

APPENDIX 3.

EAST MEREENIE NO. 7

CORE ANALYSES

DESCRIPTIONS

The results for EM # 7 were reached by the following manner:-

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.

Porosity:

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

Permeability:

Is a measure of the ability of a porous material to transmit fluid. Samples are run on a Gas Permeameter, which calibrated within plus or minus 5% each day. A complete check of the Permeameter, and orifice recalibration is conducted once a month.

Calculated Grain Density:

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

Summation Of Fluids:

Saturated Oil (SO) and Saturated Water (STW) is determined by the use of the Retort Method. This method involves obtaining liquid saturations by distillation of a sample at atmospheric pressure. Numbers reported out represent percent oil and water in pore space of samples.

CORE ANALYSIS RESULTS

Company OILMIN N.L. Formation File OLD - CA - 099
 Well EM # 7 Core Type CONVENTIONAL Date Report 29.1982
 Field AMADEUS BASIN Drilling Fluid Analysts B. GREEN
 County ALICE SPNGS State N.T. Elev. Location

Lithological Abbreviations

SAND - SD SHALE - SH LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SOV SHALY - SHY LIMY - LMY	FINE - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY VERY - V/ WITH - W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY K.A.	HE INJ POROSITY PER CENT	SUMMATION OF FLUIDS		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
				SO	STW		

SUMMATION OF FLUIDS

SO STW

CORE # 4.

1	4630'6"-11"	0.12	5.5	0	41.1		
2	4636'3"-7"	0.37	10.0	0	47.5		
3	4681'1"-6"	0.11	3.9				
4	4670'8"-						
	4671'1½"	34.	10.7	28.40	40.1		
5	4670'2"-7"	69.	12.4				
6	4639'0"-5"	1.9	6.9	9.99	30.2		
7	4659'3"-8"	46.	11.6	29.40	37.8		
8	4661'6"-10"	52.	10.5				
9	4665'4"-10"	40.	9.2				
10	4663'6"-11"	12.	9.5	18.57	27.4	2.66	
11	4667'9"-						
	4668'4"	5.0	9.7				
12	4657'8"-						
	4658'0"	140.	11.6				
13	4655'7"-						
	4656'0"	81.	11.0	18.54	31.8		
14	4646'5"-9"	20.	10.9	20.89	29.1		
	4643'6"-10"	101.	15.4	26.98	36.8	2.67	
16	4647'4"-8"	9.1	8.5				

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE ANALYSIS RESULTS

Company OILMIN N.L. Formation _____ File OLD - CA - 099
 Well EM # 7. Core Type CONVENTIONAL Date Report 10.8.1982.
 Field AMADEUS BASIN Drilling Fluid _____ Analysts B. GREEN
 County AUSTRALIA State N.T. Elev. _____ Location _____

Lithological Abbreviations

SAND-SS SHALE-SH LIME-LM DOLOMITE-DOL
 CHERT-CH GYPSUM-GYP ANHYDRITE-ANHY
 CONGLOMERATE-CONG FOSSILIFEROUS-FOSS
 SANDY-SOY SHALY-SHY LIMY-LMY FINE-FN
 MEDIUM-MED COARSE-CSE CRYSTALLINE-XLN
 GRAIN-GRN GRANULAR-GRNL BROWN-BRN
 GRAY-GY VUGGY-VGY FRACTURED FRAC
 LAMINATION-LAM STYLOLITIC-STV SLIGHTLY
 VERY-V/ WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS KA	P POROSITY PER CENT	SUMMATION OF FLUIDS		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
				SO	STW		

	4757'	.07	4.7	-	38.4	2.65	
18	4758-59'	.80	7.2	7.4	14.7	2.64	
19	4760'	.13	4.1	1.6	26.5	2.63	
20	4744'	.42	5.2	3.6	7.9	2.64	
21	4745'	5.4	7.2	5.6	1.9	2.64	

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