

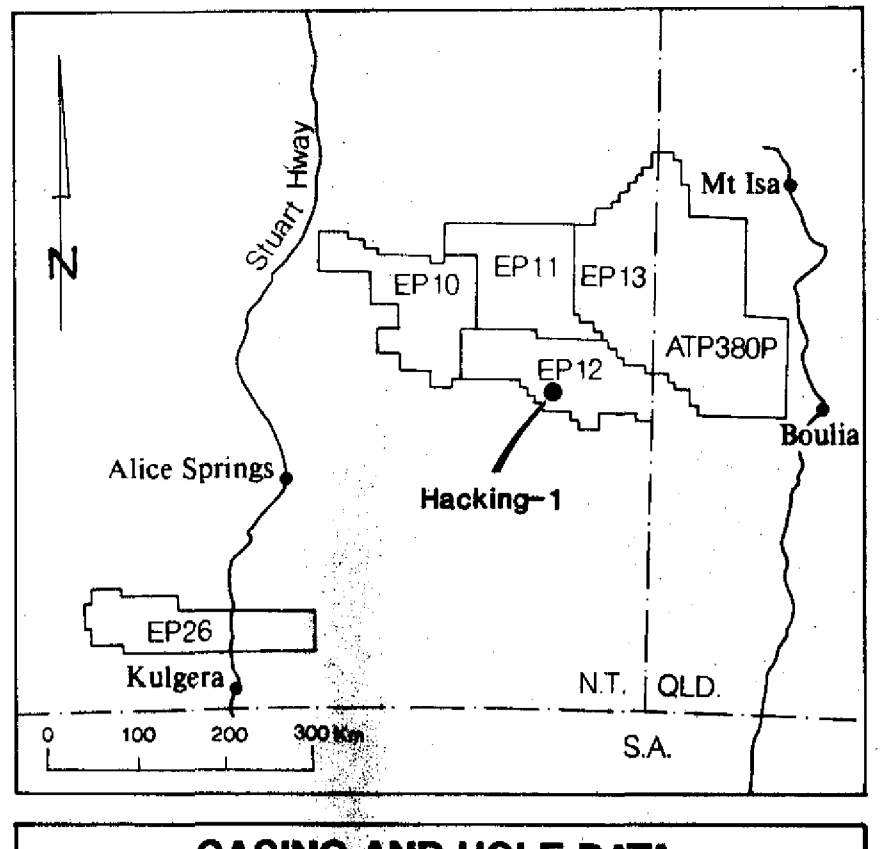
Pacific Oil & Gas Pty. Limited

Composite Well Log

HACKING No.1

LOG DATA					
SUITE No.	TD	BHT	RM	RMF	DATE
1	250m	33°C	5.0 A.M. at 25.5°C	N/A	20/8/88
2	1234m	63°C	2.6 A.M. at 28°C	2.9 at 26	15-17/9/88
3					
4					
5					

GENERAL DATA	
Date Spudded: 11/8/88	Date at TD: 14/9/88
Date Rig Release: 18/9/88	Total Depth: DLR 1234.0mDF
Permit: E.P.12 NT	LGR 1234.0mDF
Latitude: 22°50'16.0"S	Rig(s) Gorey & Cole Rig 3
Longitude: 137°01'02.8"E	Rockdrill Rig 20
Elevation: GL 279m AHD	AMG: 707028mE
DF +2.5m	7473014mN
DF 281.5m AHD	Map Sheet: Tobermory 1:250,000
Status: Plugged and Abandoned	Mud Type: Newdrill/Newvis CMC
CRAE Drillhole No: RD/DD88GB88	Basin: Georgina
	Geologists: G. Wakelin - King A. G. Kress



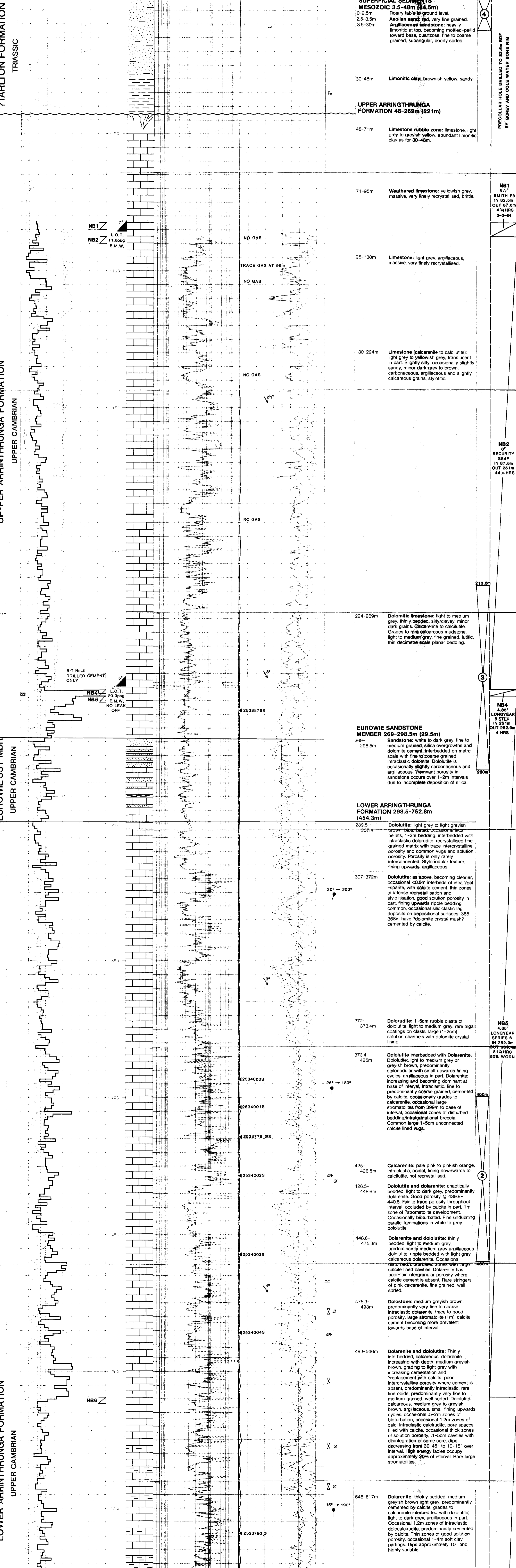
CASING AND HOLE DATA							
NO.	BIT SIZE	DEPTH (m)	CSG SIZE	WT.	GRADE	THREAD	TOP OF CASING
1	8 1/2"	87.5	7"	23	K55	BTC	85.9
2	6"	251	5"	13	K55	FL45	249.6
3	4.35" (101)	1234	-	-	-	-	-
4							
5							

GEOLOGICAL SYMBOLS			
Conglomerate	Ooids	Slumping	
Sandstone	Peloids	Boudinage	
Siltstone	Glauconite	Cracking	
Claystone	Intraclasts	Dewatering	
Limestone	Fossil Fragments	Ripple Marks	
Dolomite	Lithic Grains	Cross Bedding	
Chert	Feldspar	Oxidation	
Anhydrite	Mineralisation	Bioturbation	
Volcanics	Stromatolites	Graded Bedding	
Metamorphics	Carbonaceous	Visible Porosity	
Plutonics	Styolites	Flaser Bedding	
Breccia	Scour & Fill	Flat Pebbles	
	Nodules	Formation Dip	

ENGINEERING SYMBOLS	
Deviation Survey	
Casing Shoe	
Drill Stem Test	
Cement Plug	
New Bit	
Top of Cement	
Sample Point	

Pacific Oil & Gas Pty Limited			
Ref:	HACKING No.1 - Well Completion Report	Drafting:	Kemp Cartographics
Scale:	1:500	Report:	303526
Author:	G. Wakelin - King	Plan No.:	Pet NTCw 3145
Date:	July, 1989		

FORMATION AGE	GAMMA RAY (API)	DEPTH (m)	GRAPHIC LITHOLOGY	TOTAL GAS (UNITS)		SEDIMENTARY STRUCTURES AND POROSITY	LITHOLOGICAL DESCRIPTION	ENGINEERING DETAILS
				DEEP RESISTIVITY	SHALLOW RESISTIVITY			
				0-20	20-2000	40		
				0-20	200-2000	40		
						45		
						1.86		
						2.86		
							1 UNIT = 30ppm METHANE	



SUPERFICIAL SEDIMENTS MESOZOIC 3.5-48m (44.5m)
 0-2.5m Rotary table to ground level.
 2.5-3.5m Aeolian sand: red, very fine grained.
 3.5-30m Argillaceous sandstone: heavily limonitic at top, becoming mottled-pallid toward base, quartzose, fine to coarse grained, subangular, poorly sorted.

30-48m Limonitic clay: brownish yellow, sandy.

UPPER ARRINTHRUNGA FORMATION 48-269m (221m)
 48-71m Limestone rubble zone: limestone, light grey to greyish yellow, abundant limonitic clay as for 30-48m.

71-95m Weathered limestone: yellowish grey, massive, very finely recrystallised, brittle.

95-130m Limestone: light grey, argillaceous, massive, very finely recrystallised.

130-224m Limestone (calcarenite to calcillutite): light grey to yellowish grey, translucent in part. Slightly silty, occasionally slightly sandy, minor dark grey to brown, carbonaceous, argillaceous and slightly calcareous grains, styolitic.

224-269m Dolomitic limestone: light to medium grey, thinly bedded, silty clayey, minor dark grains. Calcarenite to calcillutite. Grades to rare calcareous mudstone, light to medium grey, fine grained, lutitic, thin decimetre scale planar bedding.

EUROWIE SANDSTONE MEMBER 269-298.5m (29.5m)
 269-298.5m Sandstone: white to dark grey, fine to medium grained, silica overgrowths and dolomite cement, interbedded on metre scale with fine to coarse grained intraclastic dolomite. Dolomite is occasionally slightly carbonaceous and argillaceous. Prominent porosity in sandstone occurs over 1-2m intervals due to incomplete deposition of silica.

LOWER ARRINTHRUNGA FORMATION 298.5-752.8m (454.3m)
 298.5-307m Dololite: light grey to light greyish brown, bioturbated, occasional fossil pellets. 1-2m bedding, interbedded with intraclastic dololite, recrystallised fine grained matrix with trace intercrystalline porosity and common vugs and solution porosity. Porosity is only rarely interconnected. Stylonodular texture, fining upwards, argillaceous.

307-372m Dololite: as above, becoming cleaner, occasional <0.5m interbeds of intra ?pel -sparite, with calcite cement. Thin zones of intense recrystallisation and stylolisation, good solution porosity in part, fining upwards ripple bedding common, occasional siliclastic lag deposits on depositional surfaces. 365-368m have ?dolomite crystal mush? cemented by calcite.

372-373.4m Dololite: 1-5cm rubble clasts of dololite, light to medium grey, rare algal coatings on clasts, large (1-2cm) solution channels with dolomite crystal lining.

373.4-425m Dololite interbedded with Dolarenite. Dololite: light to medium grey or greyish brown, predominantly stylonodular with small upwards fining cycles, argillaceous in part. Dolarenite: increasing and becoming dominant at base of interval, intraclastic, fine to predominantly coarse grained, cemented by calcite, occasional grades to calcarenite, occasional large stromatolites from 399m to base of interval, occasional zones of disturbed bedding/intraformational breccia. Common large 1-5cm unconnected calcite lined vugs.

425-426.5m Calcarenite: pale pink to pinkish orange, intracrystalline, finely bedded, calcillutite, not recrystallised.

426.5-448.6m Dololite and dolarenite: chaotically bedded, light to dark grey, predominantly dolarenite. Good porosity @ 439.8-440.8. Fair to trace porosity throughout interval, occluded by calcite in part. 1m zone of stromatolite development. Occasionally bioturbated. Fine undulating parallel laminations in white to grey dololite.

448.6-475.3m Dolarenite and dololite: thinly bedded, light to medium grey, predominantly medium grey argillaceous dololite, ripple bedded with light grey calcareous dolarenite. Occasional disturbed/bioturbated zones with large calcite lined cavities. Dolarenite has poor-fair intergranular porosity where calcite cement is absent. Rare stringers of pink calcarenite, fine grained, well sorted.

475.3-493m Dolostone: medium greyish brown, predominantly intraclastic, trace to good porosity, large stromatolite (1m), calcite cement becoming more prevalent towards base of interval.

493-546m Dolarenite and dololite: Thinly interbedded, calcareous, dolarenite increasing with depth, medium greyish brown, grading to light grey with increasing cementation and ?replacement with calcite, poor intercrystalline porosity where cement is absent, predominantly intraclastic, rare fine ooids, predominantly very fine to medium grained, well sorted. Dololite: calcareous, medium grey to greyish brown, argillaceous, small fine upwards cycles, occasional 1.2m zones of bioturbation, occasional 1.2m zones of calcite-intraclastic calcirudite, pore spaces filled with calcite, occasional thick zones of dololite. Common large 1-4m soft clay partings. Dips approximately 10° and highly variable.

546-617m Dolarenite: thickly bedded, medium greyish brown light grey, predominantly cemented by calcite, grades to calcarenite interbedded with dololite; light to dark grey, argillaceous in part. Occasional 1.2m zones of intraclastic dolocalcillutite, predominantly cemented by calcite. Thin zones of good solution porosity, occasional 1-4m soft clay partings. Dips approximately 10° and highly variable.

NB1
 8 1/2" SMITH FS IN 82.6m OUT 87.6m 4 3/4 HRS 2-2-IN

NB2
 6" SECURITY 884F IN 87.6m OUT 261m 44 1/2 HRS

NB4
 4.35" LONGYEAR 8 STEP IN 252.6m OUT 252.8m 4 HRS

NB5
 4.35" LONGYEAR SERIES 6 IN 252.6m OUT 252.8m 81 1/2 HRS 80% WORN

