

Drilled Sidewall Core Analysis Report

Company: Edge Petroleum Op. Co, Inc.
File No.: 05427
Well : South East Lusk 34 Federal #2
Location: 1750' FNL & 530' FWL, Sec 34, T19S, R32E

Field: South Lusk
Formation:
County: Lea County, New Mexico

3D-025-37357

Sample Number	Depth	Air Permeability	Klinkenberg Permeability	Porosity	Grain Density	Sw	So	Gas Units	Fluorescence	Sample Description
	ft	mD	mD	%	g/cc	%	%		%	Description

Confining Pressure 500psi

1	4,610.0	39.0	37.4	21.26	2.65	51.4	18.6	500+	100	Gld
2	6,604.0	288	284	24.47	2.66	60.5	19.0	137	100	Yl-dl yl
3	7,308.0	0.3456	0.2645	13.28	2.65	75.7	0.0	111	tr	Brt yl lam
4	7,398.0	0.2107	0.1531	12.10	2.64	45.5	18.7	500+	95	Brt yl lam
5	7,420.0	0.1598	0.1136	11.63	2.65	48.1	17.8	500+	90	Gld lam
6	7,658.0	0.0662	0.0428	4.36	2.67	71.3	0.0	29	0	
7	7,672.0	5.64	5.13	19.03	2.65	63.6	18.1	57	95	Grn lam
8	4,572.0	11.7	10.9	18.93	2.65	59.6	18.4	198	100	Gld lam
9	4,580.0	9.12	8.43	18.86	2.64	50.8	17.9	500+	100	Gld lam
10	4,794.0	47.3	45.5	22.97	2.66	55.9	17.5	51	100	Grn-dl yl
11	4,855.0	34.9	33.4	20.51	2.65	58.3	20.8	428	100	Brt yl
12	4,892.0	3.89	3.49	14.58	2.66	78.9	0.0	6	0	
13	4,898.0	20.5	19.4	18.88	2.65	74.8	0.0	5	0	
14	4,909.0	63.6 (frac)	61.5 (frac)	22.57	2.65	54.8	19.2	39	100	DI grn
15	4,916.0	6.50	5.96	17.19	2.66	78.0	tr	10	5	Brt gld lam
16	4,940.0	124.5078	121.5666	24.35	2.64	80.2	0.0	4	0	
17	4,950.0	341 (frac)	336 (frac)	25.25	2.63	76.9	0.0	8	0	
18	5,003.0	149	146	25.97	2.64	74.6	0.0	6	0	
19	5,028.0	114	111	20.94	2.66	56.6	17.2	142	90	Gld-brt gld sp
20	5,044.0	167	163	23.60	2.65	79.6	0.0	6	0	



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Number		Permeability	Permeability		Density			Units			
	ft	mD	mD	%	g/cc	%	%		%	Description	
21	5,966.0	0.0629	0.0388	7.00	2.59	66.0	tr	500+	5	DI gld lam	
22	5,973.0	0.0065	0.0027	3.37	2.54	75.9	0.0	500+	0		
23	6,604.5	391	385	25.21	2.64	58.1	19.1	20	100	Brt yl	
24	6,930.0	1.17	0.9817	12.85	2.68	52.5	17.7	359	90	Yl-brt yl sp	
25	6,943.0	1.99	1.71	15.61	2.67	45.3	19.7	458	100	Yl-brt yl sp	
26	7,000.0	21.8	20.7	17.98	2.66	47.4	20.4	500+	100	Yl-brt yl sp	

Note: 500+ gas reading represents a saturated detector filament

1% CH4 in air = 100 gas units

Note: tbfa indicates samples that are too broken for analysis

Permeability versus Porosity @500 psi Confining Pressure

