

PRELIMINARY REPORT

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. 1

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CORE ANALYSIS RESULTS

Company CITIES SERVICE OIL COMPANY Formation MISSISSIPPIAN File GP-1-6214
Well PYLE "A" NO. 1 Core Type DIAMOND Date Report 12-4-66
Field WILMORE Drilling Fluid WATER BASE MUD Analysts KUHLMAN
County COMANCHE State KANSAS Elev. 2048' KB Location SEC. 13-31S-18W

Lithological Abbreviations											
SAND-SD SHALE-SH LIME-LN	DOLomite-DOL CHERT-CH GYPSUM-GYP	ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS	SANDY-SBY SHALY-SHY LIMY-LMY	PINE-PN MEDIUM-MED COARSE-CSE	CRYSTALLINE-XLN GRAIN-GRN GRANULAR-GRNL	BROWN-BRN GRAY-GY VUGGY-VGY	FRACTURED-FRAC LAMINATION-LAM STYLOLITIC-STY	SLIGHTLY-SL/ VERT-V/ WITH-W/			
SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY		POROSITY PER CENT	RESIDUAL SATURATION PERCENT PORE		SAMPLE DESCRIPTION AND REMARKS				
		PERM. MAX.	PERM. 50"		OIL	TOTAL WATER					
P 1	10.0-11.6	448.4	2.65	0.2	6.3	8.3	69.4	Lm, cherty, vert/frac			
P 2	11.6-12.4	11.3	1.05	0.1	5.3	8.3	57.4	Lm, vert/frac			
P 3	12.4-14.0	45.6	1.66	0.2	5.5	8.2	67.6	Lm, sl/shy, sl/cherty, vert/frac			
P 4	14.0-15.4	77.4	1.89	0.1	6.7	6.6	59.0	Lm, sl/cherty, vert/frac			
P 5	15.4-16.7	0.3-0.6	0.1	1	4.3	12.3	70.2	Lm, sl/shy, vert/frac			
P 6	16.7-18.0	1.1	0.53	1.0	9.7	8.9	51.4	Lm, vert/frac			
P 7	18.0-19.4	1.0	0	0.9	10.6	12.0	57.0	Lm, sl/shy, vert/frac			
P 8	19.4-20.5	0.3-0.5	0.3	1.5	10.0	6.8	64.1	Lm, sl/shy, vert/frac			
P 9	20.5-21.8	3.0	0.62	2.5	12.2	7.3	66.8	Lm			
P 10	21.8-22.9	0.2-0.7	0.2	12.2	5.1	69.2	Lm, sl/cherty				
P 11	22.9-24.5	9.7	1.57	5.3	13.5	5.6	71.3	Lm, sl/cherty, vert/frac			
M 12	24.5-26.2	10.9	1.76	9.7	25	14.7	5.7	74.4	Lm, sl/shy, cherty		
W 13	26.2-27.9	2.2	0.58	1.9	27	15.9	5.3	74.7	Lm, sl/shy, cherty		
P 14	27.9-29.5	0.2	1.12	16	3	10.2	1.3	87.0	Lm, sl/shy, sl/cherty, vert/frac		
P 15	29.5-31.0	<0.1	1.5	12.7	58.5	1.9	82.0	Lm, vert/frac			
P 16	31.0-32.8	<0.1	1.8	<0.1	12.4	6.9	1.3	84.3	Lm, sl/shy, vert/frac		
P 17	32.8-34.4	0.1	1.6	<0.1	10	56	6.6	1.5	86.4	Lm, sl/shy, cherty	
P 18	34.4-36.2	0.1	1.8	0.1	14	76	8.2	0.6	85.2	Lm, sl/shy, sl/cherty	
P 19	36.2-38.0	0.1	1.8	0.1	17	82	9.9	1.0	87.3	Lm, sl/shy, sl/cherty	
P 20	38.0-39.6	0.3	0.83	70.2	17.6	11.0	1.2	88.6	Dol, sl/shy, cherty		
P 21	39.6-41.0	-0.1	1.4	0.1	10	08	7.2	1.7	83.6	Lm, sl/shy, cherty, vert/frac	
P 22	41.0-42.7	0.1	1.7	0.1	13	6	8.0	1.1	87.6	Lm, sl/shy, cherty	
P 23	42.7-44.0	0.2	0.90	0.1	13	9	10.7	1.3	83.1	Lm, sl/shy, cherty	
P 24	44.0-45.5	10.9	1.56	0.1	13	35	8.9	1.1	84.8	Lm, sl/shy, cherty, vert/frac	
P 25	45.5-46.7	0.1	1.2	0.1	9	36	7.8	1.0	85.1	Lm, sl/shy, sl/cherty	
P 26	46.7-48.4	0.1	1.7	0.1	15	47	9.1	1.1	82.7	Lm, sl/shy, cherty	
G 26	5048.4-49.0								Lost core		

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P.O. BOX NO. 308, GREAT BEND, KANSAS

5CC CITIES SERVICE OIL COMPANY, ATTN: MR. F. J. HIPPS
105 S. E. 45 STREET, OKLAHOMA CITY, OKLAHOMA

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