CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company El Paso Natural Gas Company | Formation Dakota | File RP-3-997
Well San Juan 30-6 No. 31 | Core Type Diamond Conv. | Date Report 6/1/59
Field Wildcat | Drilling Fluid Gas | Analysts English
County Rio Arriba State N.Mexico Elev. 6364 DF Location Sec33 30N 6W

Lithological Abbreviations

SAND-SD, SHALE-SH, LIME-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	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
1	7634-35	<0.01	0.9	22.3	44.5	
2	35-36	0.01	1.9	0.0	31.6	
3	36-37	0.01	2.5	0.0	56.1	
4	37-38	0.05	3.2	0.0	56.3	
5	38-39	0.07	3.3	0.0	54.6	
6	39-40	0.01	2.5	0.0	84.1	
7	40-41	0.10	2.9	0.0	79.3	
8	41-42	<0.01	2.6	0.0	77.0	Vertical Fracture
9	42-43	<0.01	2.1	0.0	90.6	Vertical Fracture
10	43-44	0.01	1.8	0.0	94.4	
11	44-45	<0.01	2.0	0.0	95.1	
12	45-46	0.01	1.9	0.0	89.5	Vertical Fracture
13	46-47	<0.01	2.2	0.0	95.4	Vertical Fracture
14	7647-48	<0.01	1.8	0.0	94.6	

7634-7648 Low porosity (2.2% average) and low permeability (0.23 md./ft. average) show this interval to have no commercial value . Other properties are : saturation of residual oil 1.6% average and saturation of total water 74.5% average .

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Lithological Abbreviations

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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
15	7716-17	0.13	1.5	13.3	40.0	
16	17-18	0.04	5.3	0.0	11.3	
17	18-19	0.01	2.3	0.0	26.5	
18	19-20	0.9	1.6	12.5	37.5	
19	20-21	<0.01	0.6	0.0	33.3	
20	21-22	<0.01	2.0	10.0	85.0	
21	22-23	<0.01	1.7	0.0	94.0	
22	23-24	<0.01	2.1	9.1	71.5	
23	24-25	<0.01	1.2	0.0	83.4	
24	7725-26	<0.01	2.2	0.0	95.5	

7716-7726 Low porosity (4.5% average) and high total water saturations (57.8% average) show this interval to have no commercial value . Other properties are : permeability 0.11 md./ft. average and saturation of residual oil 4.5% average .

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Lithological Abbreviations

SAND-SD SHALE-SH LIME-LM | DOLOMITE-DOL CHERT-CH GYPSUM-GYP | ANHYDRITE-ANHY CONGLOMERATE-CONG FOSS.-FERUGS 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	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
25	7740-41	0.04	1.9	10.5	52.7	
26	46-47	0.04	1.6	31.3	50.0	
27	51-52	0.01	2.4	8.3	66.7	
28	52-53	0.06	7.9	0.0	30.4	
29	53-54	1.9	10.2	5.0	16.8	
30	54-55	0.27	7.8	6.4	15.4	
31	55-56	0.01	1.6	0.0	50.0	
32	56-57	0.03	4.2	4.8	23.9	
33	57-58	0.17	4.8	0.0	4.2	
34	58-59	0.05	0.7	0.0	28.4	
35	59-60	0.9	0.6	0.0	33.3	
36	7760-61	1.0	1.2	0.0	16.7	

7740-7753 Low porosity (3.4% average) shows this interval to have no commercial value . Other properties are : permeability 0.04 md./ft. average ; saturation of total water 49.9% average ; and saturation of residual oil 12.5% average .

7753-7754 This one-foot interval has saturations , which are favorable for the production of a rich gas (residual oil 5.0% average and total water 16.8%). The permeability (1.9%) and the porosity (10.2%) are within the range that should respond to a formation treatment . However , the interval is too thin to make a commercially successful well .

7754-7761 Low porosity (2.9% average) show this interval to have no commercial value . Other properties are saturation of residual oil 1.6% average ; permeability 0.34 md./ft. average ; and saturation of total water 24.5% average .