

Drilled Sidewall Core Analysis Report

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AUG 02 2005
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Company: Edge Petroleum Operating Company, Inc.
File No.: 05377
Well : Red Lake 29 "I" State No. 2
Location: 2310' FSL & 330' FEL, Sec 29, T17S, R28E

Field: Red Lake
Formation:
County: Eddy County, New Mexico

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

Confining Pressure 500psi

1	675.0	0.0142	0.0070	1.10	2.92	73.4	0.0	8	0	Anhy:omg intxn por xln
2	677.5	59.5	57.4	24.98	2.78	60.0	19.3	372	100	DI yl Dol:yl vuggy intxn por xln
3	680.0	0.0135	0.0065	1.07	2.93	74.9	0.0	0	0	Anhy:cm intxn por xln
4	697.0	28.9	27.6	20.03	2.77	54.7	19.0	409	100	DI gld Snd/Dol:yl-tn intgr por styl xln
5	1,440.0	0.2639	0.2018	10.00	2.70	61.8	14.1	357	50	V dl gld-brn Ss:bm-gry vfg wl srt md sm dol sl pyr
6	1,796.0	0.0212	0.0113	1.02	2.77	75.7	0.0	0	0	Dol:tn intxn por sm anhy sm snd styl sl pyr xln
7	1,798.0	0.0494	0.031	2.05	2.84	71.9	0.0	0	0	Dol:tn intxn por styl sm anhy xln
8	1,825.0	0.0500	0.0312	5.56	2.73	83.8	0.0	14	0	Ss:rd vfg mod srt sbmd dol sm anhy
9	1,896.0	0.1789	0.1336	7.78	2.70	80.9	0.0	2	0	Ss:gry vfg wl srt md styl sl dol sl pyr
10	1,964.0	1.42	1.19	13.98	2.65	45.7	18.2	500+	95	Br t yl Ss:tn vfg wl srt sbmd styl
11	2,090.0	2.44 (frac)	2.11 (frac)	15.76	2.85	47.4	20.0	294	100	Br t yl Dol:yl-tn ppp intxn por sl anhy styl xln
12	2,437.0	1.47	1.24	10.49	2.85	49.1	18.9	363	100	Yl-dl yl sp Dol:tn ppp sm anhy foss xln
13	2,522.0	0.5117	0.4191	7.21	2.86	48.6	20.4	500+	100	DI-v dl yl sp Dol:ltbm ppp xln ool
14	2,673.0	0.0219	0.0119	6.41	2.82	76.8	0.0	7	0	DI gld mf Dol:tn sml vugs styl frac xln
15	2,688.0	3.50	3.12	18.42	2.74	65.6	11.7	500+	30	Br t yl Cht/Dol:sml vugs sm anhy styl xln
16	3,018.0	0.0718	0.048	5.66	2.83	26.2	tr	309	5	Yl sp Dol:bm ppp anhy nods foss styl xln
17	3,146.0	1.61	1.38	10.38	2.83	83.4	0.0	7	0	Dol:tn ppp sl anhy sl pyr xln ool
18	3,340.0	0.0922	0.0629	9.13	2.71	52.0	17.4	500+	90	DI-v dl yl Ss:gry vfg wl srt sbmd sl dol sl pyr
19	3,426.0	7.30	6.71	9.78	2.84	44.8	19.5	500+	100	DI-v dl yl Dol:tn sml vugs styl v sl pyr xln
20	3,508.0	0.2595	0.2001	6.37	2.87	42.7	19.8	500+	100	DI-v dl yl Dol:tn sml vugs v sl pyr sl anhy xln

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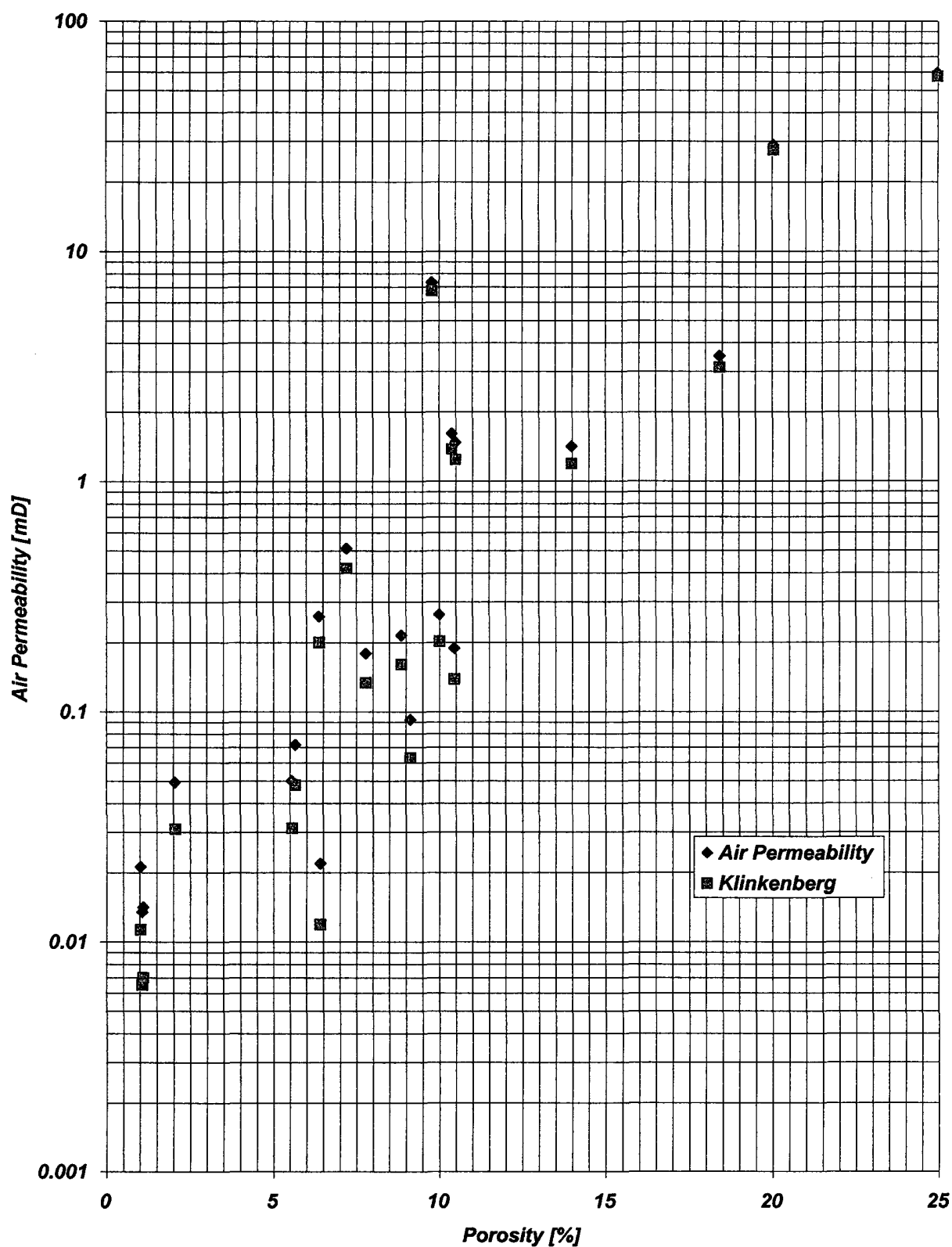
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Number		Permeability	Permeability		Density			Units			
	ft	mD	mD	%	g/cc	%	%		%	Description	
21	3,549.0	0.2144	0.1604	8.85	2.84	45.1	19.2	500+	100	DI-v dl yl	Dol:tn ppp v sl pyr peld xln
22	3,563.0	0.1883	0.1383	10.45	2.88	48.5	17.9	500+	95	DI-v dl yl	Dol:bm sml vugs ppp anhy styl xln

Note: 500+ gas reading represents a saturated detector filament

1% CH₄ in air = 100 gas units

Permeability versus Porosity @500 psi Confining Pressure



Reservoir Quality Index versus Normalized Porosity

