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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering
DALLAS, TEXAS

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Page No. _____

CORE ANALYSIS RESULTS

OIL & GAS
CONSERVATION COMMISSION

Company CACTUS DRILLING, INC. Formation ISMAY File RP-3-1964
Well GOV'T-FEHR NO. 3 Core Type DIA. CONV. Date Report 2-14-65
Field CACHE Drilling Fluid CHEMICAL-WATER Analysts HUFF
County MONTEZUMA State COLORADO Elev. 4959 GR Location SE SE Sec 34 T34N R20W

Lithological Abbreviations

SAND-SD SHALE-SH LINE-LM DOLOMITE-DOL CHERT-CH GYPSUM-GYP ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS SANDY-SDY 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-SL/ VERY-V/ WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs KL	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
5566-67	20		14.5	11.0	24.1	Ls, dtrl, reef frag, suc dolo sem, vuggy
5567-68	4.8		10.2	15.7	19.6	Ls, dtrl, reef frag, suc dolo cem, vuggy
5568-69	0.21		9.1	19.8	27.4	Ls, dtrl, reef frag, suc dolo cem, vuggy
5569-70	15		22.6	15.1	38.5	Dolo, f suc/earthy, anhy incl
5570-71	3.3		18.5	16.2	32.4	Dolo, f suc/earthy, anhy incl
5571-72	9.2		19.1	16.2	35.1	Dolo, f suc/earthy, anhy incl
5572-73	0.85		11.9	26.0	21.0	Dolo, f suc/earthy, anhy infill
5573-74	0.10		5.7	12.3	33.4	Ls, dolo, anhy & sh ptgs
5575-76	0.04		9.0	2.2	57.8	Dolo, f suc/earthy, anhy infill
5577-78	0.01		9.6	5.2	67.7	Dolo, v f suc/earthy, anhy infill
5579-80	0.01		5.9	3.4	83.0	Dolo, earthy, anhy infill & incl
5581-82	0.01		6.5	10.8	81.6	Dolo, earthy, argill
5583-84	0.05		10.0	28.0	25.0	Ls, dolo, f xln
5585-86	<0.01		0.8	0.0	50.0	Ls, f xln, dns
5587-88	<0.01		0.4	0.0	50.0	Ls, xln, dns
5589-90	<0.01		0.9	0.0	66.7	Ls, xln, dns
5591-92	<0.01		0.8	0.0	75.0	Ls, xln, dns
5594-95	<0.01		0.5	0.0	40.0	Ls, xln, dns
5595-96	<0.01		0.5	0.0	40.0	Ls, xln, dns
5596-97	8.4		3.9	5.1	5.1	Ls, detrital, reef frag, vuggy
5597-98	123		7.9	8.9	22.8	Ls, dtrl, reef frag, vuggy
5598-99	489		11.1	10.8	19.7	Ls, dtrl, reef frag, vuggy
5599-5600	7.7		6.9	10.1	17.4	Ls, dtrl, reef frag, vuggy
5600-01	4.2		7.6	9.2	18.4	Ls, dtrl, reef frag, vuggy
5601-02	23		8.8	7.9	15.9	Ls, dtrl, reef frag, vuggy
5602-03	1.6		4.3	16.3	53.5	Ls, dtrl, reef frag, vuggy
5603-04	6.3		2.6	19.2	15.4	Ls, reef frag, scat vugs
5604-05	0.20		1.1	0.0	18.2	Ls, frag, fw scat vugs

CORE LABORATORIES, INC.
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MAR 12 1965

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 Field CACHE Drilling Fluid CHEMICAL-WATER Analysts HUFF
 County MONTEZUMA State COLORADO Elev. 4959 GR Location SE SE Sec 34 T34N R20W

Lithological Abbreviations

SAND-SD 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-STY	SLIGHTLY-SL/ VERY-V/ WITH-W/
SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS K _L	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS		
				OIL	TOTAL WATER			

5605-06		0.37	1.7	11.8	11.8	Ls, frag, fw scat vugs		
5606-07		0.17	2.4	8.3	16.6	Ls, frag, fw scat vugs		
5607-08		0.88	4.3	11.6	14.0	Ls, frag, vuggy		
5608-09		0.22	4.2	16.6	9.5	Ls, frag, scat vugs		
5609-10	frac plg 10		1.7	11.8	23.6	Ls, frag, scat vugs		
5610-11		0.12	2.9	6.9	13.8	Ls, frag, scat vugs		
5611-12		0.23	3.7	13.5	10.8	Ls, frag, vuggy		
5612-13		0.22	3.6	5.6	16.7	Ls, frag, vuggy		
5613-14		0.14	2.2	9.1	18.2	Ls, frag, scat vugs		
5614-15		<0.01	8.4	8.3	41.2	Ls, dolo, f xln, ca incl		
5615-16		0.54	8.7	8.0	55.1	Ls, f xln/earthy		
5616-17		0.06	10.0	16.0	37.0	Ls, dolo, f xln/earthy		
5617-18		1.5	13.9	11.5	25.2	Ls, dolo, f xln/earthy, anhy incl		
5618-19		2.2	17.0	22.3	28.8	Dolo, f suc/earthy, pp vugs		
5619-20		1.0	12.4	22.6	37.1	Ls, dolo strgs, pp vugs, anhy incl		
5620-21		1.8	11.9	25.2	38.7	Ls, dolo strgs, pp vugs, anhy incl		
5621-22		0.14	9.0	13.3	37.8	Ls, dolo, earthy		
5622-23		0.45	11.5	15.7	38.2	Ls, dolo, earthy		
5623-24		0.42	13.0	16.1	33.1	Ls, dolo, earthy		
5624-25		0.19	16.0	16.9	32.5	Ls, dolo, earthy		
5625-26		0.81	14.8	18.2	44.0	Ls, dolo, earthy		
5626-27		0.66	14.2	14.8	33.1	Ls, dolo, earthy		
5627-28		4.4	19.7	19.8	46.2	Ls, dolo, earthy		
5628-29		0.59	15.0	10.0	43.3	Ls, dolo, earthy, anhy incl		
5629-30		1.8	13.3	9.8	27.1	Ls, dolo, earthy, anhy incl		
5630-31		0.44	12.6	5.6	54.7	Ls, dolo, earthy, fw vugs, anhy incl		
5631-32		0.08	7.8	9.1	35.1	Ls, dolo, earthy		

CORE LABORATORIES, INC.
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Lithological Abbreviations

SAND-SH SHALE-SH LIME-LM		DOLOMITE-DOL CHERT-CH GYPSUM-GYP	ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS	SANDY-SBY 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-SL/ VERY-V/ WITH-W/
SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS KL	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS			
				OIL	TOTAL WATER				
5517-18		0.06	2.1	9.5	28.6	Ls, dtrl, sm vugs in xln mtx, anhy incl			
5518-19		0.07	4.7	14.9	12.8	Ls, dtrl, sm vugs in xln mtx, anhy incl			
5519-20	frac plg	1.1	2.1	9.5	19.1	Ls, dtrl, sm vugs in xln mtx, anhy incl			
5520-21		2.4	4.1	12.2	14.6	Ls, dtrl, sm vugs in xln mtx, anhy incl			
5521-22		0.08	1.6	12.5	37.5	Ls, dtrl, sm vugs in xln mtx, anhy incl			
5522-23		0.35	7.8	11.5	20.5	Ls, dtrl, sm vugs in xln mtx, anhy incl			
5523-24		0.79	4.7	14.9	8.5	Ls, dtrl, sm vugs in xln mtx, anhy incl			
5532-33		0.39	21.7	26.7	36.7	Dolo, v f suc/earthy			
5534-35		0.02	10.0	7.0	83.0	Dolo, v f suc/earthy			
5535-36		0.20	15.0	16.0	42.7	Dolo, v f suc/earthy, anhy incl			
5536-37		0.33	17.8	25.9	34.8	Dolo, v f suc/earthy, anhy incl			
5537-38	frac plg		8.4	26.2	27.4	Anhy pbls in f suc/earthy dolo mtx			
5538-39		5.2	8.8	19.3	21.6	Anhy pbls in f suc/earthy dolo mtx			
5539-40		0.28	6.4	26.6	17.2	Anhy pbls in f suc/earthy dolo mtx			
5540-41		0.12	3.3	15.2	21.2	Ls, dtrl, vugs in mtx, anhy infill			
5541-42		1.9	5.5	12.8	14.6	Ls, dtrl, vugs in mtx, anhy infill			
5542-43		0.75	3.5	14.3	25.7	Ls, dtrl, vugs in mtx, anhy infill			
5543-44		3.2	6.2	14.5	12.9	Ls, dtrl, vugs in mtx, mtx pt dolo, anhy			
5544-45		8.0	5.9	11.9	25.4	Ls, dtrl, vugs in mtx, mtx pt dolo, anhy			
5545-46		1.3	7.8	15.4	32.1	Ls, dtrl, vugs, in mtx, mtx pt dolo, anhy			
5551-52		3.3	5.2	17.3	15.4	Ls, dtrl, mtx pt dolo, scat vugs			
5552-53		4.4	9.8	12.3	24.5	Ls, dtrl, f suc dolo mtx, vuggy			
5553-54		0.63	10.3	8.8	11.7	Ls, dtrl, f suc dolo mtx, vuggy, anhy incl			
5554-55		43	11.6	13.8	20.7	Ls, dtrl, f suc dolo mtx, vuggy, anhy incl			
5555-56		35	16.9	18.3	28.4	Ls, dtrl, f suc dolo mtx, vuggy			
5556-57		39	18.0	16.7	36.1	Dolo, f suc, vuggy, ls frag			
5557-58		10	14.2	19.0	27.5	Dolo, f suc, vuggy, ls frag, anhy infill			
5558-59		1.1	20.8	19.2	30.8	Dolo, f suc, vuggy, anhy incl			
5559-60		15	20.7	15.5	48.3	Dolo, f suc, vuggy, anhy incl			
5560-61		53	17.6	14.8	25.0	Dolo, f suc, vuggy, anhy incl, ls frags			
5561-62		123	13.5	23.0	31.9	Dolo, f suc, vuggy, anhy incl, ls frags			
5562-63		81	13.0	21.5	26.1	Ls, dtrl, reef frag, suc dolo cem vuggy			
5563-64		84	16.1	14.9	24.9	Ls, dtrl, reef frag, suc dolo cem vuggy			
5564-65		39	12.3	9.0	25.2	Ls, dtrl, reef frag, suc dolo cem vuggy			
5565-66		4.8	15.9	17.0	24.5	Ls, dtrl, reef frag, suc dolo cem vuggy			

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CORE LABORATORIES, INC.
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 Field CACHE Drilling Fluid CHEMICAL-WATER Analysts HUFF
 County MONTEZUMA State COLORADO Elev. 4959 GR Location SE SE Sec 34 T35N R20W

Lithological Abbreviations

SAND - SD SHALE - SH COLOMITE - DOL ANHYDRITE - ANHY CONGLOMERATE - CONG FINE - FN FRACTURED - FRAC SLIGHTLY - SL/
 LIMESTONE - LM CHERT - CH GYPSUM - GYP FOSSILIFEROUS - FOSS LIMY - LIMY MEDIUM - MED GRAY - GRN GRANULAR - GRNL BROWN - BRN VUGGY - VUGY LAMINATION - LAM VERY - V/
 STYLOLITIC - STY WITH - W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	OIL	TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
5493-94		1.1	12.6	16.7	41.3	Dolo, f suc, ltl anhy cem
5498-99		1.3	11.6	15.5	33.6	Dolo, pt f suc, pt f xln wi pp vugs,
5507-08		3.3	13.7	10.9	27.7	Dolo, f suc, anhy incl
5512-13		4.8	12.0	13.4	35.0	Dolo, pt suc, pt f xln wi pp vugs, anhy