P/S	NPU-01	006	AMPLIFIER P/S	NPU-01	020
PREAMP	SAU-12	148	PREAMP	SAU-12	155
COAX	TYPE	LENGTH	COAX	TYPE	LENGTH
	AS PER MOBILE	INSTILLATION		AS PER BASE	INSTILLATION
ANTENNA	TYPE	HEIGHT	ANTENNA	TYPE	HEIGHT
	VERT PAIRS L.P.Ls	20'		VERT PAIRS L.P.Ls	20'
INPUT VOLTAGE	117V AC		INPUT VOLTAGE	117 VAC	
TX. FREQUENCY	429 MHZ		TX. FREQUENCY	429 MHZ	
RX. FREQUENCY	429 MHZ		RX. FREQUENCY	429 MHZ	
RX. GAIN SETTING	AGC		RX. GAIN SETTING	AGC	
WEATHER CONDITIONS	COLD		WEATHER CONDITIONS	COLD	
	CLEAR SKIES			CLEAR SKIES	

OBSERVED RANGE IN CALIBRATE: 72.971 KM

COMPUTED SLANT RANGE: 63.753 KM

∴ MOBILE ZERO SETTING IS: 9.218 KM

OBSERVED RANGE IN OPERATE: 63.753 KM TIME: 0945

SIGNED: A. Hoggart

NOTES REGARDING CALIBRATION PROCEDURES:

1. All equipment will be allowed to warm up for at least 30 minutes prior to calibrating.
2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
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4. Use the reverse side of this report for any additional comments deemed necessary or advisable for completeness and clarity.

445095

OFFSHORE NAVIGATION, INC.

12

MAXIRAN CALIBRATION REPORT

DATE: AUG 29 84

MOBILE STATION			BASE STATION		
LOCATION:	DRS. ROCKS		LOCATION:	PT SORELL	
OPERATOR:	A. HOGGART D. RUSSELL		OPERATOR:	R. ROUNDS G. WARD	
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM-013	042	BEACON	NTL-02	009 CODE 3
INTERROGATOR	NTM-02	002	CONTROL BOX	NCL-02	040
AMPLIFIER	NTU-02	006	AMPLIFIER	NTU-02	055
AMPLIFIER P/S	NPU-01	006	AMPLIFIER P/S	NPU-01	020
PREAMP	SAU-12	148	PREAMP	SAU-12	155
COAX	TYPE	LENGTH	COAX	TYPE	LENGTH
	AS PER MOBILE	INSTILLATION		AS PER BASE	INSTILLATION
ANTENNA	TYPE	HEIGHT	ANTENNA	TYPE	HEIGHT
	VERT PAIRS L.P.Ls	20'		VERT PAIRS L.P.Ls	20'
INPUT VOLTAGE	117v AC		INPUT VOLTAGE	117v AC	
TX. FREQUENCY	429 MHZ		TX. FREQUENCY	429 MHZ	
RX. FREQUENCY	429 MHZ		RX. FREQUENCY	429 MHZ	
RX. GAIN SETTING	AGC		RX. GAIN SETTING	AGC	
WEATHER CONDITIONS	COLD		WEATHER CONDITIONS	COLD	
	CLEAR SKIES			CLEAR SKIES	

OBSERVED RANGE IN CALIBRATE: 72.971 KM

COMPUTED SLANT RANGE: 63.753 KM

∴ MOBILE ZERO SETTING IS: 9.218 KM

OBSERVED RANGE IN OPERATE: 63.753 KM TIME: 1000

SIGNED: [signature]

NOTES REGARDING CALIBRATION PROCEDURES:

1. All equipment will be allowed to warm up for at least 30 minutes prior to calibrating.
2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
3. Each report will be complete in itself. Do not refer to other reports for information.
4. Use the reverse side of this report for any additional comments deemed necessary or advisable for completeness and clarity.

445096

OFFSHORE NAVIGATION, INC.

MAXIRAN CALIBRATION REPORT

DATE: AUG 29 84

MOBILE STATION			BASE STATION		
LOCATION:	DRS ROCKS		LOCATION:	PT SOREL	
OPERATOR:	A. HOGGART DRUISELL		OPERATOR:	R. ROUNDS EWARD	
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM-01B	042	BEACON	NTL-02	024 CODE 3
INTERROGATOR	NTM-02	002	CONTROL BOX	NCL-02	040
AMPLIFIER	NTU-02	006	AMPLIFIER	NTU-02	055
AMPLIFIER P/S	NPU-01	006	AMPLIFIER P/S	NPU-01	020
PREAMP	SAU-12	148	PREAMP	SAU-12	155
COAX	TYPE	LENGTH	COAX	TYPE	LENGTH
	AS PER MOBILE	INSTILLATION		AS PER BASE	INSTILLATION
ANTENNA	TYPE	HEIGHT	ANTENNA	TYPE	HEIGHT
	VERT PAIRS L.P.Ls	20'		VERT PAIRS L.P.Ls	20'
INPUT VOLTAGE	117V AC		INPUT VOLTAGE	117 V AC	
TX. FREQUENCY	429 MHZ		TX. FREQUENCY	429 MHZ	
RX. FREQUENCY	429 MHZ		RX. FREQUENCY	429 MHZ	
RX. GAIN SETTING	AGC		RX. GAIN SETTING	AGC	
WEATHER CONDITIONS	COLD		WEATHER CONDITIONS	COLD	
	CLEAR SKIES			CLEAR SKIES	

OBSERVED RANGE IN CALIBRATE: 72.971 KM

COMPUTED SLANT RANGE: 63.753 KM

∴ MOBILE ZERO SETTING IS: 9.218 KM

OBSERVED RANGE IN OPERATE: 63.753 KM TIME: 1015

SIGNED: A. Hoggart

NOTES REGARDING CALIBRATION PROCEDURES:

1. All equipment will be allowed to warm up for at least 30 minutes prior to calibrating.
2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
3. Each report will be complete in itself. Do not refer to other reports for information.
4. Use the reverse side of this report for any additional comments deemed necessary or advisable for completeness and clarity.

445097

OFFSHORE NAVIGATION, INC.

14

MAXIRAN CALIBRATION REPORT

DATE: AUG 29 84

MOBILE STATION			BASE STATION		
LOCATION:	DRS. ROCKS		LOCATION:	PT. SOREL	
OPERATOR:	A. HOLGART D. RUSSELL		OPERATOR:	R. ROUNDS G WARD.	
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM-01B	042	BEACON	NTL-02	028 CODE 5
INTERROGATOR	NTM-02	002	CONTROL BOX	NCL-02	040
AMPLIFIER	NTU-02	006	AMPLIFIER	NTU-02	055
AMPLIFIER P/S	NPU-01	006	AMPLIFIER P/S	NPU-01	020
PREAMP	SAU-12	148	PREAMP	SAU-12	155
COAX	TYPE	LENGTH	COAX	TYPE	LENGTH
	AS PER MOBILE INSTALLATION			AS PER BASE INSTALLATION	
ANTENNA	TYPE	HEIGHT	ANTENNA	TYPE	HEIGHT
	VERT PAIRS L.P.Ls	20'		VERT PAIRS L.P.Ls	20'
INPUT VOLTAGE	117 VAC		INPUT VOLTAGE	117 VAC	
TX. FREQUENCY	429 MHz		TX. FREQUENCY	429 MHZ	
RX. FREQUENCY	429 MHZ		RX. FREQUENCY	429 MHZ	
RX. GAIN SETTING	AGC		RX. GAIN SETTING	AGC	
WEATHER CONDITIONS	COLD		WEATHER CONDITIONS	COLD	
	CLEAR SKIES			CLEAR SKIES	

OBSERVED RANGE IN CALIBRATE: 72.971 KM

COMPUTED SLANT RANGE: 63.753 KM

∴ MOBILE ZERO SETTING IS: 9.218 KM

OBSERVED RANGE IN OPERATE: 63.753 KM TIME: 1030

SIGNED: A. Holgart

NOTES REGARDING CALIBRATION PROCEDURES:

1. All equipment will be allowed to warm up for at least 30 minutes prior to calibrating.
2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
3. Each report will be complete in itself. Do not refer to other reports for information.
4. Use the reverse side of this report for any additional comments deemed necessary or advisable for completeness and clarity.

445098

OFFSHORE NAVIGATION, INC.

15

MAXIRAN CALIBRATION REPORT

DATE: AUG 29 84

MOBILE STATION			BASE STATION		
LOCATION:	DRS DOCKS		LOCATION:	PT. SOREL	
OPERATOR:	A HOGGART	J RUSSELL	OPERATOR:	R. ROUNDS	G. WARD
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM-01B	042	BEACON	NTL-02	029 CODE 5
INTERROGATOR	NTM-02	002	CONTROL BOX	NCL-02	040
AMPLIFIER	NTU-02	006	AMPLIFIER	NTU-02	055
AMPLIFIER P/S	NPU-01	006	AMPLIFIER P/S	NPU-01	020
PREAMP			PREAMP	SAU-12	155
COAX	TYPE	LENGTH	COAX	TYPE	LENGTH
	AS PER MOBILE INSTALLATION			AS PER BASE INSTALLATION	
ANTENNA	TYPE	HEIGHT	ANTENNA	TYPE	HEIGHT
	VERT PAIRS LPL'S	20'		VERT PAIRS LPLS	20'
INPUT VOLTAGE	117 VAC		INPUT VOLTAGE	117 VAC	
TX. FREQUENCY	429 MHz		TX. FREQUENCY	429 MHz	
RX. FREQUENCY	429 MHz		RX. FREQUENCY	429 MHz	
RX. GAIN SETTING	AGC		RX. GAIN SETTING	AGC	
WEATHER CONDITIONS	COLD		WEATHER CONDITIONS	COLD	
	CLEAR SKIES			CLEAR SKIES	

OBSERVED RANGE IN CALIBRATE: 72.963 KM

COMPUTED SLANT RANGE: 63.753 KM

MOBILE ZERO SETTING IS: 9.218 KM

OBSERVED RANGE IN OPERATE: 63.745 KM TIME: 1045

SIGNED: [signature]

NOTES REGARDING CALIBRATION PROCEDURES:

1. All equipment will be allowed to warm up for at least 30 minutes prior to calibrating.
2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
3. Each report will be complete in itself. Do not refer to other reports for information.
4. Use the reverse side of this report for any additional comments deemed necessary or advisable for completeness and clarity.

445099

OFFSHORE NAVIGATION, INC.

16

MAXIRAN CALIBRATION REPORT

DATE: AUG 29 84

MOBILE STATION			BASE STATION		
LOCATION:	Dri Rocks		LOCATION:	Pt Sorell	
OPERATOR:	A Heggart J Russell		OPERATOR:	R Rowntr G Hard	
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM-01B	042	BEACON	NTL-02	028 CODE 5
INTERROGATOR	NTM-02	018	CONTROL BOX	NCL-02	040
AMPLIFIER	NTU-02	006	AMPLIFIER	NPU-02	055
AMPLIFIER P/S	NPU-01	006	AMPLIFIER P/S	NPU-01	020
PREAMP			PREAMP	SAU-12	155
COAX	TYPE	LENGTH	COAX	TYPE	LENGTH
	As Per Mobile Installation			As Per Base Installation	
ANTENNA	TYPE	HEIGHT	ANTENNA	TYPE	HEIGHT
	Vert Panel LPL	20'		Vert Panel LPL	20'
INPUT VOLTAGE	117 VAC		INPUT VOLTAGE	117 VAC	
TX. FREQUENCY	429 MHz		TX. FREQUENCY	429 MHz	
RX. FREQUENCY	429 MHz		RX. FREQUENCY	429 MHz	
RX. GAIN SETTING	AGC		RX. GAIN SETTING	AGC	
WEATHER CONDITIONS	Cold		WEATHER CONDITIONS	Cold	
	Clear Skies			Clear Skies	

OBSERVED RANGE IN CALIBRATE: 72.971 KM

COMPUTED SLANT RANGE: 63.753 KM

∴ MOBILE ZERO SETTING IS: 9.218 KM

OBSERVED RANGE IN OPERATE: 63.753 KM TIME: 1100

SIGNED: A Heggart

NOTES REGARDING CALIBRATION PROCEDURES:

1. All equipment will be allowed to warm up for at least 30 minutes prior to calibrating.
2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
3. Each report will be complete in itself. Do not refer to other reports for information.
4. Use the reverse side of this report for any additional comments deemed necessary or advisable for completeness and clarity.

V. WELL LOCATION INFORMATION

The following information pertains to the positioning of the D/V DIAMOND M EPOCH on Well Location TASMANIAN DEVIL #1.

Coordinates of the desired location were obtained from TRITON as:

Latitude 40°44'16."034 S
Longitude 146°09'44."745 E

The D/V DIAMOND M EPOCH was secured on location, and the following final Maxiran ranges were recorded at 1443 hours 27 August 1984, with the Maxiran mobile equipment installed on board the M/V BASS TIDE:

Sta. Point Sorell to mobile antenna	52.671 kilometers
Sta. The Nut to mobile antenna	72.606 kilometers
Sta. Doctors Rocks to mobile antenna	44.507 kilometers

At the time these final Maxiran ranges were recorded, the drill stem was 87 meters, at a bearing of 336° True, from the Maxiran mobile antenna.

DIAMOND DRILLING
AUSTRALIA PTY. LTD.

V. WELL LOCATION INFORMATION (continued)

FINAL COMPUTED COORDINATES - WELL LOCATION TASMANIAN DEVIL #1 -- (Drill stem)

Latitude 40°44'16".209 S N = 5,489,992 meters
Longitude 146°09'44".958 E E = 429,285 meters

RESIDUALS

Point Sorell = -4.99 meterS
The Nut = -7.43 meters
Doctors Rocks = 6.29 meters
Least square adjusted tie = 10.941 meters
From desired drill stem position to the final drill stem position = 7.35 m. @ 137.171° True

The final coordinates of the drill stem were derived by applying the reported offset and bearing to the final Maxiran ranges recorded.

Coordinates of the final position are expressed in the Universal Transverse Mercator Projection, Australian National Spheroid of Reference, Zone 55, Central Meridian 147° East, AUSTRALIAN GEODETIC DATUM.

DIFFERIDLE NAVIGATION AUSTRALIA PTY. LTD.

VI. BASIC CONTROL

Coordinates of the three Maxiran base stations occupied to control this survey were obtained from a Lands Department, Tasmania, Division of National Mapping summary sheet.

Universal Transverse Mercator Projection
Australian National Spheroid
Zone 55
Central Meridian 147° East
AUSTRALIAN GEODETIC DATUM

STATION DOCTORS ROCKS (SPM 430):

MARKER COORDINATES

Latitude	41°01'00".50 S	N = 5,458,648 meters
Longitude	145°46'58".70 E	E = 397,671 meters
Elevation	22 meters	

The Maxiran tower was erected adjacent to the marker.

STATION POINT SORELL (ST 517):

MARKER COORDINATES

Latitude	41°07'24".69 S	N = 5,447,407 meters
Longitude	146°31'41".88 E	E = 460,403 meters
Elevation	30 meters	

The Maxiran tower was erected 1.0 meter, at a bearing of 270° Magnetic, from the station marker.

MAXIRAN TOWER OFFSET COORDINATES

Latitude	41°07'24".68 S	N = 5,447,408 meters
Longitude	146°31'41".84 E	E = 460,402 meters
Elevation	30 meters	

OFFSHORE NAVIGATION AUSTRALIA PTY. LTD.

VI. BASIC CONTROL (continued)

STATION THE NUT (ST 674):

MARKER COORDINATES

Latitude	40°45'50".23 S	N = 5,486,046 meters
Longitude	145°18'13".45 E	E = 356,830 meters
Elevation	143 meters	

The Maxiran tower was erected 2.76 meters, at a bearing of 217° Magnetic, from the station marker.

MAXIRAN TOWER OFFSET COORDINATES

Latitude	40°45'50".29 S	N = 5,486,044 meters
Longitude	145°18'13".36 E	E = 356,828 meters
Elevation	143 meters	

VII. PERSONNEL

NAME	POSITION
Russell, D.	Party Chief/Base Operator
Hoggart, A.	Mobile Operator
Rounds, R.	Base Operator
Ward, G.	Base Operator

VIII. DISTRIBUTION

Triton Engineering Services Company, Ltd. (U.K.)
Post Office
Welshpool, Victoria 3961
AUSTRALIA

Attention: Mr. Chris Thomasson — Four copies

Triton Engineering Services Company, Ltd. (U.K.)
1201 Dairy Ashford
Suite 100
Houston, Texas 77079

Attention: Mr. Lindsey Lipscomb — Two copies

Offshore Navigation, Inc.
Post Office Box 23504
Harahan, Louisiana 70183
U.S.A. — Two copies

Offshore Navigation (Australia) Pty. Ltd.
Post Office Box 291
Cloverdale, W.A. 6105
AUSTRALIA — One copy

OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.

STATION: DOCTORS ROCKS (SPM 430)

LOCATED: Station Doctors Rocks is located on the north coast of Tasmania, Australia, approximately 6 kilometers southeast of the town of Wynyard, Tasmania, and approximately 12 kilometers northwest of Burnie. The station marker is in a pasture, atop a hillock of mostly rock. The terrain to the east, south and west of the station is hilly to mountainous rural country varying from sparsely wooded pasture land to fairly dense woods. A sparsely timbered rocky point, some 15 odd meters high, juts into Bass Straight approximately 150 meters to the northwest of the site. A railway line runs close and parallel to Bass Highway, some 20 meters below and 8 to 10 meters to seaward of the marker. The high water mark is within meters of the railway line. Bass Strait, which separates Tasmania from the Australian mainland, is clearly visible to the north of the station.

ACCESS: From Burnie, follow the Bass Highway through Cooee and Somerset some 12 kilometers to a point where 2 gates (actually ramps) can be seen on the left side of the road. A large sign, saying "Wynyard A/2" is approximately 50 meters past these two gates. The second gate has an elevated wrought iron sign "Doctors Rock". Turn into the first gate and follow the track for approximately 100 meters up a short steep rise. At this point, a prominent rocky knob can be seen at a distance of approximately 100 meters across the paddock on the boundary fence. Drive towards the rocky knob and station marker.

During wet weather conditions, a four-wheel drive vehicle will be required to reach the station from the track. Care should be taken to avoid damage to the pasture.

To reach this station from the Shell Station in Wynyard, proceed east on the Old Bass Highway for approximately 4 kilometers to the intersection with the New Bass Highway. Turn left onto

STATION: DOCTORS ROCKS (SPM 430) (continued)

the New Bass Highway and drive on this highway for approximately 300 meters to two gates on the righthand side, and a small cape to the left.

Turn right and drive through the second gate. Drive on the track to the station site, as described above.

MARKER: The station marker is located 1.8 meters from the north boundary of the fence which surrounds the grazing paddock. (Exercise caution near this fence since an electrified wire is attached - look for insulators). The station marker consists of a small brass plaque embedded in an 20cm square concrete structure that sits at ground level. The 15cm high letters "SM" are inscribed in the concrete. A cross with the approximate diameter of 25mm is cut in the brass plaque.

A blue Lands & Surveys mark indicator, measuring approximately 125mm by 100mm, is affixed to the fence and is located approximately to the north of the station marker. This indicator shows the details of the marker (SPM 430). The top of a 50mm round galvanized fence post, located approximately 30cm to the right of the survey mark indicator, has been painted red.

GENERAL: Labor, food, and camping equipment can be obtained in Somerset, Burnie or Wynyard. Fuel, and oil can be obtained at the Wynyard Shell Station, whose address is 13 Bass Highway East, Wynyard, Tasmania 7325; telephone number is 004-422240, or the BP Station, 93 Bass Highway Somerset; telephone number is 004-351413.

A caravan with heater is essential at this site. A tent is difficult to erect due to difficulty in locating star stakes in the rocky ground and strong winds that prevail. The winter months, June to September, can be very wet and cold. Temperatures can range from several degrees below zero to a daily maximum of as low as 4°C.

STATION: DOCTORS ROCKS (SPM 430) (continued)

Caravans are available from Devon Coastavans, 116 Nicholls St., Devonport; telephone Ian Finch, 004-242829. Mr. Finch will deliver and pick up the vans to the station sites for a nominal fee (In August 1984, Point Sorrell was A$20.00, Doctors Rocks was A$40.00. This fee includes delivery and pickup.) The vans are well equipped, gas, approximately 60-litre water tank (full on delivery), crockery, cutlery, fridge, etc. Mattresses are supplied, but there are no blankets, pillows, or sheets. The vans can be locked. The caravans must be left clean when vacating.

Vehicles can be obtained from Hertz, Oldaker Street, Devonport; telephone 004-241013. Hertz representatives have been very helpful and can assist regarding fuel supplies from Mobil Devonport if required.

Four-wheel drive vehicles may also be obtained from Regent Filling Station, 57 Marine Terrace, South Burnie. This is the Shell Service Station past the paper mill on the Bass Highway, as you approach Burnie from Devonport. The contact at this place is Mr. Wayne Cross. The service station telephone number is 004-312131.

Nearby accommodations can be obtained at the Seabrook Hotel Motel, telephone 004-351209. This establishment is located on the Bass Highway Somerset, midway between Somerset and the station site.

The station site is on property owned by Mr. Busby. Mr. Busby's brother lives in a house near the station site (See Sketch). Permission to occupy the station must be obtained from the owner, telephone 004-422045, Burnie, Tasmania, or from his brother at the station site. No rent was paid for the use of the site. Drinking water can be obtained from the home of Mr. Busby's brother. He has also indicated that

PERSONAL INVESTIGATION AUSTRALIA PTY. LTD.

STATION: DOCTORS ROCKS (SPM 430) (continued)

toilet and bath facilities at his home are available to the operator if required.

A 20-foot tower was erected at this station, the minimum height required to clear surrounding obstructions. Clear vista is from 330° to 130°. Star stakes were used to secure the tower. However, since the hillock on which the station site is located is almost solid rock, the star stakes were difficult to locate requiring additional time to secure the tower.

ELEVATION: 22 meters

SKETCH: See next page.

Coordinates of the station marker were obtained from a Lands Department, Tasmania, Division of National Mapping summary sheet.

UTM PROJECTION, AUSTRALIAN NATIONAL SPHEROID
ZONE 55, C.M. 147° EAST - - A.G.D.

Lat.	41°01'00".50 S	N = 5,458,648 meters
Long.	145°46'58".70 E	E = 397,671 meters

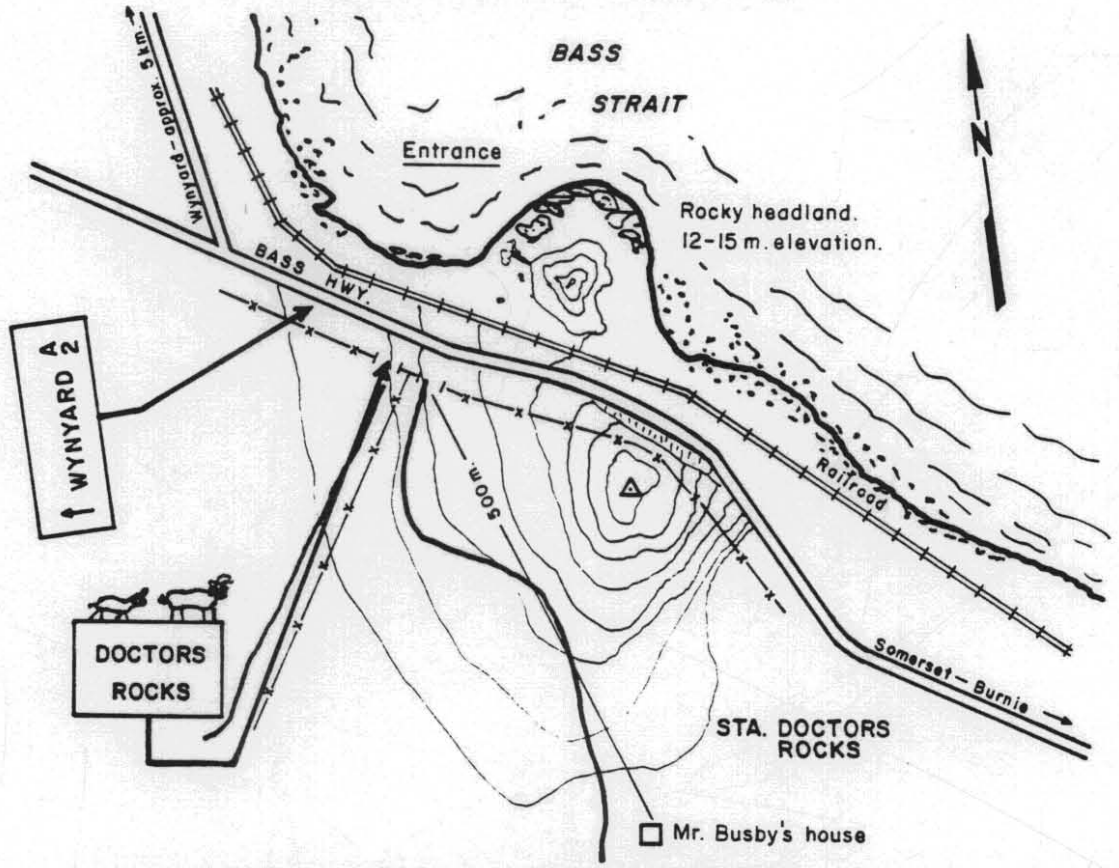
445109

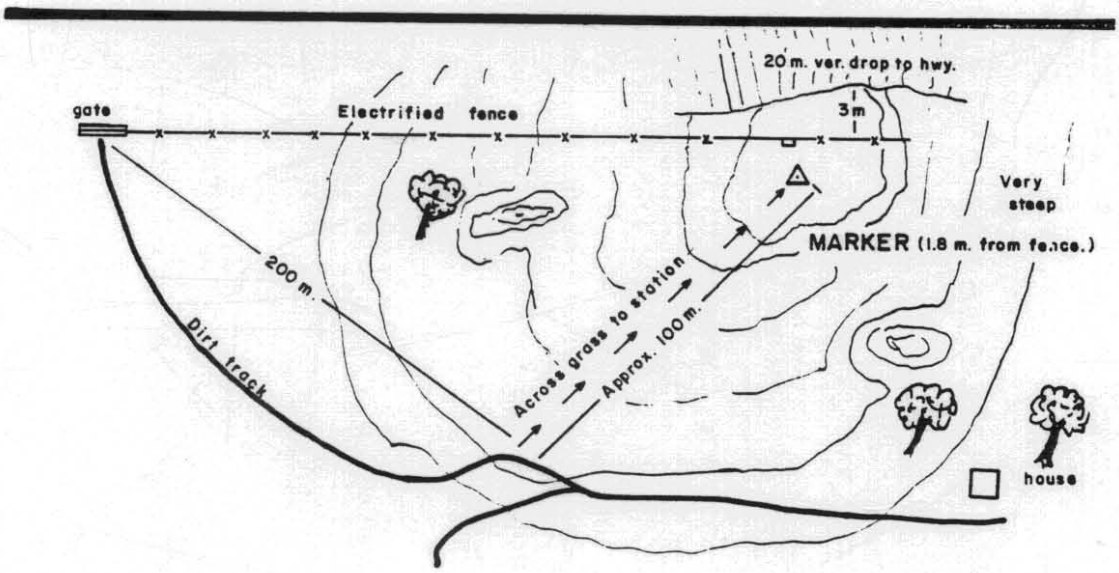
STA. DOCTORS ROCKS (SPM 430)—AUSTRALIA

LAT. 41°01'00".50 S
LONG. 145°46'58".70 E
ELEV. 22 meters

N 5,458,648 meters
E 397,671 meters

UTM PROJ. ——— AUST. NAT. SPHEROID
ZONE 55, C.M. 147° E ——— A.G.D.

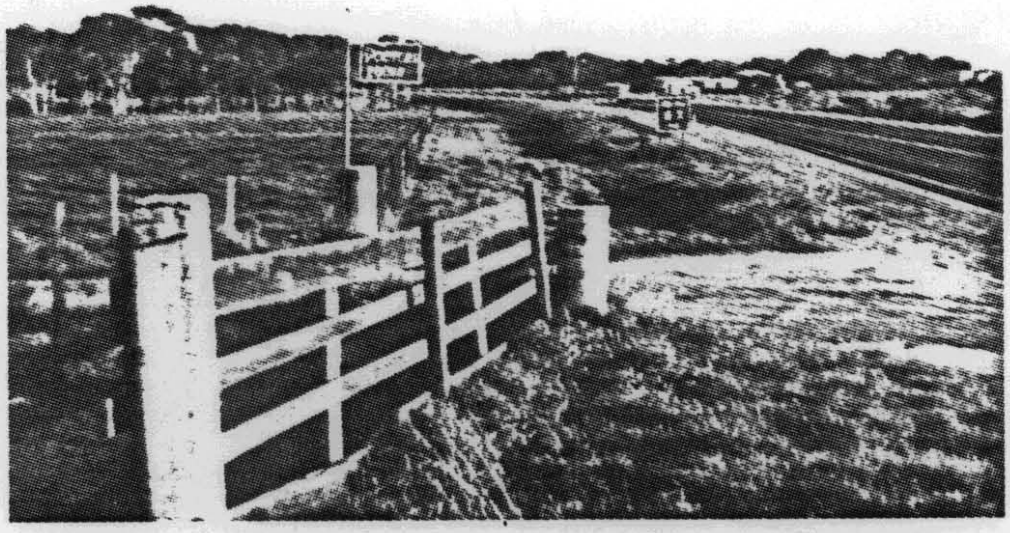




7/84/1511

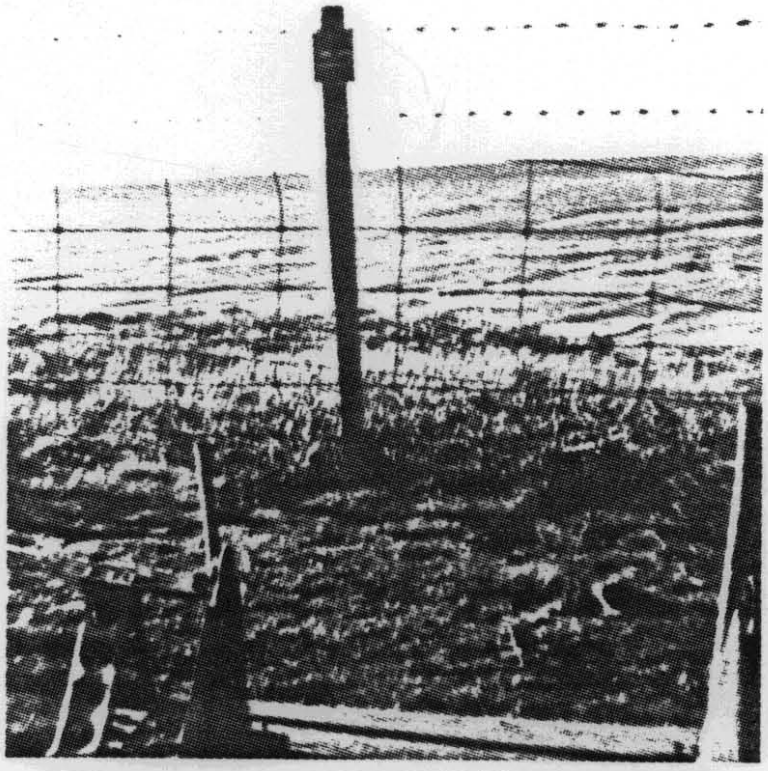
5 cm

STATION DOCTORS ROCKS



TAKEN FROM ENTRANCE TO STATION, LOOKING TOWARDS WYNYARD.
NOTE: SIGN AT NEXT ENTRANCE.

STATION DOCTORS ROCKS



SURVEY MARK INDICATOR ON FENCE AT STATION.

STATION: POINT SORELL (ST 517)

LOCATED: This station is located on the highest point of Point Sorell, Tasmania, Australia, which is 4.8 kilometers from Hawley Beach, 1 kilometer from Port Sorell, and approximately 26 kilometers by road east of the city of Devonport. On a clear day, Badger Head, on the eastern entrance of Port Sorell, is visible from the station.

The station marker is geographically located on a point, 150 meters from the water's edge (Bass Strait). Rocks lay about the station. Some of the rocks extend up to 1 foot above ground level. Vegetation in the area is mainly green grass and patches of tussock up to 1 meter high. On the landward side, the point slopes gradually with black soil pasture riddled with Mutton Bird burrows. Once on the flats, which are very wet during winter, vegetation ranges from scattered trees to patches of dense woods.

On a clear day, the city of Devonport can be seen 20 miles away, at a bearing of 260°. Beach areas, separated by rocks, are located 900 meters from the station, at a bearing of 200°. Small patches of trees are located 500 meters, at a bearing of 080° from the station. An 80-meter by 30-meter island is located offshore, approximately 800 meters, at a bearing of 060°, from the station.

ACCESS: In dry weather a regular two wheel drive vehicle may be used but the grassy slopes on the approaches to the station site may become very slippery when wet and there are numerous boggy patches after heavy rains and a four-wheel drive vehicle is necessary.

If four-wheel drive vehicles are unavailable or it turns wet after the station is set, Roger Moncrieff has a tractor which is available to tow the vehicle to and from the station site. The tractor may also be required to tow even a four-wheel drive vehicle if it is heavily laden in extreme wet conditions.

STATION: POINT SORELL (ST 517) (continued)

From Devonport, drive on the Bass Highway towards Launceston for 2 kilometers past the East Devonport turnoff, and turn left at the Exeter/Port Sorell turnoff (B19) near the top of the rise. Follow this road towards Port Sorell (The Exeter road turns off to the right) for approximately 12 kilometers to a road intersection, located approximately 2 kilometers before entering Port Sorell. A wooden sign showing "Hawley Caravan Park" is on the left side of this intersection. Turn left at this intersection, and follow the road to Hawley Beach. Turn left at a "T" junction, located 50 meters before the Hawley Beach Store and Post Office. Just after making this left turn, a prominent sign to the right reads "Heavy Vehicles Only" (see Sketch). Follow this sealed road to its end at a "T" junction with a chlorine station facing you on the other side of the road. Turn left at this junction. A right turn takes you on a foreshore track. Follow this road (it turns to gravel half-way along) for approximately 700 meters (passing a picnic spot and toilets on the right) to a white wooden gate. Immediately in front of the gate, the road veers to the right. A turn to the left is marked "LMC Private Road". Take this turn to the left (it is 3 kilometers to the station from this point). Follow the road for approximately 100 meters and turn to the right. Straight ahead at this point is the resident of Mr. Roger Moncrieff, the son of the station site land owner. Drive for approximately 300 meters to a locked gate. At this gate, a track leads to the right to the resident of Mr. Don Moncrieff, the station site land owner, located approximately 100 meters from this gate. Obtain a key for this gate, or if opened, follow the road straight ahead to double gates, near the council sewerage pond, which are usually opened. The station marker will be visible from the double gates at a distance of approximately 2 kilometers. There is no defined

STATION: POINT SORELL (ST 517) (continued)

road from this point to the marker. Seek the land owner's advice or follow the tracks shown on the Sketch.

MARKER: The station marker, located on a hill, consists of a brass mushroom S.P.M., which is not numbered. The marker is embedded in concrete at ground level, with stones surrounding the marker.

The Maxiran tower was erected 1 meter, at a bearing of 270° Magnetic, from the station marker. This offset was necessary due to a 3-meter high quadropod that is erected over the marker. The quadropod is painted white, and has a black disc, approximately 60cm in diameter, attached to the top. Rocks covers each leg of the quadropod. Coordinates are listed in this description for the station marker and the Maxiran tower offset.

GENERAL: Labor can be provided by Mr. Roger Moncrieff. Labor can also be obtained in Devonport, approximately 22 kilometers from the station, or Latrobe, approximately 19 kilometers away. Fuel, oil, camping equipment and supplies are available at Devonport. Bulk fuel can be obtained from several depots located in Devonport. There is a service station in Port Sorrel, and a reasonable selection of goods can be obtained at the Hawley Beach Store and Post Office. Drinking water can be obtained from the station property land owner or his son.

A caravan with heater is essential at this site. The winter months, June to September, can be very wet, windy and cold. Temperatures can range from several degrees below zero to a daily maximum of as low as 4°C. Extra rope and star stakes should be taken for tying down during this period.

STATION: POINT SORELL (ST 517) (continued)

Penguins are very frequent visitors to the station site, particularly at night.

Caravans are available from Devon Coastavans, 116 Nicholls St., Devonport; telephone Ian Finch, 004-242829. Mr. Finch will deliver and pick up the vans to the station sites for a nominal fee (In August 1984, Point Sorrell was A$20.00, Doctors Rocks was A$40.00. This fee includes delivery and pickup.) The vans are well equipped, gas, approximately 60-litre water tank (full on delivery), crockery, cutlery, fridge, etc. Mattresses are supplied, but there are no blankets, pillows, or sheets. The vans can be locked. The caravans must be left clean when vacating.

Vehicles may be obtained from Hertz, Oldaker Street, Devonport (telephone 004-241013). Hertz representatives have been very helpful and can assist regarding fuel supplies from Mobil Devonport if required.

Four-wheel drive vehicles may also be obtained from Regent Filling Station, 57 Marine Terrace, South Burnie. This is the Shell Service Station past the paper mill on the Bass Highway, as you approach Burnie from Devonport. The contact at this place is Mr. Wayne Cross. The service station telephone number is 004-312131.

A 20-foot tower was erected at this site, the minimum height required to clear surrounding obstructions. Clear vista is from 200° (through north) to 060°. Star stakes were used to secure the tower.

Permission to occupy the station must be obtained from the land owner, Mr. Don C. Moncrieff, Hawley Beach via Latrobe 7307, Tasmania. His phone number is 004-286193. Mr.

STATION: POINT SORELL (ST 517) (continued)

Moncrieff was paid a daily rental fee of A$25.00 for the use of his land. If Mr. Don Moncrieff is absent, permission may be obtained from his son, Roger Moncrieff; telephone 004-286587. Roger lives approximately 1 kilometer from Don Moncrieff. See Sketch.

ELEVATION: 30 meters

SKETCH: See next page.

Coordinates of the station marker were obtained from a Lands Department, Tasmania, Division of National Mapping summary sheet.

UTM PROJECTION, AUSTRALIAN NATIONAL SPHEROID
ZONE 55, C.M. 147° EAST - - A.G.D.

MARKER COORDINATES:

Lat.	41°07'24".69 S	N = 5,447,407 meters
Long.	146°31'41".88 E	E = 460,403 meters

MAXIRAN TOWER OFFSET COORDINATES:

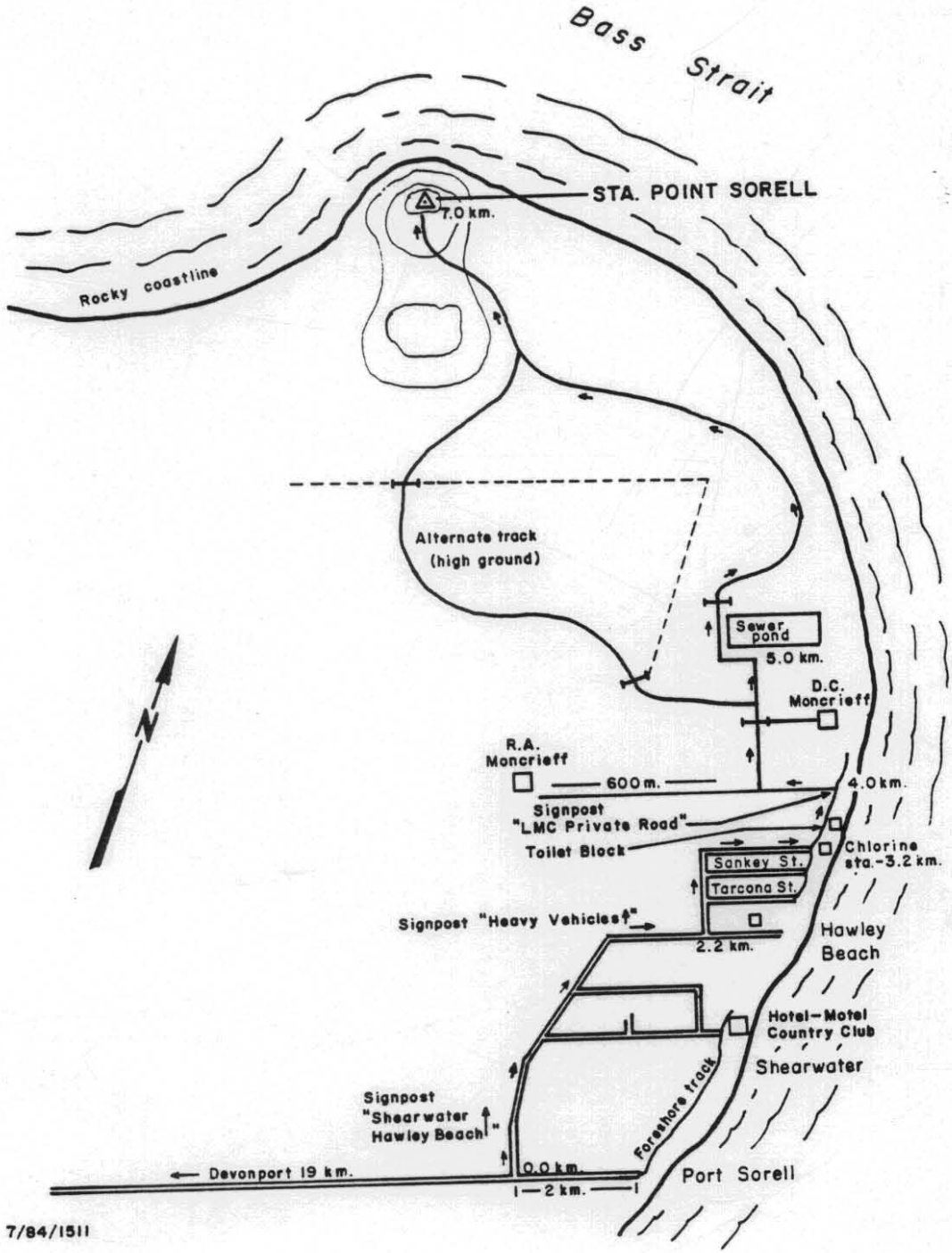
Lat.	41°07'24".68 S	N = 5,447,408 meters
Long.	146°31'41".84 E	E = 460,402 meters

STA. POINT SORELL (ST 517)——AUSTRALIA

LAT. 41° 07' 24".69 S
LONG. 146° 31' 41".88 E
ELEV. 30 meters

N 5,447,407 meters
E 460,403 meters

UTM PROJ. ——AUST. NAT. SPHEROID
ZONE 55, C.M. 147° E ——A. G. D.



7/84/1511

5 cm

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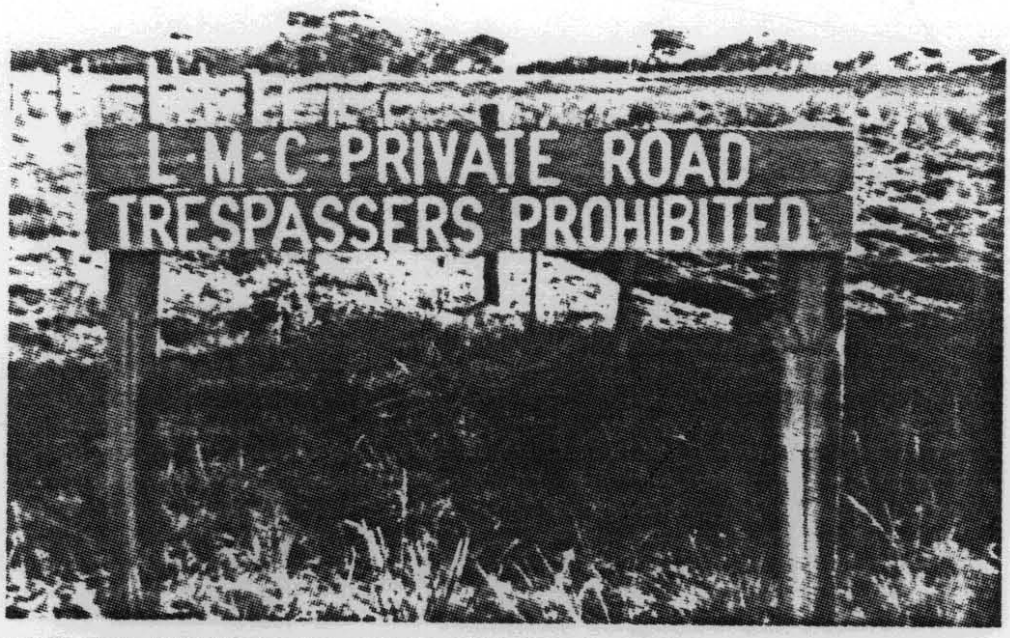
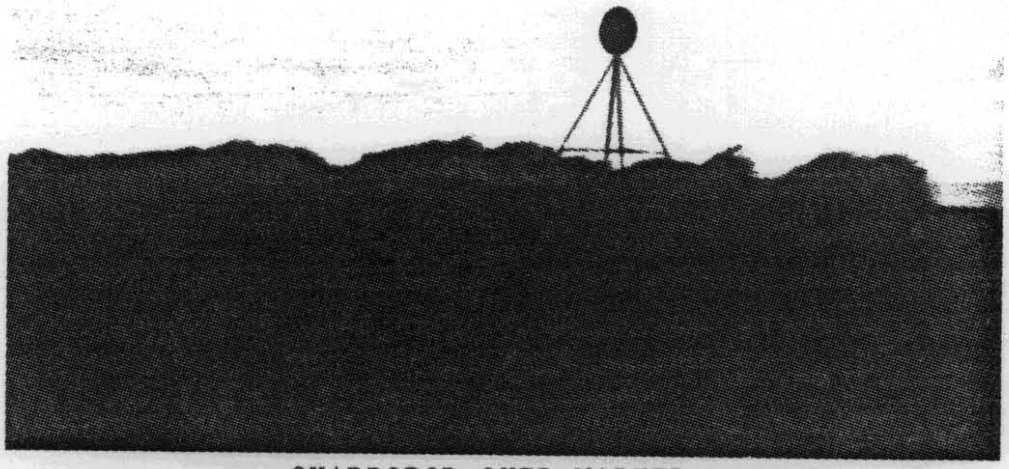
STATION POINT SORELL



SIGN AT TURNOFF TO LEFT ENTERING ROAD TO DON MONCRIEFF PROPERTY. POINT IS ABOUT 3 KILOMETERS FROM STATION.



QUADROPOD OVER MARKER

STATION POINT SORELL

SIGN AT TURNOFF FROM PORT SORELL ROAD. TURN LEFT TO REACH STATION, A DISTANCE OF APPROXIMATELY 7 KILOMETERS FROM THIS POINT.

STATION: THE NUT (ST 674)

LOCATED: This station is located on a hill overlooking the town of Stanley, on the north coast of Tasmania, Australia. The hill is named "The Nut", and its summit is flat to slightly rolling. This hill, as well as the historical town of Stanley, are very popular tourist attractions. The vegetation on this hill consists of grass and low native bushes. There is a tourist walk track around the perimeter of the top which is some 4 kilometers around. There are many mutton bird burrows along this track. The surrounding district, Circular Head, derives its name from the distinctive shaped "Nut" which juts into Bass Strait. The station marker is on the northern side of The Nut.

ACCESS: Access to the town of Stanley can be made from Burnie or Devonport. It must be noted that minor towns may not appear on road signs. When leaving Devonport, read "Smithton" for "Stanley". At times, only route numbers appear in lieu of town names. It is approximately 120 kilometers from Devonport to Stanley.

Drive north on the Bass Highway to the intersection with the Stanley Highway (B21). This intersection is 64 kilometers past Wynyard. Turn onto Stanley Highway and drive 7 kilometers to the town of Stanley. The Nut will be easily seen to the northeast of Stanley, right beside the town. The road to the hill is signposted "Nut". A vehicle can be taken as far as the car park on the slopes of The Nut. A zig-zag 1-meter wide cement track with center hand rail leads from the car park to the summit. Take the left hand track at the fork on top of the hill. The station marker is from 400 to 500 meters along this track. It is a walk of about 20 to 30 minutes (unburdened) from the base of the hill to the station.

STATION: THE NUT (ST 674) (continued)

MARKER: The station marker consists of a brass mushroom S.P.M., which is not numbered. The marker is embedded in concrete which is at ground level, with a 1.26-meter high stone cairn built over it.

A 3.86-meter high quadropod has been erected over the marker. The quadropod has a 60cm diameter black disc attached to its top.

The Maxiran tower was erected 2.76 meters, at a bearing of 217° Magnetic from the marker. A star stake, that was left on site with the approval of the local ranger, marks the position of the Maxiran tower. Coordinates are listed in this description for the brass mushroom marker, and the Maxiran tower offset.

GENERAL: Food, fuel, oil, and water is available in Stanley. Fuel and oil can be obtained from W.T. House, Inc. BP Service Station. Mr. House can also assist in obtaining labor. Labor may also be obtained at the Union Hotel. Emergency water may be obtained from a tank near the old telecom hut, which is located alongside the lookout, approximately 700 meters from the station site.

Although limited camping equipment is available in Stanley, this should be purchased in larger centers, such as Burnie or Devonport.

Hotel accommodations are available at the Union Hotel in Stanley. The nearest airport to this station is in Smithton, approximately 20 miles away.

The station site is completely exposed to weather. This should be taken into consideration when erecting the station. Ample bedding, tent pegs, and spare rope should be taken. During the winter months (June through September), the

STATION: THE NUT (ST 674) (continued)

site is very cold and damp. A heater is essential as temperatures frequently drops below zero.

A 20-foot tower was erected at this site. Star stakes were sufficient to secure the tower. Clear vista with a 20-foot tower is from 300° (through north) to 090°.

The station site is on land owned by the National Parks and Wildlife Service. Permission to occupy the site was obtained from Mr. P. Murrell, Director, in Sandy Bay, Tasmania 7005. His office address in Sandy Bay is Magnet Court or P.O. Box 210, Sandy Bay, Tasmania 7005. Telegrams, addressed "TASPAWS", will be received by the director. No rent was paid for the use of this property. The local inspector is Mr. Rex Gatenby, Launceston telephone 003-415306.

The local ranger in charge is Mr. Brian Carson, telephone 004-581320. His resident is located near the rectory and old school in the old section of Stanley. Mr. Carson was very helpful in all matters. He can arrange for storage of empty equipment boxes at the car park house.

The site is to be kept clean and tidy during occupation. All rubbish is to be removed at the conclusion of a survey.

It will take two or three days with 4 or 5 laborers to carry the equipment to the station site. An average round-trip from the car park to the station site, walking up with a load and returning unburdened will take from 60 to 90 minutes, depending on the load. The cement track to the summit is very difficult to negotiate with heavy objects with the center hand rail. When possible, a helicopter should be use to mobilize and demobilize this station. The Stanley Football

STATION: THE NUT (ST 674) (continued)

Ground is used as a lift off and put-down point for the helicopter. Permission can be obtained to use the ground from the Football Club president, Mr. Graham Trenelly, Union Hotel, Stanley; telephone 004-581161. It is approximately a 5 minute flight from the football ground to the station site. It is approximately 50 kilometers from the Wynyard Airport to The Nut.

ELEVATION: 143 meters

SKETCH: See next page.

Coordinates of the station marker were obtained from a Lands Department, Tasmania, Division of National Mapping summary sheet.

UTM PROJECTION, AUSTRALIAN NATIONAL SPHEROID
ZONE 55, C.M. 147° EAST - - A.G.D.

MARKER COORDINATES:

Lat.	40°45'50".23 S	N = 5,486,046 meters
Long.	145°18'13".45 E	E = 356,830 meters

MAXIRAN TOWER OFFSET COORDINATES:

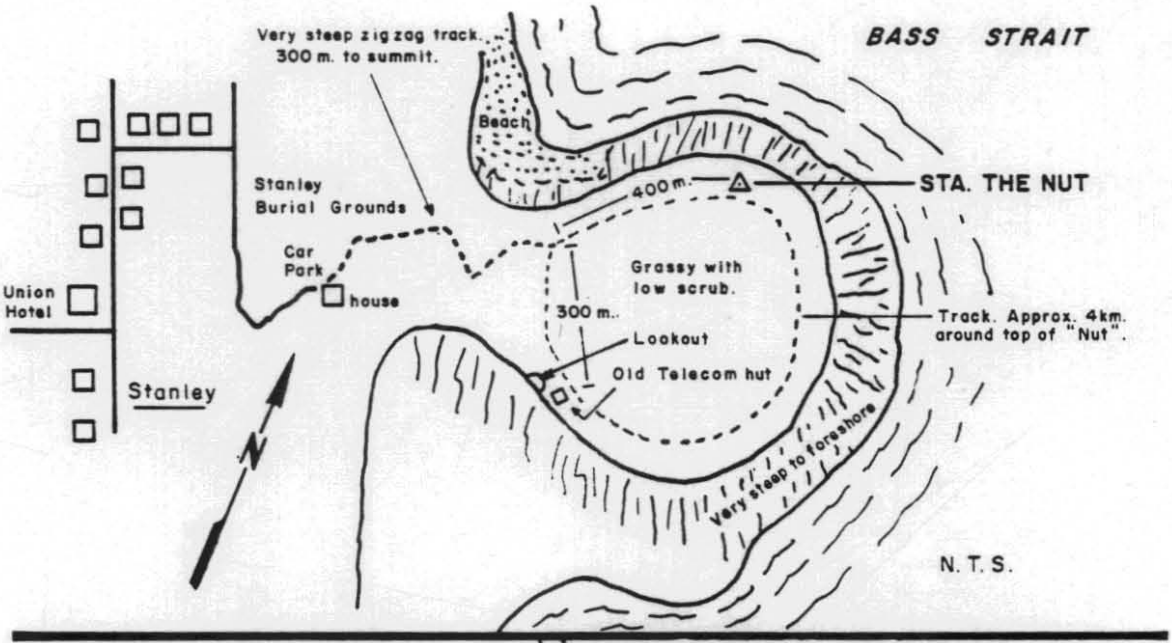
Lat.	40°45'50".29 S	N = 5,486,044 meters
Long.	145°18'13".36 E	E = 356,828 meters

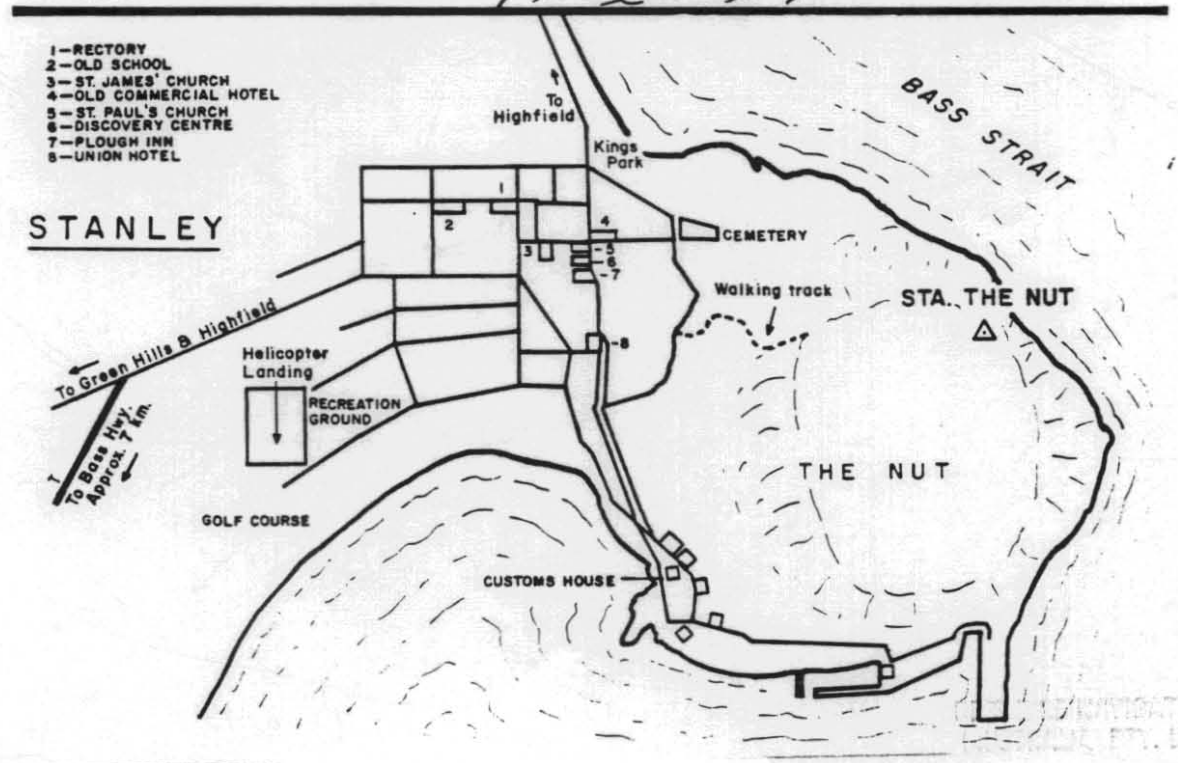
445124

STA. THE NUT (ST 674)——————AUSTRALIA

LAT. 40°45'50".23 S — N 5,486,046 meters
LONG. 145°18'13".45 E — E 356,830 meters
ELEV. 143 meters

UTM PROJ. ————AUST. NAT. SPHEROID
ZONE 55, C.M. 147° E ————A.G.D.

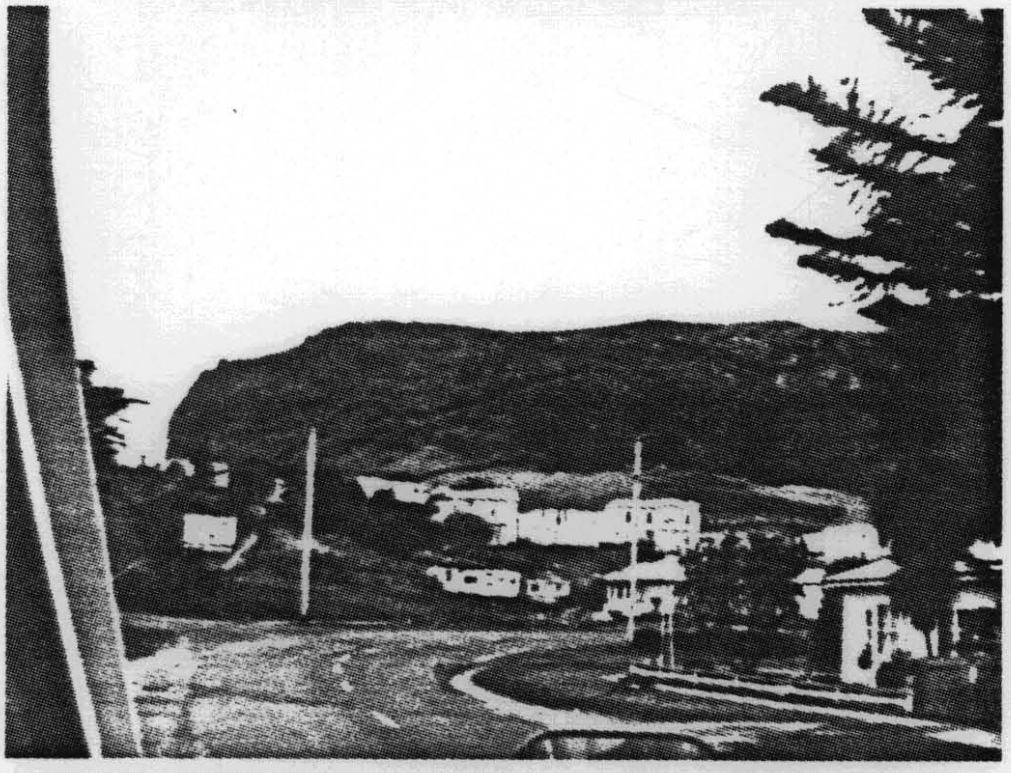




5 cm

STATION THE NUT

FROM TURNOFF AT STANLEY BURIAL GROUND



FROM THE OUTSKIRTS OF STANLEY. NOTE ZIG-ZAG TRACK UP MOUNTAIN. THIS IS THE ONLY ACCESS ROUTE BY FOOT.

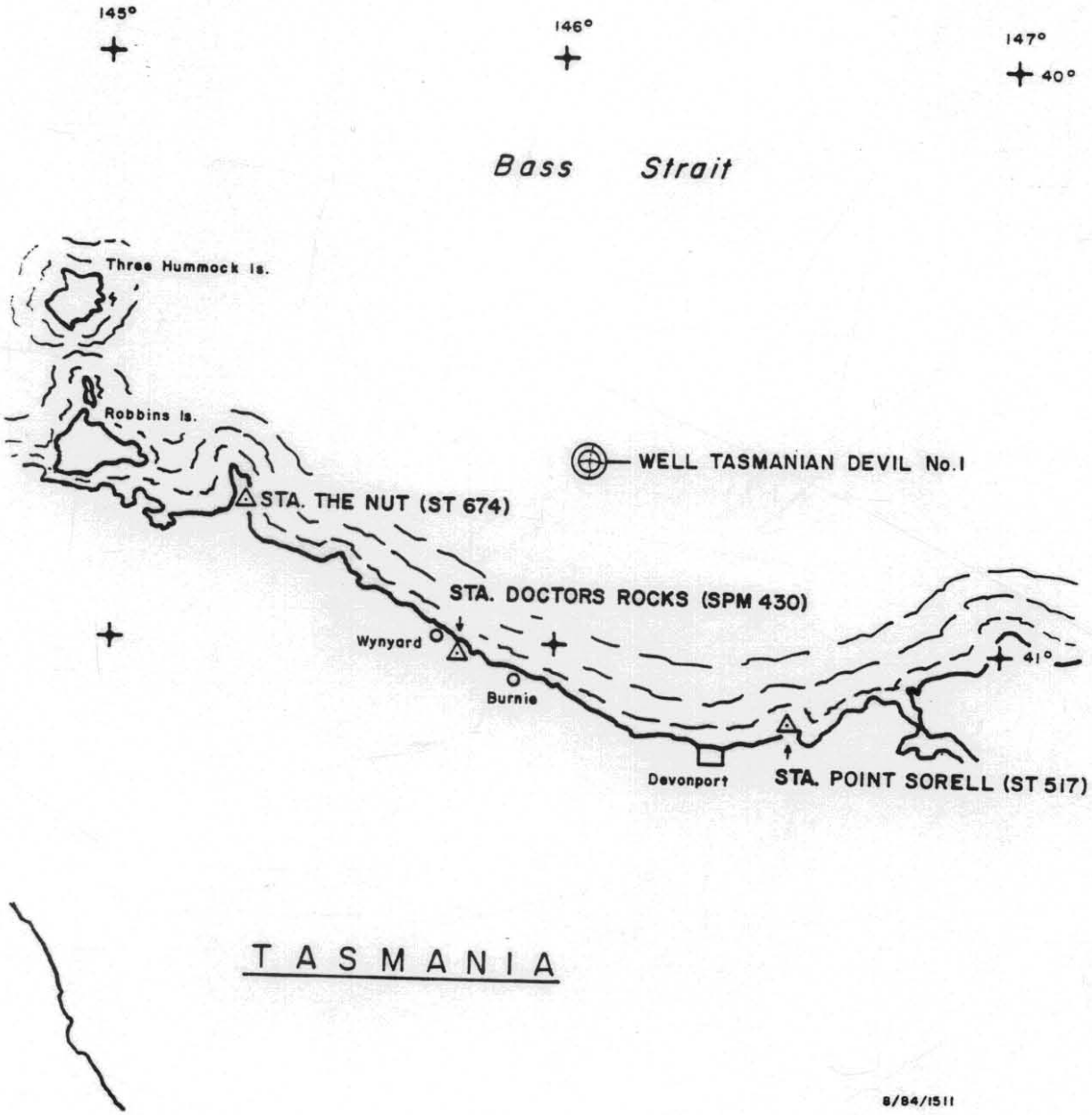
445126

WELL TASMANIAN DEVIL No.1——AUSTRALIA

LAT. 40°44'16".209 S
LONG. 146°09'44".958 E

N 5,489,992 meters
E 429,285 meters

UTM PROJ. ———— AUST. NAT. SPHEROID
ZONE 55, C.M. 147° E ———— A.G.D.



8/84/1511

5 cm

DATASHARE NAVIGATION (AUSTRALIA) PTY. LTD.

APPENDIX A

DAILY OPERATIONS LOGS

MAXIRAN DAILY OPERATIONS LOG

445128

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
	—	042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System - Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks MOB OPP. – DRIVE TO WELSHPOOL
INSTALL EQUIPMENT ABOARD "BASS TIDE"

1830 DEPART WELSHPOOL
2050 ANCHOR DOWN AT SEALERS COVE

2400 AT ANCHOR AT SEALERS COVE

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 1ST 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL 1

Geophysical Company Oil Company TRITON Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445129

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
	—	042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	R. ROUNDS	9.218	026	040	065	1	VERT PAIRS L.P.Ls
PT. SORELL	G. WARD	9.218	009	122	016	3	" " "
DRS. ROCKS	D. RUSSELL	9.218	028		026	5	" " "

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System - Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks

0001 AT ANCHOR AT SEALERS COVE
0615 ANCHOR UP HEADING FOR "DIAMOND M EPOCH"
1330 AT "DIAMOND M EPOCH"
BASE STATIONS BEING SET
CHECK MOBILE EQUIPMENT

2400 STEAMING NEAR "DIAMOND M EPOCH"

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 2ND 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL 1

Geophysical Company Oil Company Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445130

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
	—	042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	R. ROUNDS	9.218	026	040	055	1	VERT PAIRS L.P.Ls
Pt. SORELL	G. WARD	9.218	009	122	016	3	" " "
DRS. ROCKS	D. RUSSELL	9.218	028		026	5	" " "

OPERATING TIME

Time On	Time Off	Requested By	System Used For
1200	1400	A. HOGGART	CHECKING SYSTEM

O/T Requested By		Total System - Hours Operation For Client	2h 0m

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks

0001 STEAMING NEAR "DIAMOND M EPOCH"

1200-1400 EQUIPMENT ON CHECKING SIGNALS
GOOD SIGNALS FROM Pt SORELL & DRS ROCKS
THE NUT NOT YET ON

1800 RADIO CHECK

2400 STEAMING NEAR "DIAMOND M EPOCH"

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 3RD 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL 1

Geophysical Company Oil Company Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445131

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	R. ROUNDS	9.218	026	040	055	1	VERT PAIRS L.P.Ls
PT. SORELL	G. WARD	9.218	009	122	016	3	" " "
DRS. ROCKS	D. RUSSELL	9.218	028		026	5	" " "

OPERATING TIME

Time On	Time Off	Requested By	System Used For
1200	1300	A. HOGGART	CHECKING SYSTEM

O/T Requested By		Total System-Hours Operation For Client	1h 0m

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks

0001 STEAMING NEAR "DIAMOND M EPOCH"

1200-1300 EQUIPMENT ON CHECK OUT SIGNAL FROM THE NUT - OK

PERIODIC RADIO CHECKS

2400 STEAMING NEAR "DIAMOND M EPOCH"

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 4TH 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL 1

Geophysical Company Oil Company Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445132

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
	—	042	002	073	VERT PAIRS L.P.L's

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	R. ROUNDS	9.218	026	040	055	1	VERT PAIRS L.P.L's
PT. SORELL	G. WARD	9.218	009	122	016	3	" " "
DRS ROCKS	D. RUSSELL	9.218	028		026	5	" " "

OPERATING TIME

Time On	Time Off	Requested By	System Used For
O/T Requested By			Total System-Hours Operation For Client: NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks

0001 STEAMING NEAR "DIAMOND M EPOCH"

PERIODIC RADIO CHECKS

2400 STEAMING NEAR "DIAMOND M EPOCH"

Mobile Operator(s): A. HOGGARTH

Party Chief: D. RUSSELL

Project Number: 1511 Date: AUG 5TH 84 Vessel: BASS TIDE Client Party Number: TASMANIAN DEVIL 1

Geophysical Company: Oil Company: Radio Frequency: 7840 KHZ

Country: AUSTRALIA Area/Prospect: BASS STRAIT Stepback: Shot Point Interval:

N-57

SEE INSTRUCTIONS ON REVERSE

445133

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
	—	042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	R. ROUNDS	9.218	026	040	055	1	VERT PAIRS L.P.L
PT. SORELL	G. WARD	9.218	009	122	016	3	" " "
DRY ROCKS	D. RUSSELL	9.218	028		026	5	" " "

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System - Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks

0001 STEAMING NEAR "DIAMOND M EPOCH"

PERIODIC RADIO CHECKS

2400 STEAMING NEAR "DIAMOND M EPOCH"

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 6TH 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL 1

Geophysical Company Oil Company Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445134

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
	—	042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	R. ROUNDS	9.218	026	040	055	1	VERT PAIRS L.P.Ls
PT. SORELL	G. WARD	9.218	009	122	016	3	" " "
DRS. ROCKS	D. RUSSELL	9.218	028		026	5	" " "

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System - Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 STEAMING NEAR "DIAMOND M EPOCH"
0200 ENROUTE FOR WELSHPOOL
0900 ALONGSIDE IN WELSHPOOL

DE MOB AND STORE MOBILE EQUIPMENT

DRIVE TO MELBOURNE

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 7TH 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL 1

Geophysical Company Oil Company Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445135

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System - Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Operations Log & Remarks MOBILE OPERATOR FLIES FROM AUCKLAND TO MELBOURNE & DRIVES TO COAL CREEK

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 14TH 84 Vessel TRITON (WEAVER) Client Party Number TASMANIAN DEVIL 1.

Geophysical Company Oil Company Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

1-57

SEE INSTRUCTIONS ON REVERSE

445136

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
	G. WARD						
	R. ROUNDS						
	D. RUSSELL						

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System - Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks DRIVE FROM COAL CREEK TO PORT WELSHPOOL.

INSTALL EQUIPMENT ABOARD "BASS TIDE"

1515 LEFT PORT EN ROUTE FOR "DIAMOND M EPOCH"

2400 EN ROUTE FOR "DIAMOND M EPOCH"

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 15TH 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL 1.

Geophysical Company Oil Company ~~TRITON~~ (WEAVER) Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS ~~STD~~ STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445137

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
	G. WARD						
	R. ROUNDS						
	D. RUSSELL						

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System - Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 EN ROUTE TO DIAMOND M EPOCH
0110 AT DIAMOND M EPOCH

STANDING BY DIAMOND M EPOCH WAITING FOR COMPLETION OF HOLE
PERIODIC CHECKS ON RADIO TO SEE IF BASE STATIONS ARE UP

2400 STANDING BY NEAR DIAMOND M EPOCH

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 16TH 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL No 1

Geophysical Company Oil Company WEAVER Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

1-57

SEE INSTRUCTIONS ON REVERSE

445138

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
	G. WARD						
	R. ROUNDS						
	D. RUSSELL						

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System-Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 STANDING BY NEAR DIAMOND M EPOCH

1200 WEATHER NOW TO ROUGH TO WORK

PERIODIC CHECKS ON RADIO FOR BASE STN PROGRESS

2400 WAITING ON WEATHER

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 17TH 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL NO. 1

Geophysical Company Oil Company WEAVER Radio Frequency 784D KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445139

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERTICAL PAIRS L.P.'s

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	G. WARD						
PT. SORELL	R. ROUNDS						
DRS ROCKS	D. RUSSELL						

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System - Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 WAITING ON WEATHER

PERIODIC RADIO CHECKS WITH BASE STNS

2400 WAITING ON WEATHER

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 18TH 1984 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL Nº 1

Geophysical Company Oil Company WEAVER Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445140

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	G. WARD	9.218	009	122	016	3	VERT PAIRS L.P.Ls
PT. SORELL	R. ROUNDS	9.218	026	040	055	1	VERT PAIRS L.P.Ls
DRS ROCKS	D. RUSSELL	9.218	028	113	006	5	VERT PAIRS L.P.Ls

OPERATING TIME

Time On	Time Off	Requested By	System Used For
1200	1300	A. HOGGART	CHECKING SIGNALS

O/T Requested By		Total System-Hours Operation For Client	1 HR

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 WAITING ON WEATHER

PERIODIC RADIO CHECKS

1200 – 1300 ON IN OPERATE CHECKING SIGNALS FROM DRS. ROCKS + PT SORELL – SIGNALS OK

PERIODIC RADIO CHECKS

2400 WAITING ON WEATHER

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 19TH 84 Vessel BASS TIDE Client TASMANIAN

Geophysical Company Oil Company WEAVER Party Number DEVIL No. 1

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Radio Frequency 7840 KHZ

Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445141

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	G. WARD	9.218	009	122	016	3	VERT PAIRS L.P.Ls
PT SORELL	R. ROUNDS	9.218	026	040	055	1	VERT PAIRS L.P.Ls
DRS ROCKS	D. RUSSELL	9.218	028	113	006	5	VERT PAIRS L.P.Ls

OPERATING TIME

Time On	Time Off	Requested By	System Used For
1200	1230	A. HOGGART	CHECKING SIGNALS

O/T Requested By		Total System-Hours Operation For Client	0h 30m

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 WAITING ON WEATHER

PERIODIC RADIO CHECKS

1200-1230 ON IN OPERATE CHECKING SIGNALS FROM THE NUT - SIGNALS OK

PERIODIC RADIO CHECKS

2400 WAITING ON WEATHER

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 20TH 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL No. 1

Geophysical Company Oil Company WEAVER Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

MAXIRAN DAILY OPERATIONS LOG

445142

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	G. WARD	9.218	009	122	016	3	VERT PAIRS L.P.Ls
PT SORELL	R. ROUNDS	9.218	026	040	055	1	VERT PAIRS L.P.Ls
DRS ROCKS	D. RUSSELL	9.218	028	113	006	5	VERT PAIRS L.P.Ls

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System - Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 WAITING ON WEATHER

PERIODIC RADIO CHECKS

2400 WAITING ON WEATHER

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 21ST 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL No 1

Geophysical Company Oil Company WEAVER Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445143

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	G. WARD	9.218	009	122	016	3	VERT PAIRS L.P.Ls
PT. SORELL	R. ROUNDS	9.218	026	040	055	1	VERT PAIRS L.P.Ls
DRS ROCKS	D. RUSSELL	9.218	028	113	006	5	VERT PAIRS L.P.Ls

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System - Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 WAITING ON WEATHER
0500 WEATHER OK PICKING UP ANCHORS FOR THE RIG
1030 STOP ANCHOR HANDLING - TOO ROUGH
PERIODIC RADIO CHECKS
2400 WAITING ON WEATHER

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 22ND 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL No 1

Physical Company Oil Company WEAVER Radio Frequency 7860 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

MAXIRAN DAILY OPERATIONS LOG

445144

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	G. WARD	9.218	009	122	016	3	VERT PAIRS L.P.Ls
PT. SORELL	R. ROUNDS	9.218	026	040	055	1	VERT PAIRS L.P.Ls
DRS. ROCKS	D. RUSSELL	9.218	028	113	006	5	VERT PAIRS L.P.Ls

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System-Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 WAITING ON WEATHER

PERIODIC RADIO CHECKS

2400 WAITING ON WEATHER

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG. 23RD 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL Nº 1

Physical Company Oil Company WEAVER Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445145

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		062	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	G. WARD	9.218	009	122	016	3	VERT PAIRS L.P.Ls
PT. SORELL	R. ROUNDS	9.218	026	040	055	1	" " "
DRS. ROCKS	D. RUSSELL	9.218	028	113	006	5	" " "

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System - Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 WAITING ON WEATHER

PERIODIC RADIO CHECKS

2400 WAITING ON WEATHER

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 24TH 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL No 1

Geophysical Company Oil Company WEAVER Radio Frequency 7860 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445146

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	G. WARD	9.218	009	122	016	3	VERT PAIRS L.P.Ls
Pt. SORELL	R. ROUNDS	9.218	026	040	055	1	" " "
DRS ROCKS	D. RUSSELL	9.218	028	113	006	5	" " "

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0700	0900	P. MUNDAY	RIG LOCATION
2000	2400	P. MUNDAY	RIG LOCATION

O/T Requested By		Total System - Hours Operation For Client	6h

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 WAITING ON WEATHER

00 ON IN OPERATE
0900 NET SECURED & ON 2 HOURLY RADIO CHECKS
1300 PULLING ANCHORS FOR DIAMOND M EPOCH
2000 ON IN OPERATE EN ROUTE FOR LOCATION

2345 OFFSET BUOY OVER
2355 READ OFFSET BUOY N=72.578 S=52.863 R=44.611 10m @ 300°

2400 LAYING BUOYS

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 25TH 84 Vessel BASS TIDE

Client Party Number TASMANIAN DEVIL N° 1

Physical Company

Oil Company WEAVER

Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback

Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445147

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	G. WARD	9.218	009	122	016	3	VERT PAIRS L.P.Ls
PT. SORELL	R. ROUNDS	9.218	026	040	055	1	" " "
DRS ROCKS	D. RUSSELL	9.218	028	113	006	5	" " "

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0001	2400	P. MUNDAY	RIG POSITIONING

O/T Requested By		Total System - Hours Operation For Client	24 h

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 LAYING BUOYS

0008 No 6 BUOY OVER

0012 READ 6 N: 73.221 S: 53.146 R: 45.580 7m @ 120°

0024 No 2 BUOY OVER

0029 READ 2 N: 72.050 S: 52.290 R: 43.519 10m @ 315°

0036 No 7 BUOY OVER

0040 READ 7 N: 73.656 S: 52.139 R: 45.320 12m @ 135°

0054 No 3 OVER - ROPE TANGLED NO GOOD

0115 No 3 BUOY OVER

0120 READ 3 N: 71.544 S: 53.300 R: 43.752 15m @ 330°

0140 ANCHOR DOWN WAITING ON DIAMOND M EPOCH

0715 ANCHOR UP PROCEEDING WITH RIG LOCATION

0748 CHECK OFFSET BUOY N: 72.554 S: 52.839 R: 44.568 10m @ 000°

0945 CK RIG N: 72.596 S: 52.584 R: 44.416 92m @ 325°

1124 CK RIG N: 72.629 S: 52.658 R: 44.505 87m @ 321°

1656 CK RIG N: 72.631 S: 52.666 R: 44.525 87m @ 330°

1720 ANCHOR DOWN WAITING ON WEATHER

2400 WAITING ON WEATHER

Mobile Operator(s) A. HOGGART Party Chief D. RUSSELL

Project Number 1511 Date AUG 26TH 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL No 1

Geophysical Company Oil Company WEAVER Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445148

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM
		042	002	073	VERT PAIRS L.P.Ls

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type(s)
THE NUT	G. WARD	9.218	009	122	016	3	VERT PAIRS L.P.Ls
PT SORELL	R. ROUNDS	9.218	026	040	055	1	" " "
DRS ROCKS	D. RUSSELL	9.218	028	113	006	5	" " "

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0001	1530	P. MUNDAY	RIG LOCATION

O/T Requested By		Total System-Hours Operation For Client	15h 30m

LOST TIME

From	To	Hours Lost	Reason(s)
		NIL	

Brief Operations Log & Remarks 0001 AT ANCHOR NEAR LOCATION WAITING ON WEATHER
0710 ANCHOR UP
1057 CK RIG N = 72.592 S = 52.671 R = 44.490 82m @ 336° T
1428 CK RIG N = 72.588 S = 52.679 R = 44.502 87m @ 336° T
1443 CK RIG N = 72.606 S = 52.671 R = 44.507 87m @ 336° T

1513 ATTEMPT CHECK FIX FROM FROUNT OF RIG
N = 72.471 S = 52.800 R = 44.418 APPROX 120M @ 66° T
1530 NET SECURED
2140 EN ROUTE FOR WELSHPOOL

2400 EN ROUTE FOR WELSHPOOL

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSELL

Project Number 1511 Date AUG 27TH 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL No 1

Geophysical Company Oil Company WEAVER Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback Shot Point Interval

N-57

SEE INSTRUCTIONS ON REVERSE

445149

MAXIRAN DAILY OPERATIONS LOG

Mobile Station	NAVCOMP	INDICATOR	INTERROGATOR	AMPLIFIER	ANTENNA SYSTEM

BASE STATIONS

Station Name/No.	Operator	Mob. Delay	Beacon	Control Box	Amplifier	Code	Antenna Type (s)
	G. WARD						
	R. ROUNDS						
	D. RUSSELL						

OPERATING TIME

Time On	Time Off	Requested By	System Used For

O/T Requested By		Total System - Hours Operation For Client	NIL

LOST TIME

From	To	Hours Lost	Reason (s)
		NIL	

Brief Operations Log & Remarks COOL EN ROUTE FOR WELSHPOOL

0835 ALONGSIDE IN WELSHPOOL

DE RIG BASS TIDE

FLY TO TASMANIA WITH EQUIPMENT NEEDED FOR CALIBRATION

Mobile Operator(s) A. HOGGART

Party Chief D. RUSSEL

Project Number _____ Date AUG 28TH 84 Vessel BASS TIDE Client Party Number TASMANIAN DEVIL No 1

Geophysical Company _____ Oil Company WEAVER Radio Frequency 7840 KHZ

Country AUSTRALIA Area/Prospect BASS STRAIT Stepback _____ Shot Point Interval _____

N-57

SEE INSTRUCTIONS ON REVERSE

445150

APPENDIX B

THE MAXIRAN RADIOPOSITIONING SYSTEM

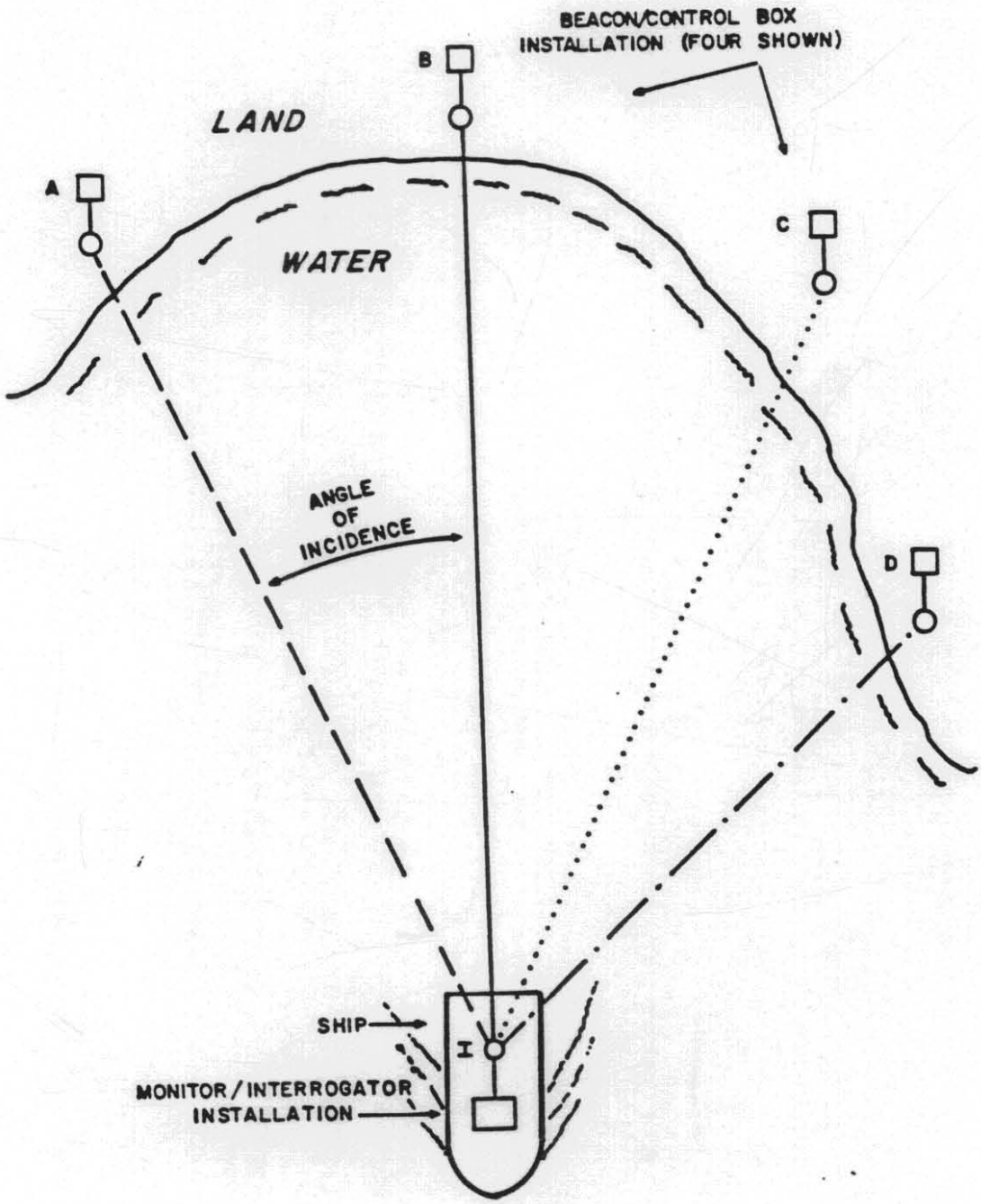
I. THE MAXIRAN RADIOPOSITIONING SYSTEM

The Maxiran Radiopositioning System is a precision electronic ranging system, capable of both manual and automatic tracking of range. It is especially useful for measuring distances across bodies of water.

The use of the Maxiran requires three or more electronic installations. For the purposes of this discussion, one of these installations is assumed to be aboard a ship (see Figure 1). This installation consists of the Maxiran Monitor and Interrogator. The other installations are located onshore. Each of these installations consist of a Maxiran Beacon and a Control Box. There are two or more of the Beacon Control Box installations situated at appropriate locations onshore.

In operation, the Monitor/Interrogator installation transmits a radio signal (containing a Beacon-Select code which addresses a selected Beacon) which is picked up by all of the Beacon/Control Box installations. Each Beacon decodes the received signal and decides whether the Beacon-Select code transmitted corresponds to that Beacon. If the Beacon-Select code is correct for a

FIGURE-1. TYPICAL MAXIRAN SYSTEM



5 cm

I. THE MAXIRAN RADIOPOSITIONING SYSTEM (continued)

Beacon, it responds by transmitting a radio signal reply. The Monitor measures the amount of time elapsed between the Interrogator's transmission and the received reply sent by the Beacon. Since, for all practical purposes, radio signals travel at a known speed, the time elapsed between transmission and response is a measure of the distance the radio signal travelled. The elapsed time is converted by the Monitor into distance and then displayed. Knowing the location of the land stations and the current distance from the ship to each of them, the position of the ship can be readily calculated.

For the purposes of this discussion, let us first assume that only two Beacons are being utilized. They are the Beacons marked "A" and "B" in Figure 1. Since the distance from Beacon "A" to the Interrogator (call it distance A1), and the distance from Beacon "B" to the Interrogator (call it distance B1) are now known (these distances are the distances displayed on the Monitor front panel), we can use some geometry to calculate the position of the ship with reference to Beacons "A" and "B".

EPTUNE NAVIGATION
AUSTRALIA PTY. LTD.

I. THE MAXIRAN RADIOPOSITIONING SYSTEM (continued)

As illustrated in Figure 2, the distances of A1 and B1 define two intersecting circles, one with a radius of length A1 centered about Beacon "A", the other with radius of length B1 centered about Beacon "B". The two circles intersect at two points (marked I and I' in Figure 2). Obviously, the ship can only be located at one of the points. Since point I' happens to be located on land, we can safely assume that the ship is located at Point I.

There is always some uncertainty associated with the exact measurements of the Beacons. This is illustrated in Figure 3. Figure 3 illustrates an enlarged view of the intersection of the circles shown in Figure 2. If the tolerance of the measurements of Beacon "B" is plus-or-minus 5 meters, then the two solid lines in Figure 3 are 10 meters apart. The tolerance of the measurements of Beacon "A" should be the same as that of Beacon "B", but this is not always the case due to differences in geographical location. Under the above conditions, we only know that the ship is located somewhere in the shaded area of Figure 3.

FIGURE-2. SYSTEM WITH TWO BEACONS

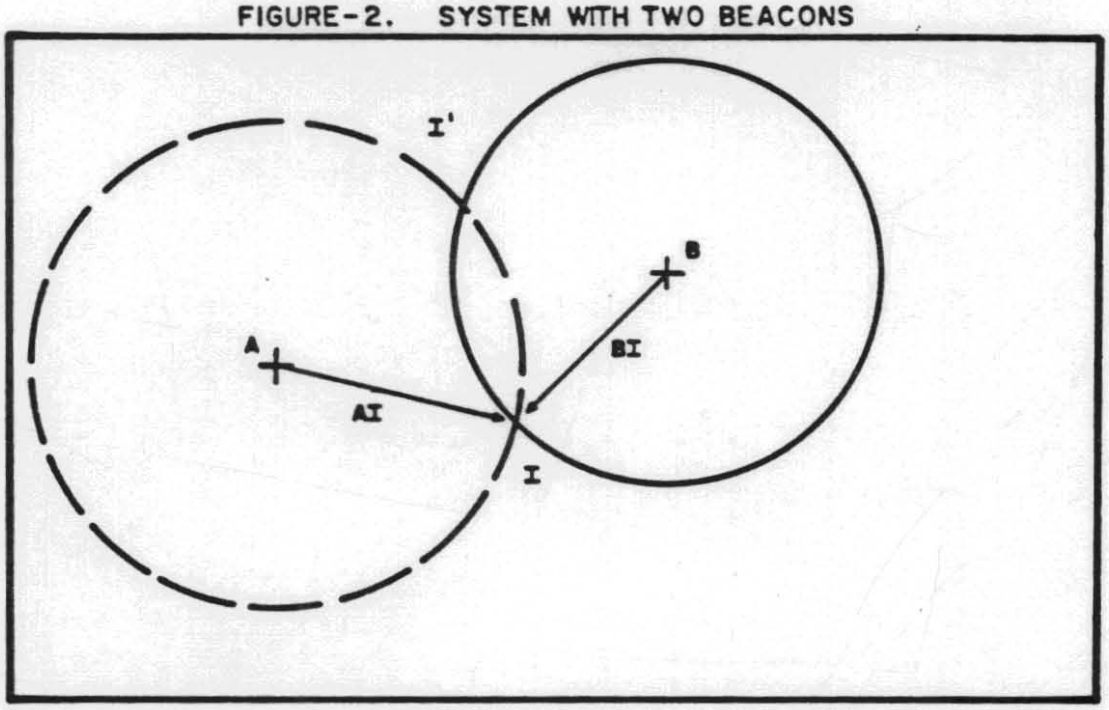
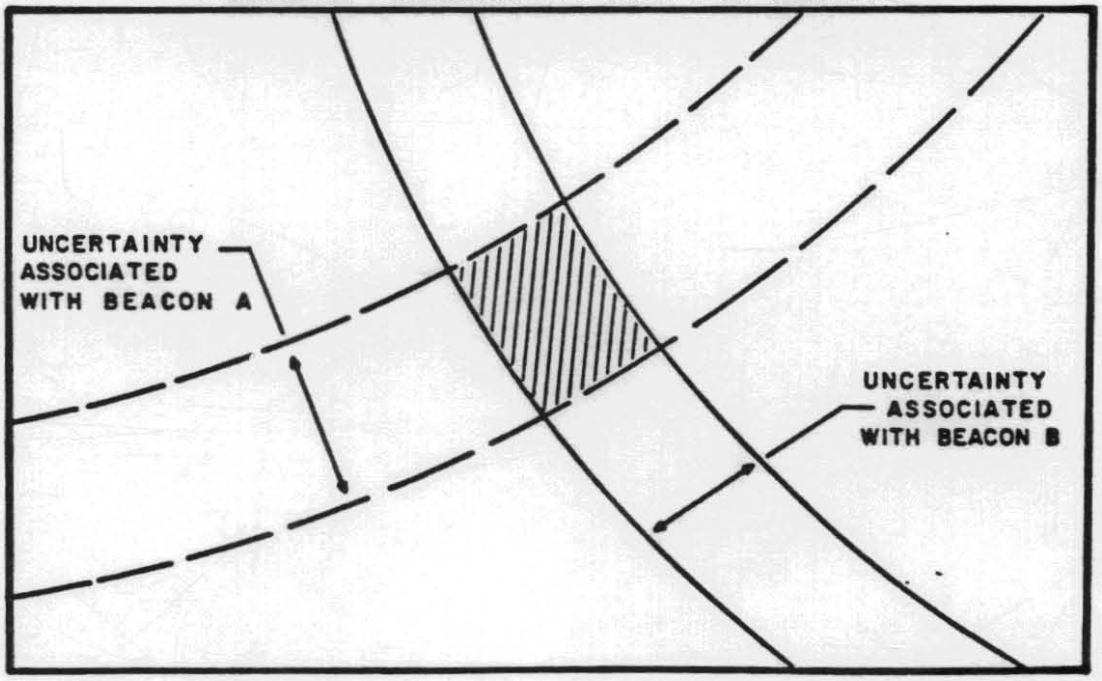


FIGURE-3. UNCERTAINTY WITH TWO BEACONS



5 cm

I. THE MAXIRAN RADIOPOSITIONING SYSTEM (continued)

For the purposes of the following discussion, it is assumed that there are now three Beacons utilized. Now three circles are defined, instead of the two from the discussion above. The third distance, from Beacon "C" to the Interrogator (call it distance Cl), defines a circle of radius length CI centered about Beacon "C". The new situation is illustrated in Figure 4. Notice that with the three circles, there is only one location where all three circles can intersect. This eliminates the ambiguity associated with using only two Beacons. Now there is no I' to worry about. An additional advantage of using three Beacons is illustrated in Figure 5. Now the area of uncertainty has been reduced even though the tolerance of Beacon "C"'s measurement isn't any better than that of the other Beacons.

As the ship moves along, one or more of the Beacons may become unusable for various reasons; out of range, too small or too great an operating angle, etc. If additional Beacons are situated on shore, they may be interrogated, as desired, to greatly expand the range and usability of the system.

OFFSHORE NAVIGATION AUSTRALIA PTY. LTD.

FIGURE-4. SYSTEM WITH THREE BEACONS

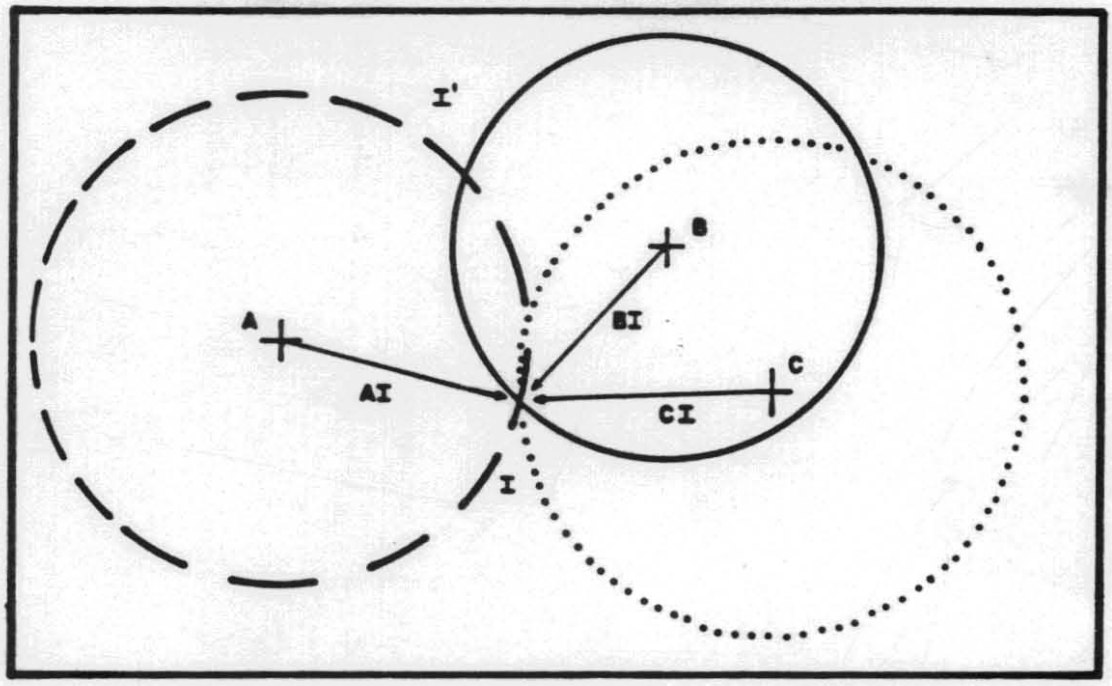
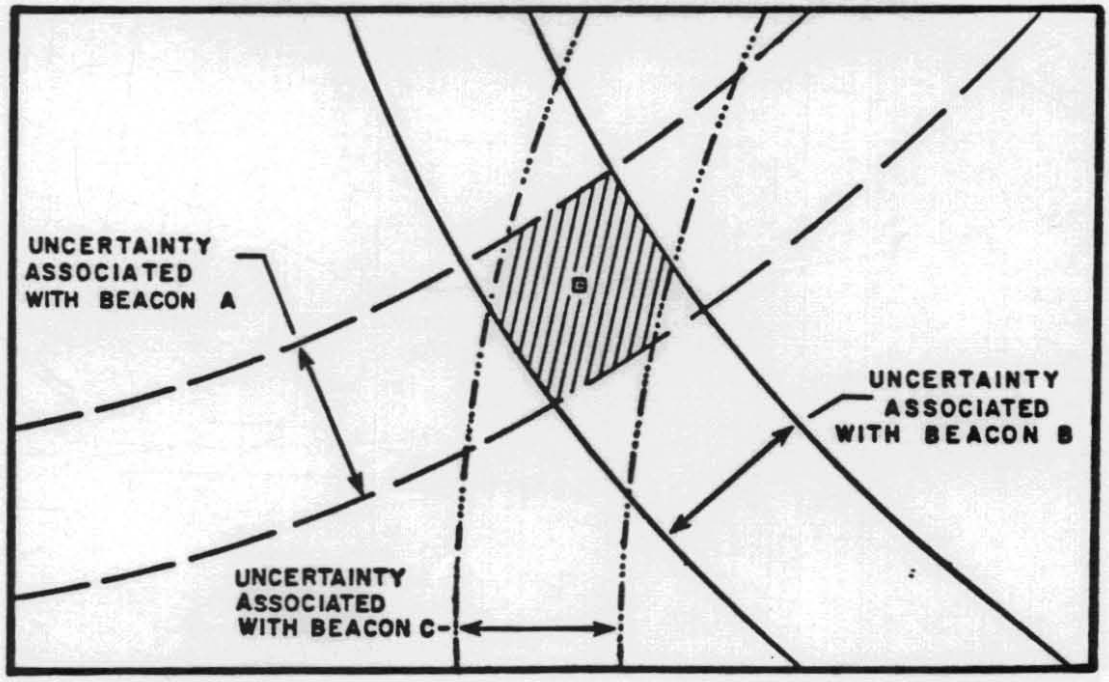


FIGURE-5. UNCERTAINTY WITH THREE BEACONS



5 cm

OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.

I. THE MAXIRAN RADIOPOSITIONING SYSTEM (continued)

As many as three different Beacons may be selected at one time by the proper setting of the Monitor's Beacon-Select switches.

DITRONICS NAVIGATION
AUSTRALIA PTY. LTD.

OR-3068 445159

ENCLOSURE 1a
Schlumberger

DIL-ILS-LML-GR-SP RUN 1

CSU Field Log

COMPANY: HEAVER OIL & GAS AUSTRALIA
WELL: TAUMANAH DEVIL R1
FIELD: WILDCAT
STATE: TASMANIA
NATION: AUSTRALIA
LOCATION: T.16F

SEC: TWP: RGE:
LATITUDE: 040 46 ~~southing~~ IN-DPMS
LONGITUDE: 146 09 ~~easting~~ WGS/PMS

PERMANENT DATUM: M.LOW LEVEL ELEVATIONS:
ELEV. OF PERM. DATUM: MSL KB: 71.8 F
LOG MEASURED FROM: KB DF: 70.8 F
DRILL. MEASURED FROM: RBOSE PERM. DATUM GL: -242.1 F

DATE: 29 AUG 1984
RUN NO: 1

DEPTH-DRILLER: 1852.6 F
DEPTH-LOGGER:
BTM LOG INTERVAL:
TOP LOG INTERVAL:

CASING-DRILLER: 826 F
CASING-LOGGER:
BIT SIZE: 20.
WEIGHT: 133.0 LB/F
BIT SIZE: 17 1/2
DEPTH: 1850 F

OTHER SERVICES:

PROGRAM
TAPE NO:
PV-2
SERVICE
ORDER NO:
SE4040803

LOGGING DISTRICT: CSU
LOGGING ENGINEER: R.FLEMING
WITNESS: MR.BOYD

RECORDED BY: P.Cumming

TYPE FLUID IN HOLE: LIGNITE/CMC-GEL
SURFACE TEMP: 15.0 C
BOTTOM HOLE TEMP: 43.0 C
FLUID LEVEL: FULL
PRIMARY EQUIPMENT: DIL-SP-SONIC-GR
MATRIX: SANDSTONE
MATRIX DT: 55.5 US/F
FLUID DT: 189.0 US/F
RMF @ MEAS TEMP: 0.08 OHMM
RMC @ MEAS TEMP: 0.08 OHMM
RM @ MEAS TEMP: 0.14 OHMM
RMF @ BHT: 0.05 OHMM
RMC @ BHT: 0.05 OHMM
RM @ BHT: 0.14 OHMM
TIME CIRC STOPPED: 19:15 29AUG
TIME LOGGER ON BTM: 20:
MAX. REC. TEMP: 0.0 DEGC
EQUIPMENT NUMBER: CSU-B
LOCATION: CSU
RECORDED BY: P.Cumming
WITNESSED BY: MR.BOYD

DIL-SP 1415 DIL-ILS-LML-GR-SP
DIL-ILS-LML-GR-SP 1415 1852.6
DIL-ILS-LML-GR-SP 1415 1852.6

DIL-ILS-LML-GR-SP
DIL-SP-SONIC-GR
DIL-SP-SONIC-GR

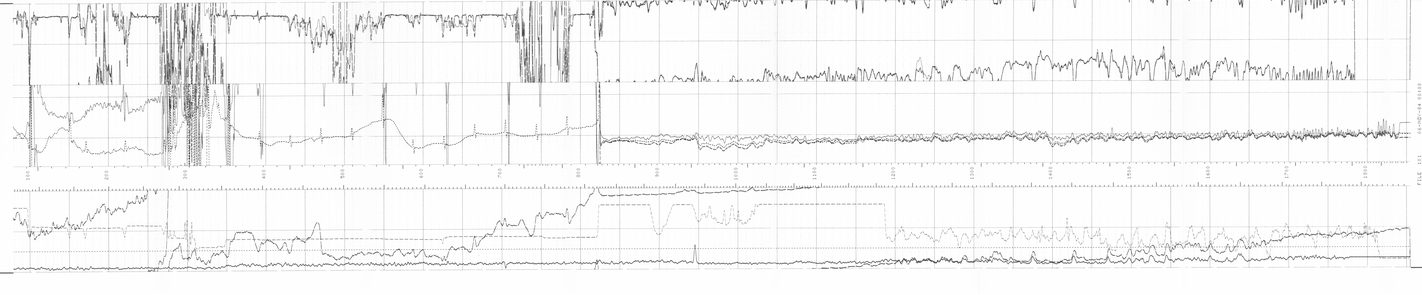
DIL-SP-SONIC-GR
DIL-ILS-LML-GR-SP
DIL-ILS-LML-GR-SP

RUN NO. DATE TYPE LOG INTERVAL BIT SIZE CASING SIZE WT. DEPTH
1 29/8/84 DIL-SP-SONIC 1415 - 1852.6 17.5 20 133 826
1 29/8/84 DIL-ILS-LML-GR-SP 1415 - 1852.6 17.5 20 133 826

TOOL NO. TYPE DIST. ABOVE BIT
DIL-SP-SONIC-GR 1.0 M
DIL-ILS-LML-GR-SP 1.0 M

TOOL NO. TYPE DIST. ABOVE BIT
DIL-SP-SONIC-GR 1.0 M
DIL-ILS-LML-GR-SP 1.0 M

DATE OF LOG: 29-AUG-1984
DATE ACCURED: 29-AUG-1984



1	29/8/84	DIL-SP-SONIC	1415	1852.6	17.5
1	29/8/84	DIL-ILS-LML-GR-SP	1415	1852.6	17.5

DIL-SP-SONIC-GR	1.0 M	DIL-SP-SONIC-GR	1.0 M
DIL-ILS-LML-GR-SP	1.0 M	DIL-ILS-LML-GR-SP	1.0 M

SENSOR MEASURE POINT TO TOOL ZERO

DIL-SP-SONIC-GR	1.0 M	DIL-SP-SONIC-GR	1.0 M
DIL-ILS-LML-GR-SP	1.0 M	DIL-ILS-LML-GR-SP	1.0 M

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DIL-SP-SONIC-GR			DIL-ILS-LML-GR-SP		

CRI Log

COMPANY:	ARCOPH EQ & GAS AUSTRALIA
WELL:	ARCOPH ARTEX 1A
FIELD:	WILDCAT
COUNTRY:	AUSTRALIA
STATE:	TASMANIA
LOCATION:	ARTEX PENINSULA
LOCATION:	
LOCATION:	
LOCATION:	TOP:
LOCATION:	1000 FSL 1000 FEL SECTION 10 T43S R3E
PERMANENT DATUM:	G.L.(ASL) ELEV(FT):0.0
LOG MEASURED FROM:	K.B. 25.0 ABOVE PERM.DATUM
DRILL MEASURED FROM:	K.B. ELEV.25.0
DATE:	28 FEB.1986
RUN NO.:	
DEPTH-DRILLER:	TD:0.00 M
DEPTH-LOGGER:	TD:0.00 M
BTM LOG INTERVAL:	TD:0.00 M
TOP LOG INTERVAL:	0.00 M
CASING-DRILLER:	0.00 M
CASING-LOGGER:	0.00 M
BIT SIZE:	0.00 M
TYPE FLUID IN HOLE:	
DENSITY:	0.0 LB/G
VISCOSITY:	0.0 S
PH:	0.0
FLUID LOSS:	0.0 C3
SOURCE OF SAMPLE:	FLOWING
RM @ MEASURED TEMP:	0.000 OHMM
RMF @ MEASURED TEMP:	0.000 OHMM
RMC @ MEASURED TEMP:	0.000 OHMM
RM @ BHT:	0.000 OHMM
TIME CIRC.STOPPED:	23:00
TIME LOGGER ON BTM:	23:45 28MAR86
MAX. REC. TEMP.:	25.00 DEGC
LOGGING UNIT NO.:	1
LOGGING ENGINEER:	MR. CHRISTOPHER M.STEVENS
WITNESSED BY:	MR. FRANK
WITNESSED BY:	MR.
REMARKS:	

EQUIPMENT NUMBERS

MCD-B-1002	DIS-CB-1005	DLS-CB-1017	DLS-CB-1008
MCD-B-1003	DIS-CB-1006	DMS-B-1011	DMS-B-1012
MCD-B-1004	DIS-CB-1007	DMS-B-1013	DMS-B-1014

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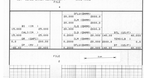
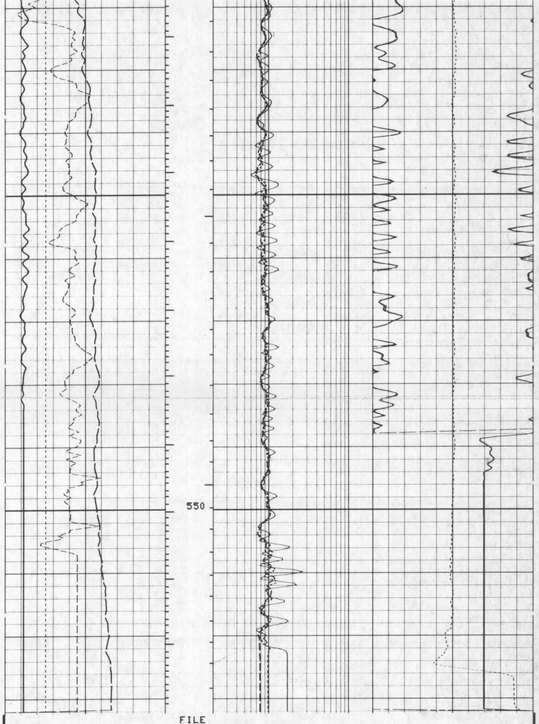
AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED BY: MR. CHRISTOPHER M.STEVENS
PROGRAM: DLS-CB-1017 DIS-CB-1006 DMS-B-1013 DMS-B-1014

TOOL CHECK

DATE	MEMORY CHECK		PLUS CHECK			UNIT
	MEASURE	TOL	MEASURE	TOL		
0.0	0.0	0.0	0.0	0.0	MCD-B	0000
0.0	0.0	0.0	0.0	0.0	DLS-CB	0000
0.0	0.0	0.0	0.0	0.0	DMS-B	0000
0.0	0.0	0.0	0.0	0.0	DIS-CB	0000
0.0	SOURCE SPONGE CHARACTERISTIC		0.0	0.0	DMS-B	0000
			0.0	0.0	DIS-CB	0000


DT-CSL
DT-SSL
DT-CSL
DT-SSL
DT-CSL
DT-SSL



FILE

1

BS (IN) 15.000 25.000	SFLU(OHMM) 20.000 2000.0	
CALI(IN) 15.000 25.000	ILM (OHMM) 20.000 2000.0	
GR (GAPI) 0.0 200.00	ILD (OHMM) 20.000 2000.0	DTL (US/F) 140.00 40.000
SP (MV) -80.00 20.000	ILD (OHMM) 0.2000 20.000	TENS(LB) 2000.0 0.0
	ILM (OHMM) 0.2000 20.000	DT (US/F) 140.00 40.000
	SFLU(OHMM) 0.2000 20.000	

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CBL	16.6	METER	AMPL	16.6	METER
TT3	16.6	METER	TT4	16.3	METER
TT1	16.9	METER	TT2	16.6	METER
GR	23.5	METER	SRAT	18.1	METER
ILD	2.1	METER	CALI	8.9	METER
ILM	1.0	METER	SFL	1.2	METER
SPAR	.0	METER	SP	.0	METER
CMSF	8.8	METER	TENS	.0	METER
NOIS	13.2	METER	I1	8.9	METER

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DDEL	200	US	BS	17.5000	IN
DWCD	512		DSIN	5	US
SPS	DT		ITTS	DT	
DTM	56.0000	US/F	CDTS	100.000	
DSEC	7.90000	MMHO	DTF	189.000	US/F
MSEC	10.2000	MMHO	SBR	1.00000	OHMM
FPHI	SPHI		SPT	STAN	
DD	0.0	F	BHS	OPEN	

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 84/08/29
PROGRAM FILE: DDBHC (VERSION 24.2 83/06/11)

DITD ELECTRONICS CALIBRATION SUMMARY

	MEASURED ZERO	MEASURED PLUS	CALIBRATED ZERO	CALIBRATED PLUS	UNITS
ILD	0.4	519.1	0.0	505.2	MMHO
ILM	0.1	518.8	0.0	509.8	MMHO
SFL	-0.0	522.5	0.0	500.0	MMHO

ILD SONDE ERROR CORRECTION : 7.9 MMHO
ILM SONDE ERROR CORRECTION : 10.2 MMHO

SGTE DETECTOR CALIBRATION SUMMARY

	MEASURED BKGD	JIG	CALIBRATED	UNITS
GR	4	154	164	GAPI

SRTB CALIPER CALIBRATION SUMMARY

	MEASURED SMALL	MEASURED LARGE	CALIBRATED SMALL	CALIBRATED LARGE	UNITS
CALI	7.5	9.8	12.0	16.0	IN

FILE

0

SONI SUMM :

SONI	STAT	PUNI	TUNI	VALU
SPS				DT
ITTS				DT
ITTD				BOTH
MODE				DDBH
RPS				LONG
RATE		HZ	HZ	15 HZ
DG				AUTO
DG1W				/20
DG2W				/20
DG3W				/20
DG4W				/20
AGC	ALLO			*
GAIN				2.00000
MGAI				16.0000
DETE				E2
NC	DISA			*
SGAD	ALLO			*
NMSG		US	US	480 US
FMSG		US	US	520 US
SGW		US	US	80 US
FD	DISA			*
CBLG		US	US	35 US
AMPL				2
CBL				2
WFM				1
VDLD				NEIT
WFD				NEIT
WFS		FT	FT	10 FT
SS				FAST
TC				1
TOD	DISA			*
W1MP		IN	IN	147 IN
W2MP		IN	IN	135 IN
W3MP		IN	IN	135 IN
W4MP		IN	IN	123 IN
DTT	ALLO			*
SPA		F	F	8
LMOD				DT

SHOP SUMMARY

PERFORMED: 84/08/28
PROGRAM FILE: SHOP (VERSION 24.2 83/03/29)

DITD ELECTRONICS CALIBRATION SUMMARY

	TEST LOOP CALIBRATION MEASURED ZERO	MEASURED PLUS	CALIBRATED ZERO	CALIBRATED PLUS	TOOL CHECK CALIBRATED ZERO	CALIBRATED PLUS	UNITS
ILD	-7.9	502.3	0.0	500.0	0.0	505.7	MMHO
ILM	-11.2	499.7	0.0	500.0	0.0	510.0	MMHO

ILD SONDE ERROR CORRECTION : 7.9 MMHO
ILM SONDE ERROR CORRECTION : 10.2 MMHO

(IS:1519, IC:1465)

5 cm

OR-35GB

445.61

SCHLUMBERGER Schlumberger

DIL-SLS-CNL-GR-SP RUN 1 1:500

CSU Field Log

COMPANY: WEAVER OIL & GAS AUSTRALIA

WELL: TASMANIAN DEVIL #1

FIELD: WILDCAT

STATE: TASMANIA
NATION: AUSTRALIA
LOCATION: T/16P

SEC: TWP: RGE:
LATITUDE: 040 44 ~~40.00 S~~ 40.0973
LONGITUDE: 146 39 ~~46.00 E~~ 46.7232

PERMANENT DATUM: M.SEA LEVEL ELEVATIONS:
ELEV. OF PERM. DATUM: 0.0 M KB 31.9 M
LOG MEASURED FROM: KB 31.9 M DF 31.4 M
DRLG. MEASURED FROM: ABOVE PERM. DATUM GL -73.00 M

DATE: 29 AUG 1984
RUN NO: 1

OTHER SERVICES:

PROGRAM
TAPE NO:
DATE
SERVICE
ORDER NO:
IE#040803

DEPTH-DRILLER: 564.70 M
DEPTH-LOGGER: 562.50 M
BTM. LOG INTERVAL: 561.00 M
TOP LOG INTERVAL: 251.5 M

CASING-DRILLER: 251.9 M
CASING-LOGGER: 251 M
CASING SIZE: 13 3/8
WEIGHT: 133.5 LB/F
BIT SIZE: 17 1/2
DEPTH: 564. M

TYPE FLUID IN HOLE: LIGNITE/CMC-GEL.
DENSITY: 9.3 LB/G
VISCOSITY: 53. S
PH: 9.5
FLUID LOSS: 9.7 C3
SOURCE OF SAMPLE: FLOWLINE
RM: 0.797 OHMM AT 17.5 DEGC
RMF: 0.598 OHMM AT 17.5 DEGC
RMC: 1.040 OHMM AT 16.5 DEGC
SOURCE RMF/RMC: FREZ1/FREZ1
RM AT BHT: 0.426 OHMM AT 43.3 DEGC
RMF AT BHT: 0.345 OHMM AT 43.3 DEGC
RMC AT BHT: 0.610 OHMM AT 43.3 DEGC

TIME CIRC. (TOPPED): 19.15 2HOUG.
TIME LOGGER ON BTM.: 21.15 2HOUG.

MAX. REC. TEMP: 43.30 DEGC

LOGGING UNIT NO: 3
LOGGING PROC. AT LOC: DEVIL (DIAMOND M.EPOCH)
RECORDED BY: THOMAS (WAH).
WITNESSED BY: P. LAWRY.

REMARKS:

EQUIPMENT NUMBERS-

DIS-GC 1519 DIC-DA 1465 SLS-CC 317 SLC-KB 1959
DRS-B 8701 DRS-CB 1811 DRA-A 1819 DGC-JC 3596
IEM-BB 995 SLM-DA 1709 MEM-AA 2876

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FILE
5

AFTER SURVEY TOOL CHECK SUMMARY

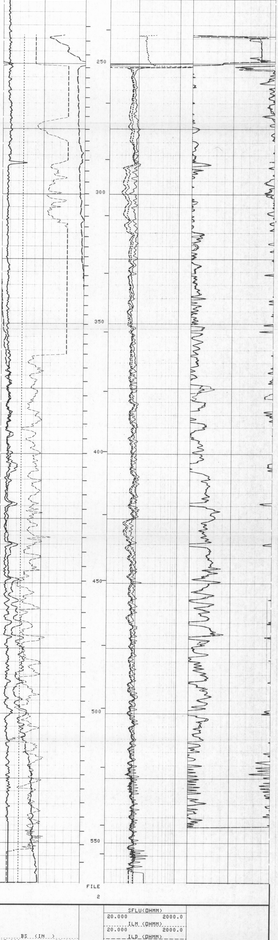
PERFORMED: 84/08/29
PROGRAM FILE: SSBHC (VERSION 24.2 83/06/11)

DITD TOOL CHECK

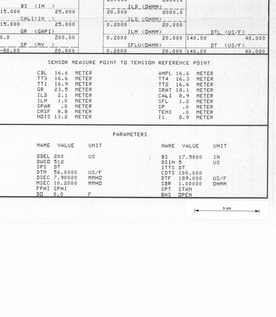
	ZERO BEFORE	ZERO AFTER	PLUS BEFORE	PLUS AFTER	UNITS
ILD	0.0	0.1	595.2	595.0	MMHO
ILM	0.0	0.0	509.8	509.0	MMHO
SFL	0.0	-0.3	500.0	469.3	MMHO

ILD INDUCE ERROR CORRECTION : 7.9 MMHO
ILM INDUCE ERROR CORRECTION : 10.2 MMHO

FILE
4



FILE
2



TENSION MEASURE POINT TO TENSION REFERENCE POINT

CBL 16.6 METER		APM1 16.6 METER	
TT3 16.6 METER		TT4 16.2 METER	
TT1 16.9 METER		TT2 16.6 METER	
GR 23.5 METER		DRAT 10.1 METER	
SP 16.6 METER		SFL 16.6 METER	
ILM 16.6 METER		SFL 16.6 METER	
SPAR .0 METER		SP .0 METER	
CMDF 8.8 METER		TENS .0 METER	
HDIS 13.8 METER		II 8.9 METER	

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DBSL	200		BS	17.5000	IN
BWCS	510		BSIN	5	US
BWS	0		CSIZ	13.3	
STN	56.0000	US/F	CSTD	101.000	
SIEC	7.9000	MMHO	SFT	189.000	US/F
MIEC	10.2000	MMHO	IRM	1.0000	OHMM
FPHI	IPHI		SFT	ITAN	
RM	3.4	F	BHS	DRAN	

1 cm

002-356B

445.102

ENCLOSURE 7a
Schlumberger

DIL-SLS-CAL-GR-SP RUN 2

CSU Field Log

COMPANY:	WEAVER OIL & GAS AUSTRALIA
WELL:	TASMANIAN DEVIL 01
FIELD:	WILDCAT
STATE:	TASMANIA
COUNTRY:	AUSTRALIA
LOCATION:	Lat: 41°29'S
SEC:	
TWP:	
RGE:	
LATITUDE:	040 44 ~~41~~ 41.8 S
LONGITUDE:	146 09 45.00 E 146.8 E
ELEV. OF PERM. DATUM:	M.SEA LEVEL
ELEVATIONS:	K.B. F
LOG MEASURED FROM:	KB 2.2 F
DRILL MEASURED FROM:	DF 2.2 F
	GL -20.2 F

OTHER SERVICES:

DATE:	1 SEP 1994
RUN NO:	2
DEPTH-DRILLER:	2232.6 F
DEPTH-LOGGER:	
BTM. LOG INTERVAL:	
TOP LOG INTERVAL:	
CASING-DRILLER:	20.0 F
CASING-LOGGER:	20.0 F
BIT SIZE:	8.5 F
CASING-SIZE:	16.0 F
TYPE FLUID IN HOLE:	LIGNITE-DEXTRIL-GEL.
DENSITY:	9.1 LB/G
VISCOSITY:	43.0 S
PH:	10.5
FLUID LOSS:	7.2 C3
SOURCE OF SAMPLE:	FLOWLINE
RM:	.689 OHMM AT 15.5 DEGC
RMF:	.566 OHMM AT 16.0 DEGC
RMC:	.951 OHMM AT 15.0 DEGC
SOURCE RMF/RMC:	PRESS /PRESS
RM AT BHT:	1.181 OHMM AT 0.0 DEGC
RMF AT BHT:	.983 OHMM AT 0.0 DEGC
RMC AT BHT:	1.609 OHMM AT 0.0 DEGC
TIME CIRC. STOPPED:	20.30 1SEP.
TIME LOGGER ON BTM.:	21.15 29AUG.
MAX. REC. TEMP:	0.0 DEGC
LOGGING UNIT NO:	33
LOGGING UNIT LOC:	SEA (DIAMOND M.EPOCH)
RECORDED BY:	THOMAS WANG.
WITNESSED BY:	P. LAWRY.

REMARKS:

LOGGING SPEED WAS INCREASED ABOVE 5000 FT BECAUSE ONLY CALIPER LOG WAS REQUESTED FROM 5000 FT TO CASING.

EQUIPMENT NUMBERS-

DIS-EC 1519	DIC-DA 1465	SLS-SC 317	SLC-KB 1959
DRS-B 8701	SRC-CB 1811	SRA-A 1810	SGC-JC 3598
IEM-BD 995	SLM-DA 1709	MRM-AB 2876	MSM-A 2743

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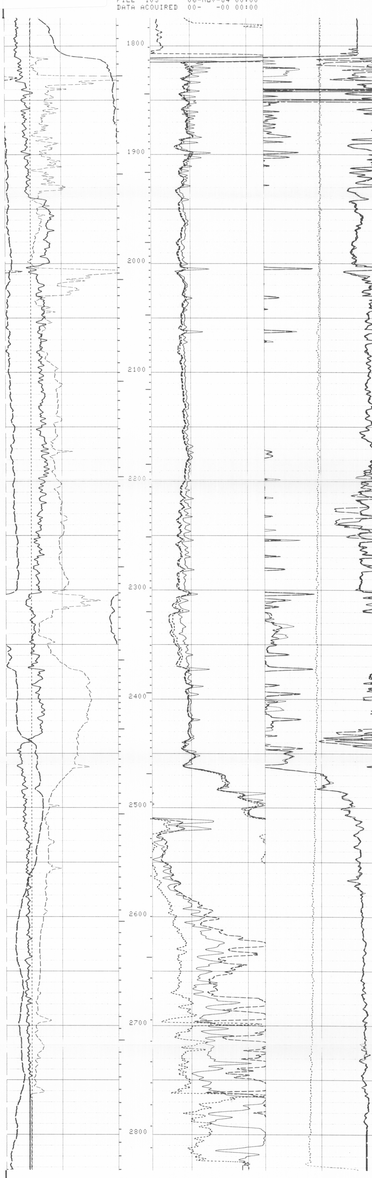
FILE 103 06-NOV-84 00:00
DATA ACQUIRED 00- -00 00:00

SFLU(OHMM) 20.000 2000.0
ILM (OHMM) 20.000 2000.0
ILD (OHMM) 20.000 2000.0
BS (IN) 10.000 20.000
CALI(IN) 10.000 20.000
DTL (US/F) .20000 20.000 140.00 40.000
ILM (OHMM) .20000 20.000 2000.0
TENS(LB) 0.0 0.0
GR (GAPI) 0.0 200.00
SFLU(OHMM) .20000 20.000 140.00
SP (MV) -80.00 20.000
DT (US/F) 40.000

5cm

FILE 103 06-NOV-84 00:00
DATA ACQUIRED 00- -00 00:00



FILE 103 06-NOV-84 00:00
DATA ACQUIRED 00- -00 00:00

SFLU(OHMM) 20.000 2000.0
ILM (OHMM) 20.000 2000.0
ILD (OHMM) 20.000 2000.0
BS (IN) 10.000 20.000
CALI(IN) 10.000 20.000
DTL (US/F) .20000 20.000 140.00 40.000
ILM (OHMM) .20000 20.000 2000.0
TENS(LB) 0.0 0.0
GR (GAPI) 0.0 200.00
SFLU(OHMM) .20000 20.000 140.00
SP (MV) -80.00 20.000
DT (US/F) 40.000

SENSOR MEASURE POINT TO TOOL ZERO

CBL	61.9	FEET		HMFL	61.9	FEET	
TT3	61.9	FEET		TT4	60.9	FEET	
TT1	62.9	FEET		TT2	61.9	FEET	
GR	49.7	FEET		SRAT	66.9	FEET	
ILD	26.8	FEET		CALI	8.9	FEET	
ILM	22.5	FEET		SFL	23.2	FEET	
SPAR	19.3	FEET		SP	19.3	FEET	
CMRP	2.5	FEET		TENS	2.5	FEET	
NDIS	59.6	FEET		II	2.8	FEET	

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
WOV1	WF1		DWZ	16	
BSIM	5	US	DBL	200	US
ITTS	DT		DWCO	512	
CDTS	100.000		CPS	ST	
DTF	189.000	US/F	DTM	56.0000	US/F
IBR	1.0000	OHMM	DIEC	7.9000	MMHO
SPT	STAN		MSEC	10.2000	MMHO
BS	18.8500	IN	BHS	OPEN	
PP	NORM		DO	0.0	F

TAPE NOT MADE

5cm

SCHLUMBERGER Well Services

DIL-MSFL-GR-SP - RUN 2 - 11.000

CSU full log

COMPANY:	ARAMCO DIL & GAS AUSTRALIA		OTHER SERVICES:
WELL:	SUPERCOD DEVIL #2		
FIELD:	WILDCAT		
COUNTY:	WILDCAT		
STATE:	WESTERN AUSTRALIA		
LOCATION:	11°14'		
	1000'	FSL	
LOCATION:	500 FEE EAST OF WELL	FEL	PERMANENT DATUM: GROUND LEVEL
LOCATION:	500 FEE NORTH OF WELL		
ELEVATION:	KB: 0.00m	ELEVATION:	DF: 0.00 m
PERMANENT DATUM:	GROUND LEVEL		GL: 0.00 m
LOG MEASURED FROM:	KB 0.00m ABOVE PERM. DATUM		KB: 0.00 m
DRILL MEASURED FROM:	MSL		DF: 0.00 m
DATE:	20 JUN 1984		GL: 0.00 m
RUN NO:	2		
DEPTH-DRILLER:	9610.00 m		
DEPTH-LOGGER:	9612.00 m		
BOTTOM LOG INTERVAL:	9612.00 m		
TOP LOG INTERVAL:	9512.00 m		
CASING-DRILLER:	250.0 m	BIT: 8	
CASING-LOGGER:	250.0 m	BIT: 8	
BIT SIZE:	8 1/2 in		
TYPE FLUID IN HOLE:	LIGNITE-GEL		
DENSITY:	1.14 g/cm³		
VISCOSITY:	45.0 s		
PH:	9.5		
FLUID LOSS:	7.20 cm³		
SOURCE OF SAMPLE:	FLOWLINE		
RM@ MEASURED TEMP:	0.0000 OHMM AT 0.0 DEGC		
RMF@ MEASURED TEMP:	0.0000 OHMM AT 0.0 DEGC		
RMC@ MEASURED TEMP:	0.0000 OHMM AT 0.0 DEGC		
RM AT BHT:	0.0000 OHMM AT 0.0 DEGC		
MAX REC TEMP:	0.0000 OHMM AT 0.0 DEGC		
TIME CIRC. STOPPED:	20.00 CLOCK		
TIME LOGGER ON BTM.:	20.00 CLOCK		
MAX. REC. TEMP:	Deg.Mm DEGC		
LOGGING UNIT NO.:	10		
LOGGING UNIT LOC.:	CSU (Kingsmill-Kimberley)		
RECORDED BY:	P. LAMAR		
WITNESSED BY:	P. LAMAR		

REMARKS:

SUPERCOD INTERVIEW CALIPERS FROM TD TO 7500m.

EQUIPMENT NUMBERS:

DIS-AC-1013	DIS-DA-1005	DLS-CS-107	DLS-GR-1006
DIS-AM-1013	DIS-DB-1005	DIS-MS-1004	DIS-SP-1006
DIS-AM-1006	DIS-DC-1005	DIS-MS-1005	DIS-SP-1005

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FILE

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 06/04/11
PROGRAM FILE: DIL-MSFL-GR-SP VERSION 24.2 05/04/11

DATE TOOL CHECKS

	BEFORE		AFTER		
	SERIAL	PLATE	SERIAL	PLATE	UNITS
DIS	1013	1.0	1013	1.0	MMHO
DLS	107	1.0	1006	1.0	MMHO
DIS	1005	1.0	1005	1.0	MMHO

CLB SONDE SERIAL NUMBER : 1013
CLB SONDE SONDE CORRECTION : 10.0 MMHO

FILE

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 06/04/11
PROGRAM FILE: DIL-MSFL-GR-SP VERSION 24.2 05/04/11

DATE

ELECTRODES CALIBRATION SUMMARY

| | MEASURED | | |

OR 3566

145161

Schlumberger

DIL-SLS-CAL-GR-SP RUN 2 1:500

CSU Field Log

COMPANY: WEAVER OIL & GAS AUSTRALIA	OTHER SERVICES-
WELL: TASMANIAN DEVIL 81	
FIELD: WILDCAT	
STATE: TASMANIA NATION: AUSTRALIA LOCATION: T/16P	
SEC: TWP: RGE:	
LATITUDE: 040 44 16.24 S LONGITUDE: 146 09 45.00 E	PROGRAM TAPE NO: 24.2 SERVICE ORDER NO: SEA840991
PERMANENT DATUM: M.SEA LEVEL ELEVATIONS- ELEV. OF PERM. DATUM: KB: 21.9 M LOG MEASURED FROM: RKB DF: 21.4 M 21.9 M ABOVE PERM. DATUM GL: -73.80 M DRLG. MEASURED FROM: RKB	
DATE: 1 SEP 1984 RUN NO: 2	
DEPTH-DRILLER: 863.70 M DEPTH-LOGGER: 862.00 M BTM. LOG INTERVAL: 861.00 M TOP LOG INTERVAL: 552.00 M	
CASING-DRILLER: 251 M 552. M CASING-LOGGER: 251 M 552. M CASING: 20. 13 3/8" WEIGHT: 133.0 LB/F 68.00 LB/F BIT SIZE: 17 1/2" 12 1/4" DEPTH: 564. M 864. M	

TYPE FLUID IN HOLE: LIGNITE-DEXTRIL-GEL.
DENSITY: 9.1 LB/G
VISCOSITY: 43.0 S
PH: 10.5
FLUID LOSS: 7.2 C3
SOURCE OF SAMPLE: FLOWLINE
RM: 0.689 OHMM AT 15.5 DEGC
RMF: 0.566 OHMM AT 16.0 DEGC
RMC: 0.951 OHMM AT 15.0 DEGC
SOURCE RMF/RMC: PRESS /PRESS
RM AT BHT: 0.336 OHMM AT 54.5 DEGC
RMF AT BHT: 0.279 OHMM AT 54.5 DEGC
RMC AT BHT: 0.457 OHMM AT 54.5 DEGC

TIME CIRC. STOPPED: 20.30 1SEP.
TIME LOGGER ON BTM.: 23.00 1SEP.

MAX. REC. TEMP: 54.50 DEGC

LOGGING UNIT NO: 33
LOGGING UNIT LOC: SEA (DIAMOND M.EPOCH)
RECORDED BY: THOMAS YANI.
WITNESSED BY: P. LAWRY.

REMARKS:

SUSPECT INTRUSIVE VOLCANIC FROM TD TO 753M.

EQUIPMENT NUMBERS-

DIS-EC 1519	DIC-DA 1465	SLS-SC 317	SLC-KB 1959
DRS-B 2701	SRC-CB 1811	SRA-A 1810	SGC-JC 3598
ICM-BB 995	SLM-BA 1709	MRM-AB 2876	NSM-A 2743

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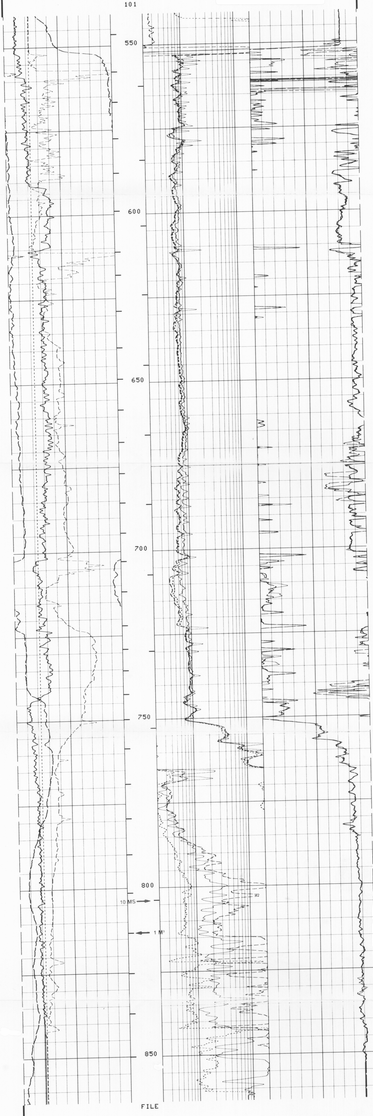
FILE 102

BS (IN) 10.000 20.000	SFLU(OHMM) 20.000 2000.0	
CALI(IN) 10.000 20.000	ILM (OHMM) 20.000 2000.0	
GR (GAPI) 0.0 200.00	ILD (OHMM) 20.000 2000.0	
SP (MV) -80.00 80.000	ILD (OHMM) 0.2000 20.000	DTL (US/F) 140.00 40.000
	ILM (OHMM) 0.2000 20.000	DT (US/F) 140.00 40.000
	SFLU(OHMM) 0.2000 20.000	

FILE 101

5 cm



FILE 101

BS (IN) 10.000 20.000	SFLU(OHMM) 20.000 2000.0	
CALI(IN) 10.000 20.000	ILM (OHMM) 20.000 2000.0	
GR (GAPI) 0.0 200.00	ILD (OHMM) 20.000 2000.0	
SP (MV) -80.00 80.000	ILD (OHMM) 0.2000 20.000	DTL (US/F) 140.00 40.000
	ILM (OHMM) 0.2000 20.000	DT (US/F) 140.00 40.000
	SFLU(OHMM) 0.2000 20.000	

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CBL	11.5	METER	AMPL	11.5	METER
TT3	11.5	METER	TT4	11.2	METER
TT1	11.8	METER	TT2	11.5	METER
GR	23.5	METER	SRAT	13.0	METER
ILD	2.1	METER	CALI	18.0	METER
ILM	1.0	METER	SFL	1.0	METER
SPAR	.0	METER	SP	.0	METER
CMSF	17.9	METER	TENS	.0	METER
NDIS	8.0	METER	II	18.0	METER

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DDEL	280	US	BS	12.2500	IN
DWCD	512		DSIN	5	US
SPS	DT		ITTS	DT	
DTM	56.0000	US/F	CDTS	100.000	
DSEC	7.90000	MMHO	DTF	189.000	US/F
MSEC	18.2000	MMHO	SBM	1.00000	OHMM
FPHI	SPHI		SPT	STAN	
DO	0.0	F	BHS	OPEN	
PP	NORM				

5 cm

02-3568

445165

ENCLOSURE A
Schlumberger

LDL-CNL-GR RUN 1

CSU Field Log

COMPANY:	WEAVER OIL & GAS AUSTRALIA
WELL:	TASMANIAN DEVIL 01
FIELD:	WILDCAT
STATE:	TASMANIA
NATIONALITY:	AUSTRALIA
LOCATION:	Y/16P
SEC:	04
TWP:	04
LONGITUDE:	146 09 [illegible]
LATITUDE:	[illegible]
RGE:	
PERMANENT DATUM:	M.SEA LEVEL
ELEV. OF PERM. DATUM:	0.0 F
LOG MEASURED FROM:	KB 21.0 F
DRILL MEASURED FROM:	KB 21.0 F
	ABOVE PERM. DATUM
ELEVATIONS- KB:	21.0 F
DF:	20.0 F
GL:	-2482.0 F
DATE:	2 SEP 1984
RUN NO:	1
DEPTH-DRILLER:	2803.6 F
DEPTH-LOGGER:	2808.0 F
BTM.LOG INTERVAL:	2803.0 F
TOP LOG INTERVAL:	1811.0 F
CASING-DRILLER:	866.0 F
CASING-LOGGER:	866.0 F
BIT SIZE:	12.25 IN
CASING-DRILLER:	13.3/8 @ 866.0 F
CASING-LOGGER:	13.3/8 @ 866.0 F
BIT SIZE:	8.5 IN
DEPTH:	2804.0 F
OTHER SERVICES-	DIL-SIS-CAL-GR-SP;
PROGRAM	2.0
SERIAL NO.	2.0
DPTH. MEM.	2.0
SEQ49961	

TYPE FLUID IN HOLE:	LIGNITE-DEXTRIL-GEL.
DENSITY:	9.1 LB/G
VISCOSITY:	43.0 S
PH:	10.5
FLUID LOSS:	7.2 C3
SOURCE OF SAMPLE:	FLOWLINE
RM:	.689 OHMM AT 15.5 DEGC
RMF:	.566 OHMM AT 16.0 DEGC
RMC:	.951 OHMM AT 15.0 DEGC
SOURCE RMF/RMC:	PRESS /PRESS
RM AT BHT:	.336 OHMM AT 54.5 DEGC
RMF AT BHT:	.279 OHMM AT 54.5 DEGC
RMC AT BHT:	.457 OHMM AT 54.5 DEGC
TIME CIRC. STOPPED:	20.30 1SEP.
TIME LOGGER ON BTM.:	23.00 1SEP.
MAX. REC. TEMP:	54.5 DEGC
LOGGING UNIT NO:	33
LOGGING UNIT LOC:	SEA (DIAMOND M.EPOCH)
RECORDED BY:	THOMAS YAHI.
WITNESSED BY:	P. LAWRY.

REMARKS:

SUSPECT INTRUSIVE VOLCANIC FROM TD TO 753M.
LOGGING SPEED WAS INCREASED ABOVE 5000 FT BECAUSE ONLY CALIPER LOG WAS REQUESTED FROM 5000 FT TO CASING.

EQUIPMENT NUMBERS-

PGD-G 1719	MSC-D 895	DRS-B 1831	CNC-HA 349
SGC-SA 367	CCC-B 1786	CIM-BA 805	SDM-BA 1724

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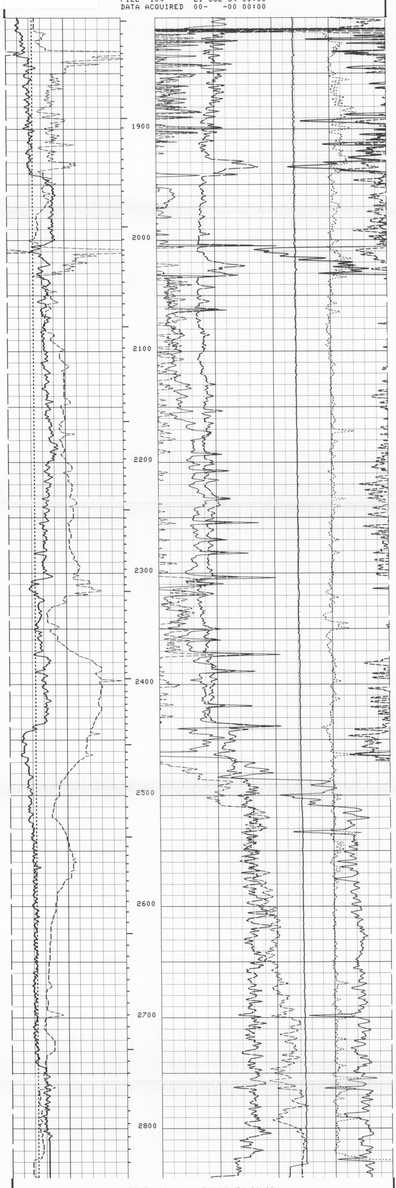
FILE 104 21-JUL-84 00:00
DATA ACQUIRED 00- -00 00:00

		TENS(LB)	
		0.0	4000.0
		DRHO(G/C3)	
		-.2500	.25000
BS (IN)		PEF	
10.000	20.000	0.0	10.000
CALI(IN)		NPHI	
10.000	20.000	.45000	-.1500
GR (GAPI)		RHOB(G/C3)	
0.0	200.00	1.9500	2.9500

5cm

FILE 104 21-JUL-84 00:00
DATA ACQUIRED 00- -00 00:00



FILE 104 21-JUL-84 00:00
DATA ACQUIRED 00- -00 00:00

		TENS(LB)	
		0.0	4000.0
		DRHO(G/C3)	
		-.2500	.25000
BS (IN)		PEF	
10.000	20.000	0.0	10.000
CALI(IN)		NPHI	
10.000	20.000	.45000	-.1500
GR (GAPI)		RHOB(G/C3)	
0.0	200.00	1.9500	2.9500

SENSOR MEASURE POINT TO TOOL ZERO

STSG	27.6	FEET	GR	38.2	FEET
SCNL	23.2	FEET	SCNL	23.2	FEET
SS2	2.0	FEET	FCNL	23.2	FEET
LITH	2.5	FEET	SS1	2.0	FEET
LU	2.5	FEET	LS	2.5	FEET
CALI	2.6	FEET	LL	2.5	FEET
NRAT	23.2	FEET	TENS	-.9	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
SHT	15.0000	DEGC	TD	2828.08	F
HC	CALI		PSNR	2.35500	
FD	1.0000	G/C3	MATR	LIME	
WMUD	8.00000	LB/G	MDEN	2.71000	G/C3
DHC	CALI		LPCS	THIN	
BS	12.2500	IN	BHS	OPEN	
PP	NORM		DO	0.0	F

TAPE NOT MADE

5cm