

APPENDIX 3

EAST MEREEENIE NO. 10

CORE ANALYSIS

CORE LABORATORIES AUSTRALIA (QLD.) LTD.



8th February, 1983

Oilmin N.L.
27 Turbot Street
BRISBANE QLD 4000

Attention: Mr. D. Warner

Subject: Routine Core Analysis
Well: EM #10
Our Job No: QLD-CA-132

Dear Sir,

Presented here are the results of Analysis performed on Conventional Core from your Well EM #10.

1. Bulk Volume:

Is measured by displacement, using mercury as the liquid pressure medium because of its high surface tension. The mercury pump is calibrated to 0.01 cubic centimeters.

2. Helium Injection Porosity:

Is measured by a Helium Porosimeter to determine the amount of grain volume in the sample. Porosity being determined by bulk volume minus grain volume, helium is used because of the small molecule size, ability to diffuse rapidly, and absorption of helium on the rock surface is minimal.

3. Permeability:

Is a measure of the ability of a porous material to transmit fluid. Permeability values are for air at a confining pressure of 180 PSIG.

4. Residual Fluid Content and Porosity by Summation of Fluids:

Fluid saturations were measured by Conventional Retort Method. This method involves obtaining liquid saturations by distillations of a sample at a controlled temperature. Saturated Oil (So) and Saturated Water (Stw) is representative to the percentage of oil and water in the pore space of the sample.

Porosity by summation of fluids, as the name implies, is dependent on combining fluid volumes (oil, water, gas) to yield porosity determinations.

5. Grain Density:

Is obtained by using measurements from the mercury pump, (Bulk Volume) Helium Porosimeter, (Grain Volume) and analytical balance (Dry Sample Weight).

A brief lithological description completes the report. Should you have any queries concerning the data, please do not hesitate to contact me in Brisbane on (07) 260-1722.

We thank you for this opportunity to be of service to you on this occasion and trust that we may be of service to you again in the future.

Yours faithfully,
CORE LABORATORIES AUSTRALIA (QLD) LTD



Paul Ritchie
Laboratory Supervisor,
Brisbane, Australia

Enc:
PR:cv:132

COMPANY: Oilmin	FORMATION:	FILE:	QLD-CA-132
WELL: EM #10	CORE TYPE: Conventional	DATE REPORT:	13/01/83
FIELD:	BASIN:	ANALYSTS:	V. Tippet
COUNTRY: Australia	STATE: Queensland	DRILLING FLUID:	

SAMPLE #	DEPTH FEET	KA-md	SUMMATION OF FLUIDS			HE INJ Ø %	GRAIN DENSITY
			Ø %	SO	STW		
1	4989.8	64	14.2	18.3	62.0	14.7	2.65
2	4990.0	0.46	5.8	20.0	44.4	6.6	2.66
3	4990.2	235	17.6	40.5	37.2	16.6	2.65
4	4990.5	692				18.3	2.65
5	4991.2	75				13.5	2.66
6	4991.8	115	16.8	24.0	36.7	13.1	2.64
7	4992.6	44	15.7	21.4	40.3	15.5	2.63
8	4993.0	82				10.6	2.66
9	4993.3	145	17.0	37.1	34.3	16.5	2.64
10	4994.1	86	12.9	23.4	52.6	13.5	2.65
11	4995.0	37	8.1	6.47	75.0	7.7	2.67
12	5605.6	5.3	10.8	11.3	60.3	9.6	2.63
13	5613.2	2.8	7.8	6.7	34.5	6.7	2.65
14	5616.0	7.0	10.6	22.0	34.4	9.6	2.64

LITHOLOGIESDESCRIPTIONSAMPLE NO.

1	4989.8	SST, lt gry wh, f, hd, sbang sbrnd, wl, tr fe stn,
2	4990.0	SST, lt gry wh, f, hd, sbang sbrnd, mod wl, tr pyr, tr fe stn,
3	4990.2	SST, lt gry wh, m, hd, ang sbang, mod p, tr pyr, tr fe stn, carb specks thru,
4	4990.5	SST, lt gry wh, m, hd, ang sbang, mod p, tr fe stn,
5	4991.2	SST, lt gry wh, m crs, hd, ang sbang, p, tr pyr, tr fe stn,
6	4991.8	SST, lt gry wh, m crs, hd, ang sbang, p, tr pyr,
7	4992.6	SST, lt gry wh, f, hd, ang sbang, m, tr fe stn, m-crs gn incl,
8	4993.0	SST, lt gry wh, m crs, hd, sbang sbrnd, p, tr fe stn, tr pyr,
9	4993.3	SST, lt gry wh, m crs, hd, sbang sbrnd, p,
10	4994.1	SST, lt gry wh, f m, hd, sbang sbrnd, m, tr fe stn,
11	4995.0	SST, lt gry wh, f crs, hd, sbang sbrnd, m p,
12	5605.6	SST, rd-brn, f, hd, sbang sbrnd, mod wl,
13	5613.2	SST, rd-brn, m, hd, sbang sbrnd, mod,
14	5616.0	SST, rd-brn, f, hd, sbang sbrnd, mod wl,