## VICTORIA PETROLEUM N L / KNIGHT INDUSTRIES PTY LTD

### **KELLY-1**

### WELL COMPLETION REPORT

### PEP 161 VICTORIA

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On Behalf of Knight Industries Pty Ltd 677 Lynne Street ALBURY NSW February 2002

### **TABLE OF CONTENTS**

			Page No.
1.0	SUM	IMARY	1
2.0	WE]	LL HISTORY	2
	2.1	Well Name and Number Location Elevations Petroleum Tenement Name of Operator Other Participants Date Drilling Commenced Date Drilling Completed Date Rig Released Drilling Time to TD Total Depth Status	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	2.2.	Rig Data	3
	2.3	Drilling Data	8
	2.4	Logging and Testing	8
3.0	GEO	OLOGY	9
	3.1	Reasons for Drilling	9
	3.2	Geologic Setting	9
	3.3	Stratigraphic Prognosis	9
	3.4	Well Stratigraphy	11
	3.5	Hydrocarbon Indications	13
4.0	DIS	CUSSION AND CONCLUSIONS	14
5.0	CO	MPLETION	15

### **TABLE OF ATTACHMENTS**

### LIST OF FIGURES

Figure 1 Figure 2

Locality Map for Kelly-1 Drilling Time/Depth Curve

### LIST OF TABLES

Table 1

Kelly-1 Geological Section

#### LIST OF APPENDICES

Appendix 1

Appendix 2

Appendix 3

Appendix 3

Appendix 4

Appendix 5

Appendix 5

Appendix 6

Appendix 7

Daily Drilling Reports

Bit Record/Deviation Surveys

P & A Programme

Cuttings and Core Descriptions

Core Analysis/Petrology

Gas Analysis

KDLS Technology Summary

### LIST OF ENCLOSURES (Pocket)

Enclosure 1

Kelly-1 Composite Well Log

### 1.0 SUMMARY

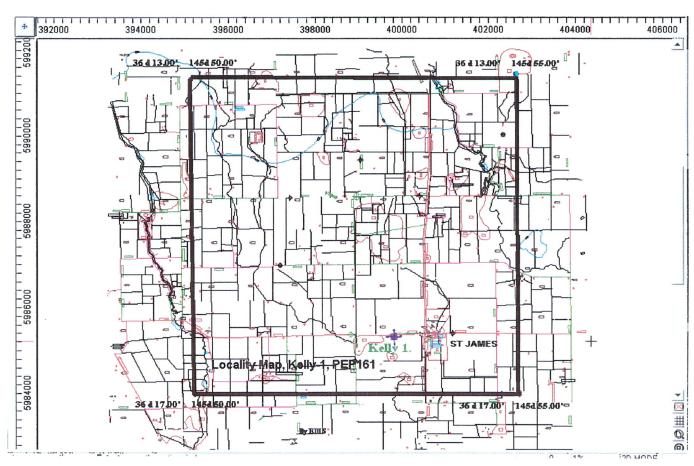
Kelly-1 was drilled near St.James in PEP 161 in the Tasman Fold Belt of northern Victoria, approximately 26 kilometres north-west of Benalla. No previous hydrocarbon exploration wells have been drilled in the region. The closest drilled holes were shallow water wells drilled in the vicinity.

The well was drilled as a stratigraphic hole to evaluate the hydrocarbon potential of a hydrocarbon anomaly identified using KDLS remote sensing technology (Appendix 7) invented by Mr. Lindsay Knight, managing director of Knight Industries Pty Ltd, the operator and title holder of PEP 161. A number of hydrocarbon targets were detected in the pre-drill sequence and the depth to basement was estimated.

Kelly-1 spudded on 3rd October 2001 and surface hole (6-1/8") was drilled to 214 m. After casing was set at the top of siliceous shale immediately beneath unconsolidated granitic alluvium at 214 m, the well was then drilled continuous core (PQ hole) to a total depth of 862 m, which was reached on 3rd November 2001. Cuttings samples were taken from surface to 214 m, and then two hundred solid cores with an average 95%-100% recovery were cut from two hundred cores. Wireline logs were run at total depth. The well was then plugged and abandoned and the rig released on 5th November 2001.



KELLY-1 VIEW OF RIG FROM ST JAMES ROAD



KELLY-1 PEP 161 LOCALITY MAP

FIGURE 1

### 2.0 WELL HISTORY

#### 2.1 General Data

Well Name and Number KELLY - 1

Location Latitude: 36° 16.36" S

Longitude: 145° 53.08" E

AMG co-ords: 55H 3998235 5985217

Map ref: Wangaratta SJ 5502 –St James area

Elevations G.L.: 135.5 m. A.S.L.

K.B.: 137 m. A.S.L.

Petroleum Tenement PEP 161, Victoria

Permit Holder Knight Industries Pty Ltd

Name of Operator Victoria Petroleum NL / Knight

Industries P / L.

Other Participants APS Oil Pty Ltd 73%

Knight Industries Pty Ltd
Victoria Petroleum NL
Sarmad Industries Pty Ltd
Septet Pty Ltd
1%

Date Drilling Commenced 7 October, 2001

Date Drilling Completed 3 November, 2001

Date Rig Released 5 November, 2001

Drilling Time to T.D. 21 days

Total Depth Driller: 862.0 m.

Logger: 862.0 m. (extrapolated)

Status Plugged and abandoned.

PLEASE NOTE

TOORDS ARE

36° 16' 21-61'

165° 53' 04.84"

399823.5

5985217 EDDIE

\_\_\_\_\_

### 2.2 Rig Data

### 2.2.1 Rig type

Type:

UDR 3000 All hydraulic top head drive.

Design Specification:

AS 1250 (SAA Steel Structures Code).

Drill Mast:

Length: 17.6m.

Rod Pull Capacity:

12.00m.

Drill Rod Stacking Capacity:

5000m NQ.

Wind Loading Factor on Mast:

Designed for service wind (when drilling stops) of 20 m./sec.Designed to stand with rods stacked in mast for wind of up to 41 m./sec. (147 kph).

Cyclonic winds:

either have rod string in hole or drop mast.

Diesel Motor:

Detroit Diesel Series 60 6 cly. Turbo 400 hp @

1800 rpm.

Main Hoist:

Mast top mounted. Single line pull 275 Kn

maximum pull, 137 m. maximum speed. Fitted with cable – travel limiter device.

Has provision for double - line pull to increase

capacity.

Wireline Hoist:

Capacity: 2700m of 9 mm cable.

18.8 Kn full drum pull @ 395m / minute.

Rotation Head:

Top drive direct coupled.

Two speed manual gear change.

68mm hollow spindle with 60 mm float.

Air to oil type oil cooler. 5 - 1600 rpm speed

range.

Output torque: 10000 Nm @ 5 - 130 rpm.

### 1278 Nm @ 1000 rpm.

### 909397 008

Hydraulics:

Fully automatic torque / speed control.

Rexroth axial and radial piston pumps and motors used in three independent open circuits (Rotation – Water Cylinders) also 5 auxiliary circuits to power

pumps and support equipment

2.2.2 UDR 3000 Drill

Head Traverse:

Hydraulic cylinder over ropes-

Hydraulic head rack back. 7.32 m traverse.

Pull Down Capacity:

100 Kn (22,500 Ib/f).

Pull Out Capacity:

245 Kn (55,000 lb/f).

Pipe Clamps:

44.5mm -177.8mm rod clamp jaws hydraulically

operated.

Rod Break Out:

UDR pre-torque make-up break out

tool, hydraulically operated including Chuck-jaws

and slips for 4.5" Pipe down to BQ size.

Swivel:

Longyear 40K. Drillstar Series 60.

Water Pumps:

Two FMC L -1122 HV hydraulically operated

triplex pumps rated to max 70 gpm. Max. psi 2000.

Sub Structure:

Rig mounted on tri-axle low-boy trailer with four

hydraulic self-level rig jacks.

Overall Dimensions: 17.6m long x 3.1 m wide x 4.4m height (mast folded). Gross weight 42 tonnes.

Data Recording Equipment:

On board computer data acquisition system with

digital Read-out for following functions:

Penetration rate, Pump S.P.M. Pipe R.P.M.

Pull Down,

Hold-back Wireline cable travel, Pipe Torque

Wireline hook-load.

Safety Features

Safe "T "Spin pipe spinner

Safety Cage and rod whip guards

Fire Suppression Unit

Emergency Engine Stops (3).

Geronimo personnel escape device

M.A.N. 8 x 8 Prime - Mover

Mercedes-Benz 6 x 4 Tray top truck.

Hino 4 x 4 Tray-Top Utility Truck fitted with Hiab

crane.

### 2.2.3 Support Equipment

Rig Power Supply 1 x Lister TS-3 diesel / 12Kva Stanford 240v

Alternator skid-base mounted.

1 x 3 cly. Lister SDMO Silenced-13Kva 240v

Alternator generator.

1 x Lister TS-1 diesel / 7 Kva 240v back-up

generator skid-base mounted.

Lighting: 4 x 1500 watt Metal Halide flood lights, all

independently mounted.

6 x 36 watt + 1 x 18 watt Portable Burn Brite 240v

Class 1 Zone 1 type fitted to rig.

Welder: Lincoln 240 amp diesel powered portable welder.

1 x Electric Tradesman portable welder

1 x Oxy / Acetylene gas welding / cutting set.

### 2.2.4 Well Control Equipment

Blow Out Preventor Stack: 7 1/16 3000 psi Regan Torus Annular Preventor.

71/16 3000 psi Duke'Double rams.

3000 psi WP Mud-Cross.

Cameron Wellhead type "F" 71/16 3000psi.

2 1/16 x 3000 psi HCR Valve.7 1/16 x 3000 psi Tubing Spool7 1/16 x 3000 psi Wellhead.

Accumulator: A.D. Oilfield Specialties 3 station 30 gal.

Closing unit.

Kill Manifold: 3" x 3000 psi with 3" Ball Valves.

Choke Manifold: Oteco 7 x Valve unit.

Adjustable choke 5000 psi.

M.A.N. 8 x 8 Prime -Mover

Mercedes-Benz 6 x 4 Tray top truck.

Hino 4 x 4 Tray-Top Utility Truck fitted with Hiab

crane.

### 2.2.3 Support Equipment

Rig Power Supply

1 x Lister TS-3 diesel / 12Kva Stanford 240v

Alternator skid-base mounted.

1 x 3 cly. Lister SDMO Silenced-13Kva 240v

Alternator generator.

1 x Lister TS-1 diesel / 7 Kva 240v back-up

generator skid-base mounted.

Lighting:

4 x 1500 watt Metal Halide flood lights, all

independently mounted.

6 x 36 watt + 1 x 18 watt Portable Burn Brite 240v

Class 1 Zone 1 type fitted to rig.

Welder:

Lincoln 240 amp diesel powered portable welder.

1 x Electric Tradesman portable welder

1 x Oxy / Acetylene gas welding / cutting set.

### 2.2.4 Well Control Equipment

Blow Out Preventor Stack:

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2 1/16 x 3000 psi HCR Valve.
7 1/16 x 3000 psi Tubing Spool
7 1/16 x 3000 psi Wellhead.

Accumulator:

A.D. Oilfield Specialties 3 station 30 gal.

Closing unit.

Kill Manifold:

3" x 3000 psi with 3" Ball Valves.

Choke Manifold:

Oteco 7 x Valve unit.

Adjustable choke 5000 psi.

Fixed choke 5000 psi.

Cameron 3000 psi NPT pressure gauge.

Degasser:

Poor-Boy gas buster.

Kelly Valve Upper:

Hydrill-10,000 psi WP unit.

Kelly Valve Lower:

T.I.W; 10,000 psi WP.

Drill pipe Safety Valve:

Packard 5000 psi WP unit.

Wireline Oil Saver:

Guiberson Type H3000 psi WP hydraulic unit

with remote pump

Guiberson Type C releasing attachment. Guiberson Type G Wireline B O P.

2.2.5 Mud System

Mud circulation pump:

G. D. 5 X 8 Duplex Pump (or equivalent, subject

To availability Back -up via FMC Pumps on rig)

Diamond coring pumps:

2 x FMC L1122 Triplex units on rig.

Mud Tanks:

1 x 2000 litre trip tank.

2 x 2500 litre mixing tanks.

Kill Pump

FMC M-10812 AB Powered by Lister TX3

Diesel Motor

Max. discharge pressure 2520 p.s.i.

Mixing Pumps:

2 x 2" Centrifugal hydraulically powered units.

Transfer Pumps:

1 x 3" Trash Pump diesel powered.

1 x 2" Trash Pump Hyd. Powered.

Solids Control System:

1 x 5" cone desander.

Cementing Pump:

Mission plunger pump.

Cellar Pump:

Submersible trash pump hyd. Powered + back-up

unit.

2.2.6 Water Supply Equipment

Air Compressor:

CE model EM 90

800 metres x 40 mm polypipe and couplings.

2.2.7 Down Hole Equipment

Rotary Drill Pipe:

4.5" API spec. Rotary drill pipe.

6.125" Spiral stabilizers.5.5" HD Drill Collars.

Casing:

7" VAM – L 80 pipe.

90 x 3 metres PW Casing

Diamond Drill Pipe:

360 x 3 metres HWT drill rods.

360 x 3 metres HMQ drill rods. 450 x 3 metres NRQ drill rods.

Core Barrel Assemblies:

3.00m + 6m PQ core barrels, 3 m + 9m HQ core

barrels.

7", 5.5" and 4.5" PF casing float shoes. 7", 5" and PF Displacement plugs.

7", 5" and PF Van Ruth type plugs.

Pipe Handling Equipment:

40kg hoist plug + adapter subs for each size of drill

pipe.

Type T safety Clamp for 3.5 - 4.5" pipe. Type C Safety Clamp for 7 - 105/8" pipe.

5.5" + 4.5" hook and clamshells.

**Drill Bits:** 

8.25", 6.25", 6.125", 6", 5.5, 5.25", 4.875" Tricone

bits PQWL, PQ-3, HQ, HQ-3, Coring bits.

Pipe Recovery Equipment:

PW, PQ, HMQ, Internal fishing taps. PW,

HMQ Itco + Metzke Engineering internal grapple-

type spears.

PW, PQ,

PQ,

Casing cutters.

Down-Hole Survey Equipment:

Eastman Single-Shot camera unit with  $0 - 90^{\circ}$  and

 $0 - 10^{\circ}$  Angle units.

Sperry-Sun Pluto bore hole navigation computer

software.

2.2.8 Communications

Optus Mobile-Satellite Telephone and Fax unit.

Telstra Mobile Phone

Codan SSB 2 way radio fitted with R.F.D.S.

Frequencies.

### 2.3 Drilling Data

### 2.3.1 Daily Drilling Reports

The daily operations summary for Kelly-1 are given in the Daily Drilling Reports in Appendix 1. Onsite drilling supervision for Knight Industries was provided by I. Johnstone, Drillassist Pty Ltd.. Further details are given in the time/depth curve (Fig. 2) and deviation surveys and bit records (Appendix 2).

2.3.2 Water Supply:

Water was obtained from the town water supply

from St. James township.

2.3.3 Plugging and Cementing:

Refer to Appendix 3:

Plug 1

590 - 622 m 193 - 223 m

Plug 2 Plug 3

Surface - 30m

### 2.4 Logging and Testing

2.4.1 Wellsite Geologists:

R L Williams (Surface to 230 m); I B Campbell

(230 m to T.D.)

2.4.2 Mudlogging:

Mudlogging services were provided by D. Sisley.

Cuttings gas was monitored from surface casing shoe to total depth using a hot-wire gas detector

and a gas chromatograph.

2.4.3 Ditch Cutting Samples:

Cuttings were collected at 10 m. intervals from

surface to 214 m.

2.4.4 Coring:

Continuous coring from 214 m to 862 m Recovery

95%-100%

2.4.5 Wireline Logs:

The suite of logs run at T.D. by Geoscience

Wireline were:

Log Suite

Depth

Gamma / Neutron / Neutron

TD to surface

Gamma / Density / Res / Cal

TD to surface

Sonic

TD to surface

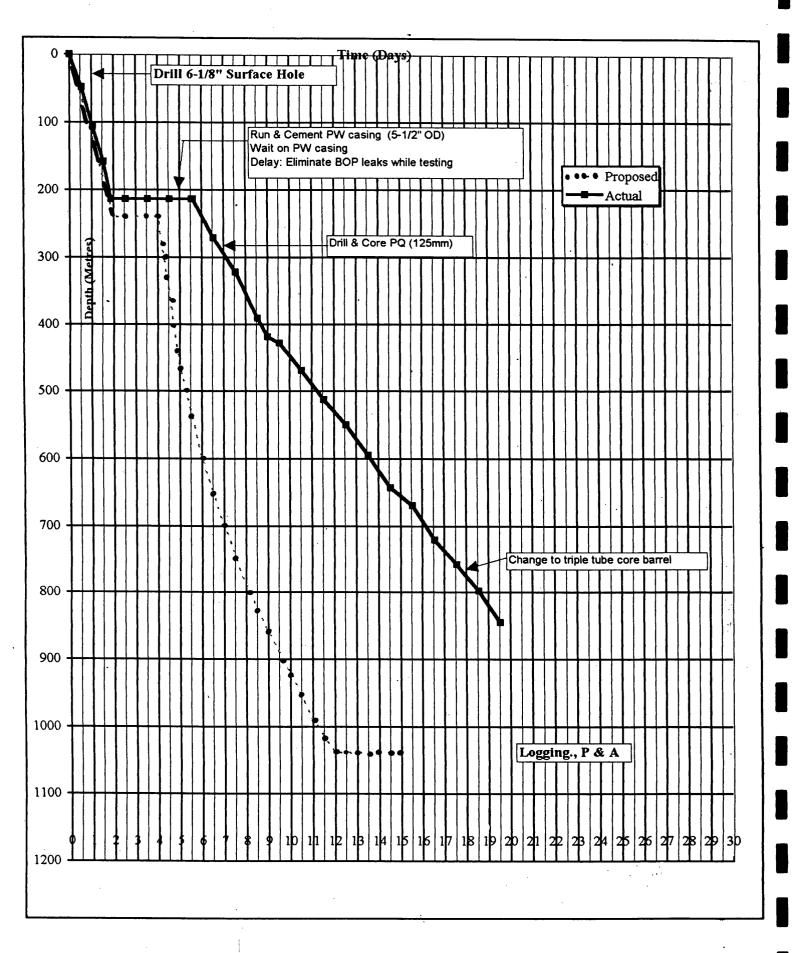


FIGURE 2
Drilling time/depth curve

### 3.0 GEOLOGY

### 3.1 Reasons for Drilling

Kelly-1 was drilled to test a strong hydrocarbon anomaly identified by KDLS remote sensing technology. It was thought that such hydrocarbons could be derived from Permian coal measures that are often found to occur in neighbouring graben structures (e.g. Numurkah Trough, Ovens Graben). Methane gas has been encountered in the Permian Ovens Graben to the north-east.

No hydrocarbons had been previously recorded in any rocks of the St. James region.

Previous wells in the area are shallow water bores drilled to about 120 metres and most encountered shallow Palaeozoic sediments (VIMP Report No 3, 1995).

### 3.2 Geological Setting

Kelly-1 is located east of the Governor Fault, a major thrust line separating the Melbourne and Tabberabberan structural zones within the Tasman Fold Belt.

Mapping by the Department of Natural Resources and Environment (DNRE) has shown that the well location is in a gravity low and is surrounded by Devonian granites (refer to Geological Survey of Victoria Special Publication, 2000). The general structural style of the Tasman Fold Belt in this area is believed to comprise a northerly trending belt of open folds deformed during the Early Silurian Benambran Orogeny and probably overprinted by the Middle Devonian Tabberabberan Orogeny.

### 3.3 Stratigraphic Prognosis

The stratigraphic prognosis for Kelly-1 was made utilising KDLS technology with KDLS MK 29"C" equipment.

Based on post-drilling evaluation, variations occurred in the actual

stratigraphy. The anticipated sandstone bodies of silica sands derived from adjacent granites were found to be converted to hornfels by contact metamorphic processes. Although the mudstones and shales were commonly carbonaceous, organic-rich coal measures were not encountered. The effects of metamorphism on the bulk of the sediments was to preclude the existence of any stratigraphic traps based on lithologic facies changes as originally conceived. Evidence of nearby oil seeps was obtained from local residents during the drilling period and should be followed up.

KDLS MK 29"C" equipment read the pre-drilling lithology at the site as an amplified silica content of the section (now known to be largely siliceous mudstone/siltstone) which wrongly indicated the presence of sandstone reservoirs. This led to the interpretation that there were large bodies of sand in the column. There were no sand bodies and the anticipated intergranular porosity was not found. The detected gaseous hydrocarbons were trapped as the result of fracture porosity in the compacted rocks that dominate the section.

KDLS MK29"C" also amplified the true hydrocarbon response. This was due to a harmonic signal from the calcium carbonate content in the fractures, which caused the hydrocarbon readings to amplify.

The KDLS equipment was upgraded to Mark 29"D" post-drilling and calibrated with the cores and lithology (ground truth) to prevent similar misinterpretation in the future.

Hydrocarbons were predicted and found in numerous fractures throughout Kelly-1 section and detected by KDLS equipment during drilling.

### Table 1

# KELLY-1 GEOLOGICAL SECTION

0.86 m	Plio Pleistocene	Shepparton Formation
	unconformity	
86-855.4 m	Lower Silurian	Cobbannah Group
	unconformity	
855.4-862 m	?Middle Devonian	Unnamed Granite

### 3.4 Well Stratigraphy

The stratigraphic section encountered in Kelly is summarised below:

### SHEPPARTON FORMATION (Plio-Pleistocene)

Surface

0-86 m

ALLUVIAL DEPOSITS: granite-derived unconsolidated alluvial sediments consisting of loose particles of clear to translucent white, fine to medium—grained <u>quartz sand</u> with minor very pale grey, sub-angular to sub-rounded, moderately sorted grains, and occasional reddish-brown and yellowish <u>mica flakes</u> and minor reddish-brown, fine, soft <u>clay matrix</u>.

Thickness: 86 metres

Good porosity.

Unconformity

### **COBBANNAH GROUP (Early Silurian)**

86 - 855.4 m

Thickness: 769.4 metres

ARGILLITES and ARENITES: unfossiliferous marine turbidite beds showing evidence of Bouma sequences (basal unlaminated more coarsegrained intervals followed by planar and cross-laminated intervals) (See Appendix 5).

86 - 220/234 m

<u>Shale:</u> medium grey to black, unfossiliferous, platy, siliceous, fissile gritty, very hard, abundant crusts of pyrite on laminae, carbonaceous.

Transitional boundary

220/234--805 m

Mudstone and siltstone: predominate interbedded siliceous dark gray and pale grey, respectively; distinguished by repeated depositional episodes containing a) fine, alternating, regular, laminated bedding and grading to b) a mixed facies consisting mainly of irregular bedding with chaotic slump features and bioturbation.

<u>Sandstone</u>: subordinate, pale grey, very fine to fine quartzose, generally occurs as thin interbeds through the section.

From ~ 650 m, moderate metamorphic overprinting of the interval increases gradually downwards towards a metamorphic aureole. There is common fracturing throughout, with secondary quartz and calcite; metallic mineralisation is also common..

Transitional boundary

~805- 855.4 m

<u>Hornfels</u>: (cordierite biotite hornfels) medium grey to black, hard, crystalline, gradually

becoming harder towards the base with quartz veinlets intruded into the base of the unit.

Unconformity

### UNNAMED GRANITE UNIT (Probably Middle to Late Devonian

855.4-862.0 metres (unknown total thickness) Thickness > 6.5 metres

855.4-862.0 m

GRANITE; greenish grey at contact with the overlying hornfels unit, grading to light grey with depth. The rock is coarse grained and freshly crystalline, consisting of feldspar, biotite and muscovite and green chloritic alteration below the overlying contact with the aureole (see Photo). There is a very clean contact with the overlying hornfels, indicating: 1) a cool intrusion process, 2) that there was no erosion hiatus following the granitic intrusion at this location and 3) that the sediments of the Cobbannah Group were folded prior to the granitic intrusion probably in the Middle to Late Devonian.

### 3.5 Hydrocarbon Indications

Although visual porosity and permeability of the sequence was generally low, hydrocarbon shows were observed during drilling in fractured mudstone and siltstone These hydrocarbons were recorded from fractured mudstone at 612.5 m (38 units of gas) and at 792 m (70 units of gas). Wireline logs and headspace gas analysis confirmed that hydrocarbons (C1 to C6) as well as carbon dioxide were present in this sequence.

### 3.5.1 Mud gas readings

The mud gas equipment was operational from surface to T.D. Mud gas readings were encountered in the Cobbannah Group at 612.5 m where 38 units of gas was recorded and at 792.2 m where 70 units were recorded.

### 3.5.2 Sample Fluorescence

Samples were monitored for fluorescence throughout the well. Bluish fluorescence with very weak cut was encountered at 612.5 m in the Cobbannah Group in fractured mudstone with strong petroliferous odour. No fluor/cut were observed around the lower gas kick at 792m.

### 3.5.3 Wireline Logs

The wireline logs and headspace gas analysis confirmed the presence of hydrocarbons in the well. The areas of hydrocarbon interest interpreted from cross-overs on the two neutron logs indicate possible "gas effect" at the following intervals: 440-442 m, 443-445 m, 446-447 m, 745-755 m, 806-815.5 m as well as other minor intervals.

### 4.0 DISCUSSION AND CONCLUSIONS

Kelly-1 intersected a sequence of Early Silurian sedimentary and metamorphic rocks of the Tasman Fold Belt.

Kelly-1 achieved its objective of confirming the presence of hydrocarbons in the Tasman Fold Belt, an untested Palaeozoic basement area previously considered to have poor petroleum prospectivity. No Permian sediments were encountered and the closest Permian infra-basin occurs some 25 km to the northwest in the Numurkah Trough. Evidence of oil seeps in the vicinity of Kelly-1 was obtained from local residents during the drilling period and should be followed up.

Prior to drilling, as there was no control section from which to calibrate the KDLS instruments, sandstone units were predicted at this location based on KDLS calibrations used in other petroleum basins. After drilling, when the KDLS data could be calibrated to the well data, it was found that the KDLS sandstone response was amplified by: (i) the very high silica content of the section, whether it was from cherty, siliceous or quartizitic fractions and (ii) the presence of carbonate cement. Nevertheless, the KDLS response to

hydrocarbons was verified by a drilled section containing hydrocarbons at a number of intervals in fractured sediments. This appears to be confirmed by core data and wireline logs, where calculated and observed porosities are low and lack permeability. In places, the core was extremely fractured and this would presumably account for migration pathways for hydrocarbons in this region.

The Cobbannah Group is dominated by carbonaceous argillites that have potential source rocks, and the whole sequence has non-uniform fracturing that allows both seal and reservoir prospects to co-exist. The migration of hydrocarbons within the unit would appear to be restricted and localised. Maturation could have been assisted by the low thermal gradient arising from the small-scale contact metamporphic effects of the intruded granite pluton. The degree to which potential trapping could be the outcome of either stratigraphic or structural processes is not clear due to the paucity of detailed data at this location.

### 5.0 COMPLETION

The well was plugged and abandoned and the rig released on 5th November 2001.

Refer to Plug and Abandon Schematic in Appendix 3.

APPENDIX 1

DAILY DRILLING REPORTS

Prospect		WELL NAME	AFE NO	REPORT N	O DA	YS FROM S	PUD	DAYS VS. I	LAN		DATE	
ST JAMES SECTION PE	P161	KELLY1	AFE-001	1	1		***				BER 8,2001	
	PRES	ENT OPERATION			DEPTI	н	AFE	TD	PROG		PLUG BACK	
	Mi	xing mud.			48	MT.	1,039	MT.	48.0	MT.	T COO BAOK	
LAST CASING	LAST CASING FIT (ppg) CONTRACTOR - RIG				CUMM C	OST	AFE AMOUNT				RVISOR(S)	
7.0" 11.2		Drillcorp UDR 3000 rig	A\$	A\$			A\$ .5	55.000		hnstone		

	PARAMETERS

BIT	SIZE	MFR	TYPE k.	DEPTH	Metres	HOURS	AV ROP	N	OZZLE(	S)	RPM	CPF		TE	TH		REM	ARKS	
NO.		SER NO	IADC	IN			(m/hr)				WOB	(\$US)	1	0	В	В	G	0	R
1	6-1/8"	HTC	GT-1	11.20	36.8	8.5	4.3	Open			60								<u> </u>
						L					5000					$\vdash$			_
												ĺ		١.	l				l '

MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT	RHEOLOGY					WATER LOSS MUD CHECK							MUD	MUC			D COST		
(PPg)	VIS	PV	YP	GELS		API	CAKE	нт	HP 1	пме	DEPTH	SOURCE	FL DEG F	TYPE		DAILY			CUMM \$
8.4		40		L							36.0	PITS		spud	A\$		<u> </u>	A\$	
			VC	DLUME ANALYS	IS %						DI	SSOLVED IONS						MBT	
OIL	EX L	IME	OIL	WATER	LGS	HGS	SA SA	ND	Ca++	CI-	ES	SALT WT%	NO3-	503-	рН	PM	Pf	Mf	(ppb)
L						1	L										·	1	(PP-7)

#### **HYDRAULICS**

ВІТ		SI	M		LINER	FLOW	PRESS		A VEL			C VEL		JET VEL	LOSSES	AT BIT	IMPACT	HSI			
NO	1	2	3	4		(gpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE	noi ,	40	80	100
1	40		L		7-1/4" X 10	526	50								(6-1)	(,,,	TORGE		70	- 00	100
																			<del> </del>		

**DRILLING INFORMATION** 

	STRING WEIGHT (K)		TORQU	E			GAS (units)			ROP's (ft/hr)			
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG	
Formation	ı - Cuttings												

		Date 20	01 OPERATIONS SEQUENCE
TIME	то	HRS	
17.30	20.30	3.00	Drilled 6-1/8" surface hole from bottom of conductor @ 11.2m. To 24.0m.
20.30	23.30	3.00	Repairs to rig pumps
23.30	04.30	5.00	Drilled 6-1/8" surface hole from 24.0m. To 36.0m. (Lost 50% returns @ 36m.
04.30	06.00	1.50	Wait on water & mix mud (pits empty)
06.00	06.30	0.50	Drill to 48m. @ 0630 hrs 8/10/01
		13.0	

DESCRIP	TION	OD (in)	ID (in)	LENGTH (m)
BIT #1 HTC GT1		6.125		0.18
x/over				0.18
Stabiliser				1.00
X/over				0.16
2 x 5" drill collars				11.90
X/over				0.15
Stabiliser				1.00
ВНА	HRS.	TOTAL L	ENGTH	14.57
Jars	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
		742	145	1 7 320	DLG
				1	
i				i	

#### PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		<u> </u>
GEOLOG AUST			
GEOLOG USA	1		<u> </u>
WELL ENGINEER	1		
<del></del>			
		<del></del>	
	-	<del></del>	ļ
			<u> </u>
	1	TOTAL ON LOC.	10

LAST DRILLS

PIT LEVEL

BOP TEST

HYD SULF

FIRE

SAFETY

BOP DRILL

WEAT	THER .	
VISIBILITY	CLEAR	
RAIN	N/A N	9
TEMP - 6 AM		
TEMP - NOON		
WIND		Ĩ
		Ì

FUEL (LITRES) W	ATER
CAMP WATER REC.	
DIESEL RIG	3,000
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

CIZE	170	0.00	1
SIZE	JTS	SIZE	JTS
			1
	<del>                                     </del>		+
			<u> </u>
	<del>†                                    </del>		<del> </del>

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
7"	1	11.2	23	K-55	STC	3	11.2	n/a	
REMARKS:							TOP OF CEMENT		SURFACE
L							PLUG BUMPED TO		

DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner ompensation			Intermediate Casing			Contract Labour Power tongs	10day 3	COM
Well Report			Core Trays					
Work over prep-cost			Liner (4.50") \$12.53/ft			Directional Drilling	†	
Site Construction			Casing Preparation			Rig Supervisor		
Conductor			Casing Services At Rig			Open Hole Logging		
Site Maintenance (SUMP WORK)			2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation			Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment	<del> </del>	
Water Hauling			Down Hole Completion Eqpt			Rental Equipment	1	
Waste Disposal ZALCO LABS			Wellhead			Lost and Damaged Equipment	1	
Transport			Wellhead - Completion			Camp	† †	<del></del> -
Cranes			Surface Cement and Additives			Timewriting		
Rig Day Rate			Intermed. Cement & Additives			Pacific Inspection		
Rig Move Rate			Surface Cement and Additives			Communications	1	
Mud			Floating equip.			Stabalizers		
Completion Fluids			Trucking liquid mud			Baker Hughes: Fishing	†       †	
Bits -BIT # 1			Geologists			- Willing	<del>                                     </del>	
Fuel GAL @ \$.			Mud Logging					
Surface Casing			Mud Engineer			DRILL WATER	† <del>-</del>	

Total

		REMARKS			
General Comments:		Contractor F	Representative: K	EVIN DAVIS	· · · · · · · · · · · · · · · · · · ·
		T	<del></del>		
				* ***	
WELL NAME	KELLY1	DATE	OCTOBER 8,2001	REPORT NO	1

Prospect		WELL NAME	WELL NAME AFE NO				DAYS FRO	M SPUE		DAYS VS.	PLAN		DATE
ST JAMES SECTION PE	P161	KELLY1	Y1 AFE-001					1				осто	BER 9,2001
	PRESE	ENT OPERATION				DE	PTH		AFE T	D	PROGR	ESS	PLUG BACK
Drilling 6-1/8" surface hole.						158	МП	Г.	1,039	MT.	110.0	MT.	
LAST CASING	FIT (ppg)	CONTRACTOR - RIG		DAILY COST		CUMI	M COST		AFE AMO	UNT		RIG SUPE	RVISOR(S)
7.0" 11.2	7.0" 11.2 Drillcorp UDR 3000 rig A\$ 8			847	A\$		1,664 A\$ 555		5.000		lan Johnstone		

#### DRILLING BITS, PARAMETERS

віт	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(	S)	RPM	CPF			EETH			REM	ARKS	
NO.		SER NO	IADC	IN			(m/hr)			woв	(\$US)	П	0	D	L	В	G	٥	R
1	6-1/8"	HTC	GT-1	11.2	146.8	16.8	8.8	Open		65		4	4			ok	1/16		Υ
										12000									
2	6-1/8"	Reed	EHP51H	122.0	36.0	6.0	6.0	Open		60		П							
										18000									

#### MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT	·		RHEOL	OGY	. ]	WATE	ER LOSS MUD CHECK						MUD	MUD COST							
(ppg)	VIS	PV	ΥP	GELS	API	CA	KE	нтнр	HP TIME DEPTH SOURCE FL DEG F					DAILY \$			CUMM \$				
9.1	41									156.0	PITS		spud	A\$	84	47	A\$	1,664			
			vo	LUME ANALYSIS	%								ALKA	ALKALINITY ME		MBT					
OIL	EXL	IME	OIL	WATER	LGS	HGS	SAND	Ca++	с	l- E	S SALT WT	% NO3-	SO3-	рН	PM	Pf	Mf	(ppb)			
									1	İ			1								

#### **HYDRAULICS**

ВІТ		SI	M		LINER	FLOW	PRESS		A VEL			C VEL		JET VEL	LOSSES	AT BIT	IMPACT	HSI		PR DA	TA
NO	1	2	3	4		(gpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		40	80	100
2	?				2-3/4" x 3"	+/-100	0							0			0				

#### DRILLING INFORMATION

	STRING WEIGHT (Ib)		TORQUE GAS (units)								ROP's (ft/hr)				
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG			
13,170	13,100														
Formatio	n - Cuttings	Hard black sand	ty shale.												

#### Date 2001

### **OPERATIONS SEQUENCE**

TIME	то	HRS	
0630	1200	5.50	Wait on water & mix mud progressively
1200	0230	2.50	Drilled 6-1/8" surface hole from 48.0m. to 80.0m
0230	0245	0.25	Survey @ 80.0 m.
0245	2030	5.75	Drilled 6-1/8" surface hole from 80.0m. to 122.0m
2030	2100	0.50	Survey @ 122.0 m.
2100	2330	2.50	Repair Pump #1 (Buckets & valves)
2330	0030	1.00	Trip out, change bit, and ran back in hole
0030	0630	6.00	Drilled from 122m. To 158m
<u> </u>			
L		24.0	

DESCRIPT	ION	OD (in)	ID (in)	LENGTH (m)
BIT #1 HTC GT1		6.125		0.18
x/over				0.18
Stabiliser				1.00
X/over				0.16
2 x 5" drill collars				11.90
X/over				0.15
Stabiliser				1.00
ВНА	HRS.	TOTAL	ENGTH	14.57
Jars	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
80	0.50	n/a			
122	0.50	n/a			
				1	

### PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST			
GEOLOG USA	1		
WELL ENGINEER	1		1
		TOTAL ON LOC.	10

LAST DRILLS						
PIT LEVEL						
BOP TEST						
HYD SULF						
FIRE						
SAFETY						
BOP DRILL						

WEATHER				
VISIBILITY	CLEAR			
RAIN	No			
TEMP - 6 AM	5			
TEMP - NOON	16			
WIND	low			

FUEL (LITRES) WATER							
CAMP WATER REC.							
DIESEL RIG	2.000						
DIESEL USED							
DIESEL RECEIVED							
CAMP DIESEL							
CAMP USED							

	- DC ON L		<del></del>
SIZE	JTS	SIZE	JTS
	<del> </del>		<del> </del>
	1		
	<del> </del>		<del> </del>
			1_
			1

### LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
7"	11	11.2	23	K-55	STC	3	11.2	n/a	
REMARKS:		TOP OF CEMENT		SURFACE					
PLUG BUMPED TO									

### DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner ompensation			Intermediate Casing			Contract Labour Power tongs	10day s	
Well Report			Core Trays					
Work over prep-cost			Liner (4.50") \$12.53/ft			Directional Drilling		
Site Construction			Casing Preparation			Rig Supervisor		
Conductor			Casing Services At Rig			Open Hole Logging		
Site Maintenance (SUMP WORK)			2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation			Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling			Down Hole Completion Eqpt			Rental Equipment		
Waste Disposal ZALCO LABS			Wellhead			Lost and Damaged Equipment		
Transport			Wellhead - Completion			Camp		
Cranes			Surface Cement and Additives			Timewriting		
Rig Day Rate			Intermed. Cement & Additives			Pacific Inspection		
Rig Move Rate			Surface Cement and Additives			Communications		
Mud	\$847	1664	Floating equip.			Stabalizers		
Completion Fluids			Trucking liquid mud			Baker Hughes: Fishing		
Bits -BIT # 2			Geologists			- transfer to the same		
Fuel litres @ \$.			Mud Logging					
Surface Casing			Mud Engineer			DRILL WATER		
						Total	\$847	166

		REMARKS	, 5141		4041	1004
General Comments:			Representative:	KEVIN DAVIS		
<del></del>						
WELL NAME	KELLY1	DATE	OCTOBER 9,20	001		
		DATE	OCTOBER 9,20	01 REPORT NO		2 ]

909397 027

Р	rospect		WELL NAME AFE		AFE NO	REPO	REPORT NO DAYS		DAYS FROM SPUD		DAYS VS. PLAN		DATE	
ST JAMES S	ECTION PE	:P161	KELLY1	AFE-001 3		3	2					OCTOBER 10,200		
PRESENT OPERATION							DEPTH AFE		AFE TI			GRESS	PLUG BACK	
Preparing to ru	n surface ca	sing					213	MT.		1,039	MT.	55.1	MT.	
LAST CA	SING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST			CUMM COST		AFE AMOUNT		RIG SUPERVISOR(S)			
7.0"	11.2		Drillcorp UDR 3000 rig	A\$	573	A\$		16.084	A\$	555	000.			nstone

DRILLING	BITS.	PARAMETERS

ВІТ	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(	S)	RPM	CPF		TEI	ETH			REN	IARKS	
NO.		SER NO	IADC	IN			(m/hr)			WOB	(\$US)	I	0	D	L	В	G	0	R
1						ĺ													
<u></u>						<u></u>						İ							-
2	6-1/8"	Reed	EHP51H	122.0	91.4	14.0	6.5	Open		60		1	1	no	Α	F		no	csg
										18000			`		'		l '	'''	wg.

MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT	<u> </u>		RHEOL	.OGY		WATER LOSS				MUD CHECK				MUD	MUD COST				
(ppg)	vis	PV	ΥP	GELS	API	С	AKE	HTHP	Т	IME	DEPTH	SOURCE	FL DEG F	TYPE		DAILY			CUMM S
9.1	37										213.0	PITS		spud	A\$		23	A\$	1,687
	VOLUME ANALYSIS %								DISSOLVED IONS				<u> </u>	ALKALINITY			MBT		
OIL	EXL	IME	ᅃ	WATER	LGS	HGS	SANI	<u> </u>	Ca++	CI-	ES	S SALT WT%	NO3-	SO3-	рН	PM	Pf	Mf	(ppb)
																			yr.e-7

#### **HYDRAULICS**

вп		S	M		LINER	FLOW	PRESS		A VEL			C VEL		JET VEL	LOSSES	AT BIT	IMPACT	HSI		PR DA	-,
NO	1	2	3	4		(gpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE	nai		80	100
2	?				2-3/4" x 3"	+/-100	0							0		(,	0			-00	100
	<u>L</u>																<u> </u>		Н		

### DRILLING INFORMATION

	STRING WEIGHT (Ib)			TORQUE		GAS (units)					ROP's (ft/hr)			
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN			
19.096	19,096								<u>                                    </u>		min	AVG		
Formation - Cuttings		Hard black sand	ly shale.	•	·		<u> </u>	·		<del>-</del>	L			

		Date 20	01 OPERATIONS SEQUENCE
TIME	то	HRS	
0630	1430	8.00	Drill 6-1/8" surface hole from 158.0 to 213.1 m.
1430	1500	0.50	Circulate bottoms up
1500	1530	0.50	Run survey @ 212m.
1530	1600	0.50	60 m. wiper trip
1600	1630	0.50	Circulate out 6" fill on bottom after wiper trip.
1630	1830	2.00	POH laying down drill pipe
1830	1930	1.00	Prepare and clean threads on 5-1/2" casing.
1930	2100	1.50	Run in hole with 26 joints PW casing.
2100	2200	1.00	Remainder of casing has different threads. Wait on instructions
2200	2300	1.0	Attach crossover & ran PW casing to bottom on HWT casing
2300	0630	7.5	Cirulate casing while waiting on extra casing.
			(Truck dispatched to Adelaide to pick up more casing)
		<del></del>	
		24.0	
		24.0	

DESCRIPTI	ON	OD (in)	ID (in)	LENGTH
BIT #1 HTC GT1		6.125	ID (III)	LENGTH (m)
x/over		0.123		0.18
Stabiliser		<del>  </del>		0.18
X/over	<del></del>			1.00
2 x 5" drill collars	<del> </del>	+		0.16
X/over		<del></del>		11.90
				0.15
Stabiliser				1.00
		+		
ВНА	HRS.	TOTAL L	.ENGTH	14.57
Jars	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
80	0.50	n/a			
122	0.50	n/a			
212	7.50	n/a		1	

#### PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST			
GEOLOG USA	1		1
WELL ENGINEER	1		
MUD ENGINEER	1		
			1
		TOTAL ON LOC.	11

# LAST DRILLS PIT LEVEL BOP TEST HYD SULF FIRE SAFETY

BOP DRILL

WEA	THER
VISIBILITY	CLEAR
RAIN	No
TEMP - 6 AM	5
TEMP - NOON	16
WIND	low

FUEL (LITRES) W	ATER
CAMP WATER REC.	
DIESEL RIG	1.800
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE -	DC ON LO	CATION	
SIZE	JTS	SIZE	JTS

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	51.047.47	
7"	11	11.2	23	K-55	STC	3	11.2	n/a	MSC AT
REMARKS:		TOP OF CEMENT	iva	SURFACE					
L							PLUG BUMPED TO		

#### DAILY COST BREAKDOWN

Well Report     5000     Core Trays     4,341       Work over prep-cost     5300     Liner (4.50") \$12.53/ft     Dire       Site Construction     25000     Casing Preparation     Rig       Conductor     Casing Services At Rig     Ope       Site Maintenance (SUMP WORK)     2 7/8" Production Tubing     CBL       Mobilisation     Tubing Preparation     Wel       Demobilisation     Tubing Running Services     Solid       Water Hauling     Down Hole Completion Eqpt     Ren       Waste Disposal ZALCO LABS     Wellhead     Lost       Transport     Wellhead - Completion     Carr       Cranes     Surface Cement and Additives     Time       Rig Day Rate     Intermed. Cement & Additives     Pacing Move Rate       Mud     \$23     1687     Floating equip.     Stab	ITEM	Todovio	
Well Report         5000         Core Trays         4,341           Work over prep-cost         5300         Liner (4.50") \$12.53/ft         Dire           Site Construction         25000         Casing Preparation         Rig           Conductor         Casing Services At Rig         Ope           Site Maintenance (SUMP WORK)         27/8" Production Tubing         CBL           Mobilisation         Tubing Preparation         Wel           Demobilisation         Tubing Running Services         Solic           Water Hauling         Down Hole Completion Eqpt         Ren           Waste Disposal ZALCO LABS         Wellhead         Lost           Transport         Wellhead - Completion         Carr           Cranes         Surface Cement and Additives         Time           Rig Day Rate         Intermed. Cement & Additives         Paci           Mud         \$23         1687         Floating equip.         Stab	ontract Labour Power tongs	Today's	CUM
Work over prep-cost Site Construction 25000 Casing Preparation Casing Services At Rig Ope Site Maintenance (SUMP WORK) Site Maintenance (SUMP WORK)  Demobilisation Tubing Preparation Tubing Running Services Water Hauling Down Hole Completion Eqpt Waste Disposal ZALCO LABS Wellhead Transport Cranes Surface Cement and Additives Rig Day Rate Mud S23 1687 Floating equip. Completion Equipment Site Dire (4.50") \$12.53/ft Dire (4.50") \$12.	Thrace Cabour Fower longs		
Site Construction 25000 Casing Preparation Rig Conductor Casing Services At Rig Ope Site Maintenance (SUMP WORK) 27/8" Production Tubing CBL Mobilisation Tubing Preparation Wel Demobilisation Tubing Running Services Solic Water Hauling Down Hole Completion Eqpt Ren Waste Disposal ZALCO LABS Wellhead Lost Transport Wellhead Completion Carr Cranes Surface Cement and Additives Time Rig Day Rate Intermed. Cement & Additives Paci Rig Move Rate Surface Cement and Additives Com Mud \$23 1687 Floating equip.	rectional Drilling		
Conductor  Casing Services At Rig Ope Site Maintenance (SUMP WORK) 2 7/8" Production Tubing Mobilisation Tubing Preparation Tubing Running Services Solic Water Hauling Down Hole Completion Eqpt Waste Disposal ZALCO LABS Wellhead Transport Wellhead - Completion Cranes Surface Cement and Additives Rig Day Rate Rig Move Rate Surface Cement and Additives Mud \$23 1687 Floating equip. Completion Fluids	g Supervisor	<b>6550</b>	60.750
Site Maintenance (SUMP WORK)  2 7/8" Production Tubing  Mobilisation  Tubing Preparation  Tubing Running Services  Solid  Water Hauling  Waste Disposal ZALCO LABS  Wellhead  Transport  Wellhead - Completion  Cranes  Surface Cement and Additives  Rig Day Rate  Rig Move Rate  Mud  \$23  1687  Floating equip.  Translation  Tubing Preparation  Well  Ren  Additives  Time  Paci  Surface Cement and Additives  Completion  Stab	pen Hole Logging	\$550	\$2,750
Mobilisation Tubing Preparation Wel  Demobilisation Tubing Running Services Solic  Water Hauling Down Hole Completion Eqpt Ren  Waste Disposal ZALCO LABS Wellhead Lost  Transport Wellhead - Completion Cam  Cranes Surface Cement and Additives Time  Rig Day Rate Intermed. Cement & Additives Paci  Rig Move Rate Surface Cement and Additives Com  Mud \$23 1687 Floating equip.	BL-VDL-Perforating		
Demobilisation  Tubing Running Services  Solid Water Hauling  Down Hole Completion Eqpt  Waste Disposal ZALCO LABS  Wellhead  Transport  Cranes  Surface Cement and Additives  Rig Day Rate  Rig Move Rate  Surface Cement and Additives  Rig Move Rate  Surface Cement and Additives  Surface Cement and Additives  Rig Move Rate  Surface Cement and Additives  Completion Fluids  Translation fluids			
Water Hauling     Down Hole Completion Eqpt     Ren       Waste Disposal ZALCO LABS     Wellhead     Lost       Transport     Wellhead - Completion     Cam       Cranes     Surface Cement and Additives     Time       Rig Day Rate     Intermed. Cement & Additives     Paci       Rig Move Rate     Surface Cement and Additives     Com       Mud     \$23     1687     Floating equip.     Stab	lids Control Equipment		
Waste Disposal ZALCO LABS  Transport  Cranes  Surface Cement and Additives  Rig Day Rate  Rig Move Rate  Surface Cement & Additives  Rig Move Rate  Surface Cement and Additives  Paci  Surface Cement and Additives  Completion Fluids  Translated Surface Cement and Additives  Completion Fluids	ental Equipment		
Transport Wellhead - Completion Carr Cranes Surface Cement and Additives Time Rig Day Rate Intermed. Cement & Additives Paci Rig Move Rate Surface Cement and Additives Com Mud \$23 1687 Floating equip. Stab	st and Damaged Equipment		
Cranes     Surface Cement and Additives     Time       Rig Day Rate     Intermed. Cement & Additives     Paci       Rig Move Rate     Surface Cement and Additives     Com       Mud     \$23     1687     Floating equip.     Stab       Completion Fluids     Total line if and the state of the state			
Rig Day Rate Intermed. Cement & Additives Paci Rig Move Rate Surface Cement and Additives Com Mud \$23 1687 Floating equip. Stab Completion Fluids	newriting		
Rig Move Rate Surface Cement and Additives Com Mud \$23 1687 Floating equip. Stab Completion Fluids	cific Inspection		
Mud \$23 1687 Floating equip. Stab  Completion Fluids Treating limit and	mmunications		
Completion Fluids	abalizers		
Pake	ker Hughes: Fishing		
Bits -BIT # 2 Geologists	ker riughes; Fishing		
Fuel litres @ \$. Mud Logging			
Surface Casing Mud Engineer	ILL WATER		\$6

		REMARKS	Total	•	\$573	46084
General Comments:			Representative:	KEVIN DAVIS		
WELL NAME	VCI I V4					
TTEE TAILE	KELLY1	DATE	OCTORER 10	2001		)

Prospect		WELL NAME		AFE NO	REPO	RT NO	DAYS FROM	SPU	D .	DAYS VS. F	LAN		DATE
ST JAMES SECTION PE	P161	KELLY 1	A	FE-001	4			3				ОСТО	BER 11, 2001
- · · · · · · · · · · · · · · · · · · ·		ENT OPERATION				DE	PTH	Τ	AFE TI	D		RESS	PLUG BACK
Wait on surface casing ce	ment.					213	MT	.	1,039	MT.	nil	MT.	
LAST CASING	FIT (ppg)	CONTRACTOR - RIG		DAILY COST	[:	CUM	A COST	T	AFE AMO	UNT			RVISOR(S)
5.5" 213.1		Drillcorp UDR 3000 rig	A\$	550	A\$		46.084	AS	555	5.000			nstone

BIT	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	N	OZZLE(	S)	RPM	CPF	TEE	TH			REM	IARKS	
NO.		SER NO	IADC	IN			(m/hr)				WOB	(\$US)	ا ہ	В	L	В	G		R
																	$\vdash$		_ <u>``</u>
1 1													-		_		<del></del>	$\vdash$	├──
								1									$\square$		
1 1																	i I	ıl	ĺ
																			l

### MUD PROPERTIES, MATERIALS ADDED, COSTS

ĺ	MUD WT	L.,		RHEOL	OGY			WATER L	.oss				MUD CH	IECK		MUD			Mile	COST	
ı	(ppg)	VIS	PV	ΥP	GEL	.s	API	CAKI	Н	THP	TIME	DEPTH		SOURCE	FL DEG F	TYPE		DAILY		T	CUMM \$
	9.1	37										213.0		PITS		spud	A\$		<u> </u>	A\$	1,687
١				vo	LUME ANA	LYSIS %	<del></del>			<u> </u>	4-		DISSO	LVED IONS				ALKA	LINITY	1	MBT
ŀ	OIL_	EXL	ME	ᅄ	WATER	LGS	н	GS	SAND	Ca++	c	:1-	ES	SALT WT%	NO3-	SO3-	ρН	PM	Pf	Mt	(ppb)
L		L								<u> </u>										1_;	(44-7)

#### **HYDRAULICS**

Br	пΙ		S	PM		LINER	FLOW	PRESS		A VEL			C VEL		JET VEL	1.0995	S AT BIT	IMPACT				
NC	<u>•</u>	1	2	3	4		(gpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)		HSI		PR DA	
L.												-				(psi)	(%)	FORCE		40	80	100
										_		<del>                                     </del>									L	

### DRILLING INFORMATION

ŀ		STRING WEIGHT (Ib)		TORQL	JE			GAS (units)				ROP's (ft/hr)	
ŀ	UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
ŀ													
L	Formation	- Cuttings	Hard black sand	ly shale.									

Date 2001	OPERATIONS SEQUENCE
-u.c 2007	OPERATIONS SEGUENCE

TIME	то	HRS	
0630	2230	16.00	Wait on PW casing
2230	2400	1.50	Run in hole with remainder PW casing.
2400	0030		Circulate casing.
0030	0130		Set up cementing equipment.
0130	0300	1.50	Mix & pump 32 sx class A cement @ 1.80 SG & displace with 932 litres of water.
0300	0630	3.50	Wait on cement.
<u> </u>			·
i			
<b></b>			
<b>—</b> ———————————————————————————————————			
		24.0	
<u> </u>		27.0	

DESCRIPT	ION	OD (in)	ID (in)	LENGTH (m)
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		ļ		
ВНА	HRS.	TOTAL L	.ENGTH	
Jars	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
80	0.50	n/a			
122	0.50	n/a			
212	7.50	n/a			

### PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST			1
GEOLOG USA	1		
WELL ENGINEER	1		
MUD ENGINEER	1		<b>†</b>
		TOTAL ON LOC	44

LAST DRILLS								
PIT LEVEL								
BOP TEST								
HYD SULF								
FIRE								
SAFETY								
BOP DRILL								

WEA:	WEATHER							
VISIBILITY	Mistv							
RAIN	constant							
TEMP - 6 AM	5							
TEMP - NOON	16							
WIND	low							

FUEL (LITRES) W	ATER
CAMP WATER REC.	
DIESEL RIG	1,000
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE - DC ON LOCATION											
JTS	SIZE	JTS									

1 A	CT	~	SING	•
LA	31		SING.	

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT.	MSC AT
5.5"	71	213.4	23	ASTM 1035	PW	3.0m	213.1	207.1	MSC AT
REMARKS:									SURFACE
							PLUG BUMPED TO		400 psi

#### DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner ompensation		2000	Intermediate Casing	, , , , ,		Contract Labour Power tongs	Todays	COM
Well Report		5000	Core Trays		4,341	Conduct Labour 1 Ower tongs	+	
Work over prep-cost		5300	Liner (4.50") \$12.53/ft		7,071	Directional Drilling	-	
Site Construction		25000	Casing Preparation			Rig Supervisor	8550	60.750
Conductor			Casing Services At Rig	<u> </u>		Open Hole Logging	\$550	\$2,750
Site Maintenance (SUMP WORK)			2 7/8" Production Tubing			CBL-VDL-Perforating	<del> </del>	
Mobilisation			Tubing Preparation			Welder	<del>                                     </del>	
Demobilisation			Tubing Running Services		-	Solids Control Equipment		
Water Hauling			Down Hole Completion Eqpt				<del> </del>	<del></del>
Waste Disposal ZALCO LABS			Wellhead			Rental Equipment	+	
Transport			Wellhead - Completion			Lost and Damaged Equipment  Camp	+	····
Cranes			Surface Cement and Additives			Timewriting	+	
Rig Day Rate			Intermed. Cement & Additives				<del>  </del>	
Rig Move Rate			Surface Cement and Additives			Pacific Inspection  Communications	<del>  </del>	
Mud		1687	Floating equip.				┼	
Completion Fluids		1007	Trucking liquid mud			Stabalizers	<del> </del>	
Bits -BIT # 2			Geologists			Baker Hughes: Fishing	<del>  </del>	
Fuel litres @ \$.			Mud Logging				<del>  </del>	
Surface Casing			Mud Engineer				<del> </del>	
	<u> </u>		mad Engineer			DRILL WATER Total	<u>i</u>	<u>\$6</u>

		REMARKS				
General Comments:		Contractor	Representative:	KEVIN DAVIS		
						·
			· · · · · · · · · · · · · · · · · · ·			
:						
WELL NAME	KELLY1					
	NELLII	DATE	OCTOBER 11, 2	2001 REPORT NO	<u>)</u>	4

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Prospect ST IAMES SECTION DE	D101	WELL NAME AFE NO		REF	REPORT NO DAYS FROM SE		PUD	DAYS VS. PLAN		DATE		
ST JAMES SECTION PE	ST JAMES SECTION PEP161 KELLY 1		AFE-001		5		4	4			OCTOBER 12, 20	
	PRESENT OPERATION							AFE TD		PROGRESS		PLUG BACK
Preparing to install BOP	Preparing to install BOP's						MT.	1.039	MT.	nil	MT.	FLOG BACK
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST		CUMM C			AFE AM	OUNT		RIG SUPERVISOR(S)	
5.5" 213.1		Drillcorp UDR 3000 rig	A\$ 19.588	AS 400 740							an Johnstone	

DRIL	LING	BITS.	PAR	AMETERS

ВІТ	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	N	OZZLE	S)	RPM	CPF	TEE	тн			REM	ARKS	
NO.		SER NO	IADC	IN			(m/hr)				WOB	(\$US)	0	D	L	В	G		R
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			<u>L</u> .	i		ļ									_	_	_	$\vdash$	├
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MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	OGY		\	WATER LOS	3			MU	D CHECK			MUD		<u></u>	MILIT	COST	
(PPg)	VIS	PV	ΥP	GELS		API	CAKE	Н	ГНР	TIME	DEPTH	SOURCE		FL DEG F	TYPE		DAILY		Γ	CUMM \$
9.1	37										213.0	PITS			spud	A\$		•	A\$	1,687
			VC	DLUME ANAL	YSIS %						DI	SSOLVED IONS	3		ории		AL KA	LINITY		1,007 MBT
OIL	EXL	IME	ᅃ	WATER	LGS	HG	s s	AND	Ca++	CI-	ES	SALTV	VT%	NO3-	SO3-	На	PM	Pf		1
															- 555-	Pn	m		į mi	(ppb)

### HYDRAULICS

BIT	<u> </u>		SP	M		LINER	FLOW	PRESS	ļ	A VEL			C VEL		JET VEL	LOSSES	AT BIT	IMPACT	1101	Г.		
NO	1		2	3	4		(gpm)	(psi)	DP	DC	DC	DP	DC	DC					HSI		PR DA	T
ļ								<u></u>				<del>  -</del>	-			(psi)	(%)	FORCE	· · · · · ·	40	80	100
		$\neg$								_		-		_								
Ь.	٠	_												L. 1						( /	i I	1 1

DRILLING INFORMATION

STRING WEIGHT (Ib)			TORQUE				GAS (units)	ROP's (ft/hr)				
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Formation	- Cuttings											

Times To Hiss   10   10   10   10   10   10   10			Date 20	01 OPERATIONS SEQUENCE
Cut off conductor, top up annulus with 15 sx cement. Clean, prepare, & position BOP's, choke manifold etc while wait on cement.  (Cement samples hard @ 0630 hrs 12/10/01- 28 hrs after plug down.)				
While wait on cement.  (Cement samples hard @ 0630 hrs 12/10/01- 28 hrs after plug down.)	0630	0630	24.00	Wait on cement. (Samples still soft after 12 hours)
While wait on cement.  (Cement samples hard @ 0630 hrs 12/10/01- 28 hrs after plug down.)		<u> </u>		
While wait on cement.  (Cement samples hard @ 0630 hrs 12/10/01- 28 hrs after plug down.)				Cut off conductor, top up annulus with 15 sx cement. Clean, prepare, & position BOP's, choke manifold etc
				while wait on cement.
				(Cement samples hard @ 0630 hrs 12/10/01- 28 hrs after plug down.)
				1
24.0			24.0	

DESCRIPTION	ON	OD (in)	ID (in)	LENGTH (m)
		05 (11)	10 (111)	CENGTH (III)
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ВНА	HRS.	TOTAL L	ENGTH	
Jars	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
80	0.50	n/a			
122	0.50	n/a			
212	7.50	n/a			

#### PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		1
GEOLOG AUST			
GEOLOG USA	1		<u> </u>
WELL ENGINEER	1		
MUD ENGINEER	1		i
		TOTAL ON LOC.	11

LAST DRI	LLS
PIT LEVEL	
BOP TEST	
HYD SULF	
FIRE	
SAFETY	
BOP DRILL	

<i>WEA</i>	THER
VISIBILITY	clear
RAIN	no
TEMP - 6 AM	5
TEMP - NOON	15
WIND	moderate

FUEL (LITRES) W	ATER
CAMP WATER REC.	
DIESEL RIG	1.000
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE - DC ON LOCATION											
SIZE	JTS	SIZE	JTS								
		***	†								
	<del>1                                    </del>		<del> </del>								
	1										

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	23	ASTM 1035	PW	3.0m	213.1	207.1	
REMARKS:		•					TOP OF CEMENT		SURFACE
							PLUG BUMPED TO		400 psi

DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing	1		Contract Labour Power tongs	Todays	CON
Well Report		\$5,000	Core Trays	1	\$4,341		+	
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.		<u> </u>	Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$3,300
Conductor		\$528	Casing Services At Rig			Open Hole Logging	<b>\$330</b>	\$3,300
Site Maintenance & Supplies.	\$220	\$220	2 7/8" Production Tubing			CBL-VDL-Perforating	<del>  </del>	
Mobilisation		\$32.000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment	+	
Water Hauling		\$100	Down Hole Completion Egpt			Rental Equipment	\$300	\$300
Waste Disposal			Wellhead			Lost and Damaged Equipment	Ψ300	<b>\$300</b>
Transport	\$2.000	\$2.000	Wellhead - Completion			Accomodation	\$625	\$625
Cranes	\$2,000	\$2,000	Surface Cement and Additives	\$153	\$481	Timewriting	<b>3023</b>	<b>3023</b>
Rig Day Rate	\$8,150	\$57,050	Intermed. Cement & Additives	¥,,,,		Pacific Inspection	1	
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$500	\$500
Mud		\$1,687	Floating equip.		\$885	Stabilisers	Ψ300	\$300
Completion Fluids			Trucking liquid mud		4000	Baker Hughes: Fishing	<del></del>	
Bits -BIT # 2		\$7,850	Geologists	\$400	\$7,000	Computer Services.	\$220	*****
Fuel 4,600 litres @ \$.0.85	\$3,910	\$3,910	Mud Logging	<del>\$</del> 400	Ψ1,000	Pit Liners		\$220
Surface Casing			Mud Engineer				\$560	\$560
		222,000				DRILL WATER Total	\$19.588	\$6 19374

		REMARKS	. 514.		<b>#13,300</b>	153740
General Comments:			Representative:	KEVIN DAVIS		
					<del></del> -	
NA/ELL MANAGE						
WELL NAME	KELLY1	DATE	OCTOBER 12, 2	2001 REPORT	10	5

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					<del>- ,</del>						
Prospect		WELL NAME	AFE NO	REPORT I	io DA	YS FROM S	PUD	DAYS VS. F	DI AN		DATE
ST JAMES SECTION PEP	161	KELLY 1	AFE-001	6		5	;			ОСТОІ	BER 13, 2001
		PERATION @ 0630 hrs			DEPTI	н	AFE	TD		RESS	PLUG BACK
Pressure Testing BOP's (	Pipe rams	)			213	MT.	1,039	MT.	nii	MT.	1 ESS DAGK
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST		CUMM C	OST	AFE AM	OUNT			RVISOR(S)
5.5" 213.1		Drillcorp UDR 3000 rig	A\$ 10.550	A\$	195.37	3	A\$ 555,0	000			hnstone

DRII	LING	RITS	PARA	METERS

BIT	SIZE	MFR	TV0=							_	· · · · · · · · · · · · · · · · · · ·									
1 ""	OK.E	MFK	TYPE	DEPTH	Metres	HOURS	AV ROP	N N	OZZLE	(8)	RPM	CPF	1	TE	TH		l	REM	IARKS	
NO.		SER NO	IADC	iN			(m/hr)				WOB	(\$US)		0						
1										Γ		, ,	<u> </u>	<del></del>	-	<u> </u>	اٿا	<b>⊢⊸</b> ⊣	┌┷┤	-
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MUD PROPERTIES, MATERIALS ADDED, COSTS

	I												,,								
MUD WT	L		RHEOL	OGY			WATE	R LOSS				MU	D CHECK			MUD			MUIT	COST	
(ppg)	vis	PV	YP	GEL	s	API	c,	AKE	нтн	(P 1	TIME	DEPTH	SOURCE	F	FL DEG F	TYPE		DAILY		1	CUMM \$
	L		Ĺ	L			<u> </u>					213.0	PITS			spud	A\$			A\$	1,687
	т——		V	DLUME ANA	LYSIS %							DI	SSOLVED IONS					ALKA	LINITY	•	MBT
OIL	EXL	IME	애	WATER	LGS	<u> </u>	IGS	SAN	ID	Ca++	CI-	ES	SALT W	т%	NO3-	SO3-	рН	PM	Pf	Mf	(ppb)
	<u> </u>							<u> </u>					İ	T					•		,,,,,

#### **HYDRAULICS**

BIT		SI	M		LINER	FLOW	PRESS	L	A VEL			C VEL		JET VEL	LOSSES	S AT BIT	IMPACT	HSI		PR DA	TA
NO	1	2	3	4		(gpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE	noi	40	80	100
-			<u> </u>												······································			-	-	- 00	100
			L	<u> </u>																_	

#### DRILLING INFORMATION

	STRING WEIGHT (Ib)		TORQU	Ε			GAS (units)				ROP's (ft/hr)	
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Formation	- Cuttings											

_	
Date 2001	OPERATIONS SEQUENCE
Dail: 2007	OPERATIONS SEQUENCE

TIME	10	HRS	
0630	0830	2.00	Wait on cement.
0830	2100	12.50	Slack off on casing, back out landing joint, install casing spool. Install BOP's & nipple up. Change rams.
2100	0630	9.50	Install test plug in casing head. Set up rig triplex pump to pressure test. Attempt to P/T manifold. Pressure
			leaking off through pump valve seats. Rig up standby pump. Pressure leaking off behind test plug in
<u> </u>			casing head. Pull plug & replace O-ring seals. Test seals - OK. P/T blind rams - repair leaking chicksans.
			Finally, pressure tested blind rams, choke manifold, chokes, HCR & outer manual valve to low pressure
<b></b>			
			* Pressure test pump has manual clutchdifficult to disengage at correct pressure. LP test up to max.
			300 psi, HP test up to 1800 psiall held OK.
		24.0	

Page 1

DE	SCRIPTION	OD (in)	ID (in)	LENGTH (m)
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Dua I				
ВНА	HRS.	TOTAL L	ENGTH	
Jars	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
80	0.50	n/a			
122	0.50	n/a			
212	7.50	n/a			

### PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST	1		
GEOLOG USA	1		
WELL ENGINEER	1		
MUD ENGINEER	1		1
			1
			1
		TOTAL ON LOC.	12

LAST DI	RILLS
PIT LEVEL	
BOP TEST	
HYD SULF	
FIRE	
SAFETY	
BOP DRILL	

WEAT	THER
VISIBILITY	clear
RAIN	no
TEMP - 6 AM	5
TEMP - NOON	15
WIND	moderate

FUEL (LITRES) W	ATER
CAMP WATER REC.	
DIESEL RIG	1,000
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

2			
SIZE	JTS	SIZE	JTS
	<del>                                     </del>		<del> </del>
5	<u> </u>		1
	<del>                                     </del>		+
	<u> </u>		

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	****			
5.5"	71	213.4	23	ASTM 1035	PW	3.0m	213.1	207.1	MSC AT			
REMARKS:												
							PLUG BUMPED TO		400 psi			

DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner ompensation		-\$2,000	Intermediate Casing			Contract Labour Power tongs	Todays	COM
Well Report		\$5,000	Core Trays		\$4,341	Conduct Cabour Fower longs		
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$3,850
Conductor		\$528	Casing Services At Rig			Open Hole Logging	1000	45,555
Site Maintenance (SUMP WORK)			2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		·
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$350
Waste Disposal			Wellhead	\$1,000	\$1,000	Lost and Damaged Equipment	1-00	
Transport		\$2,000	Wellhead - Completion		<del></del>	Camp	<del> </del>	
Cranes			Surface Cement and Additives		\$481	Timewriting		
Rig Day Rate	\$8,150	\$65,200	Intermed. Cement & Additives			Pacific Inspection		-
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$100	\$300
Mud		\$1,687	Floating equip.		\$885	Stabilisers	1	
Completion Fluids			Trucking liquid mud	\$300	\$300	Baker Hughes: Fishing	<del>                                     </del>	
Bits -BIT # 2		\$7,850	Geologists	\$400	\$2,400	Daker Hagnes. Fishing	<del> </del>	
Fuel litres @ \$.		\$3,910	Mud Logging				<del>                                     </del>	
Surface Casing		\$30,885	Mud Engineer			DRILL WATER	<del>  </del>	\$6
						Total	\$10.550	195373

		REMARKS	·otai		\$ 10,55U	1903/3
General Comments:			Representative:	KEVIN DAVIS		
				-	<del></del>	
						<del></del>
		<del> </del>	<del></del>			
WELL NAME	KELLY1	DATE	OCTOBER 13, 2	2001 REPORT N	0	6

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Prospect		WELL NAME	AFE NO	RE	PORT NO D	AYS FROM S	PUD	DAYS VS. I	DI ANI		DATE
ST JAMES SECTION PER	2161	KELLY 1	AFE-001	7		c		DA10 10.1			
			1 001	—-						OCTO	BER 14, 2001
	PRESENT O	PERATION @ 0630 hrs		1	DEP1	ГН	AFE	TO	DD.	OGRESS	PLUG BACK
Coring below casing shoe	for LOT				214	MT.	1,039		0.0		PLOG BACK
LAST CASING	FIT (ppg)	CONTRACTOR - RIG					1,055	1071.	0.1	) IVI I .	
	DAILY COST		CUMM C	COST AFE AN		FE AMOUNT		RIG SUPE	RVISOR(S)		
5.5" 213.1		Drillcorp UDR 3000 rig	A\$ 10.440		A\$ 205,813		A\$ 555.0	000		nstone	

	<b>PARAMETERS</b>

ВІТ	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S) RPM		CPF	TEETH				REMARKS			
NO.		SER NO	IADC	IN			(m/hr)		woB	(\$US)		•	_				0	
3	PQ	L/year	Core	213.4				nil		(455)	Ė	<u> </u>	ٿ	-			-	- R
l i		H2181	n/a													<del></del> -		
																igwdap		
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MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	OGY		v	VATER LOSS					MUD CHECK			MUD	MUD COST					
(PPg)	vis	PV	ΥP	GELS	Al	Pi	CAKE	нт	НР	TIME	DEPTH	T	SOURCE FL DEG		TYPE				Cost		
8.5	30										214.0	$\top$	PITS	I C DEG F	PHPA		DAILY	•	<del> </del> -	CUMM \$	
			VC	DLUME ANALYS	S %									L	PHPA	A\$			A\$	1,687	
OIL	EXL	ME										DISSOI	LVED IONS				ALKA	LINITY		MBT	
<u> </u>		IME	OIL	WATER	LGS	HGS	S SA	MD	Ca++	CI		ES	SALT WT%	NO3-	803-	рΗ	PM	Pf.	Mf	(ppb)	
L	L									1	i									, FF-7.	

#### **HYDRAULICS**

BIT	SPM LINER			FLOW	PRESS	A VEL		C VEL		JET VEL	LOSSES AT BIT										
NO	1	2	3	4		(gpm)	(psi)	DP	DC	DC	np.	DC	DC				IMPACT	HSI	_	SPR DA	
3					2-3/4"		300	-	7	7	<del>  -</del>	<del>  ,</del>			(psi)	(%)	FORCE		40	80	100
							300			<del>                                     </del>	<del>                                     </del>										
							L			Ĺ	L									1 1	

#### DRILLING INFORMATION

	STRING WEIGHT (Ib)		TORQU			GAS (units)	ROP's (ft/hr)					
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX MIN	AVG	
												AVG
Formation - Cuttings												

Date 2001 OPERATIONS SEQUENCE

TIME	10	HRS	
0630	0900	2.50	Pressure tested pipe rams & "kelly cock" to LP 145+ psi - 5 mins., HP 1450 + psi - 10 mins OK.
0900	1300	4.00	Repaired burst hydraulic hose.
1300			Layout BOP test gear, Remove tight drive spindle & replace with kelly cock. Fit bell nipple to BOP.
	1930	6.50	Connect up flow line, rig up to drill cement.
1930	2330	4.00	Re-level rig base. (settlted due to heavy rain)
2330	0200	2.50	Set up mud system.
0200	0430	2.50	Pick up drill rods & run in hole. Drill cement
0430	0530	1.00	Drill floats collar & float shoe.
0530	0630	1.00	Prepare wire-line stripper
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L		24.0	

DESC	CRIPTION	OD (in)	ID (in)	LENGTH (m)
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ВНА	HRS.	TOTAL LI	ENGTH	
Jars	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
80	0.50	n/a			
122	0.50	n/a			
212	7.50	n/a			

## PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST	1		
GEOLOG USA	1		
WELL ENGINEER	1		
MUD ENGINEER	1		
			ļ
	-	TOTAL ON LOC.	12

LAST DRILLS					
PIT LEVEL					
BOP TEST					
HYD SULF					
FIRE					
SAFETY					
BOP DRILL					

<u> WEATHER</u>					
VISIBILITY	mistv rain				
RAIN	heavy				
TEMP - 6 AM	6				
TEMP - NOON	14				
WIND	moderate				

FUEL (LITRES) WATER						
CAMP WATER REC.						
DIESEL RIG	800					
DIESEL USED						
DIESEL RECEIVED						
CAMP DIESEL						
CAMP USED						

DRILL PIPE - DC ON LOCATION										
SIZE	JTS	SIZE	JTS							

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	51.005.00	
5.5"	71	213.4	23	ASTM 1035	PW	3.0m	213.1	207.1	T MSC AT
REMARKS:						0.0111	TOP OF CEMENT	207.1	SURFACE
	<del></del>						PLUG BUMPED TO		400 psi

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Todayla	01114
Land Owner ompensation		\$2,000	Intermediate Casing		-	Contract Labour Power tongs	Today's	CUM
Well Report		\$5,000	Core Trays		\$4,341	Contract Labour Fower torigs	+	
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$4,400
Conductor		\$528	Casing Services At Rig			Open Hole Logging	+ ***	
Site Maintenance (SUMP WORK)			2 7/8" Production Tubing			CBL-VDL-Perforating	+	
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$400
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment	1 1	<del> </del>
Transport		\$2,000	Wellhead - Completion			Camp	+	
Cranes			Surface Cement and Additives		\$481	Timewriting	+	
Rig Day Rate	\$8,150	\$73,350	Intermed. Cement & Additives			Pacific Inspection	1	
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$100	\$400
Mud		\$1,687	Floating equip.		\$885	Stabilisers	+ + + + + + + + + + + + + + + + + + + +	4100
Completion Fluids			Trucking liquid mud		\$300	Baker Hughes: Fishing	+	
Bits -BIT # 3	\$1,190	\$9,040	Geologists	\$400	\$2,800	Daner Hagnes. Flaming	+	
Fuel litres @ \$.		\$3,910	Mud Logging		<del></del> .		<del> </del>	
Surface Casing			Mud Engineer		<del></del>	DRILL WATER	<del>                                     </del>	\$6
					· · · · · · · · · · · · · · · · · · ·		\$10.440	205040

		REMARKS	ıotai	\$1	10,440	205813
General Comments:			r Representative:	KEVIN DAVIS		
					<del></del>	
			· · · · · · · · · · · · · · · · · · ·			
WELL NAME	KELLY1	DATE	OCTOBER 14	2001 REPORT NO	$\overline{}$	<del>-</del>

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Prospect			WELL NAME	455410									
ST JAMES SECTION I	255464			AFE NO	REPOR	RT NO	DAYS FROM S	PUD	DAYS VS	. PLAN	i		DATE
ST JAMES SECTION	EP161		KELLY 1	AFE-001	8		7					CTOR	ER 15, 2001
	PRESENT OPERATION @ 0630 hrs						PTH			Т.			
Coring PQ						-			TD	_	ROGR	ESS	PLUG BACK
	7					271	MT.	1,039	) M1	· 5	7.0	MT.	
LAST CASING	FIT (p	pg)	CONTRACTOR - RIG	DAILY COST		CUMN	COST	AFE AM	MOUNT			10 01105	
5.5" 213.1			Drillcorp UDR 3000 rig	A\$ 11.083		\$ 246	000			+			(VISOR(S)
				1 11,003		\$ 216.8	סצס	A\$ 555.0	000	1		an Joh	nstone

DRII I	ING I	PITC	DADA	METERS

ВІТ	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH					
NO.		SER NO	LADC	IN			(m/hr)		WOB	(A\$)	<u> </u>			Π.		REM	IARKS	-
3	PQ core	_L/year	Amber 9	213.4	57.0	19.5	2.92	nil	WOB		<del>  '-</del>	P	D	-	В	- G	-	R
		H2181	n/a	· ·		10.0	2.02	<del></del>	ĺ	\$20.88			<u> </u>			$\vdash$	$oxed{\Box}$	
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MUD PROPERTIES, MATERIALS ADDED. COSTS

													<del>5, cosis</del>							
MUD WT			RHEOL	OGY			WATER LOSS			MUD CHECK				MUD						
(PPG)	VIS	PV	YP	GELS		API	CAKE	H1	ГНР	TIME	DEPTI			T.	1	├─		MUD	COST	
8.6	39							<del>  '''</del>	-	TIME	DEPTI	<b>'</b>	SOURCE	FL DEG F	TYPE		DAILY \$	<u> </u>	1	CUMM \$
0.0	39		نــــا				<u> </u>				236.	5	PITS	1	PHPA	A\$	1.4	133	A\$	3,120
			V	DLUME ANALY	'SIS %				1			Dinon	1/50 10110	·				-	_ <del></del>	3,120
OIL	EXL	IME	011.6									DISSU	LVED IONS				ALKAI	LINITY		MBT
<u> </u>	EAL	IME.	010	WATER	LGS	HG	38 S	AND	Ca++	с	l-	ES	SALT WT%	NO3-	SO3-	рН	PM	Pf	Mf	(
						1	l		į	1									_ mi	(ppb)
														L						i

### **HYDRAULICS**

ВП		SF	M		LINER	FLOW	PRESS	AV	EL (m/	min)		C VEL		JET VEL					_		
NO	1	2	3	4		(lpm)	(psi)	DP	рс	T	DP	DC	DC	JET VEL		AT BIT	IMPACT	HSI		PR DA	
3					2-3/4"	65	300	31	7	7	,	7	,	n/a	(psi)	(%)	FORCE		40	80	100
<u></u>		<u></u> j								一	Ė	Ė	$\vdash$	II/a		<u> </u>			-		

## DRILLING INFORMATION

	STRING WEIGHT (Ib)		TORQU	TORQUE		GAS (units)					DOD: 400 .		
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	ROP's (ft/hr)		
<del></del>		· · · · · · · · · · · · · · · · · · ·							OL: III	- IMAA	MIN	AVG	
Formation	- Cuttings												

TIME	TO	HRS	
0630	0800	1.50	Mixing mud
0800	0900	1.00	Core shoe track & new hole from 213.4 to 215.8m.
0900	1000	1.00	Ran leak off test - NO LEAKOFF to 18.6ppg equivalent.
1000	1830	8.50	Core PQ from 215.8m t0 236.5m.
1830	1930	1.00	Repair wireline
1930	0630	11.00	Coring PQ from 236.5 to 271.0m
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		24.0	

	DESCRIPTION	i	OD (in)	ID (in)	LENGTH (m)
PQ Bit			4.8		0.14
PQ Reamer (	Oversize)		4.941		0.14
Core barrel			4.5		3.38
Top reamer			4.941		0.26
Landing coup	ling		4.5		0.22
	·		i		
	<b>.</b>				
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			+		
· · · · · · · · · · · · · · · · · · ·					
ВНА		HRS.	TOTAL L	ENGTH	4.13
Jars	None	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
80	0.50	n/a			
122	0.50	n/a			
212	7.50	n/a			

## PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST	1		
GEOLOG USA	1		<del> </del>
WELL ENGINEER	1		
MUD ENGINEER			†
CORE LOGGER	1	· · · · · · · · · · · · · · · · · · ·	<del> </del>
			<del>                                     </del>
		· · · · · · · · · · · · · · · · · · ·	<del> </del>
			<del>                                     </del>
		TOTAL ON LOC	12

LAST DRILLS						
PIT LEVEL						
BOP TEST						
HYD SULF						
FIRE						
SAFETY						
BOP DRILL						

WEATHER						
VISIBILITY	misty rain					
RAIN	heavv					
TEMP - 6 AM	6					
TEMP - NOON	14					
WIND	moderate					

FUEL (LITRES) WATER					
CAMP WATER REC.					
DIESEL RIG	500				
DIESEL USED					
DIESEL RECEIVED					
CAMP DIESEL					
CAMP USED					

DRILL PIPE - DC ON LOCATION								
SIZE	JTS	SIZE	JTS					
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			1					

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SUCTAT		
5.5"	71	213.4	17 lb/ft	L80	PW		SHOE AT	FLOAT A	T MSC AT
REMARKS:		2.0.1	17 10/11	LOU	FVV	3.0m	213.1	207.1	
TEMPORES.							TOP OF CEMENT		SURFACE
L				· · · · · · · · · · · · · · · · · · ·			PLUG BUMPED TO		400 psi

ITEM	Today's	СИМ	ITEM	Today's	СИМ	ITEM	Todouto	0.114
Land Owner ompensation		\$2,000	Intermediate Casing	1000/0	30		Today's	CUM
Well Report		\$5,000	Core Trays		\$4,341	Contract Labour Power tongs	<u> </u>	<del></del>
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation		<del></del>	Rig Supervisor	\$550	\$4,950
Conductor		\$528	Casing Services At Rig			Open Hole Logging	Ψ330	Ψ4,930
Site Maintenance (SUMP WORK)			2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder	+	
Demobilisation			Tubing Running Services		<del> </del> -	Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Egpt			Rental Equipment	\$50	\$450
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment	1 450	<b>4430</b>
Transport		\$2,000	Wellhead - Completion		<u> </u>	Camp	-	
Cranes			Surface Cement and Additives		\$481	Timewriting	-	
Rig Day Rate	\$8,150	\$81,500	Intermed. Cement & Additives					
Rig Move Rate			Prod. Csg Cement and Additives			Pacific Inspection  Communications	\$100	\$500
Mud	\$1,433	\$3,120	Floating equip.		\$885	Stabilisers	\$100	#300
Completion Fluids			Trucking liquid mud		\$300	——————————————————————————————————————	<del></del>	
Bits -BIT # 3		\$9,040	Geologists	\$800	\$3,600	Baker Hughes: Fishing	+	
Fuel litres @ \$.		\$3,910	Core Logging		,		+	
Surface Casing		\$30,885	Mud Engineer			DRILL WATER	-	\$6
<del></del> -					·	Total ::	\$11,083	

		REMARKS			
General Comments:		Contractor F	Representative:	KEVIN DAVIS	
WELL NAME	KELLY1	DATE	OCTOBER 15, 2	2001 REPORT NO	8

Prospect		WELL NAME	AFE NO	REPORT NO	DAYS FROM S	PUD	DAYS VS. PI	LAN		DATE
ST JAMES SECTION PEP	161	KELLY 1	AFE-001	9	8	3		0	стов	ER 16, 2001
		OPERATION @ 0630 hrs			DEPTH	AFE	TD	PROGRE	ss	PLUG BACK
Coring				32	1.4 MT.	1,039	MT.	50.4	MT.	
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CL	JMM COST	AFE A	MOUNT	RI	G SUPER	RVISOR(S)
5.5" 213.1		Drillcorp UDR 3000 rig	A\$ 13.979	A\$ 23	30,875	A\$ 555.	000	li	an Joh	nstone

DRILL	ING	BITS.	<b>PARAMETERS</b>
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ВІТ	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH			REM	ARKS	
NO.	J	SER NO	IADC	IN			(m/hr)		WOB	(A\$)	-	0	D	L	В	G	0	R
3	PQ core	L/year	Amber 9	213.4	108.3	40.5	2.67	nil	500	\$10.99					L			
		H2181	n/a								L				L	Ш		$ldsymbol{ldsymbol{\sqcup}}$
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1												<u> </u>	<u> </u>	<u> </u>				

MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	OGY		WATE	R LOSS				MUD	CHECK		MUD			MUD	COST	
(PPg)	VIS	PV	ΥP	GELS	A	рі С	AKE	нтнр	TIME	DEP	тн	SOURCE	FL DEG F	TYPE		DAILY \$			CUMM \$
8.7	40									321	1.4	PITS		PHPA	A\$	2,6	04	A\$	5,724
			V	DLUME ANALYS	IS %						DISS	OLVED IONS				ALKAI	INITY		MBT
OIL	EXL	IME	OIL	WATER	LGS	HGS	SAND	Ca	++	CI-	ES	SALT WT%	NO3-	SO3-	рН	PM	Pf	Mf	(ppb)

### **HYDRAULICS**

ВП		SF	·M		LINER	FLOW	PRESS	AV	EL (m/r	nin)		C VEL		JET VEL	LOSSES	AT BIT	IMPACT	HSI	s	PR DA	TA
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		40	80	100
3					2-3/4"	65	300	31	1	1	1	1	1	n/a							

### **DRILLING INFORMATION**

	STRING WEIGHT (Ib)		TORQU	E			GAS (units)				ROP's (ft/hr)	
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
								<u> </u>	<u> </u>	l	<u> </u>	<u> </u>
Formatio	on - Cuttings											

### **OPERATIONS SEQUENCE**

TIME	то	HRS	
0630	0800	1.50	Assemble & install wireline stripper (Lubricator)
0800	1100	3.00	PQ Core from 271m. to 276.4m
1100	1300	2.00	POH due to broken core in barrel. (Cleared blockage & RIH)
1300	1730	4.50	PQ core from 276.4m. to 285.4m
1730	1800	0.50	Survey @ 283.0m (misrun)
1800	0630	12.50	PQ core from 285.4 to 321.4m.
			·
		24.0	

Page 1

	DESCRIPTIO	Ň	OD (in)	ID	(in)	LENGTH (m)
PQ Bit			4.8		•	0.14
PQ Rea	mer (Oversize)		4.941			0.14
Core ba	rrel		4.5			3.38
Top real	mer		4.941			0.26
Landing	coupling		4.5			0.22
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ВНА		HRS.	TOTAL L	ENG	гн	4.13
Jars	None	HRS.	SERIAL#			

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
80	0.50	n/a			
122	0.50	n/a			
212	7.50	n/a			
283	misrun				

### **PERSONNEL ON LOCATION**

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	3		
GEOLOG AUST	1		
GEOLOG USA			
WELL ENGINEER	1		1
MUD ENGINEER			1
CORE LOGGER	1		
		TOTAL ON LOC.	13

LAST DRILLS

PIT LEVEL	
BOP TEST	13/10/01
HYD SULF	
FIRE	
SAFETY	
BOP DRILL	

WFATHER

VVEA	WEATHER									
VISIBILITY	fine									
RAIN	no									
TEMP - 6 AM	5									
TEMP - NOON	13									
WIND	low									

FUEL (LITRES) WATER

3.000

**DRILL PIPE - DC ON LOCATION** 

SIZE	JTS	SIZE	JTS
			<del>                                     </del>
	1		
	<del>                                     </del>		+
	<del> </del>	·	
	1 1		

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SUOT AT		
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	FLOAT A	T MSC AT
REMARKS:		TOP OF CEMENT	207.1	SURFACE					
		PLUG BUMPED TO		400 psi					

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM		
Land Owner ompensation		\$2,000	Intermediate Casing	, outy 5	COM		Today's	CUM
Well Report		\$5,000	Core Trays	<del>                                     </del>	\$4,341	Contract Labour Power tongs		
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Delling		
Site Construction		\$25,000	Casing Preparation			Directional Drilling Rig Supervisor	\$550	\$5,500
Conductor		\$528	Casing Services At Rig				\$330	\$5,500
Site Maintenance (SUMP WORK)			2 7/8" Production Tubing			Open Hole Logging CBL-VDL-Perforating	_	<del></del>
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services					· · · · · · · · · · · · · · · · · · ·
Water Hauling		\$100	Down Hole Completion Eqpt	[		Solids Control Equipment	\$50	\$500
Waste Disposal			Wellhead		\$1,000	Rental Equipment	\$30	\$500
Transport		\$2,000	Wellhead - Completion		7.1000	Lost and Damaged Equipment Camp	-	
Cranes			Surface Cement and Additives		\$481	Timewriting	+	
Rig Day Rate	\$8,150	\$89,650	Intermed. Cement & Additives	<u> </u>			+	
Rig Move Rate			Prod. Csg Cement and Additives			Pacific Inspection	6100	*****
Mud	\$2,604	\$5,724	Floating equip.		\$885	Communications	\$100	\$600
Completion Fluids			Trucking liquid mud		\$300	Stabilisers		
Bits -BIT # 3		\$9,040	Geologists	\$400	\$4,000	Baker Hughes: Fishing		
Fuel 2500 litres @ \$.0.85	\$2,125	\$6,035	Core Logging	7.55	<del>4</del> 7,000			
Surface Casing		\$30,885	Mud Engineer			0000		\$6
						DRILL WATER		- <del> </del>
			DEMARKS			Total	\$13,979	230875

		REMARKS			ψ.10,5/13	230073
General Comments:			Representative:	KEVIN DAVIS		
					:	
	· · · · · · · · · · · · · · · · · · ·					
WELL NAME	VELLV4	<del></del>	T ======			
	KELLY1	DATE	OCTOBER 16, 2	001 REPORT N	0	9

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Prospect		WELL NAME	REPORT NO	DAYS FROM S	PUD	DAYS VS. P	LAN		DATE		
ST JAMES SECTION PE	P161	KELLY 1	AFE-001	10	9				OCTOBER 17, 20		
	PRESENT C	PERATION @ 0630 hrs		EPTH	AFE	TD	PROGI	RESS	PLUG BACK		
Coring				390	.0 MT.	1,039	MT.	68.6	MT.		
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUN	CUMM COST		OUNT	RIG SUPERVISOR(S)			
5.5" 213.1		Drillcorp UDR 3000 rig	A\$ 254	.895	A\$ 555.0		lan Johnstone				

DDII I IMI	PITC	<b>PARAMETERS</b>
UKILLIN	a Bii S.	PARAMETERS

вп	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH			REM	ARKS	
NO.		SER NO	IADC	ŧN			(m/hr)		WOB.	(A\$)	ī	0	٥	Ļ	В	G	0	R
3	PQ core	L/year	Amber 9	213.4	176.6	63.5	2.78	nil	500	\$6.74								
<u> </u>		H2181	n/a															
										l								

## MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	OGY		WATER	LOSS		MUD CHECK				MUD	MUD COST					
(PPg)	VIS	PV	ΥP	GELS	API	CA	KE H	THP	TIME DEPTH SOURCE		TIME DEPTH SOURCE FL DEG F TYPE			DAILY \$		DAILY \$			CUMM \$
9.2	37				<u> </u>					388.0	PITS		PHPA	A\$	3,1	25	A\$	8,849	
	VOLUME ANALYSIS %								DISSOLVED IONS					ALKALINITY N			MBT		
OIL	EXL	IME	ᅃ	WATER L	38 (	IGS	SAND	Ca++	CI-	E	S SALT WT%	NO3-	SO3-	рН	PM	Pf	Mf	(ppb)	
								İ											

#### **HYDRAULICS**

ВП	L	5	PM		LINER	FLOW	PRESS	AV	EL (m/r	min)		C VEL		JET VEL	LOSSES	S AT BIT	IMPACT	HSI		PR DA	TA
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		40	80	100
3					2-3/4"	65	300	31	1	1	1	1	,	n/a							

## **DRILLING INFORMATION**

STRING WEIGHT (Ib)			TORQUE				GAS (units)	ROP's (ft/hr)				
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Formation	- Cuttings	gy @ 360m.								·		

TIME	то	HRS	
0630	0730	1.00	PQ core from 321.4 to 327.5m.
0730	0800	0.50	Survey @ 325m.
0800	1730	9.50	PQ core from 327.54 to 357.0m.
1730	1800		Flush water through HCR & choke manifold. Close HCR. Re-connect choke manifold to de-gasser.
1800	0630	12.50	PQ core from 357.0 to 390.0
L		24.0	

	DESCRIPTIO	N	OD (in)	ID (in)	LENGTH (m)		
PQ Bit	,		4.8		0.14		
PQ Rea	mer (Oversize)		4.941	. 1	0.14		
Core ba	rrel		4.5		3.38		
Top real	mer		4.941	0.26			
Landing	coupling		4.5		0.22		
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<del></del>			ļ				
вна		HRS.	TOTAL	_ENGTH	4.13		
Jars	None	HRS.	SERIAL#		1 4.10		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
122	0.50	n/a			
212	7.50	n/a			
283	misrun	n/a			
325	8.00	245	323.9		

## PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		1
KNIGHT INDUSTRIES	3		
GEOLOG AUST	1		
GEOLOG USA			
WELL ENGINEER	1		
MUD ENGINEER			
CORE LOGGER	1		
		TOTAL ON LOC.	13

LAST DRILLS							
PIT LEVEL							
BOP TEST	13/10/01						
HYD SULF							
FIRE							
SAFETY							
BOP DRILL							

WEATHER						
VISIBILITY	fine					
RAIN	all night					
TEMP - 6 AM	6					
TEMP - NOON	15					
WIND	low					

FUEL (LITRES) WA	ATER
CAMP WATER REC.	
DIESEL RIG	2.800
DIESEL USED	L.
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE -	DC ON LO	CATION	
SIZE	JTS	SIZE	JTS

## LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	
REMARKS:			TOP OF CEMENT		SURFACE				
PLUG BUMPED TO								400 psi	

## DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner ompensation		\$2,000	Intermediate Casing			Contract Labour Power tongs		
Well Report		\$5,000	Core Trays		\$4,341	Knight's Survey Team	\$100	\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$6,050
Conductor		\$528	Casing Services At Rig			Open Hole Logging		
Site Maintenance & Supplies		\$220	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$550
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment		
Transport		\$2,000	Wellhead - Completion			Accomodation	\$140	\$1,245
Cranes		\$2,000	Surface Cement and Additives		\$481	Timewriting		
Rig Day Rate	\$8,150	\$97,800	Intermed. Cement & Additives			Pacific Inspection		
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$100	\$1,000
Mud	\$3,125	\$8,849	Floating equip.		\$885	Stabilisers		
Completion Fluids			Trucking liquid mud		\$300	Baker Hughes: Fishing		
Bits -BIT # 3		\$9,040	Geologists	\$400	\$9,800	Computer Services		\$220
Fuel 7100 litres @ \$.0.85		\$6,035	Core Logging	\$400	\$1,600	Pit Liners		\$560
Surface Casing		\$30,885	Mud Engineer			DRILL WATER		\$6
						Total	\$13.015	254805

Total \$13,015 254895

REMARKS

General Comments: Contractor Representative KEVIN DAVIS

C CARGO C CAMANGARO.	<del></del>	Contractor	representative.	KEVIN DAVIS	
				** · · · · · · · · · · · · · · · · · ·	
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		<del></del>			
WELL NAME	KELLY1	DATE	OCTOBER 17, 200	1 REPORT NO	10
				TINE ON NO	10

Spir Leading 909397 043

Prospect		WELL NAME	AFE NO	REPORT NO	DAYS FROM S	PUD	DAYS VS. P	1 AN	DATE
ST JAMES SECTION PE	ST JAMES SECTION PEP161 KE		KELLY 1 AFE-001		1				BER 18, 2001
	PRESENT	OPERATION @ 0630 hrs		О	EPTH	AFE	TD	PROGRESS	PLUG BACK
Coring				427.	.0 MT.	1,039	MT.	37.0 MT.	TESS BASK
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUM	IM COST	AFE AN			RVISOR(S)
5.5" 213.1		Drillcorp UDR 3000 rig	A\$ 12,317	A\$ 267	.212	A\$ 555.0	000		nstone

Prospect		WELL NAME	AFE NO	REPORT NO	DAYS FROM S	SPUD	DAYS VS. PI	LAN	DATE	
ST JAMES SECTION PE	P161	KELLY 1	AFE-001	11	1	0		(		ER 18, 2001
	PRESENT C	PERATION @ 0630 hrs		0	EPTH	AFE	TD	PROGR		PLUG BACK
Coring				427	.0 MT.	1,039	MT.	37.0	MT.	, 100 0, 101
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUN	CUMM COST		MOUNT	RIG SUPERVISO		RVISOR(S)
5.5" 213.1		Drillcorp UDR 3000 rig	A\$ 12,317	A\$ 267	7.212	A\$ 555.0	000			nstone

BIT NO.	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH			REM	ARKS	
NO.		SER NO	IADC	žN.			(m/hr)		WOB (lb)	(A\$)	1	0	٥	L	В	G	0	R
3	PQ core	L/year	Amber 9	213.4	210.9	77.0	2.74	nil	600	\$5.64	_	_				_		<del>-</del>
		H2181	n/a			ļ			8,000						-			├─
4	PQ core	L/year	Green 9	424.0	3.0	1.5	2.0	nil	600	\$396.67		<del> </del>						├
		948701	n/a					<del></del>	6,000	4555.67								

	MUD PROPERTIES, MATERIALS ADDED, COSTS																	
MUD WT			RHEOL	OGY			WATER LOSS				MUD	CHECK		MUD			UD COST	
(ppg)	vis	PV	YP	GEL	.s	API	C	AKE H	ТНР Т	IME D	EPTH	SOURCE	FL DEG F	TYPE		DAILY \$	1	CUMM \$
8.9	35		<u> </u>							42	27.0	PITS		PHPA	A\$	577	A\$	9,426
			v	DLUME ANA	ALYSIS %						DISS	OLVED IONS		1	· · · ·	ALKALINI		
OIL	EX L	IME	OIL	WATER	LGS		IGS	SAND	Ca++	CI-	ES	SALT WT%	NO3-	SO3-	ρΗ			MBT
												1		003-	- Pn		M M1	(ppb)

	HYDRAULICS																				
вп		SI	M		LINER	FLOW	PRESS	AV	/EL (m/	min)		C VEL		JET VEL	LOSSE	S AT BIT	IMPACT	HSI	Π.		
NO				I -					Г .		1			JE. 122		AIBII	IMPACI	HSI		PR DA	ATA
1			-	1 4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		40	80	100
4	i		1	1	2-3/4"	65	500	31	,	,	,	,				1 111			170	<u> </u>	1.00
$\vdash$				-	2-3/4	03	500	31					/	n/a					l		
1					l						l										+
								Ь		Ь	L	ــــــــــــــــــــــــــــــــــــــ									

	DRILLING INFORMATION											
	STRING WEIGHT (Ib)		TORQL			GAS (units)			ROP's (ft/hr)			
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	
										- max	mile	AVG
Formatio	Formation - Cuttings											

			OPERATIONS SEQUENCE
TIME	то	HRS	
0630	1830	12.00	PQ core from 390.0 to 420.0m.
1830	1930	1.00	Safety Meeting - both crews
1930	2100	1.50	PQ core from 420.0 to 424.0m.
2100	2130	0.50	Circulate bottoms up.
2130	0030	3.00	Re-align rig supports & decking.
0030	0400	3.50	Trip out to change bits, RIH
0400	0500	1.00	PQ core from 424.0 to 427.0m.
0500	0630	1.50	Clear blocked core from barrel, and resume coring.
<b></b>			
	l	24.0	

· ,	DESCRIPTION	ON	OD (in)	ID (in)	LENGTH (m)
PQ Bit			4.8		0.14
PQ Rea	mer (Oversize)		4.941		0.14
Core ba	rrel		4.5		3.38
Top rea	mer		4.941		0.26
Landing	coupling		4.5		0.22
			<del> </del>		
	····		<del>                                     </del>		
ВНА		HRS.	TOTAL L	ENGTH	4.13
Jars	None	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
122	0.50	n/a			
212	7.50	n/a			
283	misrun	n/a			
325	8.00	245	323.9		

## PERSONNEL ON LOCATION

		LOURINGIN	
COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST	1		
GEOLOG USA			
WELL ENGINEER	1		
MUD ENGINEER			1
CORE LOGGER	1		1
		TOTAL ON LOC.	11

LAST DRILLS

PIT LEVEL	
BOP TEST	13/10/01
HYD SULF	
FIRE	
SAFETY	
BOP DRILL	

WEATHER

- TIEAT	//L/\
VISIBILITY	fine
RAIN	no
TEMP - 6 AM	6
TEMP - NOON	15
WIND	breezv

FUEL (LITRES) WATER

CAMP WATER REC.	
DIESEL RIG	2.800
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE - DC ON LOCATION

SIZE	JTS	SIZE	JTS

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	, moo xi
REMARKS:							TOP OF CEMENT		SURFACE
		<del></del>					PLUG BUMPED TO		400 psi

DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner ompensation		\$2,000	Intermediate Casing			Contract Labour Power tongs	Todays	COM
Well Report		\$5,000	Core Trays		\$4,341	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling	<del></del>	****
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$6,600
Conductor		\$528	Casing Services At Rig			Open Hole Logging	1	
Site Maintenance & Supplies		\$220	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		<del></del> -
Demobilisation			Tubing Running Services			Solids Control Equipment	<del></del>	
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$600
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment	+ + + + + + + + + + + + + + + + + + + +	
Transport		\$2,000	Wellhead - Completion			Accomodation	\$100	\$1,345
Cranes		\$2,000	Surface Cement and Additives		\$481	Timewriting	+ + + + + + + + + + + + + + + + + + + +	<b>V</b> 1,070
Rig Day Rate	\$8,150	\$105,950	Intermed. Cement & Additives			Pacific Inspection		
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$100	\$1,100
Mud	\$577	\$9,426	Floating equip.		\$885	Stabilisers	+ + + +	Ψ1,100
Completion Fluids			Trucking liquid mud		\$300	Baker Hughes: Fishing	+	
Bits -BIT #4	\$1,990	\$11,030	Geologists	\$400	\$10,200	Computer Services	+	\$220
Fuel 7100 litres @ \$.0.85		\$6,035	Core Logging	\$400	62.000	Pit Liners	+	\$560
Surface Casing	<b>———</b>	\$30,885	Mud Engineer		,		+	\$6
						DRILL WATER Total	\$12.317	267242

Total \$12,317 267212

		REMARKS			
General Comments:		Contractor	Representative: K	EVIN DAVIS	· · · · · · · · · · · · · · · · · · ·
				· · · · · · · · · · · · · · · · · · ·	
		•			
				· · · · · · · · · · · · · · · · · · ·	
WELL NAME	KELLY1	DATE	OCTOBER 18, 2001	REPORT NO	11

Pro	ospect		WELL NAME	AFE NO	REPORT NO	DAYS FROM S	BPUD	DAYS VS. F	LAN		DATE
ST JAMES SE	ECTION PE	P161	KELLY 1	AFE-001	12	1	1			OCTOE	BER 19, 2001
		PRESENT C	PERATION @ 0630 hrs	D	ЕРТН	AFI	TD	PROG	RESS	PLUG BACK	
Coring			<del>-</del>		468.	0 MT.	1,039	MT.	41.0	MT.	
LAST CAS	SING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUM	M COST	AFE A	MOUNT		RIG SUPE	RVISOR(S)
5.5"	5.5" 213.1 18.6+ Drillcorp UDR 3000 rig A\$ 12,491		A\$ 279	,703	A\$ 555,	000		lan Jot	nstone		

### DRILLING BITS, PARAMETERS

вп	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH			REM	ARKS	
NO.		SER NO	IADC	IN			(m/hr)		WOB (Ib)	(A\$)	-	0	D	L	В	G	0	R
5	PQ core	Asahi	TA120	461.6	6.4	1.8	3.66	nil	600	\$185.94		١	lew					
1		53897	n/a						8,000	] .			l	İ				
4	PQ core	L/year	Green 9	424.0	37.6	13.5	2.79	nil	600	\$31.65	٧	Vorn (	out					
		948701	n/a						8,000					•				l

#### MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	OGY		WA	TER LOSS			MU	D CHECK		MUD	MUD COST					
(PPG)	VIS	PV	ΥP	GELS	8	API	CAKE	нтн	IP TI	ME (	DEPTH	SOURCE	FL DEG F	TYPE	DAILY \$				CUMM \$
8.9	33									4	67.0	PITS		PHPA	A\$	75	i1	A\$	10,177
			vo	DLUME ANA	LYSIS %					DISSOLVED IONS						ALKALINITY			MBT
OIL	EXL	IME	ᅋ	WATER	LGS	HGS	SAI	ND	Ca++	CI-	ES	S SALT WT%	NO3-	SO3-	рН	PM	Pf	Mf	(ppb)
	,																		

#### **HYDRAULICS**

віт		SP	М		LINER	FLOW	PRESS	ΑV	EL (m/ı	min)		C VEL		C VEL		C VEL		C VEL		C VEL		C VEL		JET VEL	LOSSES AT BIT		IMPACT	HSI		PR DA	TA
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE	,	40	80	100										
5					2-3/4"	65	500	31	1	/	/	1	1	n/a																	

### **DRILLING INFORMATION**

	STRING WEIGHT (Ib)		TORQU	E			GAS (units)		ROP's (ft/hr)			
UP	DOWN	ROTATING	ROTATING ON BTM		BGG	BGG CONN		MAX	DEPTH	MAX	MIN	AVG
Formati	Formation - Core		e shale/slate w	ith quartz b	oands, occ	asional lig	iht grev der	ise sands	tone.			

TIME	то	HRS	
0630	1745	11.25	PQ core from 427.0 to 457.0 m.
1745	1800	0.25	Rig service & cut wireline
1800	1900	1.00	Survey @ 457m.
1900	2130	2.50	PQ core from 457.0 to 460.0 m.
2130	2230	1.00	Repair No.1 pump.
2230	2330	1.00	PQ core from 460.0 to 461.6 m.
2330	0330	4.00	Trip out to change bits - RIH
0330	0445	1.25	Rig service
0445	0630	1.75	PQ core from 461.6 to 468.0
		24.0	·

	*				7
	DESCRIPTION	1	OD (in)	ID (in)	LENGTH (m)
PQ Bit			4.8		0.14
PQ Ream	er (Oversize)		4.941		0.14
Core barre	el_		4.5		3.38
Top ream	er		4.941		0.26
Landing c	oupling		4.5		0.22
					1
					1
			ļ		
<u> </u>					1
		Ψ			
ВНА		HRS.	TOTAL	ENGTH	4.13
Jars	None	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
212	7.50	n/a			
283	misrun	n/a			
325	8.00	245	323.9		0.44
457	11.00	230	453.9	43.7	2.93

## PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST	1		
GEOLOG USA			
WELL ENGINEER	1		
MUD ENGINEER			
CORE LOGGER	1		
			<del></del>
			<del> </del>
		TOTAL ON LOC.	11

LAST DRI	LAST DRILLS							
PIT LEVEL								
BOP TEST	13/10/01							
HYD SULF								
FIRE								
SAFETY								
BOP DRILL								

WEAT	THER
VISIBILITY	fine
RAIN	no
TEMP - 6 AM	6
TEMP - NOON	15
WIND	breezv

FUEL (LITRES) WA	ATER
CAMP WATER REC.	
DIESEL RIG	2,800
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE - DC ON LOCATION											
SIZE	JTS	SIZE	JTS								
			1								
h											
	<del> </del>		<del></del>								

## LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1 207.1		
REMARKS:	EMARKS:						TOP OF CEMENT		SURFACE
						PLUG BUMPED TO		400 psi	

## DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	СПМ	ITEM	Today's	CUM
Land Owner ompensation		\$2,000	Intermediate Casing			Contract Labour Power tongs		
Well Report		\$5,000	Core Trays		\$4,341	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$7,150
Conductor		\$528	Casing Services At Rig			Open Hole Logging		
Site Maintenance & Supplies		\$220	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$650
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment		
Transport		\$2,000	Wellhead - Completion			Accomodation	\$100	\$1,445
Cranes		\$2,000	Surface Cement and Additives		\$481	Timewriting		
Rig Day Rate	\$8,150	\$114,100	Intermed. Cement & Additives			Pacific Inspection		
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$100	\$1,200
Mud	\$751	\$10,177	Floating equip.		\$885	Stabilisers		
Completion Fluids			Trucking liquid mud		\$300	Baker Hughes: Fishing		
Bits -BIT #4	\$1,990	\$13,020	Geologists	\$400	\$10,600	Computer Services		\$220
Fuel 7100 litres @ \$.0.85		\$6,035	Core Logging	\$400	\$2,400	Pit Liners		\$560
Surface Casing		\$30,885	Mud Engineer			DRILL WATER		\$6
				•		Total	\$12.491	279703

Total \$12,491 279703

		REMARKS				
General Comments:		Contractor I	Representative: K	KEVIN DAVIS		
<u>.                                    </u>						
·						
WELL NAME	KELLY1	DATE	OCTOBER 19, 2001	REPORT NO	12	

ART SERVICE

909397 047

Prospect		WELL NAME	AFE NO	REPO	RT NO	AYS FROM S	PUD	DAYS VS. P	LAN	DATE				
ST JAMES SECTION PER	2161	KELLY 1	AFE-001	1	3	12				OCTOBER 20, 2001			OCTOBER 20, 20	
PF	RESENT O	PERATION @ 0630 hrs			DEPTH AFE TD			E TD	PROGRESS		PLUG BACK			
Coring					512.0	MT.	840.	) MT.	44.0	MT.	MT.			
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST		CUMM COST AFE AMOUNT RIG SU		PERVISOR(S)							
5.5" 213.1	18.6+	Drillcorp UDR 3000 rig	A\$ 11,651		A\$ 300,504		A\$ 555,000			lan Johnstone				

### DRILLING BITS, PARAMETERS

BIT	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	OZZLE(S) RPM CPM			TEETH			RI	MARKS		
NO.		SER NO	IADC	IN			(m/hr)		WOB (Ib)	(A\$)	ı	0	D	L	В	G	0	R
5	PQ core	Asahi	TA120	461.6	44.4	18.3	2.43	nil	600	\$26.80		Worn out		}				
		53897	n/a						8,000		ļ	1	]	1				
6	PQ core	Asahi	TA100	506.0	6.0	2.8	2.18	nil	600	\$198.33		New						
		53959	n/a						8,000			1						

### MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	.OGY			WATER	LOSS		MUD CHECK				MUD		MUD C				
(PPg)	VIS	PV	ΥP	GEI	.s	API	CA	KE	нтн	РТ	IME C	EPTH	SOURCE	FL DEG F	TYPE		DAILY \$		CUMM \$	
8.9	36										5	10.0	PITS		PHPA	A\$	71	1	A\$	10,888
	VOLUME ANALYSIS % DISSOLVED IONS									ALKAI	JNITY		MBT							
OIL	EXI	JME	OIL	WATER	LGS	3	IGS	SAN	ID	Ca++	CI-	ES	SALT WT%	NO3-	803-	рΗ	PM	Pf	Mf	(ppb)
												T								

### **HYDRAULICS**

ВІТ		SP	M		LINER	FLOW	PRESS	ΑV	EL (m/r	nin)		C VEL		JET VEL	LOSSES	AT BIT	IMPACT	HSI		SPR DA	TA
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		40	80	100
5					2-3/4"	65	500	31	1	1	1	1	1	n/a							

#### **DRILLING INFORMATION**

	STRING WEIGHT (Ib)	TORQU	E	GAS (units) ROP's (f				ROP's (ft/h	r)			
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Formati	on - Core	Dark, hard, dens	e shale/slate w	ith quartz t	oands.							

TIME	TO	HRS	
0630	2330	17.00	PQ core from 468.0 to 506.0 m.
2330	0345	4.25	POH/RIH for bit change
0345	0630		PQ core from 506.0 to 512.0 m.
		24.0	

	DESCRIPTIO	N	OD (in)	ID (in)	LENGTH (m)
PQ Bit			4.8		0.14
PQ Rea	mer (Oversize)		4.941		0.14
Core ba	rrel		4.5		3.38
Top rear	ner		4.941		0.26
Landing	coupling		4.5		0.22
			-		
			†		
					<b></b>
ВНА		HRS.	TOTAL I	ENGTH	4.13
Jars	None	HRS.	SERIAL#		-

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
212	7.50	n/a			
283	misrun	n/a			
325	8.00	245	323.9		0.44
457	11.00	230	453.9	43.7	2.93

## PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST	1		
GEOLOG USA			
WELL ENGINEER	1		
MUD ENGINEER			
CORE LOGGER	1		
	1	TOTAL ON LOC.	11

LAST D	LAST DRILLS								
PIT LEVEL									
BOP TEST	13/10/01								
HYD SULF									
FIRE									
SAFETY									
BOP DRILL									

WEATHER								
VISIBILITY	fine							
RAIN	no							
TEMP - 6 AM	4							
TEMP - NOON	15							
WIND	moderate							
	T							

FUEL (LITRES) WA	ATER
CAMP WATER REC.	
DIESEL RIG	2,600
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE - DC ON LOCATION										
SIZE	JTS	SIZE	JTS							
	T									

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	
REMARKS:							TOP OF CEMENT		SURFACE
						•	PLUG BUMPED TO		400 psi

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Contract Labour Power tongs		
Weil Report		\$5,000	Core Trays		\$4,341	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$7,700
Conductor		0500	Casing Services At Rig			Open Hole Logging		
Site Maintenance & Supplies		\$220	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$700
Waste Disposal	•		Wellhead		\$1,000	Lost and Damaged Equipment		
Transport		\$2,000	Wellhead - Completion			Accomodation	\$100	\$1,545
Cranes		\$2,000	Surface Cement and Additives		\$481	Timewriting		
Rig Day Rate	\$8,150	\$122,250	Intermed. Cement & Additives			Pacific Inspection		
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$100	\$1,300
Mud	\$711	\$10,888	Floating equip.		\$885	Well Insurance		\$8,500
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$650
Bits -BIT #6	\$1,190	\$14,210	Geologists	\$400	\$11,000	Computer Services		\$220
Fuel 7100 litres @ \$.0.85		\$6,035	Core Logging	\$400	\$2,800	Pit Liners		\$560
Surface Casing	1	\$30,885	Mud Engineer			DRILL WATER		\$6
						Total	\$11,651	\$300,504

·		REMARKS				
General Comments:		Contractor F	Representative:	KEVIN DAVIS		
						_
			·			_
**						
						_
						-
						_
WELL NAME	KELLY1	DATE	OCTOBER 20.	2001 REPORT NO	13	

909397 049

Prospect		WELL NAME	AFE NO	REPORT NO	DAYS FROM S	PUD	DAYS VS. F	LAN		DATE
ST JAMES SECTION PE	P161	KELLY 1	AFE-001	14	1	3			ОСТО	BER 21, 2001
P	RESENT OF	ERATION @ 0630 hrs		D	EPTH	AFE	TD	PF	ROGRESS	PLUG BACK
Coring				550.	0 MT.	840.0	MT.	38	3.0 MT.	
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUM	M COST	AFE AM	OUNT		RIG SUI	PERVISOR(S)
5.5" 213.1	18.6+	Drillcorp UDR 3000 rig	A\$ 13,905	A\$ 316	,447	A\$ 555,0	000			ohnstone

DRILLING	BITS,	<b>PARAMETERS</b>
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BIT	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH			RI	MARKS	
NO.		SER NO	IADC	IN		ļ	(m/hr)		WOB (Ib)	(A\$)	1	0	D	L	В	G	0	R
5	PQ core	Asahi	TA120	461.6	44.4	18.3	2.43	nil	600	\$26.80		Wor	n out					<u> </u>
		53897	n/a	1		ŀ			8,000					l				<del> </del>
6	PQ core	Asahi	TA100	506.0	44.0	36.8	1.20	nil	600	\$27.05	"i	n hole	e"					<del></del>
		53959	n/a						8,000									

MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	OGY			WATER LOS	3				MUD CI	HECK		MUD		-	MU	D COST	
(ppg)	VIS	PV	YP	GELS		API ·	CAKE	н	THP	TIME	DEPTH		SOURCE	FL DEG F	TYPE		DAILY \$	;		CUMM \$
9.0	35							<u> </u>		•	549.0		PITS		PHPA	A\$	1,5	69	A\$	12,457
			V	DLUME ANALY	YSIS %							DISSO	LVED IONS				ALKAI	JNITY		MBT
OIL	EXL	IME	이니	WATER	LGS	н	38 S	AND	Ca+	+ 0	CI-	ES	SALT WT%	NO3-	SO3-	рН	PM	Pf	Mf	(ppb)
	L		L							l_										

### **HYDRAULICS**

BIT	<u> </u>		SPM			LINER	FLOW	PRESS	AV	EL (m/r	nin)		C VEL		JET VEL	LOSSES	AT BIT	IMPACT	HSI		SPR DA	ATA
NO	1	2	4	3	4		(ipm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		40	80	100
5			$\perp$	_		2-3/4"	65	500	31	1	1	1	1	1	n/a							
		<u>L_</u>	1																			

## **DRILLING INFORMATION**

	STRING WEIGHT (Ib)		TORQU	E			GAS (units)				ROP's (ft/h	r)
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Formation	on - Core	Dark, hard, dens	e shale/slate w	ith quartz t	oands.							

## **OPERATIONS SEQUENCE**

TIME	то	HRS	
0630	1830	12.00	PQ core from 512.0 to 537.0 m.
1830	1930		Rig service
1930	2000	0.50	BOP drill
2000	0130		PQ core from 537.0 to 547.0 m.
0130	0530		Repair & service both pumps.
0530	0630	1.00	PQ core from 547.0 to 550.0
ļ			
		24.0	

Page 1

: (	DESCRIPTIO	N.	OD (in)	ID (in)	LENGTH (m)
PQ Bit			4.8		0.14
PQ Rea	mer (Oversize)		4.941		0.14
Core bar	rrel		4.5		3.38
Top rear	mer		4.941		0.26
Landing	coupling		4.5		0.22
			ļ		
	<del></del>		ļ		
			-		
			<del>-</del>		
			<b>-</b>		
ВНА		HRS.	TOTAL L	ENGTH	4.13
Jars	None	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS	٦
212	7.50	n/a				7
283	misrun	n/a				$\neg$
325	8.00	245	323.9		0.44	$\neg$
457	11.00	230	453.9	43.7	2.93	

### PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST	1		
GEOLOG USA			
WELL ENGINEER	1		
MUD ENGINEER			
CORE LOGGER	1		
		TOTAL ON LOC	44

WEATHER							
VISIBILITY	fine						
RAIN	no						
TEMP - 6 AM	4						
TEMP - NOON	15						
WIND	moderate						

FUEL (LITRES) W	ATER
CAMP WATER REC.	
DIESEL RIG	5.150
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE -	DRILL PIPE - DC ON LOCATION											
SIZE	JTS	SIZE	JTS									

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	
REMARKS:							TOP OF CEMENT		SURFACE
						·.	PLUG BUMPED TO		400 psi

ITEM	Today's	CUM	ITEM	Today's	СПМ	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Contract Labour Power tongs		
Well Report		\$5,000	Core Trays		\$4,341	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$8,250
Conductor		\$528	Casing Services At Rig			Open Hole Logging		
Site Maintenance & Supplies		\$220	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment	1	
Water Hauling		\$100	Down Hole Completion Eqpt	<u>'</u>		Rental Equipment	\$50	\$750
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment	1	
Transport		\$2,000	Wellhead - Completion			Accomodation	\$100	\$1,645
Cranes		\$2,000	Surface Cement and Additives		\$481	Timewriting	1	
Rig Day Rate	\$8,150	\$130,400	Intermed. Cement & Additives	1		Pacific Inspection	1	
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$100	\$1,400
Mud	\$1,569		Floating equip.		\$885	Well Insurance		\$8,500
Completion Fluids	T		Trucking liquid mud		\$300	Public Liability Insurance.		\$638
Bits -BIT #6		\$14,210	Geologists	\$400	\$13,450	Computer Services	\$100	\$320
Fuel 10,025 litres @ \$.0.85	\$2,486	\$8,521	Core Logging	\$400	\$3,200	Pit Liners		\$560
			Mud Engineer			DRILL WATER		\$6
			D5114.DV0		<del></del>	Total	\$13,905	\$316,447

		REMARKS	
General Comments:		Contractor Representative:	KEVIN DAVIS
And the second s			
<u> </u>			<del></del>
WELL NAME	VELLV1	007005004	0004
VELL IVANIE	KELLY1	DATE OCTOBER 21.	2001 IREPORTINO   14

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Prospect		WELL NAME	AFE NO	REPORT NO	DAYS	DAYS FROM SPUD		DAYS VS. P	LAN		DATE	
ST JAMES SECTION PEP	161	KELLY 1	AFE-001	15						OCTOBER 22, 200		
PR	ESENT OP	ERATION @ 0630 hrs			DEPTH		AFE	го	PROG		PLUG BACK	
Coring				59	5.0	MT.	840.0	MT.	45.0	MT.		
		CONTRACTOR - RIG	DAILY COST	CU	UMM COST		AFE AMOUNT			RIG SUPERVISOR		
5.5" 213.1	18.6+	Drillcorp UDR 3000 rig	As 10,018	A\$ 32	A\$ 326,465		A\$ 555.0		lan Johnstone			

Prospect		WELL NAME			DAYS FROM S	PUD	DAYS VS. P	LAN	DATE			
ST JAMES SECTION PER	2161	KELLY 1			1	4			OCTOBER 22, 200			
PF	RESENT OF	ERATION @ 0630 hrs		EPTH	AFE	TD	PR	OGRESS PLUG BA				
Coring				595	.0 MT.	840.0	MT.	45.	0 MT.			
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUI	AM COST	AFE AM	OUNT		RIG SU	PERVISOR(S)		
5.5" 213.1	18.6+	Drillcorp UDR 3000 rig	A\$ 10,018	A\$ 32	A\$ 326,465		A\$ 555,000		lan Johnstone			

						DRILLI	ING BITS,	PARAMETER	?S									
вп	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH		Τ		EMARKS	
NO.		SER NO	IADC	IN			(m/hr)	, ,	WOB (tb)	(A\$)	1	6	D	T	В	Τ̈́	O	R
5	PQ core	Asahi	TA120	461.6	44.4	18.25	2.43	nil	600	\$26.80		Wo	n ou	<del>†                                      </del>	<del>                                     </del>	$\vdash$	$\vdash$	
		53897	n/a	1					8,000	,		1	1	Ì	-	<del> </del>	├──	
6	PQ core	Asahi	TA100	506.0	89.0	60.25	1.48	nil	600	\$13.37	"	in hol	e"	+	╁┈	<del>                                     </del>	<del>                                     </del>	
		53959	n/a	1					8,000				Ĭ		1			

MUD PROPERTIES, MATERIALS ADDED, COSTS RHEOLOGY MUD WT WATER LOSS MUD CHECK MUD MUD COST PV YP CAKE HTHP TIME DEPTH SOURCE FL DEG F TYPE DAILY \$ CUMM \$ 40 8.9 594.0 PITS PHPA 268 12,725 VOLUME ANALYSIS % DISSOLVED IONS ALKALINITY MBT OILWATER HGS SAND SALT WT% NO3-SO3рΗ PM Pf Mf (ppb)

	HYDRAULICS																				
ВІТ		SI	М		LINER	FLOW	PRESS	AV	EL (m/ı	nin)		C VEL		JET VEL	LOSSES	S AT BIT	IMPACT	HSI		SPR DA	TA
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		40	80	100
5					2-3/4"	65	500	31	1	1	1	1	1	n/a							

	STRING WEIGHT (Ib)		TORQ	JE			GAS (units)	ROP's (ft/hr)				
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Formation		Dark, hard, dens		<u> </u>	<del></del>							

			OPERATIONS SEQUENCE
TIME	то	HRS	
0630	0945	3.25	PQ core from 550.0 to 556.0 m.
0945	1015	0.50	Survey @ 556 m.
1015	0630	20.25	PQ core from 556.0 to 595.0 m.
		24.0	

Page 1

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<u> </u>	DESCRIPTION	N	OD (in)	ID (in)	LENGTH (m)
PQ E			4.8		0.14
PQ F	Reamer (Oversize)		4.941	٠.	0.14
Core	barrel		4.5		3.38
Тор	reamer		4.941		0.26
Land	ling coupling		4.5		0.22
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<u> </u>				<u> </u>	
<u> </u>					
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Ь—					
ВНА		HRS.	TOTAL L	ENGTH	4.13
Jars	None	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
212	7.50	n/a			
283	misrun	n/a			
325	8.00	245	323.9		0.44
457	11.00	230	453.9	43.7	2.93

## PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST	1		
GEOLOG USA			
WELL ENGINEER	1		
MUD ENGINEER			
CORE LOGGER	1		
		······································	
		TOTAL ON LOC	14

<u>WEATHER</u>								
VISIBILITY	fine							
RAIN	no							
TEMP - 6 AM	4							
TEMP - NOON	15							
WIND	moderate							

FUEL (LITRES) WATER								
CAMP WATER REC.								
DIESEL RIG	4,200							
DIESEL USED								
DIESEL RECEIVED								
CAMP DIESEL								
CAMP USED								

DRILL PIPE - DC ON LOCATION											
SIZE	JTS	SIZE	JTS								
		<del></del>									
		-									
	1										

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT A	r MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	MSCAI
REMARKS:			TOP OF CEMENT		SURFACE				
			PLUG BUMPED TO		400 psi				

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Contract Labour Power tongs	rodays	COM
Well Report		\$5,000	Core Trays		\$4,341	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		*
Site Construction		\$25,000	Casing Preparation	1		Rig Supervisor	\$550	\$8,800
Conductor		\$528	Casing Services At Rig			Open Hole Logging	1	
Site Maintenance & Supplies		\$220	2 7/8" Production Tubing	1		CBL-VDL-Perforating	<del>                                     </del>	
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment	<del></del>	
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$800
Waste Disposal	·.		Weilhead		\$1,000	Lost and Damaged Equipment	+ ***	4000
Transport		\$2,000	Wellhead - Completion			Accomodation	\$100	\$1,745
Cranes		\$2,000	Surface Cement and Additives		\$481	Timewriting	+ • • •	V1,110
Rig Day Rate	\$8,150		Intermed. Cement & Additives			Pacific Inspection	+	
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$100	\$1,500
Mud	\$268	212 -	Floating equip.		\$885	Well Insurance	+ #100	\$8,500
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.	+	\$638
Bits -BIT #6		\$14,210	Geologists	\$400	040.050		+	\$320
Fuel 10,025 litres @ \$.0.85			Core Logging	\$400	60.000	Computer Services	+	\$560
		222.22	Mud Engineer			Pit Liners		
		<u> </u>				DRILL WATER Total	┵	\$6

		REMARKS	Total		\$10,018	\$326,465
General Comments:			Representative:	KEVIN DAVIS		
					<del></del>	
VELL NAME	KELLY1	DATE	OCTORER 22	2001		45

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CAMP TREET WAS

F	Prospect WELL NAME				REPORT NO	DAYS FROM	SPUD	DAYS VS. F	LAN		DATE			
ST JAMES SECTION PEP161		161	KELLY 1	AFE-001	AFE-001 16 15		5	j		OCTOBER 23, 2001				
	PF	RESENT OF	ERATION @ 0630 hrs		D	EPTH A		E TD	PROG	RESS	PLUG BACK			
Coring	Coring			• •	643.	0 MT.	840.	0 MT.	MT. 48.0 MT.					
LAST CA	SING	FIT (ppg) CONTRACTOR - RIG DAILY COST CUMM COST AFE AMOUNT		MOUNT		RIG SUPERVISOR(S)								
5.5"	213.1	18.6+	Drillcorp UDR 3000 rig	A\$ 10,059	A\$ 336	A\$ 336,524		A\$ 555,000			lan Johnstone			

DRILLING .	BITS.	<b>PARAMETERS</b>
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BIT	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TEETH		REMARKS				
NO.		SER NO	IADC	IN	1		(m/hr)		WOB (lb)	(A\$)	1	0	D	L	В	G	0	R
5	PQ core	Asahi	TA120	461.6	44.4	18.25	2.43	nil	600	\$26.80		Worn out		T				
		53897	n/a						8,000		1		1	l				
6	PQ core	Asahi	TA100	506.0	137.0	67.75	2.02	nil	600	\$8.69	"i	n hol	e"		i –			
		53959	n/a	1					8,000				1					

### MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT	MUD WT RHEOLOGY WATER LOSS						MUD CHECK					MUD	MUD COST						
(PPG)	vis	PV	YP	GELS	API	CAKE	н	ТНР	TIME	DEPTH		SOURCE	FL DEG F	TYPE		DAILY \$			CUMM \$
9.0	38			<u> </u>						642.0		PITS		PHPA	A\$	30	9	A\$	13,034
			V	OLUME ANALYSIS	%				DISSOLVED IONS						ALKALINITY				MBT
OIL	EXL	IME	OIL	WATER L	GS	HGS	SAND	Ca	++ (	CI-	ES	SALT WT%	NO3-	SO3-	ρН	PM	Pf	Mf	(ppb)

#### **HYDRAULICS**

вп		S	PM		LINER	FLOW	PRESS	ΑV	EL (m/r	nin)		C VEL		JET VEL	LOSSES	S AT BIT.	IMPACT	HSI		SPR DA	ATA
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		40	80	100
5					2-3/4"	65	500	31	1	/	1	1	1	n/a							

## DRILLING INFORMATION

	STRING WEIGHT (Ib)		TORQU			GAS (units)	ROP's (ft/hr)					
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Formati	on - Core	e shale/slate w	ith quartz t	ands.								

## **OPERATIONS SEQUENCE**

TIME	TO	HRS	
0630	1130	5.00	PQ core from 595.0 to 607.0 m.
1130	1200		Rig Service
1200	1800	6.00	PQ core from 607.0 to 619.0 m.
1800	1830	0.50	Rig repair - try to change head spindle.
1830	0630		PQ core from 619.0 to 643.0 m.
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		<u> </u>	
L		24.0	

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	1 1				
	DESCRIPTIO	N	OD (in)	ID (in)	LENGTH (m)
PQ Bit			4.8		0.14
PQ Rear	ner (Oversize)		4.941		0.14
Core bar	rel		4.5		3.38
Top rean	ner		4.941		0.26
Landing	coupling		4.5		0.22
	···				
	<del></del>				
ВНА		HRS.	TOTAL L	.ENGTH	4.13
Jars	None	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
212	7.50	n/a			
283	misrun	n/a			
325	8.00	245	323.9		0.44
457	11.00	230	453.9	43.7	2.93

## PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST	1		
GEOLOG USA			
WELL ENGINEER	1		
MUD ENGINEER			
CORE LOGGER	1		
		TOTAL ON LOC.	11

WEAT	HER
VISIBILITY	cloudy
RAIN	no
TEMP - 6 AM	6
TEMP - NOON	24
WIND	strong

FUEL (LITRES) WA	ATER
CAMP WATER REC.	
DIESEL RIG	4,200
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE -	DC ON LO	CATION	
SIZE	JTS	SIZE	JTS
-			

## LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	
REMARKS:							TOP OF CEMENT		SURFACE
							PLUG BUMPED TO		400 psi

ITEM	Today's	CUM	ITEM	Today's	сим	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Contract Labour Power tongs	1.10.0.75	
Well Report		\$5,000	Core Trays		\$4,341	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$9,350
Conductor		\$528	Casing Services At Rig			Open Hole Logging		
Site Maintenance & Supplies		\$220	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$850
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment		
Transport		\$2,000	Wellhead - Completion			Accomodation	\$100	\$1,845
Cranes		\$2,000	Surface Cement and Additives		\$481	Timewriting		
Rig Day Rate	\$8,150	\$146,700	Intermed. Cement & Additives			Pacific Inspection		
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$100	\$1,600
Mud	\$309	\$13,034	Floating equip.		\$885	Well Insurance		\$8,500
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$638
Bits -BIT #6		\$14,210	Geologists	\$400	\$14,250	Computer Services		\$320
Fuel 10,025 litres @ \$.0.85		\$8,521	Core Logging	\$400	\$4,000	Pit Liners		\$560
Surface Casing		\$30,885	Mud Engineer			DRILL WATER		\$6
						Total	\$10.059	\$336 52/

			iotai		\$10,059	<b>\$336,524</b>
		REMARKS				
General Comments:		Contractor I	Representative:	KEVIN DAVIS		
			·			
			·····	· · · · · · · · · · · · · · · · · · ·		<del></del>
WELL NAME	KELLY1		OCTORER 22	2004		46
***************************************	NELLTI	DATE	OCTOBER 23.	2001 REPORT N	0	16

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Pr	rospect		WELL NAME	AFE NO	REPORT NO	DAYS FROM	PUD	DAYS VS. I	PLAN	DATE
ST JAMES S	ECTION PER	161	KELLY 1	AFE-001	17	17 16			ОСТО	BER 24, 2001
	PF	RESENT OF	ERATION @ 0630 hrs	D	EPTH	AF	E TD	PROGRESS	PLUG BACK	
Coring			•		669.	0 MT.	840.0	) MT.	26.0 MT	
LAST CAS	SING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUM	M COST	AFE A	MOUNT	RIG SUF	PERVISOR(S)
5.5"	213.1	18.6+	Drillcorp UDR 3000 rig	A\$ 11,935	A\$ 348,459		A\$ 555,000		lan Jo	ohnstone

вп	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TEETH			RI	MARKS	
NO.		SER NO	IADC	IN			(m/hr)		WOB (Ib)	(A\$)	1 0	В	L	В	G	0	R
7	PQ core	L/year	Amber 8	657.1	11.9	6.50	1.83	nil	700	\$100.00	"i	n hole'	"				
		H20001	n/a						6-8000		1	1	1				
6	PQ core	Asahi	TA100	506.0	151.1	76.00	1.99	nil	700	\$7.88	"w	orn ou	t"				
		53959	n/a						7,000			1	1				

MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT	L		RHEOL	OGY		WATER LOSS			MUD CHECK				MUD	MUD COST						
(ppg)	vis	PV	ΥP	GELS	A	PI	CAKE	н	ГНР	TIME	DEPTH		SOURCE	FL DEG F	TYPE		DAILY \$			CUMM \$
8.9	37										668.0		PITS		PHPA	A\$	99	95	A\$	14,029
	,		vc	OLUME ANALYSI	3 %							DISSO	LVED IONS				ALKAI	JNITY		MBT
OIL	EXL	IME	ᅃ	WATER	.GS	н	s s	AND	Ca4	+ (	21-	ES	SALT WT%	NO3-	SO3-	рН	PM	Pf	Mf	(ppb)
L	L																			

### **HYDRAULICS**

вп		SP	M		LINER	FLOW	PRESS	ΑV	EL (m/r	nin)		C VEL		JET VEL	LOSSES	S AT BIT	IMPACT	HSI	Ī	SPR DA	ATA
NO	1	2	3	4		(ipm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		40	80	100
7					2-3/4"	65	850	31	1	1	1	1	1	n/a							
																	-				

### DRILLING INFORMATION

	STRING WEIGHT (Ib)		TORQ	UE			GAS (units)				ROP's (ft/hr	)
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
			<u> </u>									
Formation - Core Dark, hard, den			se shale/slate v	vith quartz b	ands.		· <del></del>					

TIME	10	HRS	
0630	1230	6.00	PQ core from 643.0 to 655 m.
1230	1300	0.50	Ran deviation survey @ 655m.
1300	1330	0.50	Lubricate rig & top sheave bearings
1330	1545	2.25	PQ core from 655.0 to 657.1 m.
1545	1830	2.75	POH for bit change.
1830	1900		Safety meeting
1900	2130	2.50	RIH with new bit
2130	0130	4.00	PQ core from 657.1m to 666m.
0130	0400	2.50	Rig repair - broken pull-down rope
0400	0630	2.50	PQ core from 666.0 to 669m.
		24.0	

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	DESCRIPTIO	)N	OD (in)	ID (in)	LENGTH (m)
PQ Bit			4.8		0.14
PQ Rear	ner (Oversize)		4.941		0.14
Core bar	rel		4.5		3.38
Top rean	ner		4.941		0.26
Landing	coupling		4.5		0.22
		•			
ВНА		HRS.	TOTAL	ENGTH	4.13
Jars	None	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
212	7.50	n/a			
283	misrun	n/a			
325	8.00	245	323.9		0.44
457	11.00	230	453.9	43.7	2.93

### PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST	1		
GEOLOG USA			
WELL ENGINEER	1		
MUD ENGINEER			
CORE LOGGER	1		
			Í
		TOTAL ON LOC.	11

WEATHER					
VISIBILITY	cloudy				
RAIN	no				
TEMP - 6 AM	6				
TEMP - NOON	24				
WIND	strona				

FUEL (LITRES) W	ATER
CAMP WATER REC.	
DIESEL RIG	4.200
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE -	DC ON LO	CATION	
SIZE	JTS	SIZE	JTS

## LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	
REMARKS:							TOP OF CEMENT		SURFACE
		·					PLUG BUMPED TO 400 psi		

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Contract Labour Power tongs		
Well Report		\$5,000	Core Trays			Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.		3000	Directional Drilling		88.58.1889
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$9,900
Conductor		\$528	Casing Services At Rig			Open Hole Logging		
Site Maintenance & Supplies		\$220	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation		*	Welder		(Z) (Z) (Z)
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt		100 A 100 A	Rental Equipment	\$50	\$900
Waste Disposal			Wellhead		\$1,000%	Lost and Damaged Equipment		XVYZXXX
Transport		\$2,000	Wellhead - Completion			Accomodation	\$100	\$1,945
Cranes		\$2,000	Surface Cement and Additives			Timewriting		
Rig Day Rate	\$8,150	\$154,850	Intermed. Cement & Additives			Pacific Inspection		<b>*</b> * * * * * * * * * * * * * * * * * *
Rig Move Rate		7/8: Mil	Prod. Csg Cement and Additives		X 13	Communications	\$100	\$1,700
Mud	\$995	\$14,029	Floating equip.		\$885	Well Insurance		\$8,500
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$638
Bits -BIT #7	\$1,190	\$15,400	Geologists	\$400	\$14,650	Computer Services		\$320
Fuel 10,025 litres @ \$.0.85		\$8,521	Core Logging	\$400	\$4,400	Pit Liners		\$560
Surface Casing		SARK SENERAL SARAMETERS	Mud Engineer			DRILL WATER		\$6
				•		Total	\$11,935	\$348,4

		REMARKS	•
General Comments:		Contractor Representative: K	EVIN DAVIS
WELL NAME	KELLY1	DATE   OCTOBER 24, 2001	REPORT NO 17

F	rospect		WELL NAME	AFE NO	REPORT NO	DAYS FROM S	PUD	DAYS VS. F	PLAN	DATE
ST JAMES S	ECTION PER	161	KELLY 1	AFE-001	18	1	7		ОСТО	BER 25, 2001
	PF	RESENT OP	ERATION @ 0630 hrs			EPTH	AFE	TD	PROGRESS	PLUG BACK
Coring					720	0 MT.	840.0	MT.	51.0 MT.	
LAST CA	SING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUN	M COST	AFE AN	OUNT	RIG SUI	PERVISOR(S)
5.5"	213.1	18.6+	Drillcorp UDR 3000 rig	A\$ 12,465	A\$ 360	,924	A\$ 555,0	000	lan J	ohnstone

DRILLING B	TE DADA	METEDO
DIVILLING D	III S. PAKAI	MEIERS

BIT	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH			R	EMARKS	
NO.		SER NO	IADC	IN			(m/hr)		WOB (ib)	(A\$)	T	0	D	L	В	G	0	R
7	PQ core	L/year	Amber 8	657.1	62.9	29.00	2.17	nil	700	\$18.92		"in	hole"	•				
		H20001	n/a		<u> </u>				6,000			1	١.	l				
6	PQ core	Asahi	TA100	506.0	151.1	76.00	1.99	nil	700	\$7.88		"wor	n out		<del>                                     </del>			
		53959	n/a						7,000			1						

## MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT	<u> </u>		RHEOL	OGY			WATER LOSS					MUD CHECK							MU	JD COST	г
(ppg)	VIS	PV	ΥP	GEL	.s	API	API CAKE HTHP		1 7	IME	DEPTH	_	SOURCE	FL DEG F	TYPE	DAILY		Y \$		CUMM \$	
9.2	38											719.0		PITS		PHPA	A\$	78	36	A\$	14,815
	VOLUME ANALYSIS %										DISSOL	VED IONS		ALKALINITY				MBT			
OIL	EXL	IME	OIL	WATER	LGS	3	HGS	SAN	D	Ca++	CI-		ES	SALT WT%	NO3-	SO3-	ρН	PM	Pf	Mf	(ppb)
				i										1							

## **HYDRAULICS**

ВІТ		LP	м		LINER	FLOW	PRESS	AV	EL (m/ı	nin)	C VEL JET VEL LOSSES AT BIT IMPACT HSI		LOSSES AT BIT		HSI	SPR DATA		TA			
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		50	85	100
7	75				2-3/4"	65	850	31	1	1	1	1	1	n/a					200	500	

#### **DRILLING INFORMATION**

	STRING WEIGHT (Ib)		TORQ	UE			GAS (units)		ROP's (ft/hr)			
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Formati	on - Core	Dark, hard, dens	o shala/alata u			<u> </u>		L				

TIME	TO	HRS	
0630	1400	7.50	PQ core from 669.0 to 691.0 m.
1400	1445	0.75	Repair hydraulic oil leak
1445	1630		PQ core from 691.0 to 694.0 m.
1630	1645	0.25	BOP drill - Procedure test.
1645	1830	1.75	PQ core from 694.0m to 696.0m
1830	1900	0.50	Safety Meeting.
1900	0630	11.50	PQ core from 696.0 to720.0 m.
L			
L			
		24.0	

	DESCRIPTIO	N	OD (in)	ID (in)	LENGTH (m)
PQ Bit	-		4.8		0.14
PQ Rear	mer (Oversize)		4.941	·	0.14
Core bai	rel		4.5		3.38
Top rear	ner		4.941		0.26
Landing	coupling		4.5		0.22
ВНА		HRS.	TOTAL L	ENGTH	4.13
Jars	None	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
556	12.00	226	550.9	63.1	1.29
655	12.25	226	647.7	83.6	0.25

## PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST	1		
GEOLOG USA			
WELL ENGINEER	1		
MUD ENGINEER			
CORE LOGGER	1		
		TOTAL ON LOC.	11

WEAT	THER				
VISIBILITY         fine           RAIN         no           TEMP - 6 AM         6           TEMP - NOON         24					
RAIN	no				
TEMP - 6 AM	6				
TEMP - NOON	24				
WIND	sliaht				

FUEL (LITRES) WA	TER
CAMP WATER REC.	
DIESEL RIG	5,600
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE -	DC ON LO	CATION	
SIZE	JTS	SIZE	JTS
	•	•	

## LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	
REMARKS:	MARKS:						TOP OF CEMENT		SURFACE
							PLUG BUMPED TO		400 psi

ITEM	Today's	СПМ	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Contract Labour Power tongs		
Well Report		\$5,000	Core Trays		\$4,341	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation		2	Rig Supervisor	\$550	\$10,450
Conductor		\$528	Casing Services At Rig			Open Hole Logging		
Site Maintenance & Supplies	\$264	\$484	2 7/8" Production Tubing		\$ 15 K	CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt		X.	Rental Equipment	\$50	\$950
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment		
Transport	\$220	\$2,220	Wellhead - Completion			Accomodation	\$100	\$2,045
Cranes		\$2,000	Surface Cement and Additives		\$481	Timewriting		
Rig Day Rate	\$8,150	\$163,000	Intermed. Cement & Additives			Pacific Inspection		
Rig Move Rate		V	Prod. Csg Cement and Additives		70.00	Communications	\$100	\$1,800
Mud	\$786	\$14,815	Floating equip.		\$885	Well Insurance		\$8,500
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$638
Bits -BIT #7		\$15,400	Geologists	\$400	\$15,050	Computer Services	1	\$320
Fuel 11,725 litres @ \$.0.85	\$1,445	\$9,966	Core Logging	\$400	\$4,800	Pit Liners		\$560
Surface Casing		\$30,885	Mud Engineer			DRILL WATER		\$6

·		DEMARKS	Total	\$12,46	65 \$360,924
		REMARKS			
General Comments:		Contractor	Representative:	KEVIN DAVIS	
		<del></del>			
WELL NAME	IZELI VA	<u> </u>	L COTORED OF		1 40
AAELT MAIAIE	KELLY1	DATE	OCTOBER 25,	2001 IREPORT NO	18

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Р	Prospect WELL NAME		AFE NO	REPORT NO	EPORT NO DAYS FROM SPU		UD D	DAYS VS. PL		AN DATE				
ST JAMES S	ECTION PER	161	KELLY 1	AFE-001	19		18				OCTOBER 26, 2001			
	PF	RESENT OF	D	EPTH	AF		E TD		RESS	PLUG BACK				
Pulling out to	pick up trip	ole-tube co	re-barrel.		758	0 N	1T.	840.0	MT.	38.0	MT.			
LAST CA		FIT (ppg) CONTRACTOR - RIG DAILY COST		CUN	CUMM COST AFE AMO		AFE AMOU	NT			ERVISOR(S)			
5.5"	213.1	18.6+	Drillcorp UDR 3000 rig	A\$ 10,059	A\$ 370	A\$ 370,983		A\$ 555,000			lan Johnstone			

DRILLING	BITS.	PARA	METE	RS

BIT	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH			RI	EMARKS	
NO.		SER NO	IADC	iN	.		(m/hr)		WOB (Ib)	(A\$)	1	0	D	L	В	G	0	R
7	PQ core	L/year	Amber 8	657.1	100.9	50.50	2.00	nil	700	\$11.79		"in	hole"	1		_	<del>                                     </del>	
		H20001	n/a						6,000			1	1	1	_		<u> </u>	-
											_		<u> </u>	·		$\vdash$		
												i	1	1				

MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT	L.		RHEOL	OGY		WATER	LOSS	S MUD CHECK							MU			D COS	г
(ppg)	vis	PV	ΥP	GELS	API	CA	KE	нтнр	TIM	E D	EPTH	SOURCE	FL DEG F	MUD		DAILY S			CUMM \$
9.2	37									7	50.0	PITS		PHPA	A\$	30		A\$	15,124
			v	DLUME ANALYSI	3 %						DI	SSOLVED IONS				ALKAL			MBT
OIL	EXL	IME	ᅃ	WATER	.gs	HGS	SAND	) с	a++	CI-	ES	SALT WT%	NO3-	SO3-	ρН	PM	Pf	Mf	(ppb)
								1	- 1		ļ								

### **HYDRAULICS**

вп	<u></u>	L	M		LINER	FLOW	PRESS	AV	EL (m/r	nin)		C VEL		JET VEL	LOSSES	AT BIT	IMPACT	HSI		SPR DA	\TA
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE	1101	50	85	100
7	75				2-3/4"	65	900	31	1	1	1	1	,	n/a					200	500	
																				-	

## DRILLING INFORMATION

STRING WEIGHT (Ib)			TORQU	E			GAS (units)				ROP's (ft/hr)			
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG		
				L										
Formati	on - Core	Dark, hard, dens	e shale/slate w	ith quartz t	oands.									

0630 0400 21.50 PQ core from 720.0 to 758 m.  0400 0445 0.75 Ran deviation survey  0445 0630 1.75 Start pulling out to change core barrel. (Geologist request to run triple tube into target zone)	TIME	10	HKS	
0400 0445 0.75 Ran deviation survey  0445 0630 1.75 Start pulling out to change core barrel. (Geologist request to run triple tube into target zone)	0630	0400	21.50	PQ core from 720.0 to 758 m.
0445 0630 1.75 Start pulling out to change core barrel. (Geologist request to run triple tube into target zone)	0400	0445	0.75	Ran deviation survey
	0445	0630	1.75	Start pulling out to change core barrel. (Geologist request to run triple tube into target zone)
	<u> </u>			
	<del></del>			
	<b></b>			
	<del> </del>			
	<b></b>			
24.0	L		24.0	

<u> </u>	<u> </u>			
DESCRIPTION		OD (in)	ID (in)	LENGTH (m)
PQ Bit		4.8		0.14
PQ Reamer (Oversize)		4.941		0.14
Core barrel		4.5		3.38
Top reamer		4.941		0.26
Landing coupling		4.5		0.22
ВНА	HRS.	TOTAL L	ENGTH	4.13
Jars None	HRS.	SERIAL#		

	AZIMUTH	TVD	V SEC	DLS
12.00	226	550.9	63.1	1.29
12.25	226	647.7	83.6	0.25
				10.7

#### **PERSONNEL ON LOCATION**

			•
COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
GEOLOG AUST	1		
GEOLOG USA			l
WELL ENGINEER	1		
MUD ENGINEER			
CORE LOGGER	1		
		TOTAL ON LOC.	11

LAST DRILLS

PIT LEVEL	
BOP TEST	13/10/01
HYD SULF	
FIRE	
SAFETY	
BOP DRILL	20/10/01

WFATHER

VVEA	INEK
VISIBILITY	fine
RAIN	no
TEMP - 6 AM	6
TEMP - NOON	24
WIND	calm

FUEL (LITRES) WATER

FUEL (LITRES) WA	NIEK
CAMP WATER REC.	
DIESEL RIG	5,600
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE - DC ON LOCATION

SIZE	JTS	SIZE	JTS

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	
REMARKS:							TOP OF CEMENT		SURFACE
							PLUG BUMPED TO		400 psi

DAILY COST BREAKDOWN

ITEM	Today's	сим	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Contract Labour Power tongs		
Well Report		\$5,000	Core Trays		\$4,341	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$11,000
Conductor		\$528	Casing Services At Rig			Open Hole Logging		
Site Maintenance & Supplies		\$484	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$1,000
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment		
Transport		\$2,220	Wellhead - Completion			Accomodation	\$100	\$2,145
Cranes		\$2,000	Surface Cement and Additives		\$481	Timewriting		
Rig Day Rate	\$8,150	\$171,150	Intermed. Cement & Additives			Pacific Inspection		
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$100	\$1,900
Mud	\$309	\$15,124	Floating equip.		\$885	Well Insurance		\$8,500
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$638
Bits -BIT #7		\$15,400	Geologists	\$400	\$15,450	Computer Services		\$320
Fuel 11,725 litres @ \$.0.85		\$9,966	Core Logging	\$400	@C 000	Pit Liners		\$560
Surface Casing		\$30,885	Mud Engineer			DRILL WATER		\$6

Total \$10,059 \$370,983

REPORT NO

	REMARKS	
General Comments:	Contractor Representative:	KEVIN DAVIS
Lost 1152 litres mud in 24 hrs		
		:

DATE

OCTOBER 26, 2001

WELL NAME

KELLY1

19

909397 061

Prospect		WELL NAME	AFE NO	REPORT NO	DAYS FROM S	PUD	DAYS VS. P	LAN		DATE
ST JAMES SECTION PEP	161	KELLY 1	AFE-001	20	1	9			OCTO	BER 27, 2001
PR	ESENT OP	ERATION @ 0630 hrs		D	EPTH	AFE	TD	PROG	RESS	PLUG BACK
Coring				798	0 MT.	840.0	MT.	39.4	MT.	72500.000
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUN	M COST	AFE AN	OUNT	30.1		PERVISOR(S)
5.5" 213.1	18.6+	Drillcorp UDR 3000 rig	A\$ 16,467	A\$ 387	.450	A\$ 555.0				hnstone

BIT	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH			R	EMARKS	
NO.		SER NO	IADC	IN			(m/hr)		WOB (Ib)	(A\$)		0	В	L	В	G	0	R
7	PQ2 core	L/year	Amber 8	657.1	100.9	50.50	2.00	nil	700	\$11.79		re-ru	nable	9"	<del>                                     </del>	_		<del>-                                    </del>
<u> </u>		H20001	n/a						6,000		ļ			Ī	<u> </u>	-	<u> </u>	<del></del>
8	PQ3 core	D&B	Н9	758.6	39.4	19.50	2.02		700	\$30.20	<u> </u>	"dri	lling"	Щ.	<u> </u>		_	<del></del>
		039292							4,000	******			g	f				

MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	OGY			WATE	R LOSS					MUDC	HECK		MUD	П		MU	D COS	т
(PPg)	vis	PV	ΥP	GEL	s	API	С	AKE	нтн	РТ	IME	DEPTH	1	SOURCE	FL DEG F	TYPE		DAILY S			CUMM \$
9.2	37	L										797.0	o	PITS		PHPA	A\$			A\$	15,124
	γ		V	DLUME ANA	LYSIS %								DISSO	DLVED IONS				ALKAI	JNITY		MBT
OIL	EXL	IME	ᅃ	WATER	LGS	3	HGS	SAN	ID	Ca++	CI		ES	SALT WT%	NO3-	SO3-	рН	PM	Pf	Mf	(ppb)

#### **HYDRAULICS**

вят	L.,	LP	M		LINER	FLOW	PRESS	ΑV	EL (m/ı	nin)		C VEL		JET VEL	LOSSES	S AT BIT	IMPACT	HSI		SPR DA	TΑ
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		50	85	100
8	75				2-3/4"	65	800	31	1	1	1	1	1	n/a					250	550	
									ĺ												

### **DRILLING INFORMATION**

	STRING WEIGHT (Ib)		TORQU	JE .			GAS (units)				ROP's (ft/h	r)
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Formati	on - Core	Dark, hard, dens	se shale/slate w	ith quartz h	nands				L			

#### **OPERATIONS SEQUENCE**

TIME	то	HRS	
0630	0930	3.00	POH, change core barrel & ran back in hole
0930	1830	9.00	PQ3 triple tube ore from 758.0 m. to 776.0 m.
1830	1930	1.00	Ran survey @ 775 m.
1930	0300	7.50	PQ3 triple tube ore from 776.0 m. to 796.0 m.
0300	0330	0.50	Monitor well for flow - No flow. (Gas detector peak @ 70 units from +/- 795m.)
0330	0630	3.00	PQ3 core from 796.0 m. to 798.0 m.
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<del> </del>			
<b> </b>			
		24.0	

Page I

	DESCRIPTION	N .	OD (in)	ID (	in)	LENGTH (m)
PQ3 Bit			4.8			0.135
PQ Rea	mer (Oversize)		4.941			0.135
Core ba	rrel		4.5			3.38
Top rear	mer		4.941			0.26
Landing	coupling		4.5			0.26
ВНА		HRS.	TOTAL I	LENGT	ГН	4.17
Jars	None	HRS.	SERIAL#			

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
556	12.00	226	550.9	63.1	1.29
655	12.25	226	647.7	83.6	0.25
755	14.00 (?)	225			

#### PERSONNEL ON LOCATION

	MOOMINE O	LOCATION	
COMPANY	NO.	COMPANY	NO.
DRILLCORP	7		
KNIGHT INDUSTRIES	1		
Geologist - AUST	1		
Geologist - USA			
WELL ENGINEER	1	77	
MUD ENGINEER			
CORE LOGGER	1		
	-		
		TOTAL ON LOC.	11

## LAST DRILLS

PIT LEVEL	
BOP TEST	13/10/01
HYD SULF	
FIRE	
SAFETY	
BOP DRILL	20/10/01

## WEATHER

	7121
VISIBILITY	fine
RAIN	showerv
TEMP - 6 AM	6
TEMP - NOON	24
MIND	breezv

### FUEL (LITRES) WATER

CAMP WATER REC.	
DIESEL RIG	4.000
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

#### **DRILL PIPE - DC ON LOCATION**

SIZE	JTS	SIZE	JTS
	+ ***		
			1
	++		<del> </del>
	.1 1		i
			i

## LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	5.5" 71		· 17 lb/ft	L80	PW	3.0m	213.1	207.1	
REMARKS:			TOP OF CEMENT		SURFACE				
<u> </u>			PLUG BUMPED TO		400 psi				

## DAILY COST BREAKDOWN

ITEM	Today's	СПМ	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Contract Labour Power tongs		
Well Report		\$5,000	Core Trays	\$1,092	\$5,433	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$11,550
Conductor		\$528	Casing Services At Rig			Open Hole Logging		
Site Maintenance & Supplies		\$484	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$1,050
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment		
Transport (DrillCorp Mud)	\$3,500	\$5,720	Wellhead - Completion			Accomodation	\$100	\$2,245
Cranes	-	\$2,000	Surface Cement and Additives		\$481	Timewriting	11	
Rig Day Rate	\$8,150	\$179,300	Intermed. Cement & Additives			Pacific Inspection		
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$100	\$2,000
Mud		\$15,124	Floating equip.		\$885	Well insurance		\$8,500
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$638
its -BIT #8 \$1,190 \$16,59			Geologists	\$400	\$15,850	Computer Services		\$320
Fuel 12,825 litres @ \$.0.85	uel 12,825 litres @ \$.0.85 \$935 \$10,90			\$400	\$5,600	Pit Liners		\$560
Surface Casing		\$30,885	Mud Engineer			DRILL WATER		\$6

Total \$16,467 \$387,450 REMARKS

General Comments:		Contractor Representative:	KEVIN DAVIS	
	<del></del>	· · · · · · · · · · · · · · · · · · ·		
			<del></del>	
			· · · · · · · · · · · · · · · · · · ·	
WELL NAME	KELLY1	DATE OCTOBER 27	7, 2001 REPORT NO	20

# Victoria Petroleum Inc Daily Drilling Report - KELLY #1

Prospect		WELL NAME	AFE NO	REPORT N	, Inax	/S FROM S	DUD					
ST JAMES SECTION PEP	161	KELLY 1	AFE-001	21				DAYS VS. PLAN		OCTOBER 28, 2		
	ESENT OF	ERATION @ 0630 hrs		DEPTH			TD	PF	ROGRESS	PLUG BACK		
Coring		<del></del>		8	15.0	MT.	840.0	MT.	47	.0 MT.		
	LAST CASING FIT (ppg) CONTRACTOR - RIG DAILY COST 5.5" 213.1 18.6+ Drillicary UDR 3000 rig As 10.103						AFE AMOUNT		RIG SUPERVISOR			
	3 213.1 18.6+ Drillcorp UDR 3000 rig A\$ 10,193 A\$ 397,643					7,643 A\$ 555,000			lan Johnstone			

DRILLING BITS,	PARAMETERS
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ВЛТ	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ					Γ -			
NO.		SER NO	IADC	IN	1		(m/hr)	,		(A\$)	TEETH			REMARKS				
7	PQ2 core	L/year	Amber 8	657.1	100.9	50.50	2.00	nil	WOB (Ib)	\$11.79	-	0	0	L	В	G	0	R
		H20001	n/a					<del> </del>	6,000	\$11.79		"re-ru I	nable	<b>;</b> "			<u> </u>	ļ
8	PQ3 core	D&B	H9	758.6	86.4	43.50	1.99	<del></del>	700	· \$13.77	-	"dri	lling"					<del> </del>
		039292							4,000		İ		<b>.</b>					

MUD PROPERTIES, MATERIALS ADDED, COSTS

	1								_					<i>-,</i>	,								
MUD WT	ļ		RHEOL	.OGY			WATER LO	oss				ML	UD CHE	CK		MUD							
(PPg)	VIS	PV	YP	GELS		GELS		API	CAKE		НТНР	TIME		EPTH			T	1	<u> </u>		MU	D COST	
9.2	38						<u> </u>			Tame	$\overline{}$				FL DEG F	TYPE	<u> </u>	DAILY S	<u> </u>		CUMM \$		
			<u>.                                    </u>	<u> </u>			<u> </u>			<u></u>	84	14.0		PITS		PHPA	A\$	44	13	A\$	15,567		
	Г —		<u> </u>	OLUME AN	ALYSIS %	<u> </u>				DISSOLVEDIONS						ALKALINITY							
OIL	EXL	IME	ᅄ	WATER	LGS	<u>в</u> н	GS	SAND	Ca	Ca++		E	,	SALT WT%	NO3-		<u> </u>				MBT		
										$\neg \neg$	CI-	<del> </del>	<del>-</del>	SALI WIN	NO3-	503-	pН	PM	Pf	Mf	(ppb)		
									——											- 1			

#### **HYDRAULICS**

1 -	1													<u> </u>								
BIT	<u></u>	ليب	LPM			LINER	FLOW	PRESS	۵ ا	A VEL (m/min)		l	C VEL		(ET ME)				-			
NO	1	2	1	3	4		//	41	$\overline{}$	T -	Γ'	_	$\overline{}$	$\overline{}$	JET VEL	LOSSE	S AT BIT	IMPACT	HSI		SPR DA	ATA
-	T	_	+	-	<u> </u>		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	.(%)	FORCE	Į.	50	85	400
1 8	75			j		2-3/4"	65	850	31	,	, , , , , , , , , , , , , , , , , , ,	·					. (10)	TORCE		30	05	100
	$\overline{}$	_	_	$\overline{}$		2.077	- 03	000	31	<u> </u>			_ / _	/	n/a		ŀ			250	550	
L	1		-1						1											230	330	
			-														1			1		

## DRILLING INFORMATION

ı		STRING WEIGHT (Ib)		TORQU	E			GAS (units)					<del></del>
ł	UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	ROP's (ft/h	r) AVG
ł	Formatic	on - Core	Dark hand do				L						
•	7 01111001	011 - 0016	Dark, hard, dens	ie shale/slate w	ith quartz l	oands, sar	ndstone se	ction from	+/-801 - 83	30			

TIME	TO	HRS	
0630	0730	24.00	PQ3 core from 798.0 m. to 845.0 m.
			(Adjust for daylight saving)
		<del></del>	
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<b> </b>			
		24.0	
		24.0	

	DESCRIPTION	ON	00.00		T
PQ3 Bit	- · · · · · · · · · · · · · · · · · · ·		OD (in)	ID (in)	LENGTH (m)
	mer (Oversize)		4.8		0.135
Core ba	rrel		4.941		0.135
Top rea			4.5		3.38
	coupling		4.941		0.26
	coupling		4.5		0.26
	<del></del>				
			T		
			<del>                                     </del>		
HA .		HRS.	TOTAL LE	NCTU	
ars	None	HRS.	SERIAL#	NGIH	4.17

	DEVIATION	AZIMUTH	TVD	14000	
556	12.00	226		V SEC	DLS
655	12.25		550.9	63.1	1.29
775		226	647.7	83.6	0.25
	14.00	225	764.7	110.3	1.31

## PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	
DRILLCORP	7	COMPANY	NO.
KNIGHT INDUSTRIES	1		
Geologist - AUST	1		
Geologist - USA			ļ <u></u>
WELL ENGINEER	1		
MUD ENGINEER	+		
CORE LOGGER	1 1		
	<u> </u>	TOTAL ON LOC.	11

## LAST DRILLS

PIT LEVEL	
BOP TEST	13/10/01
HYD SULF	197.107
FIRE	
SAFETY	
BOP DRILL	20/10/01

 и	/EA	TH	ER	
		$\neg$		

VISIBILITY	fine
RAIN	showery
TEMP - 6 AM	6
TEMP - NOON	24
WIND	breezv

## FUEL (LITRES) WATER

CAMP WATER REC.	
DIESEL RIG	4.000
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

## DRILL PIPE - DC ON LOCATION

		DATION	
SIZE	JTS	SIZE	JTS
	<del> </del>		
	<del> </del>		
		1	

## LAST CASING

CASING SIZE   TOTAL JTS		CASING SIZE	TOTAL ITO			LAST	CASING					
REMARKS:    17			TOTAL JIS		WEIGHT	GRADE	THREAD	DANIOS				
TOP OF CEMENT SURFACE			71	213.4	17 lb/ft	1.80				FLOAT AT	MSC AT	
BUIG DUMPED TO	1	REMARKS:					FVV	3.0m	213.1	207.1		
PLUC PUMPER TO	Į								TOP OF CEMENT		CURSAGE	
400 psi									PLUG BUMPED TO			
					·						400 psi	

ITEM	Today's	CUM	DAILY COST BRE			T		
Land Owner Compensation		\$2,000	Intermediate Casing	Today's	CUM	ITEM	Today's	CUM
Well Report		\$5,000	Core Trays	+	MX 2 COLUMN	Contract Labour Power tongs		D. 1919 1875
Work over prep-cost		\$5,300		<del> </del>	\$5,433	Knight's Survey Team		\$100
Site Construction		\$25,000	Liner (4.50") \$91.67/m.	<b></b>		Directional Drilling		2314 X ** T. T.
Conductor		\$528	Casing Preparation	<u> </u>		Rig Supervisor	\$550	\$12,100
Site Maintenance & Supplies		\$484	Casing Services At Rig			Open Hole Logging	+ +	Ψ, <u>2,,,ου</u>
Mobilisation		\$32,000	2 7/8" Production Tubing			CBL-VDL-Perforating	<del></del>	38 (C. ) (C. ) (C. )
Demobilisation		₩02,000	Tubing Preparation		1.00	Welder	+	300
Vater Hauling	<del></del>	94.00	Tubing Running Services			Solids Control Equipment	+	
Vaste Disposal	<del></del>	\$100	Down Hole Completion Eqpt		10 m	Rental Equipment	1-25-	
ransport (DrillCorp Mud)	<del></del>		Wellhead		\$1,000		\$50	\$1,100
cranes		\$5,720	Wellhead - Completion		186 1. 1 · V 20 00	Lost and Damaged Equipment Accomodation		
		\$2,000	Surface Cement and Additives		1.000 414 40 100		\$100	\$2,345
ig Day Rate	\$8,150	\$187,450	Intermed. Cement & Additives	<del>  </del>	2008 3000 00	Timewriting		
ig Move Rate			Prod. Csg Cement and Additives	<b></b>		Pacific Inspection		111.00
lud	\$443		Floating equip.		SOUND TO THE PARTY OF	Communications	\$100	\$2,100
ompletion Fluids			Trucking liquid mud			Well Insurance		\$8,500
ts -BIT #8			Geologists		\$300	Public Liability Insurance.		\$638
uel 12,825 litres @ \$.0.85		**************************************		\$400		Computer Services		\$320
urface Casing	1	17 . A . A . A . C . C . C . C . C . C . C	Core Logging Mud Engineer	\$400	**************************************	Pit Liners	<del>                                     </del>	\$560
		7-5,505	iviua Engineer	3832	150 90 72 72 1000	DRILL WATER	<del>                                     </del>	\$360 \$6

### Total \$10,193 \$397,643 REMARKS General Comments: Contractor Representative: KEVIN DAVIS WELL NAME KELLY1 OCTOBER 28, 2001 REPORT NO DATE 21

909397 065

								_			
			1 .55.110	REPORT N	O DAY	S FROM SPI	JD	DAYS VS. P	LAN		DATE
Prospect		WELL NAME	AFE NO							OCTO	BER 29, 2001
	404	KELLY 1	AFE-001	22		21		L			
ST JAMES SECTION PEP	161				DEPTH	. 1	AFI	E TD	PF	ROGRESS	PLUG BACK
PF	RESENT OPE	RATION @ 0630 hrs						LAT	17	70 MT.	
				1 8	362.0	MT.	840.0	) 1011.	800 CH	.0	
Waiting on Wireline Logg	e <u>rs</u>				CUMM CO	LST.	AFE A	MOUNT	1	RIG SU	PERVISOR
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST				A\$ 555			lan Jo	hnstone
		Drillcorp UDR 3000 rig	A\$ 10,153	A\$	407,796	0	A\$ 555	,000			
5.5" 213.1	10.01	Drillcorp ODK 3000 rig									

DRILLING BITS, PARAMETERS

						DRILLI	, כוום טא	PARAMETER										
								NOZZLE(S)	RPM	CPM	l	TE	ETH		Ì	RE	MARKS	
вп	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	MOZZLE(3)		(A\$)	<u> </u>	0	Тъ		В	G	0	R
	SILL	SER NO	IADC	iN			(m/hr)		WOB (Ib)	(74)	<u> </u>	Ľ			+	-		
NO.		SERNO							1	i	ł							
		1			Ì	}			1	l	Į	l	1	1			(	\ <b>!</b>
1	,				!	l	i				├	<del></del>	<del></del>	<del></del>	+			
<u>L</u> _				750.0	402.4	53.00	1.95	none	700	\$11.51	1	"95%	% wor	'n"	1	ì	1	1 /
8	PQ3 core	D&B	Н9	758.6	103.4	33.00	1.00	<del></del>	4,000	ì			T	T	1	1	i	1 1
1		039292		l				l l L	4,000	<u> </u>	<u> 1                                    </u>				Ь—			
1		033232																

							м	JD PI	ROPER	TIES,	MAT	ERIA	LS A	DDED, C	OSTS							
					$ \Gamma$					T				JD CHECK			MUD			MU	D COST	
MUD WT	L		RHEOL	OGY			WATER LOSS			<del>                                     </del>	ME	DEF	TH	SOUR	Œ	FL DEG F	TYPE	DAILY \$			CUMM \$	
(ppg)	VIS	PV	ΥP	GEL	s	API	CAI	Œ	HTHP	<del> </del> "	IME	850		PITS			PHPA	A\$	40	3	A\$	15,970
9.2	36						<u> </u>	1				000		ISSOLVED IC					ALKAL	INITY		MBT
			V	DLUME AN	ALYSIS %										T WT%	NO3-	SO3-	рН	PM	Pf	Mf	(ppb)
OIL	EXL	IME_	OIL	WATER	LGS	н	GS	SAI	ND	Ca++	<del>  '</del>	CI+		S SAL				Γ				
																L						

HYDRAULICS

											,,,	210								Ī		
													C VEL		JET VEL	LOSSES	S AT BIT	IMPACT	HSI	L	SPR DA	TA
віт			PM		- 1	LINER	FLOW	PRESS	L A V	EL (m/r	nin)		CVEL		32, 422				1	50	85	100
6"			<del></del>		_			l	DP	DC	DC	lne	DC	DC		(psi)	(%)	FORCE		100		
NO	1	1 2	3	1	4		(lpm)	(psi)	I DP	100	- 50	<del> </del>	1							250	550	
<u> </u>	<u> </u>	<del></del>	+	_		0.04411		850	31	1	1	l /	1 /	/ /	n/a							-
8	75	1	1	1	ļ	2-3/4"	65	000	1 5	<u> </u>	÷	<b>-</b>	-	-					ł	1	l '	
<u> </u>	<b>├</b>	├─	+	_	$\neg$			1	1	l	ł	1	ì	1	1		l		<u> </u>			
	1	1	1	1	- 1				1													

DRILLING INFORMATION

				DRILLIN	G INFUR	WATION_						
			TORQU	-			GAS (units)				ROP's (ft/h	)
	STRING WEIGHT (Ib)	·			BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
UP	DOWN	ROTATING	ON BTM	OFF BTM	ВСС	COM						
			<u></u>	L								
Formati	on - Core	White granite fro	om 855m.									

OPERATIONS SEQUENCE

TIME	то	HRS	
0630	1000	3.50	PQ3 core from 845.0 m. to 850 m.
	1100	1.00	Deviation survey @ 850m.
1100	1300	2.00	PQ3 core from 850.0 m. to 856.5 m.
1300	1400	1.00	Rig repair - Replace water hose & water swivel
1400	1800	4.00	PQ3 core from 865.5 m. to 862.0 m. (TD)
1800	1830	0.50	Circulate hole clean
1830	2200	3.50	Rig up & pull rods - close blind rams.
2200	0630	8.50	Start to tear down un-required equipment.
		<u> </u>	
		ļ	
		24.0	

Page i

	DESCRIPTION		OD (in)	ID (	in)	LENGTH (m)
PQ3 Bit			4.8			0.135
PQ Rean	ner (Oversize)		4.941 <sup>-</sup>			0.135
Core barı	rel		4.5			3.38
Top ream	ner		4.941			0.26
Landing of	coupling		4.5			0.26
ВНА		HRS.	TOTAL I	ENG	ГН	4.17
Jars .	None	HRS.	SERIAL#			

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
556	12.00	226	550.9	63.1	1.29
655	12.25	226	647.7	83.6	0.25
775	14.00	225	764.7	110.3	1.31
850	14.10	226	837.48	128.3	0.51

## PERSONNEL ON LOCATION

TERROTIFIED OF LOCATION								
COMPANY	NO.	COMPANY	NO.					
DRILLCORP	7							
KNIGHT INDUSTRIES	1							
Geologist - AUST	1							
Geologist - USA								
WELL ENGINEER	1							
MUD ENGINEER								
CORE LOGGER	1							
	-		<u> </u>					
	+		<u> </u>					
		TOTAL ON LOC.	11					

LAST DRILLS							
PIT LEVEL							
BOP TEST	13/10/01						
HYD SULF							
FIRE							
SAFETY							
BOP DRILL	20/10/01						

WEATHER							
VISIBILITY	fine						
RAIN	showerv						
TEMP - 6 AM	8						
TEMP - NOON	26						
WIND	breezv						

FUEL (LITRES) WATER						
CAMP WATER REC.						
DIESEL RIG						
DIESEL USED						
DIESEL RECEIVED						
CAMP DIESEL						
CAMP USED						

DC ON LO	CATION	
JTS	SIZE	JTS
	T T	DC ON LOCATION  JTS SIZE

## LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	
REMARKS:							TOP OF CEMENT		SURFACE
L					-		PLUG BUMPED TO		400 psi

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Contract Labour Power tongs		
Well Report		\$5,000	Core Trays		\$5,433	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.		36.2	Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$12,650
Conductor		\$528	Casing Services At Rig			Open Hole Logging		80 P. M. M. A.
Site Maintenance & Supplies		\$484	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation		( ) ( ) ( )	Welder		2000000
Demobilisation		\$	Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$1,150
Waste Disposal		A 2 2 2 2 2	Wellhead		\$1,000	Lost and Damaged Equipment		
Transport (DrillCorp Mud)		\$5,720	Wellhead - Completion			Accomodation	\$100	\$2,445
Cranes		\$2,000	Surface Cement and Additives		\$481	Timewriting		
Rig Day Rate	\$8,150	\$195,600	Intermed. Cement & Additives			Pacific Inspection		
Rig Move Rate		635655555555555555	Prod. Csg Cement and Additives			Communications	\$100	\$2,200
Mud	\$403	0.3072733022093305030300	Floating equip.		\$885	Well Insurance		\$8,500
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$638
Bits -BIT #8		\$16,590	Geologists	\$400	\$16,650	Computer Services		\$320
Fuel 12,825 litres @ \$.0.85		10 N 9 A 7 A 18 W	Core Logging	\$400	9822 17223	Pit Liners		\$560
Surface Casing	1		Mud Engineer		25.75	DRILL WATER		\$6
			DEMARK			Total	\$10,153	\$407,796

		REMARKS				
General Comments:		Contractor F	Representative:	KEVIN DAVIS		
				<del></del>		
Hole completed at 862.0 metres	in white granite basement.					
					:	
WELL NAME	KELLY1	DATE	OCTOBER 29, 200	1 REPORT NO		22

909397 067

Prospect		WELL NAME	AFE NO	REPORT NO	DAYS FROM S	PUD	DAYS VS.	PLAN	DATE
ST JAMES SECTION PEP1	61	KELLY 1	AFE-001	23	2	2		ОСТО	BER 30, 2001
PRE	SENT OP	ERATION @ 0630 hrs		DEPTI	l (Metres)	AFI	TD.	PROGRESS	PLUG BACK
Waiting on Wireline Logger	rs			862.	0 TD	840.0	) m	m 2	
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUM	M COST	AFE A	MOUNT	RIG SI	JPERVISOR
5.5" 213.1	18.6+	Drillcorp UDR 3000 rig	A\$ 9,710	A\$ 416	,781	A\$ 555,	000	lan J	ohnstone

	<i>PARAMETERS</i>

ВІТ	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TEI	ETH			RE	MARKS	
NO.		SER NO	IADC	IN			(m/hr)		WOB (Ib)	(A\$)	-	0	D	L	В	G	0	R
ı									]		1			ĺ				
8	PQ3 core	D&B	H9	758.6	103.4	53.00	1.95	none	700	\$11.51	"	95%	worr	า"				
		039292							4,000						1			

## MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	OGY			WATER	LOSS				MU	ID CHECK		MUD			MU	D COST	<u> </u>
(PPg)	VIS	PV	ΥP	GEL	s	API	CAI	(E	нтнр	TIM	E DE	PTH	SOURCE	FL DEG F	TYPE		DAILY \$			CUMM \$
9.2	36												PITS		PHPA	A\$			A\$	15,970
			V	DLUME ANA	LYSIS %							D	ISSOLVED IONS				ALKAL	LINITY		MBT
OIL	EXL	JME	OIL	WATER	LGS	3 1	IGS	SAND	, c	а++	CI-	€:	S SALT WT%	NO3-	so3-	рН	PM	Pf	Mf	(ppb)
	[																			

#### **HYDRAULICS**

ВІТ		LP	M		LINER	FLOW	PRESS	ΑV	EL (m/r	nin)		C VEL		JET VEL	LOSSES	AT BIT	IMPACT	HSI		SPR DA	ATA .
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		50	85	100

### DRILLING INFORMATION

	STRING WEIGHT (Ib)	·	TORQU	E			GAS (units)				ROP's (ft/i	ır)
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Formation	on - Core	White granite fro	m 855m.									

TIME	то	HRS	
0630	0630	24.00	Waiting on wire-line Loggers
			·
			:
		24.0	

	DESCRIPTIO	N	OD (in)	ID (in)	LENCTU (-)
	DESCRIPTION		CD (iii)	ID (in)	LENGTH (m)
			<u> </u>		<del></del>
		·····	<del></del>		
			1		
			<b>†</b> • • • • • • • • • • • • • • • • • • •		
			<del> </del> -		<del></del>
			1		
ВНА		HRS.	TOTAL L	ENGTH	,
Jars	None	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
556	12.00	226	550.9	63.1	1.29
655	12.25	226	647.7	83.6	0.25
775	14.00	225	764.7	110.3	1.31
850	14.10	226	837.48	128.3	0.51

### PERSONNEL ON LOCATION

	NOOMNEE O	IT EUGATION	
COMPANY	NO.	COMPANY	NO.
DRILLCORP	4		
KNIGHT INDUSTRIES	1		
Geologist - AUST	1	***	
Geologist - USA			
WELL ENGINEER	1		
MUD ENGINEER			
CORE LOGGER			
		TOTAL ON LOC.	7

## LAST DRILLS

PIT LEVEL	
BOP TEST	13/10/01
HYD SULF	
FIRE	
SAFETY	
BOP DRILL	20/10/01

#### WEATHER

VVEA	INCK
VISIBILITY	fine
RAIN	none
TEMP - 6 AM	8
TEMP - NOON	26
WIND	breezy

## FUEL (LITRES) WATER

TOLL (LITTLE) VII	7121
CAMP WATER REC.	
DIESEL RIG	
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

## **DRILL PIPE - DC ON LOCATION**

SIZE	JTS	SIZE	JTS
	1	OILL	010
	+		<del></del>
	<u> </u>		
_			

## LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	
REMARKS:	REMARKS:						TOP OF CEMENT		SURFACE
						PLUG BUMPED TO		400 psi	

## DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Contract Labour Power tongs	1	
Well Report		\$5,000	Core Trays		\$5,433	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$13,200
Conductor		\$528	Casing Services At Rig			Open Hole Logging		
Site Maintenance & Supplies		\$484	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$1,200
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment		
Transport (DrillCorp Mud)		\$5,720	Wellhead - Completion			Accomodation	\$60	\$2,505
Cranes		\$2,000	Surface Cement and Additives		\$481	Timewriting		
Rig Day Rate	\$8,150	\$203,750	Intermed. Cement & Additives			Rehabilitation of Site		
Rig Move Rate			Prod. Csg Cement and Additives			Communications	\$100	\$2,300
Mud		\$15,970	Floating equip.		\$885	Well insurance		\$7,775
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$638
Bits -BIT #8		\$16,590	Geologists	\$400	\$17,050	Computer Services		\$320
Fuel 12,825 litres @ \$.0.85		\$10,901	Core Logging	\$400	\$6,800	Pit Liners	<del>                                     </del>	\$560
Surface Casing		\$30,885	Mud Engineer			DRILL WATER		\$6
			DEMARKS			Total	\$9,710	\$416,78

Total \$9,710 REMARKS

General Comments:		Contractor Re	epresentative:	KEVIN DAVIS	
Hole completed at 862.0 metres	s in white granite basement.				
				*	<del></del>
WELL NAME	KELLY1	DATE	OCTOBER 30, 2	001 REPORT NO	23
<del></del>	- 1100011	DATE	OOTOBLIN 30, 2	OUT TREPURT NO	23

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Prospect	Prospect WELL NAME AFE NO				DAYS FROM S	PUD DAYS VS. F	LAN	OCTOBER 31, 2001			
ST JAMES SECTION PE	2161	KELLY 1 AFE-001		24	2	3	ост	CTOBER 31, 2001			
PRESENT OPERATION @ 0630 hrs Wednesday 31/10/01					-l (Metres)	AFE TD	PROGRESS	PLUG BACK			
Run in hole for clean-out trip before logging.				862.	862.0 TD 840.0 m		nil				
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUM	M COST	AFE AMOUNT	RIG S	SUPERVISOR			
5.5" 213.1	18.6+	Drillcorp UDR 3000 rig A\$ 5,635		A\$ 422	,416	A\$ 555,000	lan .	lan Johnstone			

DRII I	ING	RITS	PARA	METERS
UNILL		DII 3.	FARA	MEIERS

віт	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH			RI	MARKS	
NO.		SER NO	IADC	IN	l		(m/hr)		WOB (Ib)	(A\$)	-	0	D	L	В	G	0	R
					1				1			1						
																$\Box$		
					l						<del> </del>							

## MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	OGY			WATER	LOSS		MUD CHECK						MUD			MU	D COST	Г
(ppg)	vis	PV	ΥP	GEL	s	API	CA	KE	нтнр	TIM	Ε	DEPTH	S	OURCE	FL DEG F	TYPE		DAILY \$			CUMM \$
9.2	36												F	PITS		PHPA	A\$			A\$	15,970
			vo	DLUME AN	LYSIS %					DISSOLVED IONS							ALKAL	INITY		MBT	
OIL	EXI	IME	OIL	WATER	LGS	5 F	GS	SAND	С	a++	CI-	E	s	SALT WT%	NO3-	SO3-	ρН	PM	Pf	Mf	(ppb)

#### **HYDRAULICS**

BIT		LF	М		LINER	FLOW	PRESS	ΑV	EL (m/i	nin)		C VEL		JET VEL	LOSSES	AT BIT	IMPACT	HSI		SPR DA	TA
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		50	85	100
L		1																			

#### **DRILLING INFORMATION**

	STRING WEIGHT (Ib)		TORQU			GAS (units)		ROP's (ft/hr)				
UP	UP DOWN ROTATING			OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Format	tion - Core	m 855m.										

TIME	то	HRS	
0630	1830	12.00	Waiting on wire-line Loggers
L		12.0	

	DESCRIPTION	*	OD (in)	ID (in)	LENGTH (m)
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			<b>i</b> .		
					+
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				l	1
ВНА		HRS.	TOTAL	LENGTH	
Jars	None	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
556	12.00	226	550.9	63.1	1.29
655	12.25	226	647.7	83.6	0.25
775	14.00	225	764.7	110.3	1.31
850	14.10	226	837.48	128.3	0.51

## PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	4		
KNIGHT INDUSTRIES	1		
Geologist - AUST	1		
Geologist - USA			
WELL ENGINEER	1		
MUD ENGINEER			
CORE LOGGER			
			ļ
		TOTAL ON LOC.	7

WEAT	HER
VISIBILITY	fine
RAIN	none
TEMP - 6 AM	8
TEMP - NOON	26
WIND	breezv

FUEL (LITRES) W	ATER
CAMP WATER REC.	
DIESEL RIG	
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

DRILL PIPE -	DC ON LO	CATION										
SIZE	SIZE JTS SIZE JTS											

## LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	
REMARKS:							TOP OF CEMENT		SURFACE
							PLUG BUMPED TO		400 psi

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing		4	Contract Labour Power tongs		
Well Report		\$5,000	Core Trays		\$5,433	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$13,750
Conductor		\$528	Casing Services At Rig			Open Hole Logging		
Site Maintenance & Supplies		\$484	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation		3 ×	Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$1,250
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment		
Transport (DrillCorp Mud)		\$5,720	Wellhead - Completion			Accomodation	\$60	\$2,565
Cranes		\$2,000	Surface Cement and Additives	Ĭ	\$481	Timewriting		70.00
Rig Day Rate	\$4,075	\$207,825	Intermed. Cement & Additives			Rehabilitation of Site		
Rig Move Rate		WYKE KIN 42 3	Prod. Csg Cement and Additives			Communications	\$100	\$2,400
Mud		\$15,970	Floating equip.		\$885	Well Insurance		\$7,775
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$638
Bits -BIT #8		\$16,590	Geologists	\$400	\$17,450	Computer Services		\$320
Fuel 12,825 litres @ \$.0.85		**************************************	Core Logging	\$400	\$7,200	Pit Liners		\$560
Surface Casing			Mud Engineer		X	DRILL WATER		\$6

· · · · · · · · · · · · · · · · · · ·	Total	* 1 0	\$5,635	\$422,410
REMARKS				

General Comments:		Contractor F	Representative:	KEVIN DAVIS		
Night shift crew departed site 2pm	n 29th October, 2001					
					:	
WELL NAME	KELLY1	DATE	OCTOBER 31,	2001 REPORT NO		24

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Prospect		WELL NAME	AFE NO	REPORT NO	DAYS FROM S	PLAN	DATE					
ST JAMES SECTION PER	2161	KELLY 1	25	2	4		NOVE	MBER 1, 2001				
PRESENT OPERATION @	hursday 1/11/01	DEPTI	DEPTH (Metres) AFE TD PROGRESS				PLUG BACK					
xxx .					0 TD	840.0	) m	nil				
LAST CASING FIT (ppg) CONTRACTOR - RIG DAILY COST					M COST	AFE A	MOUNT	RIG SUPERVISOR				
5.5" 213.1	18.6+	Drillcorp UDR 3000 rig	A\$ 10,401	A\$ 432	A\$ 432,817		000	1				

#### DRILLING BITS, PARAMETERS

ВІТ	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	N	OZZLE(S	S)	RPM	СРМ		TE	ETH			RE	MARKS	
NO.		SER NO	IADC	IN			(m/hr)				WOB (ib)	(A\$)	1	0	٥	٦	В	G	0	R
																	Ī			
1																	1			

### MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	.ogy			WATER LO	SS				ML	JD CHE	CK		MUD			MU	D COST	r
(ppg)	VIS	PV	ΥP	GELS	3	API CAKE HTH		HTHP	TIME	TIME DEPTH		SOURCE		FL DEG F	TYPE	DAILY \$				CUMM \$	
																PHPA	A\$			A\$	15,970
	VOLUME ANALYSIS %									DISSOLVED IONS							ALKALINITY				MBT
OIL	EXI	IME	ᅃ	WATER	LG	s н	GS	SAND	Ca	++	CI-	E	S	SALT WT%	NO3-	so <sub>3</sub> .	рН	PM	Pf	Mf	(ppb)

#### **HYDRAULICS**

віт		LP	м		LINER	FLOW	PRESS	A VEL (m/min)		A VEL (m/min)		C VEL		C VEL		JET VEL	LOSSES AT BIT		IMPACT	HSI		SPR DATA	
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		50	85	100		
														·									

#### **DRILLING INFORMATION**

	STRING WEIGHT (Ib)		TORQU	E			GAS (units)				ROP's (ft/h	r)
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Formati	Formation - Core											

TIME	то	HRS	
0630	0900	2.50	Run in hole for clean out trip
0900	1000		Circulate bottoms up.
1000	1230		Trip out
1230	1300	0.50	Rig up wireline loggers.
1300	1830	5.50	Log hole
		12.0	

	DESCRIPTIO	N	OD (in)	ID (in)	LENGTH (m)
	_				
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	<del> </del>		<u> </u>	ļ	
			4		<u> </u>
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			<del>                                     </del>	ļ	
	· · ·				-
ВНА		HRS.	TOTAL	LENGTH	
Jars	None	HRS.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
556	12.00	226	550.9	63.1	1.29
655	12.25	226	647.7	83.6	0.25
775	14.00	225	764.7	110.3	1.31
850	14.10	226	837.48	128.3	0.51

### PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	4		
KNIGHT INDUSTRIES	1		
Geologist - AUST	1		
Geologist - USA			
WELL ENGINEER	1		
MUD ENGINEER		· · · · · · · · · · · · · · · · · · ·	
CORE LOGGER			
		TOTAL ON LOC.	7

LAST DRILLS

PIT LEVEL					
BOP TEST	13/10/01				
HYD SULF					
FIRE					
SAFETY					
BOP DRILL	20/10/01				

WEATHED

WEAT	HER
VISIBILITY	fine
RAIN	none
TEMP - 6 AM	8
TEMP - NOON	26
WIND	breezv

FUEL (LITRES) WATER

TOLL (LITTLE) WATER					
CAMP WATER REC.					
DIESEL RIG					
DIESEL USED					
DIESEL RECEIVED					
CAMP DIESEL					
CAMP USED					

DRILL PIPE - DC ON LOCATION

SIZE	JTS	SIZE	JTS						
			}						
	I T								

### LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	•
REMARKS:	REMARKS:						TOP OF CEMENT		SURFACE
							PLUG BUMPED TO		400 psi

DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Space Analysis - Amdell		
Well Report		\$5,000	Core Trays		\$5,433	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor	\$550	\$14,300
Conductor		<b>\$528</b>	Casing Services At Rig			Open Hole Logging		
Site Maintenance & Supplies		\$484	2 7/8" Production Tubing		100	CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$1,300
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment		
Transport (DrillCorp Mud)		\$5,720	Wellhead - Completion			Accomodation	\$140	\$2,705
Cranes		\$2,000	Surface Cement and Additives		\$481	Timewriting		
Rig Day Rate	\$4,075	\$211,900	Intermed. Cement & Additives			Rehabilitation of Site		
Rig Move Rate		3.0	P & A Cement	\$442	\$442	Communications	\$100	\$2,500
Mud		\$15,970	Floating equip.		\$885	Well Insurance		\$7,775
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$638
Bits -BIT #8		\$16,590	Geologists	\$4,916	\$22,366	Computer Services		\$320
Fuel 12,825 litres @ \$.0.85		KARMINE NEWSTREET,	Core Logging	\$128	\$7,328	Pit Liners		\$560
Surface Casing		\$30,885	Pontifex Petrology Tests	1		DRILL WATER		\$6

Total \$10,401 \$432,817

General Comments:		Contractor Representative: KEVIN DAVIS						
				:				
WELL NAME	KELLY1	DATE	NOVEMBER 1, 2001	REPORT NO	25			

### Victoria Petroleum Inc Daily Drilling Report - KELLY #1

909397 073

Sign of the State of the

Prospect ST JAMES SECTION PEP161				AFE-001		DAYS FROM S		S. PLAN		
PRESENT OP			KLLLII	AFE-001	26	25		Τ.		MBER 2, 2001
CXX		, 0000 1113			862.	(Metres)	840.0 m		nii	PLUG BACK
LAST CAS	SING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUM	M COST	AFE AMOUNT			PERVISOR
5.5"	213.1	18.6+	Drillcorp UDR 3000 rig	A\$ 19,335	A\$ 452	,152	A\$ 555,000	1		

ו ווסח	INIC DITE	PARAMETE	DC
DRILL	JING DII 3.	PARAMEIC	T.S

вп	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH			RI	EMARKS	
NO.		SER NO	IADC	IN		_	(m/hr)		WOB (Ib)	(A\$)	1	0	۵	7	В	G	0	R
									1								<b>——</b>	
								· · · · · · · · · · · · · · · · · · ·						<b></b>				
									1		_	T -		Γ				

MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	OGY			WATER LO	38		MUD CHECK				MUD			MU	D COST		
(ppg)	vis	PV	ΥP	GEL	s	API	CAKE	н	THP	TIME	DEPTH		SOURCE	FL DEG F	TYPE		DAILY \$			CUMM \$
					[		<u> </u>	<u> </u>			<u> </u>	<u> </u>			PHPA	A\$			A\$	15,970
			V	DLUME ANA	LYSIS %							DISSOL	VED IONS				ALKAI	LINITY		MBT
OIL	EXL	IME	ᅃ	WATER	LGS	з н	GS	SAND	Ca+	+	CI-	ES	SALT WT%	NO3-	sos-	рН	PM	Pf	Mf	(ppb)
									ľ											

### **HYDRAULICS**

ВІТ	<u> </u>	LP	м		LINER	FLOW	PRESS	AV	EL (m/ı	min)		C VEL		JET VEL	LOSSES	AT BIT	IMPACT	HSI		SPR DA	ATA
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		50	85	100
L																					

#### **DRILLING INFORMATION**

	STRING WEIGHT (Ib)		TORQL	JE			GAS (units)				ROP's (ft/h	r)
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
			<u> </u>						L			
Formati	on - Core											

### **OPERATIONS SEQUENCE**

TIME	TO	HRS	
0630	1800	11.50	Suvery Loggers Surveying Wellhole
1800	1830	0.50	R.I.H HWT Fro Cementing
			·
		12.0	

	DESCRIPTIO	N ;	OD (in)	ID (in)	LENGTH (m)
,	٠				
				-	
			1		
	-				
	·				1
ВНА		HRS.	TOTAL	LENGTH	
Jars	None	HRS.	SERIAL#		•

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
556	12.00	226	550.9	63.1	1.29
655	12.25	226	647.7	83.6	0.25
· 775	14.00	225	764.7	110.3	1.31
850	14.10	226	837.48	128.3	0.51

### PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	4		
KNIGHT INDUSTRIES	1		
Geologist - AUST			
Geologist - USA			
WELL ENGINEER			
MUD ENGINEER	1		
CORE LOGGER			
Survey Loggers	2		
		TOTAL ON LOC.	7

# PIT LEVEL BOP TEST 13/10/01 HYD SULF FIRE SAFETY

BOP DRILL

WEATHER						
VISIBILITY	fine					
RAIN	none					
TEMP - 6 AM	8					
TEMP - NOON	26					
WIND	breezv					

FUEL (LITRES) WATER							
CAMP WATER REC.							
DIESEL RIG							
DIESEL USED							
DIESEL RECEIVED							
CAMP DIESEL							
CAMPLISED							

DRILL PIPE -	DRILL PIPE - DC ON LOCATION								
SIZE	JTS	SIZE	JTS						
	† †								
	++								
	+								

### LAST CASING

	CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
	5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	
REM	ARKS:							TOP OF CEMENT		SURFACE
								PLUG BUMPED TO		400 psi

### DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Space Analysis - Amdell		
Well Report		\$5,000	Core Trays		\$5,433	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor		\$14,300
Conductor		\$528	Casing Services At Rig			Open Hole Logging	15000	\$15,000
Site Maintenance & Supplies		\$484	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		\$2.00
Demobilisation			Tubing Running Services			Solids Control Equipment		¥ 100 1.
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$1,350
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment		X EAL
Transport (DrillCorp Mud)		\$5,720	Wellhead - Completion			Accomodation	\$110	\$2,815
Cranes		\$2,000	Surface Cement and Additives		\$481	HP Deskjet 840 C		
Rig Day Rate	\$4,075	\$215,975	Intermed. Cement & Additives			Rehabilitation of Site		
Rig Move Rate		200	P & A Cement		\$442	Communications	\$100	\$2,600
Mud		\$15,970	Floating equip.	l	\$885	Well Insurance		\$7,775
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$638
Bits -BIT #8		\$16,590	Geologists		\$22,366	Computer Services		\$320
Fuel 12,825 litres @ \$.0.85		AND VARIOUS PROGRAM	Core Logging		\$7,328	Pit Liners		\$560
Surface Casing		200000000000000000000000000000000000000	Pontifex Petrology Tests	1		DRILL WATER		\$6
	* ******	•	-			Total	\$19,335	\$452,152

REMARKS

General Comments: Contractor Representative: KEVIN DAVIS

WELL NAME KELLY1 DATE NOVEMBER 2, 2001 REPORT NO 26

### Victoria Petroleum Inc Daily Drilling Report - KELLY #1

909397 075

Prospect	<u> </u>	WELL NAME	AFE NO	REPORT NO	DAYS FROM S	PUD	DAYS VS. F	PLAN		DATE
ST JAMES SECTION PER	2161	KELLY 1	AFE-001	27	20	3			NOVE	MBER 3, 2001
PRESENT OPERATION @	0630 hrs			DEPTI	i (Metres)	AFE	TD	PF	ROGRESS	PLUG BACK
XXX				862.	0 TD	840.0	) m	n	ill .	
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUM	M COST	AFE A	TAUON		RIG SU	PERVISOR
5.5" 213.1	18.6+	Drillcorn UDR 3000 rig	AS 5.125	As 457	.277	A\$ 555.	000			

DRII I	ING	RITS	PARA	METERS
URIL	_////	DII 3.	FARE	INELEKS

вп	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NO	ZZLE(S	3)	RPM	СРМ		TE	ETH			RE	MARKS	
NO.		SER NO	IADC	IN			(m/hr)				WOB (lb)	(A\$)	1	0	D	L	В	G	0	R
$\Box$																				
														l						
				1																ł

### MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT			RHEOL	.OGY			WATER LOSS	3			M	UD CHE	СК		MUD			MU	D COS1	•
(ppg)	VIS	PV	ΥP	GEL	s	API	CAKE	нт	НР	TIME	DEPTH		BOURCE	FL DEG F	TYPE		DAILY \$			CUMM \$
															PHPA	A\$	40	00	A\$	16,370
			V	OLUME ANA	ALYSIS 9	<b>k</b>						DISSOLV	ED IONS				ALKAI	YTINL		MBT
OIL	EXI	IME	OIL	WATER	LG	SS H	GS S	AND	Ca++	CI	- E	8	SALT WT%	NO3-	503-	рН	PM	Pf	Mf	(ppb)

### **HYDRAULICS**

ВІТ		LP	м		LINER	FLOW	PRESS	ΑV	EL (m/r	nin)		C VEL		JET VEL	LOSSES	AT BIT	IMPACT	HSI		SPR DA	TA
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		50	85	100

#### **DRILLING INFORMATION**

	STRING WEIGHT (Ib)		TORQ	νE			GAS (units)				ROP's (ft/h	1)
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
	ŀ											
Formati	ion - Core				,							

### **OPERATIONS SEQUENCE**

TIME	то	HRS	
0630	0830	2.00	R.I.H HWT Rods to 622 meters
0830	1000	1.50	Mix Cement plug @ 622 meters and displace with Mud ( 35 meters of Hole Volume )
1000	1230	2.50	P.O.O.H Back to 223 meters and pump V.R Plug, Cement and displace with Mud
1230	1400	1.50	P.O.O.H to Surface
1400	1600	2.00	Wait on Cement
1600	1630	0.50	Pressure Test cement plug
1630	1830	2.00	Rig down B.O.P
		12.0	

,	DESCRIPTION		OD (in)	ID (in	<u>,                                    </u>	ENGTH (m)
	DECORAL HON	•	00 ()	10 (111	<del>'   `</del>	LING III (III)
					-	
				-	十	
					+-	
	· · · · · · · · · · · · · · · · · · ·				$\dashv$	
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					_	
					$\dashv$	
				-		
	· · · · · · · · · · · · · · · · · · ·					
ВНА		HRS.	TOTAL	LENGTH		
Jars	None	HRS.	SERIAL#	T		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
556	12.00	226	550.9	63.1	1.29
655	12.25	226	647.7	83.6	0.25
775	14.00	225	764.7	110.3	1.31
850	14.10	226	837.48	128.3	0.51

### PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	4		
KNIGHT INDUSTRIES	1		
Geologist - AUST			
Geologist - USA			
WELL ENGINEER			
MUD ENGINEER			
CORE LOGGER			
Survey Loggers			
			<u> </u>
	1 1	TOTAL ON LOC.	5

### LAST DRILLS

PIT LEVEL	
BOP TEST	13/10/01
HYD SULF	
FIRE	
SAFETY	
BOP DRILL	20/10/01

#### WEATHER

VVEAI	nek
VISIBILITY	fine
RAIN	none
TEMP - 6 AM	8
TEMP - NOON	26
WIND	breezv

#### FUEL (LITRES) WATER

FUEL (LITRES) WA	11EN
CAMP WATER REC.	
DIESEL RIG	
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

### DRILL PIPE - DC ON LOCATION

	<del></del>	<u> </u>	
SIZE	JTS	SIZE	STL

### LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	r MSC AT
5.5"	71	213.4	17 lb/ft L80		PW	3.0m	213.1	207.1	
REMARKS:		TOP OF CEMENT		SURFACE					
		PLUG BUMPED TO		400 psi					

### DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	CUM
Land Owner Compensation		\$2,000	Intermediate Casing			Space Analysis - Amdell		
Well Report		\$5,000	Core Trays		\$5,433	Knight's Survey Team		\$100
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.			Directional Drilling		
Site Construction		\$25,000	Casing Preparation			Rig Supervisor		\$14,300
Conductor		\$528	Casing Services At Rig			Open Hole Logging		\$15,000
Site Maintenance & Supplies		\$484	2 7/8" Production Tubing			CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt			Rental Equipment	\$50	\$1,400
Waste Disposal			Wellhead		\$1,000	Lost and Damaged Equipment		
Transport (DrillCorp Mud)		\$5,720	Wellhead - Completion			Accomodation		\$2,815
Cranes		\$2,000	Surface Cement and Additives		\$481	HP Deskjet 840 C		
Rig Day Rate	\$4,075	\$220,050	Intermed. Cement & Additives		*	Rehabilitation of Site		
Rig Move Rate		19.5	P & A Cement	\$500	\$942	Communications	\$100	<b>\$2,700</b>
Mud	\$400	\$16,370	Floating equip.		\$885	Well Insurance		\$7,775
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$638
Bits -BIT #8		\$16,590	Geologists		\$22,366	Computer Services		\$320
Fuel 12,825 litres @ \$.0.85		\$10,901	Core Logging		\$7,328	Pit Liners		\$560
Surface Casing		\$30,885	Pontifex Petrology Tests			DRILL WATER		\$6

Total

\$5,125 \$457,277

		REMARKS		Dismission of the Control of the Con	WHEN THE STREET STREET
General Comments:		Contractor F	Representative:	KEVIN DAVIS	
					•
					:
				r	
WELL NAME	KELLY1	DATE	NOVEMBER 3, 20	01 REPORT NO	27

### Victoria Petroleum Inc Daily Drilling Report - KELLY #1

909397 077

Prospect		WELL NAME	AFE NO	REPORT NO	DAYS FROM S	PUD	DAYS VS. I	PLAN	DATE
ST JAMES SECTION PEP	161	KELLY 1	AFE-001	28	27	7		NOV	EMBER 4, 2001
PRESENT OPERATION @	0630 hrs			DEPTI	l (Metres)	AFI	: TD	PROGRESS	PLUG BACK
XXX				862.	0 TD	840.0	) m	nii	\$
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUM	M COST	AFE A	MOUNT	RIG	SUPERVISOR
5.5" 213.1	18.6+	Drillcorn UDR 3000 rig	As 461	.562	A\$ 555.	000	1		

DRII I	ING	RITS	<b>PARAMETERS</b>	

вп	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ETH			RE	MARKS	
NO.		SER NO	IADC	IN			(m/hr)		WOB (Ib)	(A\$)	-	0	D	L	В	G	0	R
				!											<u> </u>			l

### MUD PROPERTIES, MATERIALS ADDED, COSTS

MUD WT	RHEOLOGY WATER LOSS									MUD CHECK							MUD COST					
(ppg)	VIS	PV	ΥP	GEL	s	API	C/	CAKE HT		IP TIME		DEPTH	TH SOURCE		FL DEG F TYPE		DAILY \$				CUMM \$	
																PHPA	A\$			A\$		
	VOLUME ANALYSIS %									DISSOLVED IONS						ALKALINITY			INITY		MBT	
OIL	EX L	IME	OIT)	WATER	LG	s	HGS	SAN	ID	Ca++	CI	.   .	s	SALT WT%	NO3-	SO3-	ρН	PM	ы	Mf	(ppb)	

### **HYDRAULICS**

віт		LP	M		LINER	FLOW	PRESS	ΑV	A VEL (m/min)		A VEL (m/min)		VEL (m/min)		A VEL (m/min) C VEL JET VEL LOSSES AT BIT IMPACT HS		C VEL		C VEL		LOSSES AT BIT		LOSSES AT BIT		HSI	HSI SPR DAT		TA
NO	1	2	3	4		(ipm)	(psi)	DP	DC	DC	DΡ	DC	DC		(psi)	(%)	FORCE		50	85	100							

### **DRILLING INFORMATION**

	STRING WEIGHT (Ib)		TORQU	É			GAS (units)				ROP's (ft/h	r)
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG
Formati	on - Core											

### **OPERATIONS SEQUENCE**

TIME	то	HRS	
0630	1830	12.00	Rig down equipment
	<u> </u>		
	ļ		
		12.0	

909397 078 OD (in) ID (in) LENGTH (m) DEPTH DEVIATION AZIMUTH TVD V SEC DLS <u>12.00</u> 556 226 550.9 63.1 1.29 655 12.25 226 647.7 83.6 0.25 775 14.00 225 764.7 110.3 1.31 850 226 128.3 14.10 837.48 0.51 PERSONNEL ON LOCATION COMPANY NO. COMPANY NO. DRILLCORP 3 KNIGHT INDUSTRIES Geologist - AUST Geologist - USA WELL ENGINEER MUD ENGINEER CORE LOGGER Survey Loggers BHA HRS TOTAL LENGTH Jars None HRS. SERIAL# TOTAL ON LOC. LAST DRILLS **WEATHER** FUEL (LITRES) WATER DRILL PIPE - DC ON LOCATION PIT LEVEL VISIBILITY fine CAMP WATER REC SIZE JTS BOP TEST RAIN DIESEL RIG none HYD SULF TEMP - 6 AM 8 DIESEL USED FIRE TEMP - NOON DIESEL RECEIVED 26 SAFETY WIND CAMP DIESEL breezv BOP DRILL CAMP USED LAST CASING CASING SIZE TOTAL JTS LENGTH WEIGHT GRADE THREAD RANGE SHOE AT FLOAT AT MSC AT 5.5" 71 213.4 17 lb/ft L80 PW 3.0m 213.1 207.1 REMARKS: TOP OF CEMENT SURFACE LUG BUMPED TO 400 psi DAILY COST BREAKDOWN ITEM Today's CUM Today's CUM ITEM CUM Today's \$2,000 and Owner Compensation ntermediate Casing Space Analysis - Amdell \$5,000 \$5,433 Well Report \$100 Core Trays Knight's Survey Team \$5,300 Work over prep-cost Liner (4.50") \$91.67/m. Directional Drilling \$25,000 \$14,300 Site Construction Casing Preparation Rig Supervisor \$528 \$15,000 Conductor Casing Services At Rig Open Hole Logging \$484 Site Maintenance & Supplies 2 7/8" Production Tubing CBL-VDL-Perforating Mobilisation \$32,000 **Tubing Preparation** Welder Demobilisation Tubing Running Services Solids Control Equipment Water Hauling \$100 Down Hole Completion Eqpt \$1,400 Rental Equipment Waste Disposal Wellhead \$1,000 Lost and Damaged Equipment Transport (DrillCorp Mud) \$5,720 Wellhead - Completion \$2,815 Accomodation Cranes \$2,000 Surface Cement and Additives \$481 \$210 \$210 HP Deskjet 840 C \$4,075 \$224,125 Rig Day Rate Intermed. Cement & Additives Rehabilitation of Site Rig Move Rate P & A Cement \$942 \$2,700 Communications Mud \$16,370 Floating equip. \$885 \$7,775 Well Insurance Completion Fluids Trucking liquid mud \$300 \$638 Public Liability Insurance. Bits -BIT #8 \$16.590 Geologists \$22,366 **\$320** Computer Services \$10,901 Fuel 12,825 litres @ \$.0.85 Core Logging \$7,328 \$560. Pit Liners \$30,885 Surface Casing Pontifex Petrology Tests DRILL WATER \$6 Total \$4.285 \$461,562 REMARKS **General Comments:** Contractor Representative: **KEVIN DAVIS** 

**WELL NAME** 

DATE

KELLY1

28

NOVEMBER 4, 2001 REPORT NO

### Victoria Petroleum Inc Daily Drilling Report - KELLY #1

Final Report

Prospect		WELL NAME	AFE NO	REPORT NO	DAYS FROM S	PUD	DAYS VS.	PLAN	DATE
ST JAMES SECTION	N PEP161	KELLY 1	AFE-001	29	2	В		NOVE	MBER 5, 2001
PRESENT OPERATION	ON @ 0630 hrs	to1700	hrs	DEPTI	l (Metres)	AFE	TD	PROGRESS	PLUG BACK
XXX				862.	0 TD	840.0	m	nil	
LAST CASING	FIT (ppg)	CONTRACTOR - RIG	DAILY COST	CUM	M COST	AFE AM	OUNT	RIG S	UPERVISOR
5.5" 21:	3.1 18.6+	Drillcorp UDR 3000 rig	A\$ 17,696	A\$ 479	,257	A\$ 555,0	00		

### DRILLING BITS, PARAMETERS

ВІТ	SIZE	MFR	TYPE	DEPTH	Metres	HOURS	AV ROP	NOZZLE(S)	RPM	СРМ		TE	ЕТН			RE	MARKS	
NO.		SER NO	IADC	IN			(m/hr)		WOB (lb)	(A\$)	-	0	٥	٦	В	G	0	R
						]												
1									1									

### MUD PROPERTIES, MATERIALS ADDED, COSTS

	T									T			JD CHE			MUD				D COS	
MUD WT	<del> </del>		RHEOL	.061			WATER	LUSS	-	<del>                                     </del>		WIC	JU CHE	:CK	T	, mob				0 003	
(PPg)	VIS	PV	YP	GEL	.s	API	CAK	E I	ITHP	TIMI	E C	EPTH		SOURCE	FL DEG F	TYPE		DAILY \$			CUMM \$
		1	1		`											PHPA	A\$			A\$	
			V	OLUME AN	ALYSIS %								ISSOL	VED IONS		•		ALKAI	LINITY		MBT
OIL	EXI	IME	OIL	/WATER	LGS	Н	GS	SAND	Ca	9++	CI-	Ε	S	SALT WT%	NO3-	SO3-	рН	PM	Pf	Mf	(ppb)
																					ĺ

### **HYDRAULICS**

віт		LP	М		LINER	FLOW	PRESS	ΑV	EL (m/r	nin)		C VEL		JET VEL	LOSSES	S AT BIT	IMPACT	HSI		SPR DA	TA
NO	1	2	3	4		(lpm)	(psi)	DP	DC	DC	DP	DC	DC		(psi)	(%)	FORCE		50	85	100

### DRILLING INFORMATION

	STRING WEIGHT (Ib)		TORQ	JE			GAS (units)		ROP's (ft/hr)				
UP	DOWN	ROTATING	ON BTM	OFF BTM	BGG	CONN	TRIP	MAX	DEPTH	MAX	MIN	AVG	
Forma	tion - Core												

### **OPERATIONS SEQUENCE**

TIME	то	HRS	
0630	1700	1130.00	Wash Rig Down and all associated eqipment
			Finsh packing and shift all eqipment to a nearby farm
			Rig released at 1700hrs
			Note The Landowner, Mr Jim Kelly has contracted to rehabilitate the site to his own ,the Operators and the DNRE's sa
			This is the final Drilling Report
			·
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		1130.0	

	0000				
	DESCRIPTION		OD (in)	ID (in)	LENGTH (m)
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<del>                                     </del>			<u> </u>		
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┝			<del> </del>		<del>-  </del>
<del>                                     </del>			<u> </u>		
<u> </u>					
ВНА	·	HRS.	TOTAL	ENGTH	
Jars	None	HRS.	SERIAL#	LINGIN	<u>-</u>
0413	INOTIE	I iiks.	SERIAL#		

DEPTH	DEVIATION	AZIMUTH	TVD	V SEC	DLS
556	12.00	226	550.9	63.1	1.29
655	12.25	226	647.7	83.6	0.25
775	14.00	225	764.7	110.3	1.31
850	14.10	226	837.48	128.3	0.51

### PERSONNEL ON LOCATION

COMPANY	NO.	COMPANY	NO.
DRILLCORP	3		
KNIGHT INDUSTRIES	1		
Geologist - AUST			
Geologist - USA			
WELL ENGINEER			
MUD ENGINEER			
CORE LOGGER			
Survey Loggers			
		TOTAL ON LOC.	4

LAST DINI	LLO
PIT LEVEL	
BOP TEST	13/10/01
HYD SULF	
FIRE	
SAFETY	

BOP DRILL

WEATHER				
VISIBILITY	fine			
RAIN	none			
TEMP - 6 AM	8			
TEMP - NOON	30			
WIND	breezv			

FUEL (LITRES) W	ATER
CAMP WATER REC.	
DIESEL RIG	
DIESEL USED	
DIESEL RECEIVED	
CAMP DIESEL	
CAMP USED	

SIZE	JTS	SIZE	JTS

LAST CASING

CASING SIZE	TOTAL JTS	LENGTH	WEIGHT	GRADE	THREAD	RANGE	SHOE AT	FLOAT AT	MSC AT
5.5"	71	213.4	17 lb/ft	L80	PW	3.0m	213.1	207.1	
REMARKS:									SURFACE
PLUG BUMPED TO 400 psi							400 psi		

DAILY COST BREAKDOWN

ITEM	Today's	CUM	ITEM	Today's	CUM	ITEM	Today's	СПМ
Land Owner Compensation		\$2,000	Intermediate Casing			Space Analysis - Amdell	\$222	\$222
Well Report		\$5,000	Core Trays		OF 400	Knight's Survey Team	\$2,500	\$2,600
Work over prep-cost		\$5,300	Liner (4.50") \$91.67/m.		88000000000000000000000000000000000000	Directional Drilling		1 2 2 2 3 5
Site Construction		\$25,000	Casing Preparation		560000000000000000000000000000000000000	Rig Supervisor		\$14,300
Conductor		\$528	Casing Services At Rig		888888935577 668	Open Hole Logging	2448.2	\$17,448
Site Maintenance & Supplies		\$484	2 7/8" Production Tubing		20000000000000000	CBL-VDL-Perforating		
Mobilisation		\$32,000	Tubing Preparation			Welder		13843 2 650
Demobilisation			Tubing Running Services			Solids Control Equipment		
Water Hauling		\$100	Down Hole Completion Eqpt		38882022777768000000	Rental Equipment		\$1,400
Waste Disposal	\$1,000	\$1,000	Wellhead		100000000000000000000000000000000000000	Lost and Damaged Equipment		\$8.25° 783
Transport (DrillCorp Mud)		\$5,720	Wellhead - Completion			Accomodation		\$2,815
Cranes		\$2,000	Surface Cement and Additives		\$481	HP Deskjet 840 C		\$210
Rig Day Rate	\$4,075	\$228,200	Intermed. Cement & Additives		V0002000000000000000000000000000000000	Rehabilitation of Site	\$7,000	\$7,000
Rig Move Rate			P & A Cement		23/88/22/28/22 % 500	Communications		\$2,700
Mud		\$16,370	Floating equip.		\$885	Well Insurance		\$7,775
Completion Fluids			Trucking liquid mud		\$300	Public Liability Insurance.		\$638
Bits -BIT #8		\$16,590	Geologists		200	Computer Services		\$320
Fuel 12,825 litres @ \$.0.85			Core Logging		# 07/000	Pit Liners		\$560
Surface Casing			Pontifex Petrology Tests	\$308	6200	DRILL WATER	\$142	\$148

Total	\$17.696 \$479.257
<del></del>	AND A SECURITION OF THE PROPERTY OF THE PROPER

		REMARKS		-19.00 45.60±1.00 95.45.400.15.	Marks our residence
General Comments:		Contractor I	Representative: Ri	ck Armstrong	
· · · · · · · · · · · · · · · · · · ·					
WELL NAME	KELLY1	DATE	NOVEMBER 5, 2001	REPORT NO	29

**APPENDIX 2** 

BIT RECORD/DEVIATION SURVEYS

	CORE	RUN		PULL &	REPLACE TUBE			
DEF	PTH	TII	ΜE	Start Pull	Latched back in	Minutes to	Minutes to	Coring rate
Start	Finish	Start	Finish	Time	Time	Core	Pull	m/hr
553	556	8:19	9:10		10:00	0:51	0:50	3.53
556	559	10:20	11:12		11:43	0:52	0:31	3.46
559	562	11:43	12:28		13:02	0:45	0:34	4.00
562	565	13:02	13:50		14:22	0:48	0:32	3.75
565	568	14:22	15:05		15:40	0:43	0:35	4.19
568	571	13:40	16:20		17:05	2:40	0:45	4.00
571	574	17:05	17:45		18:45	0:40	1:00	4.50
574	577	18:45	19:35		20:15	0:50	0:40	3.60
577	580	20:30	21:20		22:51	0:50	1:31	3.60
580	583	22:15	23:05		23:55		0.50	3.60
583	586	23:55	0:45		1:25		0:50	3.60
586	589	1:30	2:20		3:05		0:45	3.60
589	592	3:05	3:55		4:35	<b>.</b>	0:40	3.60
592 595	595 598	4:35 6:20	5:20 7:15	//	6:05	0:45	0:45	4.00 3.27
598	601	7:51	8:35		7:51 9:08	0:55	0:36 0:33	4
601	604	9:08	9:56		10:30	0:44 0:48	0:33	4.09 3.75
604	607	10:30	11:20	11:20	12:25	0:50	1:05	3.60
607	610	12:25	13:05		13:45		0:40	4.50
610	613	13:45	14:27	4	15:08	0:42	0:41	4.29
613	616	15:08	15:46			0:38	0:40	4.74
616	619	16:26	17:10		17:20	0:44	0:10	4.09
619	622	18:45	19:30				0:40	4.00
622	625	20:14	20:55				0:35	4.39
625	628	21:45	22:30				0:38	4.00
628	631	23:18	0:00	<b></b>			0:41	4.29
631	634	0:46	1:30	01:35	02:14	0:44	0:39	4.09
634	637	2:14	3:00		03:45	0:46	0:37	3.91
637	640	3:46	4:30		05:15		0:40	4.09
640	643	5:15	6:05				0:36	3.60
643	646	4	7:26		4		0:44	3.91
646	649	8:10	8:56		4		0:46	3.91
649	652	9:42	10:22		11:16		0:44	4.09
652	655					0:40	0:40	4.09
655						0:50	6:34	2.52
657.1 660.1	660.1 663.2						0:35	3.00
663.2						4	0:35	4.13
666.3	666.3 669.4		5:20		d		0:37 0:40	4.65 4.33
669.4	672.5	6:10					0:30	5.17
672.5	675.6	7:26	8:06				0:30	4.65
675.6	678.7	8:46	9:20				0:44	5.47
678.7		10:14		10:58			0:36	5.17
681.8							0:37	4.89
684.9							0:40	4.89
688.0							0:45	5.00
691.0	4			II .			0:24	5.45
694.0	(			11			0:20	4.00
697.0				III .			0:40	4.00
700.0	•			11		<b></b>	0:40	3.90
702.6	•			41			0:40	4.65
705.7	4			11			0:40	4.03
708.8	4						0:35	4.13
711.9	ł						0:45	4.13
715.0	1			13				. 4
1/ 15.0	J / 10.U	04:05	04:55	5∥ 04:55	05:35	0:50	0:40	3.60

718.0	721.0	05:35	06:25	06:25	07:24	0:50	0:59	3.60
721.0	724.0	07:24	08:08	08:10	08:54	0:44	0:44	4.09
724.0	727.1	08:56	09:32	09:35	10:20	0:36	0:45	5.17
727.1	730.0	10:20	10:58	10:59	11:46	0:38	0:47	4.58
730.0	733.0	11:46	12:30	12:32	13:16	0:44	0:44	4.09
733.0	735.5	13:16	14:00	14:02	14:44	0:44	0:42	3.41
735.5	738.6	14:44	15:28	15:28	16:13	0:44	0:45	4.23
738.6	741.0	16:13	16:56	16:56	17:46	0:43	0:50	3.35
741.0	743.9	17:46	18:35	18:50	19:40	0:49	0:50	3.55
743.9	747.0	19:40	20:40	20:40	21:25	1:00	0:45	3.10
747.0	749.3	21:25	22:05	22:05	22:55	0:40	0:50	3.45
749.3	752.4	22:55	23:50	23:50	00:40	0:55	0:50	3.38
752.4	755.5	00:40	01:30	01:30	02:20	0:50	0:50	3.72
755.5	758.6	02:20	03:05	03:05	03:55	0:45	0:50	4.13
/-00.5	Finish	02.20	05.05	03.03	03.33	0.40	0.50	4.19
Start	Depth		1					m/hr
758.6	761.7	09:28	10:10	10:10	10:54	0:42	0:44	4.43
761.7	764.7	10:54	11:32	11:32	12:10	0:38	0:38	4.74
764.7	767.7	12:10	12:46	12:52	14:08	0:36	1:16	5.00
767.7	770.7	14:08	14:40	14:42	15:32	0:32	0:50	5.63
770.7	773.7	15:34	16:04	16:06	16:50	0:30	0:44	6.00
773.7	776.8	16:50	17:23	17:25	18:00	0:33	0:35	5.64
776.8	779.9	19:55	20:30	20:30	21:25	0:35	0:55	5.31
779.9	783.0	21:25	22:10	22:10	23:05	0:45	0:55	4.13
783.0	786.0	23:05	23:40	23:40	00:20	0:35	0:40	5.14
786.0	789.0	00:40	01:15	01:30	02:15	0:35	0:45	5.14
789.0	792.0	02:15	02:50	02:50	03:50	0:35	1:00	5.14
792.0	795.0	03:50	04:30	04:30	05:15	0:40	0:45	4.50
795.0	798.0	05:15	05:50	05:50	06:32	0:35	0:42	5.14
798.0	801.0	06:36	07:08	07:10	08:06	0:32	0:56	5.63
801.0	804.0	08:08	08:38	08:39	09:24	0:30	0:45	6.00
804.0	806.2	09:24	09:52	10:22	10:42	0:28	0:20	4.71
806.2	809.2	10:42	11:34	11:36	12:26	0:52	0:50	3.46
809.2	812.2	12:26	13:12	13:12	14:02	0:46	0:50	3.91
812.2	815.2	14:02	14:44	14:40	15:32	0:42	0:52	4.29
815.2	818.3	15:32	16:10	16:10	17:00	0:38	0:50	4.89
818.3	821.3	17:00	17:38	17:40	18:45	0:38	1:05	4.74
821.3	824.4	18:45	19:28	19:30	20:45	0:43	1:15	4.33
824.4	827.4	20:20	21:00	21:00	21:48	0:40	0:48	4.50
827.4	830.4	21:48	22:28	22:30	23:45	0:40	1:15	4.50
830.4	833.4	23:15	23:42	23:40	00:45	0:27	1:05	6.67
833.4	836.4	00:45	01:25	01:25	02:15	0:40	0:50	4.50
836.4	839.5	02:10	02:45	02:45	04:35	0:35	1:50	5.31
839.5	842.5	04:35	05:10	05:10	05:55	0:35	0:45	5.14
842.5	845.5	05:55	06:35	06:35	07:16	0:40	0:41	4.50
845.5	848.6	07:16	07:54	07:58	08:48	0:38	0:50	4.89
848.6	851.7	08:48	09:22	09:22	11:04	0:34	1:42	5.47
851.7	854.8	11:04	11:37	12:00	12:30	0:33	0:30	5.64
854.8	856.5	12:30	13:00	13:05	14:05		1:00	3.40
856.5	859.0	14:05	15:10		15:48		0:38	2.31
859.0	862.0	15:48	17:10	17:10	17:50	1:22	0:40	2.20

Well Name:

Kelly #1

### LONG METHOD OF SURVEY COMPUTATION

### INTERPOLATION TABLE

MD OF INTERPOLATION DEPTH (feet)
TVD COORDINATE OF THE DEPTH (feet)
N/S COORDINATE OF DEPTH (feet)
E/W COORDINATE OF DEPTH (feet)

3 D DISTANCE BETWEEN STATION #1 AND STATION #2

### **DISTANCE TABLE**

STATION#1	STATION#2
600.00	600.00
300.00	400.00
100.00	300.00
223.61	ft

#### TABLE OF SURVEY STATIONS

STA	MD m	INCL deg	AZIM deg	TVD m	N+/S- m	E+/W- m	DLS deg/30m	H. Sec'n
	0	<==TIE P	OINT ==>	0.00	0.00	0.00	-	
1	0	0	245	0.00	0.00	-0.00	-	***************************************
2	80	0.5	245	80.00	-0.15	-0.32	0.62	
3	122	0.5	245	122.00	-0.30	-0.65	0.00	
4	212	7.5	245	211.72	-2.95	-6.33	7.78	
5	325	8	245	323.69	-9.39	-20.15	0.44	
6	457	11	230	453.88	-21.38	-38.12	2.93	43.71
7	<b>556</b>	11	220	551.07	-34.68	-51.43	1.93	62.03
8	641.5	11	210	635.01	-48.00	-60.75	2.23	77.43
9	741.7	11	200	733.38	-65.26	-68.80	1.90	94.83
10	850	11	200	839.69	-84.68	-75.87	0:00	113.70
11								
12								

**APPENDIX 3** 

P AND A PROGRAMME

### Abandonment Programme

### Kelly-1

Operator:

Victoria Petroleum Inc.

Basin:

Murray Basin

Permit:

PEP 161

Location

Latitude 36° 16.36' S Longitude 145° 53.08' E

Depth:

862.0 metres

**Surface Casing** 

PW 5.5" o/d. x 5.5" i/d.

Set at 213.4 m.

Hole Depth:

862 m.

Hole Size.

5" (12.7 litres/metre)

- .1. RIH with drill rods to 622 metres & circulate.
- 2. Mix 26 x 40kg bags of Class A Portland cement with 572 litres water (22 litres/bag) to make slurry volume 880 litres at SG 1.79 (14.9 ppg)
- 3. Plug No. 1: 622 m.- 590 m. Pump 440 litres slurry & displace with 4696 litres mud.
- 4. Pull up above plug to at least 550 m. & circulate out any excess cement.
- 5. POH to 223m. (10 metres below casing shoe) & circulate.
- 6. Pump VR plug & set in open hole below drill rods.
- 7. Pull back 0.5m above plug, close pipe rams & pressure test to check that plug is sealing off.
- 8. Pump Plug #2 from 223m to 193m with 440 litres cement slurry, as above.
- 9. POH to +/- 180 metres and circulate out any excess cement.
- 10. WOC a minimum of 8 hours (check surface samples)
- 11. RIH & tag cement.
- 12. Report tagged depth.
- 13. POH laying down drill pipe.
- 14. Nipple down BOP's & remove well-head flange.
- 15. Pump cement into top 10m of surface casing.
- 16. Weld on steel cover plate, with steel post extending approx. 1.5m above ground level
- 17. Attach plate showing well name, TD, spud date & rig release date.
- 18. Release Rig.

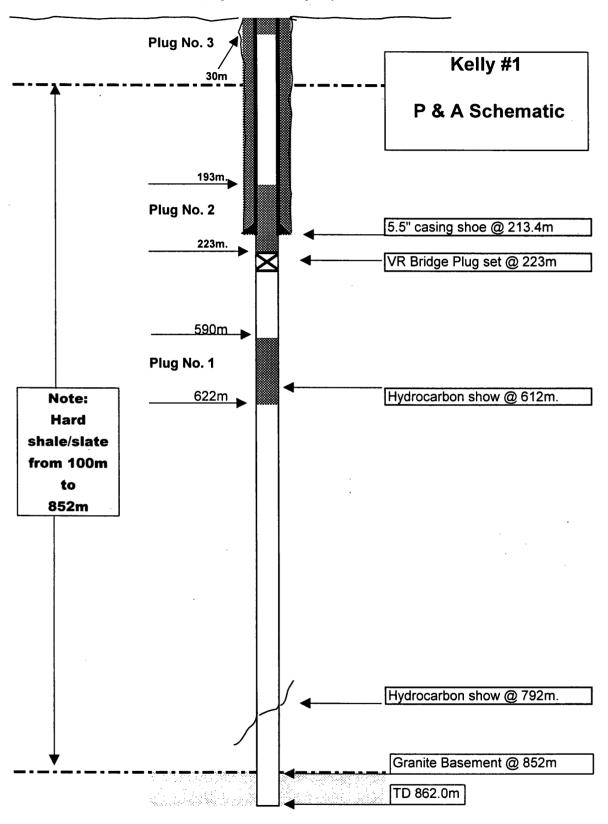
Jan Johnstone

**Drilling Supervisor** 

Drillassist Pty Ltd

### Victoria Petroleum Inc

(Knight Industries Pty Ltd)



**APPENDIX 4** 

**CUTTINGS AND CORE DESCRIPTIONS** 

### **KELLY-1 CUTTINGS DESCRIPTIONS**

0-40.0m	ALLUVIAL DEPOSITS: unconsolidated alluvial sediments,
	loose particles of clear to translucent white, fine to medium -
	grained quartz sand with minor very pale grey, sub-angular to
	sub-rounded, moderately sorted grains, and occasional
	brownish mica flakes with a fine reddish clay matrix.
40-50m	A/A, becoming more sandy, decreasing clay matrix
50-60m	A/A
60-70m	A/A
70-86m	A/A
86-100m	SHALE, dk gy to black, platy, abundant very thin crusts of
	pyrite on laminae,
	carbonaceous, gritty.
100-110m	SHALE A/A increasingly siliceous
110-120m	A/A
120-130m	A/A
140-150m	A/A
150-160m	SHALE A/A med gy to black, siliceous with minor
	SANDSTONE, med gy v f gr, v hard
160-170m	SHALE A/A and minor SST A/A
170-180m	SHALE, banded, dk gy to black, siliceous; minor SST, med gy,
	v f g , very hard
180-190m	SHALE, black, very hard, fissile, common pyrite crusts
190-200m	SANDSTONE, lt gy to med gy, v v f gr ,pervasive pyrite
200-213m	SHALE, A/A very black, very hard, fissile, common pyrite

### KELLY-1 CORE DESCRIPTIONS

213.1-215.8m	SHALE, black, siliceous, v.hard, fissile, abundant thin crusts
	pyrite, occ.quartz veinlets, fine parallel bedding? planes
	dipping approx. 50 degrees to core axis
215.8-218.4m	SHALE a/a
218.4-220.0m	SHALE a/a
220.0-224.4m	SHALE a/a, becoming paler grey
222.4-224.3m	SHALE a/a
224.3-227.3m	SHALE a/a lt grey
227.3-230.4m	SHALE a/a mineralised lens at 228.5m
230.4-233.5m	SHALE a/a dark grey, frequent pyritic mineralisation
233.5-236.5m	SHALE a/a
236.5-239.5m	SHALE a/a
239.5-242.5m	SHALE a/a becoming harder, fine secondary quartz veining
	cutting across core at random angles; occasional secondary
	calcite lenses, white, opaque, amorphous.
242.5-245.5m	SHALE a/a
245.5-248.5m	SHALE a/a gy-pale gy; at 247.5-248.0m: quartz shatter zone
	emplaced parallel to bedding plane
248.5-251.5m	SHALE a/a pale grey, becoming more massive, harder
251.5-254.5m	SHALE a/a pale to dark grey
254.5-257.5m	SHALE a/a med.grey, fractured, with common pyrite crusts
	along shear planes oblique to bedding
257.5-260.5m	SHALE a/a grey becoming paler, massive, fractured, common
	pyrite along "carbonised" shear planes( soft, black streak)
260.5-263.3mm	SHALE a/a dark grey, massive, fractured, pyritic, carbonaceous
	along fracture planes
263.3-266.5m	SHALE a/a dark grey, a/a
266.5-268.3m	SHALE a/a dark grey to black, pyritic, carbonaceous a/a,
	mylonised shear planes, common quartz infill along fractures
268.3-271.0m	SHALE a/a

271.0-272.0m	SHALE a/a
272.1-275.2m	SHALE a/a
275.2-275.7m	SḤALE a/a
275.7-276.0m	SHALE a/a
276.0-276.2m	SHALE a/a
276.2-279.2m	Mixed alternating bands of MUDSTONE, dk gy,v.f.gr, hard,
	siliceous, and SANDSTONE pale grey, v.f gr. quartzose;
	banding ranging from parallel to bedding planes to slumped
·	facies.
	At 276.9-277.9m: zone of massive mineralisation, crystalline
	pyrite, chalcopyrite, etc crystals along fracture plane.
279.2-282.3m	MIXED FACIES a/a of MUDST dk gy/ lt gy bands parallel to
	bedding planes, lt gy SST bands approx 2 cm thick between
	thicker MUDST dk gy, bands; occ calcite infill throughout core
282.3-285.4m	MIXED FACIES a/a mostly MUDST bands becoming dk gy
	to black, massive, less banding parallel to bedding, minor
	quartz infill
285.4-288.4m	MUDSTONE a/a dk gy massive, brittle, minor SST, lt gy;
	minor quartz infill
288.4-291.4m	MIXED FACIES a/a at 289-291m :increased SST banding, lt
	gy
291,4-294.4m	A/A lt-med gy, occasional quartz and pyrite infill
294.4-297.4m	A/A
297.4-300.4m	A/A becoming paler gy, abundant, calcite, pyrite
300.4-303.4m	A/A rare calcite, pyrite infill, decrease banding; solution cavity
	at 301.4m
303.4-306.4m	MIXED FACIES A/A
306.4-309.4m	A/A
309.4-312.4m	A/A
312.4-315.4m	A/A increased calcite infill
315.4-318.4m	MIXED FACIES A/A, becoming pale gy; slump
	feature/?bioturbation at 317.5m

	<b>70%</b>
318.4-321.4m	MIXED FACIES, regular parallel banding of MUDST and
	SST, lt gy
321.4-327.5m	A/A
327.5-330.5m	MIXED FACIES, becoming paler gy and, bedding planes less
	distinct and frequent banding, quartz infill, slumping /
	?bioturbation at base
330.5-333.6m	A/A, cherty throughout, increased regularity of parallel banding
	of MUDST, dk gy-black and SST, lt gy (10-20mm thick)
	at 331.75m: thin cherty layer, black, hd. massive
333.6-336.7m	A/A, cherty in part, lt gy dk gy bands parallel to bedding 10-
	40mm spacing, some quartz infill
336.7-339.7m	A/A, cherty, dk gy -black, massive, minor parallel banding
	(less frequent SST);quartz infill
339.7-342.8m	A/A becoming paler gy overall
342.8-345.9m	MIXED FACIES, alternating parallel bands of MUDST, dk gy
	and SST, lt gy, laminae about 5mm thick, dip about 50 degrees;
	cherty, minor slumping, minor quartz and calcite infill
345.9-352.0m	A/A
352.0-354.0m	A/A increased proportion of MUDST, black, band thickness;
	less frequent SST laminae (about 15mm thick)
354.0-357.0m	A/A increased quartz infill (~356.5m), minor pyrite along
	fracture breaks
357.9-360.0m	MIXED FACIES, becoming paler gy overall, regular bands of
	SST, pale gy and MUDT, dk gy about 10cm apart
	at 359.5-359.5m massive quartz infill interspersed in a slumped
	feature.
360.0-362.3m	MIXED FACIES, MUDST and SST a/a slumped, chaotic
	bedding? bioturbated,? storm event;
	at 362.3-363.0m: massive mineralised zone, pyrite,
	chalcopyrite, etc
362.3-363.3m	A/A; mineralised from 362.3-363.0m
363.3-368.3m	MIXED FACIES a/a, slumped features throughout

368.3-371.4m	A/A becoming paler gy below 370.5m; common calcite, pyrite along fractures
371.5-374.5m	A/A lt gy to dk gy, decreasing MUDST in dark gy parallel bands
374.5-377.5m	A/A increasing MUDST, darker grey and minor parallel bands SST, lt gy, cherty, occ. pyrite
377.5-380.5m	A/A lt gy, increasing bands SST, frequent quartz infill;
377.3-360.3III	at 379.5-385m - slumped interval of mixed facies
380.5-383.7m	MIXED FACIES, a/a slumped interval to 381.5m, then regular
300.3 303.7III	parallel bands (~10-20 cm width of mixed MUDST, dk gy and
	SST, lt gy, common quartz infill; hard, cherty throughout.
383.7-386.8m	MIXED FACIES a/a increase in quartz infill
386.8-389.8m	MIXED FACIES a/a, increase in MUDST becoming dk gy
	below 388.0m
389.9-392.8m	A/A, minor quartz infill
392.8-395.9m	A/A
395.9-399.0m	A/A
399.0-402.0m	A/A slumping at base
402.0405.1m	A/A
405.1-408.2m	A/A
408.2-411.3m	A/A increase in minor SST bands, lt gy~ 20 cm wide
411.3-414.3m	A/A increase in MUDST bands, dk gy
414.3-417.5m	A/A, below 414.5m; change to SST lt gy, mod soft, platy in part
417.5-420.6m	SST/SILTSTONE, vfg, lt gy, siliceous, minor secondary quartz
	infill, hard, dark "spotting" in places, ? possible metamorphic
	effect
420.6-423.0m	SST/SILTSTONE a/a, lt gy, siliceous
423.6-427.0m	420.6- 425.0m. SST/SILSTONE a/a;
	below 425.0m; MIXED FACIES with dominant MUDST,
•	black, hard, brittle siliceous, minor thin parallel SST bands, lt
	gy a/a
427.0-429.1m	MIXED FACIES a/a minor quartz infill along fractures
	1

### 909397, 094

429.1-432.0m	A/A, minor quartz infill
432.0-434.5m	A/A, minor slumping, minor quartz and mineralized lenses
434.5-436.3m	A/A massive quartz veins throughout, minor calcite, entire core
	fractured, no bedding visible
436.3-439.0m	A/A common quartz veins, some green alteration minerals
	(?chlorite)
439.0-442.0m	MIXED FACIES, dominant MUDST, dk gy -black,hard a/a
442.0-445.0m	A/A
445.0-448.0m	MUDST, a/a common quartz, pyrite infill, solution cavities
	along entire core;
	below 447.0m, MIXED FACIES, dominant MUDST bands, dk
	gy, siliceous and minor v thin SST bands ly gy ~2mm thick
448.0-451.0m	MIXED FACIES a/a
451.0-454.0m	A/A becoming paler gy
454.0-457.0m	A/A lt gy -m gy
457.0-461.5m	A/A increased in number of parallel MUDST bands, dk gy
461.5-464.5m	A/A, at 463.0-464.5m :slumped section? channel fill
464.7-467.8m	A/A
467.8-470.8m	A/A brittle fracture; at 469.5m bedding becoming disturbed
470.8-473.9m	A/A; at 469.5-470.3m disturbed section /slumped feature
473.9-477.0m	A/A occasional quartz infill
477-480.0m	A/A MIXED FACIES, dominantly MUDST a/a no bedding
	apparent, minor quartz and pyrite infill
480.0-483.0m	MUDST, a/a, dk gy, v.hard, dense, uniform, no distinct
·	bedding apparent
483.0-486.2m	A/A; minor slumping at 484.5m; minor quartz, occasional
	pyrite infill
486.2-489.3m	MIXED FACIES, MUDST a/a and minor SST a/a lt gy,
	channel fill/ slumped features, minor quartz
489.3-501.5m	MIXED FACIES A/A
501.5-504.5m	A/A
504.5-506.2m	A/A quartz infill at 505.0m
506.2-509.2m	A/A dk gy massive, dense

	00001
509.3-512.3m	A/A
512.3-515.4m	A/A
515.4-518.4m	A/A becoming less slumped/ chaotic in nature, bedding
	becoming more regular; return to alternating parallel bands of
	MUDST and SST a/a; quartz infill; at 517-518m: br-reddish
	(? iron oxide) insitu crystalline replacement along contacts of
	some quartz bands along bedding planes, possibly
	hydrothermal alteration effect.
518.4-521.5m	A/A bedding becoming more regular with dipping alternating
	bands a/a
521.5-524.6m	A/A
524.6-527.7m	A/A regular parallel interbeds of MUDST, gy bl and SST lt gy;
	dipping at about 70 degreed; minor disturbed bedding
527/7-529.5m	A/A dominantly MUDST bands, a/a, minor slumping, minor
	quartz and pyrite infill
529.5-530.8m	A/A regular banding, dipping at about 45degreed
530/8-533.9m	A/A
533.9-537.9m	A/A
537.9-540.0m	A/A occasional slumped zone, occasional br.reddish crystalline
	replacement along quartz infill
540.0-543.0m	A/A regular parallel banding
543.0-547.0m	A/A to 543.5m: Below 543.5m; MIXED FACIES, change to
	slumped channel fill/ lithology a/a. Dip varies between 70 - 90
	degrees
547.0-550.0m	A/A
550.0-553.0m	A/A
553.0-556.0m	A/A minor calcite pyrite along fractures
556.0-559.0m	A/A
559.0-562.0m	A/A bedding less disturbed, changing gradually to rhythmic
	parallel style a/a at base; dip ~ 70 degrees
562.0-565.0m	MIXED FACIES, mainly SILST, lt gy siliceous, at 565.0m
	change to minor MUDST, dk gy-bl, massive; dip ~70 degrees

565.0-568.0m	MIXED FACIES, A/A alternating parallel and disturbed
	bedding throughout core
568.0-571.0m	A/A, rhythmic parallel bedding; minor quartz bands and
	reddish -brown (? ferric) crystallisation
571.0-574.0m	Dominantly MUDST a/a, dk gy, minor calcite, pyrite
574.0-577.0m	Dominantly MUDST a/a minor parallel bands of SILTST, lt gy,
	minor calcite along fractures
577.0-580.0m	A/A, dip varies 70-90 degrees
580.0-583.0m	MIXED FACIES a/a rhythmic banding of MUDST and SILST
	throughout
583.0 -586.0m	Dominantly MUDST a/a dk gy, massive, rare bedding/laminae
586.0-589.0m	586-588m: SILTS, lt gy, siliceous, massive no bedding
	apparent
	567-589m:MUDST, bk gy a/a
589.0-592.0m	MUDST a/a pyrite along fractures
592.0-594.5m	SILST, v f gr, lt gy, massive, ? low grade metamorphic
	mottling/spotting throughout, mineralised along fractures
	at 593.5-594.5m: MIXED FACIES, MUDST and SILTST,
	channel /slump feature
594.5-594.55m	CLAY INTERBED, Clay matrix, gy-white, soft, v f gr with
	loose clasts of quartz, clear, ang- sub-ang, med-crs gr, and
	shale, dk gy.
594.5-598.0m	MIXED FACIES, a/a channel /slump feature, becoming banded
	towards base of core; dip~70-80 degrees
598.0-601.0m	MIXED FACIES, dominantly rhythmic MUDST bands with
	minor SILST, lt gy
601.0-604.0m	601.0-602.0: A/A
	602.0-604.0m, MIXED FACIES, channel/slump feature
604.0-607.0m	A/A changing to alternating rhythmic banding at base of core
607.0-610.0m	A/A dominantly MUDST, minor SILST, alternating rhythmic
	banding, fractured throughout
610.0 – 613.0m	A/A, fractured throughout, strong petroliferous odour; occ.
	calcite veining

613.0-616.0m	A/A, definite alternating banding of MUDST, dk gy and
	SILST, lt gy to 614.6m:
	614.6-616.0m: MIXED FACIES, channel /slump feature
616.0-618.5m	A/A, occ.quartz infill
618.5-622.0m	A/A
622.0-625.0m	A/A
625.0-628.0m	A/A
628.0-631.0m	A/A
631.0-634.0m	MIXED FACIES, rhythmic parallel banding of MUDST and
	SILST, quartz infill across bedding at 633.9m
634.0-637.0m	A/A, minor turbation at 635.5m; minor quartz infill, occ.
	calcite along fractures.
637.0-640.0m	MIXED FACIES, a/a, channel/slump feature; quartz infill at
	637.5-638.0m
640.0-643.0m	A/A common quartz, pyrite; dk reddish-br (ferric)
	crystallisation in part.
643.0-646.0m	A/A
646.0-649.0m	646-647.5m: A/A
	647.5-649.0m: MIXED FACIES, parallel rhythmic banding of
	MUDST and SILTST a/a
649.0-652.0m	A/A, rhythmic banding of dominant MUDST, dk gy and
	SILTST, lt gy; common pyrite
652.0-655.0m	A/A occ. pyrite
655.0-657.0m	MIXED FACIES: channel /slump feature of dominantly
	MUDST, dk gy, fractured in part, minor SILST, lt gy
657.0-660.0m	A/A
660.0-663.0m	A/A changing to parallel rhythmic banding at ~661.5m
663.0-666.3m	A/A, changing to channel/slump feature at 665.5m
666.3-669.4m	A/A channel/slump bedding
	at 668.5m: changing to parallel rhythmic banding a/a
669.4-672.5m	A/A
at 670.4-670.5m:	minor clay interbed: clay matrix, whitish, v f gr, soft, with
	clasts of quartz, clear,f-m gr, angular;

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	at 670.5m: fine layer of fractured shale/ mudstone with minor
	clay along fractures
	at 670.6m; MIXED FACIES A/A parallel banding, common
	small fractures, common calcite along breaks
672.5-675.6m	MIXED FACIES, parallel banding a/a, common quartz, pink
•	tone to crystallization
675.6-678.7m	A/A
678.7-681.8m	A/A, fine network of fractures throughout: occ. mineralisation
681.8-684.9m	A/A, common quartz insitu re-crystallisation, pink, translucent,
	hard, massive
684.9-688.0m	MIXED FACIES, dominantly MUDST, black, massive, occ.
	parallel beds of SILTST a/a; occ.quartz re-crystallisation; occ
	fractures; dip~60 degrees
688.0-691.0m	A/A Dominantly MUDST, a/a faint bedding, small hairline
	fractures throughout, minor quartz veins, calcite veins across
	"bedding"
691.0-694.0m	A/A
694.0-697.0m	A/A, common quartz infill
697.0-700.0m	697-699.5m : Same as above
	699.5-700.0m: MIXED FACIES, alternating parallel banding
	of MUDST dk gy-bl and SILST, med gy
700.0-702.6m	A/A, very fractured towards base of core, hard, cherty
702.6-705.7m	A/A, less fractured
•	at 703.0-705.7m: MIXED FACIES, channel/slump feature
705.7-708.8m	705.7-707.5m: MIXED FACIES a/a
	707.5-708.8m: SILST, lt-med gy, v f gr, siliceous, fine dark
	feathery texture -? metamorphic overpint of fine, feathery,
	darker bands; calcite infill at ~708.55m
708.8-711.9m	SILST A/A
: 711.9-715.0m	MIXED FACIES, a/a channel/slump feature, bedding
	becoming more disturbed towards bottom of core
715.0-718.0m	A/A, common quartz with pink translucent toning (?
	hydrothermal alteration)

718.0-721.0m	A/A
721.0-724.0m	A/A, Dominantly MUDST, a/a dk gy-black, massive, v faint
	bedding, minor quartz
724.0727.0m	A/A, changes to MIXED FACIES, parallel banding at ~726m;
	common quartz veins
727.0-730.0m	MIXED FACIES, channel/disturbed bedding, dk gy, dense,
	quartz infill
730.0-733.0m	A/A
733.0-735.5m	A/A
735.5-738.6m	Dominantly MUDST, dk gy-bl, v.distorted facies, occ.quartz
	infill
738.6-741.0m	A/A, minor quartz along fractures
741.0-743.9m	A/A
743.9-747.0m	A/A, dk gy-, faint feathery bedding at ~60 degrees; occ fine
	quartz veins along fractures
747.0-749.0m	A/A
749.0-752.4m	A/A: 751.5-752m: MIXED FACIES, channel/ disturbed facies
	a/a
752.4-755.5m	A/A, occ. pink quartz re-crystallisation / ? hydrothermal
	alteration in situ, rare pyrite mineralisation along fractures
755.5-758.1m	A/A, dk gy, massive, v hard, occ quartz veins, common calcite
	and green carbonate mineral
758.1-761.1m	A/A
761.1-764.7m	A/A dk gy -black, changing to parallel banding towards base of
	core; occ. pyrite, calcite.
773.7-776.8m	A/A, dip $\sim$ 60 degrees
776.8-779.9m	A/A, m gy- dk gy; dip ~ 50 degrees
779.9-783.3m	MIXED FACIES, channel/disturbed facies, gy-dk gy, minor
	fracturing
783.3-786.0m	A/A
786.0.789.0m	A/A changing to less disturbed bedding at base of core

789.0-792.0m	A/A; at 790-791.0m:; MIXED FACIES, mainly MUDST, dk
	gy-black a/a; minor parallel banding; dip ~50 degrees; minor
·	calcite along fractures
792.0-795.0m	A/A;
	at 793-795m: MIXED FACIES, parallel banding, MUDST dk
	gy and SILTST lt gy, dip ~60 degrees, minor calcite along
	fractures; fine mottled dk gy metamorphic texture overprinting
	on core; massive, bedding planes becoming
	less apparent
795.0-798.0m	A/A, increasing metamorphic mottling throughout
798.0-801.0m	A/A
801.0-804.0m	Gradation change to HORNFELS, lt. gy - m gy, v f gr,
	massive, crystalline, siliceous, faint remnant overprinted
	texture, very tight, no porosity, minor calcite along fine
	fractures
804.0-806.0m	HORNFELS, a/a
806.0-809.0m	HORNFELS, a/a
908.0-812.2m	HORNFELS a/a, gy-med gy, some fine fractures
812.2-815.2m	HORNFELS a/a, m gy, common fine fractures, occ. pyrite
	along fine fractures; no porosity/perm
815.2-818.2m	A/A
818.2-821.2m	A/A
821.2-824.3m	A/A, med. gy, v f gr, occ. metamorphic mottling texture;
	common calcite along fractures
824.3-827.4m	HORNFELS, dk gy -black, v f gr, massive, crystalline,
2	siliceous, v hard, no fracturing
827.4-830.4m	A/A, med gy, v f gr, massive, rare calcite veins
830.4-833.4m	A/A med gy;
	at 838.0-833.4m: fractured zone with intruded quartz veining
833.4-836.4m	HORNFELS, a/a, dk gy- black
836.4-839.4m	A/A
839.4-842.5m	A/A, m gy

842.5-845.5m	A/A, dk gy, some remnant bedding textures/ fabric visible,
•	massive, dense, conchoidal fracture;
	at 845.5-848.5m; A/A becoming med gy, massive, dense,
	conchoidal fracture
845.5-851.7m	A/A, m gy -dk gy, minor quartz and calcite veins
851.7-854.5m	A/A, m gy -lt gy, no visible original fabric/texture; common
	quartz veining along entire core
854.5-859.0m	854.5-855.4m; HORNFELS A/A
	855.4 - 859.0M; GRANITE, lt gy- lt green, coarse gr,
	crystalline with crystals of white feldspar, black biotite and
	clear mica; green chlorite
8590-862.0m	GRANITE, A/A, lt gy, crystalline a/a less chlorite
845.5-851.7m	A/A, m gy -dk gy, minor quartz and calcite veins
851.7-854.5m	A/A, m gy -lt gy, no visible original fabric/texture; common
	quartz veining along entire core
854.5-859.0m	854.5 -855.4m; HORNFELS A/A
	855.4 - 859.0M; GRANITE, lt gy- lt green, coarse gr,
	crystalline with crystals of white feldspar, black biotite and
859.0-862.0m	clear mica; green chlorite GRANITE, A/A, lt gy, crystalline a/a less chlorite

### APPENDIX 5

# CORE ANALYSIS AND PETROLOGY BY

- PONTIFEX & ASSOCIATES
- GEOLOGICAL SURVEY OF VICTORIA
  - AMDEL

# MINERALOGICAL REPORT No. 8150 by Ian R. Pontifex MSc.

November 13, 2001

TO: Mr Lindsay Knight

Knight Industries Pty Ltd

677 Lyne Street

LAVINGTON NSW 2641

**COPY:** Ms Ingrid Campbell

58 Mowbray Drive

WANTIRNA SOUTH VIC 3152

YOUR REFERENCE: Campbell memo dated 23/10/01

MATERIAL & Two drill core samples (Kelly-1)

**IDENTIFICATION:** 327.0m and 653.0m

WORK REQUESTED: Section preparation, petrographic

(mineragraphic) description and report.

**SAMPLES & SECTIONS:** Returned to Ingrid Campbell with this report.

**DIGITAL COPY:** Enclosed with hard copy of this report to Ingrid

Campbell.

PONTIFEX & ASSOCIATES PTY, LTD.

# 909397 104 INTRODUCTION

This report provides a petrographic description of thin sections from two core samples labelled 327.0m and 653.0m from Kelly-1 well. The section from 327.0m was also polished to allow identification of disseminated sulphides, also to check for carbonaceous mineral content, by reflected light microscopy.

A third sample, labelled 315.2m, was also received by Pontifex for "Source Rock Analysis". Discussions by phone 30/10/01 informed Ingrid Campbell that Pontifex does not do this particular analysis, and this sample was therefore forwarded to Brian Watson, AMDEL, for this work (see letter appended to this report).

### INDIVIDUAL DESCRIPTIONS

327.0m

Weakly laminated, dark grey and weakly carbonaceous pelitic siltstone. Minor fine pyrrhotite disseminated; rarer finer detrital tourmaline, Ti-oxide, lesser pyrite and chalcopyrite.

Macroscopically, this handspecimen is seen as a homogeneous very dark grey, compact and weakly laminated shale or siltstone. The gross mineralogical composition as seen by transmitted and reflected light microscope examination of a polished thin section is:

*	Quartz silt to fine sand grains	~50%
*	Possible feldspathic grains, poorly defined	?10%
*	Illite-sericite, also poorly defined, basically as a matrix to the silt/very	
	fine sand grains, clouded by leucoxenitic and/or carbonaceous dust	30-35%
*	Detrital muscovite > extremely fine titaniferous grains > tourmaline,	
	zircons: total	2-3%
*	Pyrrhotite disseminated small grains (trace chalcopyrite pyrite, graphite)	3-5%

This thin section viewed macroscopically reveals a fairly homogeneous laminated sequence of dark grey to somewhat paler grey, silty pelitic rock. Two pale clay-rich veinlets occur, one cutting across the sequence, one along a bedding lamination. Petrographically, the abundant grains of quartz silt to fine sand grains (listed above) are seen to range in size from 0.02mm to (rarely) 0.12mm, more or less randomly disposed, although locally clustered more in some areas than in others to form poorly defined and somewhat discontinuous laminations and some patches.

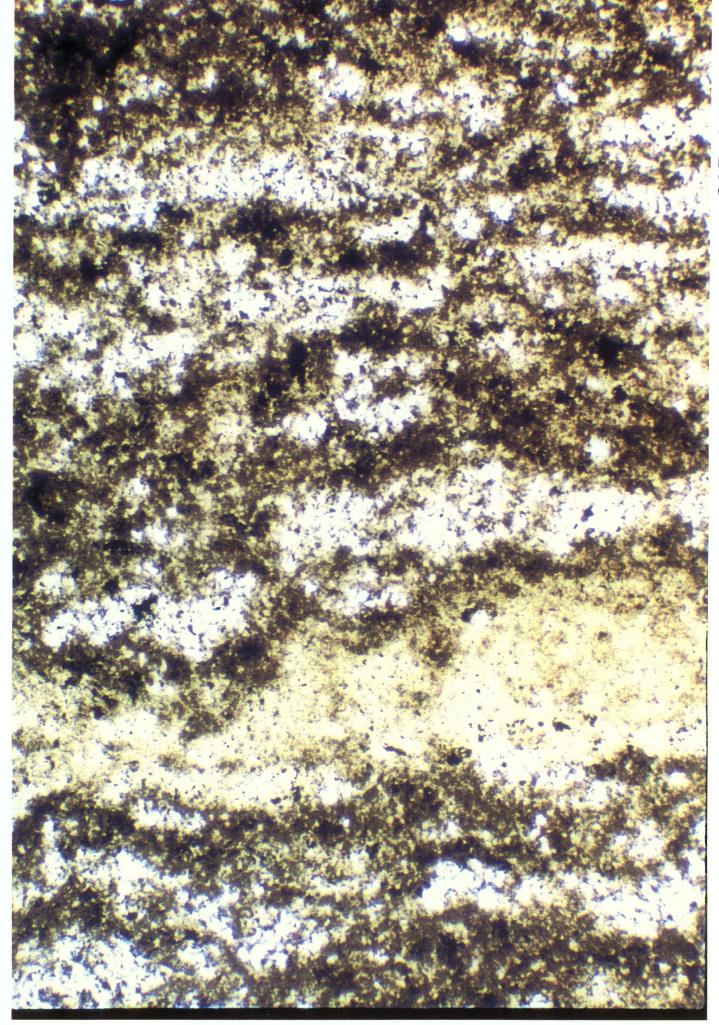
These occur, as noted above, in a pelitic matrix of indefinite illite-sericite clouded with minor leucoxenitic and/or carbonaceous dust, which, together with the extremely fine size of this material, prevents specific identification by optical microscopy. [XRD analysis would probably achieve this.] There is nil or negligible suggestion of common orientation of this fine phyllosilicate component, certainly no 'schistosity', conformable to the laminations, but there is a set of very poorly defined set of parallel "structural planes" seen macroscopically in

thin section, oriented at about 75° to the laminations, which may be an incipient S2 (axial plane) cleavage.

Scattered accessory detrital (heavy) minerals include muscovite > zircon, titaniferous grains and tourmaline, with possible authigenic overgrowths on rare tourmaline grains. The most abundant "accessory" mineral is pyrrhotite, as very irregular grains, ranging in size from 0.01mm to 0.13mm maximum dimension, basically randomly disseminated throughout, although vaguely layered. Rare pyrrhotite grains are composite with sparse, equally fine chalcopyrite or pyrite. Trace flakes of graphite occur independently.

The clay-rich veinlets are dominated by relatively concentrated illite-sericite, with minor (residual) quartz silt grains, also minor consistently extremely fine (0.01mm) grains of pyrrhotite. A quartz thread cuts the disconformable clay-rich veinlet.





Thin sections\Kelly\_1\_327.jpg

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653.0m

Low grade metamorphosed, laminated siltstone, mostly of sericitic-quartzose, but minor intercalated sericite-rich bands plus biotite. Extremely fine conformable heavy mineral laminations. Local crosscutting zone of altered scapolite with extremely fine heavy mineral laminations, is continuous into pyrite-rich coatings on broken surface along the core axis.

This core piece and the thin section, viewed macroscopically, is seen as a compact extremely fine grained (meta) silty to shaly rock. There are abundant pale grey laminations and thin beds to 8mm thick, with lesser intercalated slightly darker bands.

This sequence is cut by one quartz veinlet within the section area, causing mm scale disruption. There is also a disconformable local flame-shaped body 5mm wide to 2mm long, and this extends along an irregular broken surface along one side of the hand specimen more or less along the core axis, where it incorporates abundant euhedral pyrite crystals.

Petrographically, **the pale bands** are seen to consist of a micromosaic of compact very tightly packed and well sorted quartz grains (65%) average and consistent size about 0.05mm, with extremely fine random to weakly schistose sericite (25%) along intergranular contacts in this mosaic. Accessory extremely fine grains of tourmaline, titanium oxide, rarer zircon and apatite in poorly defined heavy mineral laminations.

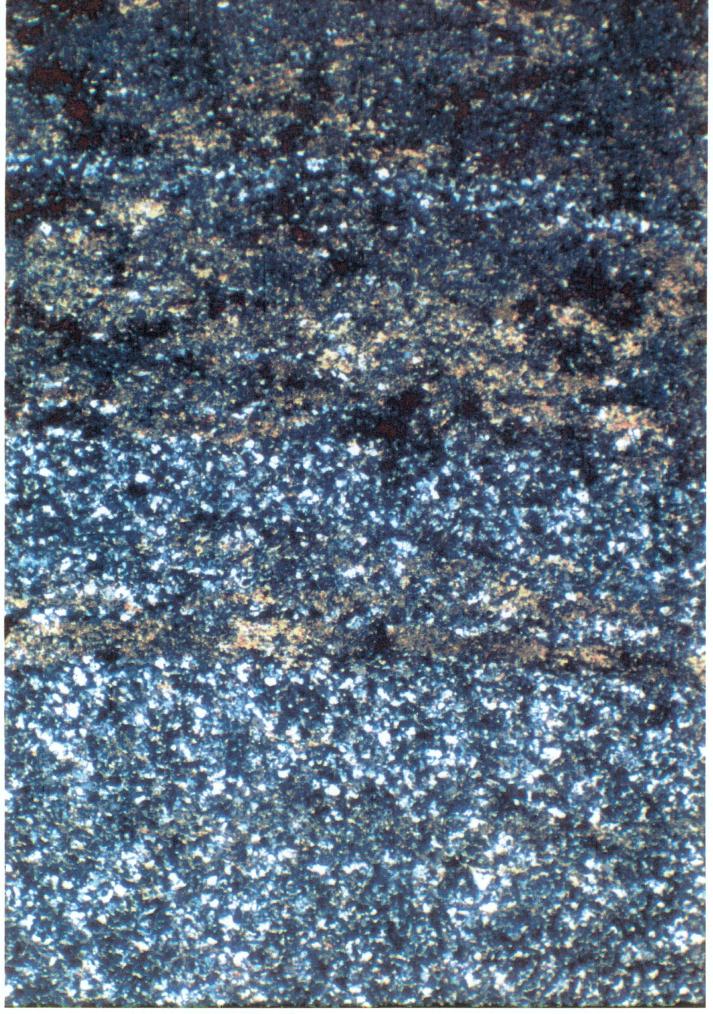
The fewer intercalated slightly darker bands, and shredded laminations of the same composition, consist of relatively concentrated sericite, possibly representing ex-scapolite, with subordinate scattered very fine biotite, also fine quartz as in the siltstone layers. These layers and laminae conceivably represent original intercalated chemical-clay sediment, modified to form scapolite by low grade regional metamorphism (?possible due to depth of burial).

The locally disconformable flame-like body noted above consists of compact ultrafine 'sericite' replicating a former mosaic of probable ex-scapolite grains. Significantly this incorporates extremely fine braided heavy mineral laminations along the long axis of this flame (which cuts across this prevailing bedding). This material is seen in handspecimen to enclose patches of cubic pyrite crystals along broken surfaces of the core. This flame shaped

body is interpreted as a possible inherent chemical-clay-rich sediment, converted to now altered scapolite, as in the layers noted above. Original micro-trains of ultrafine heavy mineral grains may have been mobilised to cut across the prevailing host rock bedding as a dykelet, or possibly an infill of a primary sedimentary fissure. Subsequent low grade metamorphism conceivably formed the scapolite plus pyrite. Note that it is the presence of the extremely fine detrital heavy mineral laminations seen petrographically within this very unusual structural feature which indicates an ultimate primary-sedimentary genesis, for this flame shaped domain, (and presumably the pyrite in continuity with it), as distinct from later introduced (epigenetic) mineralisation.



Cobbannah Group\Thin sections\Kelly\_1 653 (2).jpg



....Thin sections\Kelli\_1\_653.0 pol.jpg

Thin sections\Kelly\_1\_653.0 plan.jpg

DNRE Geological Survey of Victoria Mapping Division

# Preliminary examination of Kelly-1 core

On 14 December 2001, we made a brief examination of the Kelly-1 core in response to a request for such examination from Ingrid Campbell. The purpose of the examination was

- 1. To establish what stratigraphic unit the hole was drilled into, and
- 2. To determine the nature of disturbed bedding at numerous levels in the core.

As time permitted only a cursory examination, we concentrated on eight core trays that were easily accessible, at around the 625 metre level. Very brief checking of the bottom core showed that its lithology is similar in all respects to the core at the 625 metre level, and in our opinion the bedrock portion of the entire core is of a single stratigraphic unit, the Cobbannah Group.

# Primary characteristics

The rock unit in the core examined consists of interbedded dark grey mudstone and pale grey sandstone. Bed thickness is variable, from less than 1 cm to perhaps tens of centimetres in the thickest beds. The thicker sandstone beds show evidence of Bouma sequences (basal unlaminated more coarse-grained interval followed by planar and cross-laminated intervals). Thin beds range from structureless graded beds, to beds with small-scale cross laminations. A few cases of undoubted burrowing were found (rounded sandstone blebs in mudstone), but some rounded sandstone blebs may have been soft-sediment sag structures.

# Secondary characteristics

#### Structure

The most prominent secondary feature is a tectonic fabric which has affected different parts of the rock in different ways. A cleavage is present throughout, and this varies from a fine slaty cleavage in mudrocks, to a parallel to anastomosing spaced fabric, with variable spacing, in sandstones. These fabrics are very strong, much more so than in the rocks farther south along strike. There is evidence of significant solution along anastomosing cleavage especially, where cleavage zones are now pelitic bands that are incipient differentiated layering. In packages of thin sandstone/siltstone alternations, bedding has been disrupted during folding and now has the appearance of disturbed bedding, with blocky or rounded remnants lying at different attitudes. These again show evidence of solution at edges of blocks.

The strong cleavage, which we assume is the first-generation cleavage, lies at surprisingly low angles to the core, ranging from about 45 to in places 90 to the core. As the core is close to vertical, this implies relatively gently dipping to subhorizonal fold axes. This observation is in accord with younging directions checked at different levels: whilst most are right-way-up, some are downward-younging, indicating that the core has intersected F<sub>1</sub> folds. Numerous parasitic folds occur in the core, with wavelengths in the order of about a centimetre to tens of centimetres, and ranging in shape from open to isoclinal. All are F<sub>1</sub> structures (with the cleavage axial-planar to them). The implication of this observation is that the interval of rock present in the core is probably much less than the core length—it may be a few hundred metres, or less. More core, at different levels, needs to be examined to determine if this structural pattern persists throughout the core.

# 909397 115

Evidence of at least two subsequent deformation is present in the core. Cleavage in places shows very small crenulations (several millimetres across). Thin quartz veins are finely crenulated (millimetre scale). Both of these are evidence of at least one plastic deformation postdating  $F_1$ . The plastic deformations predate the metamorphic overprint. In a few places, thin zones of blocky breccia occur that are evidence of an even younger, brittle, deformation. Thin sections in appropriate places are needed to determine whether this brittle deformation predates or postdates the metamorphic overprint.

# Metamorphic overprint

Much of the core shows evidence of contact metamorphism. In places this has imposed a fine spotting (1–2 mm across), evident in the mudstones, and patchy recrystallisation, also in the mudstones, visible as centimetre-scale rounded paler blobs with diffuse boundaries. The single thin section of sandstone, from the 653 m level, shows a very fine grain size suggesting that original sand grains were recrystallised into multiple grains.

In much of the core the metamorphic overprint does not appear to have affected the cleavage fabric, which is clearly visible on the outside of the core. At the base of the core, within a few tens of metres of the granite, the rock is a dark grey fine-grained hornfels. The contact metamorphic overprint is surprisingly subtle, suggesting that the granite was relatively cool when intruded. By comparison, for instance, the Mount Emu Granodiorite south of Myrtleford has a hornfels aureole in Cobbannah Group, with coarse-grained biotite—cordierite hornfels that extends for many hundreds of metres and in places well over a kilometre away from the contact. This size of aureole is the norm for the Tabberabbera Zone—the aureole in Kelly-1 core is quite abnormal.

Fons VandenBerg Clive Willman 14 December 2001



4 December 2001

KNIGHT INDUSTRIES P/L

677 LYNE STREET, ALEURY N.S.W. 2641 AUSTRALIA Ph: (02) 6025 1335 Fax: (02) 6025 8754

Knight Industries 677 Lyne St LAVINGTON NSW 2641

Attention: Ingrid Campbell

REPORT LO11047

**CLIENT REFERENCE:** 

Re Pontifex

WELL NAME/RE:

Kelly 1

**MATERIAL:** 

Rock

**WORK REQUIRED:** 

TOC, Porosity, Headspace

**AUTHOR'S NAME:** 

Carmelina Valente

Please direct technical enquiries regarding this work, to the signatory below, under whose supervision the work was carried out. This report relates specifically to the sample or samples submitted for testing.

Diane Cass

Operations Manager Petroleum Services

dc.jh

G:\Secretary\petroleum\Docs-01\11047.doc

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# 1. INTRODUCTION

Samples were received for headspace, porosity and TOC analysis on the 5 November 2001. This report is a formal presentation of results forwarded by email on 6 and 28 November 2001.

# 2. PROCEDURE

# 2.1 Headspace Analysis

Gas concentrations were determined by injection into a Agilent 6890 Series gas chromatograph equipped with a packed column. Concentrations were calculated from peak areas measured with a proprietary software package and compared with peak areas taken from standard gas mixtures of known concentration injected into the same chromatograph.

# 2.2 Porosity

The sample was analysed by the helium injection method.

# 2.3 Total Organic Carbon (TOC)

Total organic carbon was determined by digestion of a known weight (approximately 0.2g) of powdered rock in HCl to remove carbonates, followed by combustion in oxygen in the induction furnace of a Leco WR-12 Carbon Determinator and measurement of the resultant CO<sub>2</sub> by infrared detection.

# 3. RESULTS

Kelly-1 (792.2-792.5 m)

COMPONENT	μ <b>L/L</b> (ppm)
Methane .	400
Ethane	2
Propane	2
N- Butanes	<1
N-Pentanes	<1
N-Hexanes	<1

COMPONENT	Mol%
Carbon Dioxide	0.24

The porosity for this sample was <1%.

# Total organic carbon;

DEPTH (m)	TOC (%)
801.0	0.14
612.5	0.16
315.2	0.26
790.0	0.06
612.0	0.06

Due to the low TOC results it is not recommended Rock Eval be performed.

APPENDIX 6

GAS ANALYSIS

BY

• AMDEL

# 1. INTRODUCTION

A sample was received for headspace analysis (C1-C6) on the 29 October 2001.

# 2. PROCEDURE

Gas concentrations were determined by injection into a Agilent 6890 Series gas chromatograph equipped with a packed column. Concentrations were calculated from peak areas measured with a proprietary software package and compared with peak areas taken from standard gas mixtures of known concentration injected into the same chromatograph.

# 3. RESULTS

Kelly-1 (612.5m

COMPONENT	PPM
Methane	1300
Ethane	5
Propane	1
N- Butanes	<1
N-Pentanes	<1
N-Hexanes	<1

Results expressed in ul/L

# 909397 121

# 1. INTRODUCTION

A sample was received for headspace analysis (C1-C6) on the 05 November 2001.

# 2. PROCEDURE

Gas concentrations were determined by injection into a Agilent 6890 Series gas chromatograph equipped with a packed column. Concentrations were calculated from peak areas measured with a proprietary software package and compared with peak areas taken from standard gas mixtures of known concentration injected into the same chromatograph.

# 3. RESULTS

Kelly-1 (792.2-792.5 m)

COMPONENT	UI/L (PPM)
Methane	400
Ethane	2
Propane	2
N- Butanes	<1
N-Pentanes	<1
N-Hexanes	<1

COMPONENT	Mol%
Carbon Dioxide	0.24

**APPENDIX 7** 

SUMMARY OF KDLS TECHNOLOGY

KNIGHT INDUSTRIES PTY.LTD. ACN..000 540 938
677 LYNE ST LAVINGTON NSW 2641 Australia tel.02 60 251335...fax.02 60 258754...mob 018389251
Email: kipl@albury.net.au Principal: Lindsay Knight

# ESR GEOPHYSICAL SURVEYS (Electron Spin Resonance) Known as KDLS - (Knight Direct Location System) A remote-sensing geophysical system available to the oil industry

# **BACKGROUND**

Knight Industries Pty Ltd, is a company with a long history of innovation and the development of original concepts. It commenced development of the KDLS technique in 1986. Since then, the system has been further developed and refined with particular attention to the needs of the oil and gas industry.

The KDLS system has been used and calibrated on more than 120 oil wells drilled in Australia, both onshore and offshore, including the Northwest Shelf and Bass Strait. The system has been successfully used in many surveys and calibrated for "degree of depletion", " live" or "dead" oil, "tight oil and gas" on more than 140 wells in the following States in USA: Texas, Oklahoma, Kansas, Nevada, Wyoming, Louisiana, Indiana.

It has also been successfully used (both onshore and offshore) in the U.K., New Zealand, Papua New Guinea, Philippines and the Seychelles.

## **OPERATING PRINCIPLES**

KDLS is an Australian-designed remote sensing method that can directly detect the presence and position of targeted materials in the upper crust with direct applications to the oil and gas industry, either at the exploratory stage or later, during production and development.

KDLS uses a combination of the principles of:

- Electron Spin Resonance (ESR),
- Bio-micro magnetics and
- Hetero Nuclear Lock of like materials.

Nuclear magnetic resonance (NMR) together with bio-micro magnetics and HeteroNuclear Lock of like materials is also used for limited applications.

The system can detect and identify the composition of the individual hydrocarbons present in a reservoir.

Each hydrocarbon fraction has its own KDLS signature. KDLS has a large reference data bank which includes the known calibrated signatures for C1 to C6, C8, C10, C14, C15, C24, bitumen, diesel, leaded and unleaded fuels, uranium, thorium, potassium and 360 other minerals and materials and lithologies.

Specific design and operational details of the equipment is of a propriety nature and will be disclosed only on a need to know basis.

# 909397 124 KDLS GEOPHYSICAL SURVEYS

## **USES**

The system can be adapted for use in:

#### ESR surveys.

A specially designed transmitting/receiving instrument with purpose built, tuned antennae which contain removable sealed identical samples of the targeted material. The special antennae provide evidence of the signal strength as well as providing vital directional information, e.g. the strike of a fault or reservoir barrier and distance to an accumulation or target.

#### NMR surveys

A magnetometer and computer, in addition to the above equipment

#### Operation

Operation of the equipment involves the operator setting the signal generator to transmit the predetermined resonant frequency of the material to be detected.

If the material is present (above normal background) in the upper part of the earth's crust (down to a detectable limit of 5000 metres) either beneath ground/sea level, the micro-energy emanating from this resonating material is detected by the KDLS receiver.

The strength of the received signal is directly related to the quantity of target material present. Transmitted microenergy from the source can be detected over (*long or short*) distances (max. range of detection from the air is about 50 km).

The survey flight is usually carried out at 2,000 feet above ground/sea level and covers a strip 10 nautical miles wide. A detailed flight plan to suit the task is prepared in advance. Way-points of the path are stored in a GPS and the coordinates of the start and finish of each anomaly are also stored in this GPS for later down loading to a computer. The pilot flies to a prerecorded track in a GPS.

After the flight, the exact position of each anomaly is plotted by computer onto a chart.

The survey observations are analysed and the anomalies are plotted, classified according to their hydrocarbon type, size and strength of receiver signal and a ranking order of potential targets is established. Source rock locations in a region can also be included in the initial survey.

The KDLS system is portable and can be used from either fixed or rotary wing aircraft, land vehicles, boats or on foot. Two people are usually required to operate the system: one to operate the equipment and another to navigate, record and map the observations. If the survey area is particularly rugged or very small or inaccessible for some reason (e.g. near an offshore platform), a helicopter may be more suitable and cost effective.

The system is continually being upgraded as new data from ongoing fieldwork comes to hand.

## KDLS SUCCESS RATE

Analysis of KDLS survey results over an 8 year development period reveals that:

- It has 100% accuracy in correctly determining the absence of hydrocarbons in any location either for wells designed for development or wildcat locations.
- For wildcat anomalies detected by KDLS, the success rate to date is about 70% that commercial hydrocarbons will be present at a site. The evidence for this claim can be substantiated by 38 out of 48 actual case histories from Australia and overseas.
- In development or production situations, accuracy is about 90%.

 Spilled underground fuel plumes and other contaminants can also be accurately detected and the area and depth identified.

## KDLS HYDROCARBON DETECTION

## MAPPING PROCEDURE

For effective coverage of large areas, an aerial survey is recommended to determine the presence and location of the hydrocarbon anomalies. By flying over the anomaly, KDLS can then determine the size (perimeter) of any anomaly, the approximate depth and the type of hydrocarbons present and whether they are live, residual, biodegraded, etc.

During an aerial survey, three passes are made over a designated prospect or general area with the KDLS tuned to special elements which have been found to be common to all commercial hydrocarbon accumulations. The ratio of these elements, one to the other, is an excellent guide as to whether commercial hydrocarbons are present or not. It is recommended that the aerial survey is followed up by a land or marine survey of selected anomalies to verify and expand on the flight-based information.

Land surveys are carried out from a four-wheel drive vehicle fitted with a GPS. (Global Positioning System) and "Terra trip" computerized odometer. Detailed work is carried out on foot. Marine surveys are carried out in marine craft fitted with a GPS.

## KDLS CAPABILITIES AND BENEFITS OF THE SYSTEMS

### KDLS has now developed unique procedures for detailed land surveys that can:

Map the perimeter of a hydrocarbon accumulation.

Ascertain the subsurface depth and thickness of each hydrocarbon accumulation.

Identify the lithologies within a prospect or in a specific fault block.

Identify the number of reservoirs and the type of hydrocarbons present in each reservoir.

Determine the composition of reservoirs to enable permeability estimates.

Determine the type and thickness of seal(s) and the depth to basement.

Determine the approximate gas/oil, water/oil and CO2 / methane ratios.

Determine the relative salinity of any water in or beneath a reservoir.

Map the faults in an anomaly and determine if they are sealing or semi permeable.

#### PE914490

This is an enclosure indicator page.

The enclosure PE914490 is enclosed within the container PE909397 at this location in this document.

```
The enclosure PE914490 has the following characteristics:
     ITEM_BARCODE = PE914490
CONTAINER_BARCODE = PE909397
            NAME = Kelly-1 Composite Well Log
            BASIN = MURRAY
         ONSHORE? = Y
        DATA_TYPE = WELL
   DATA_SUB_TYPE = COMPOSITE_LOG
     DESCRIPTION = Kelly-1 Composite Well Log, by
                    Geoscience for Knight Industries W1330,
                    PEP161.
          REMARKS =
    DATE_WRITTEN =
   DATE PROCESSED =
    DATE RECEIVED =
   RECEIVED_FROM = Knight Industries Pty Ltd
        WELL_NAME = Kelly-1
       CONTRACTOR =
          AUTHOR =
       ORIGINATOR = Knight Industries Pty Ltd
        TOP_DEPTH =
     BOTTOM_DEPTH =
   ROW_CREATED_BY = CD000_SW
```

(Inserted by DNRE - Vic Govt Mines Dept)