

Devon Energy
NEBU 71A Well

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CORE LABORATORIES
HOUSTON ADVANCED TECHNOLOGY CENTER



CL File No.: HOU-020617
Date: June 27, 2002
Analyst(s): RP, JH, LA

30-045-30668

CMS-300 ROTARY SIDEWALL CORE ANALYSIS

Shot Number	Depth (ft)	Geologic Zone	Net Confining Stress (psig)	Porosity (%)	Permeability		b(He) (psi)	Beta ft ⁻¹	Alpha microns	Grain Density g/cm ³	Footnote
					Klinkenberg (md)	Kair (md)					
23	5544.00	Menefee	1200	10.23	0.014	0.027	75.49	1.27E+15	5.82E+04	2.668	
22	5639.00	Point Lookout	1200	8.84	0.013	0.024	64.60	3.35E+15	1.44E+05	2.673	
21	5677.00	Point Lookout	1200	9.21	0.019	0.032	54.40	3.12E+15	1.77E+05	2.657	
20	5690.00	Point Lookout	1200	7.91	0.003	0.007	123.41	3.72E+16	3.36E+05	2.697	
19	5734.00	Basal Pt. Lookout	Ambient	6.02	N/A	0.052	N/A	N/A	N/A	2.705	(3)
18	5768.00	Basal Pt. Lookout	Ambient	5.31	N/A	0.064	N/A	N/A	N/A	2.652	(3)
16	7659.00	Dakota	Ambient	5.80	N/A	0.529	N/A	N/A	N/A	2.660	(2), (3)
15	7661.00	Dakota	1200	2.26	0.057	0.082	32.80	3.14E+13	5.43E+03	2.657	
14	7665.00	Dakota	Ambient	9.27	N/A	0.596	N/A	N/A	N/A	2.623	(2), (3)
13	7695.00	Dakota	Ambient	3.63	N/A	1.18	N/A	N/A	N/A	2.623	(2), (3)
12	7903.00	Dakota	Ambient	7.00	N/A	11.4	N/A	N/A	N/A	2.633	(2), (3)
11	7911.00	Dakota	Ambient	4.03	N/A	0.386	N/A	N/A	N/A	2.636	(3)
10	7916.00	Dakota	Ambient	12.21	N/A	3.56	N/A	N/A	N/A	2.618	(2), (3)
9	7950.00	Dakota	Ambient	5.52	N/A	0.440	N/A	N/A	N/A	2.628	(2), (3)
8	7970.00	Dakota	1200	3.41	0.004	0.009	114.97	8.50E+15	1.02E+05	2.645	
7	7992.00	Dakota	1200	3.70	0.022	0.037	53.95	7.02E+14	4.92E+04	2.680	
6	7995.00	Dakota	1200	3.67	0.006	0.012	104.56	1.93E+15	3.43E+04	2.666	
5	8000.00	Dakota	1200	7.20	0.020	0.028	29.82	6.27E+15	4.12E+05	2.650	
4	8008.00	Dakota	1200	4.46	<0.001	<0.001	N/A	N/A	N/A	1.742	(1)
3	8038.00	Dakota	1200	5.35	0.007	0.015	98.71	6.82E+15	1.53E+05	2.648	
2	8041.00	Dakota	Ambient	2.59	N/A	0.227	N/A	N/A	N/A	2.693	(3)
1	8045.00	Dakota	1200	7.35	0.034	0.053	43.66	9.01E+13	9.06E+03	2.649	

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					Klinkenberg (mD)	Kair (mD)					

Footnotes:

- (1) Permeability below cutoff of 0.001 mD. Ambient porosity determined using helium Vgrain and caliper Vbulk.
- (2) Visible fracture(s), chip(s), or parting(s) in sample. Permeability and or porosity may be optimistic.
- (3) Poor quality or irregular shaped sample. Unable to obtain measurement at stress. Porosity determined using Archimedes bulk volume @ ambient pressure. Permeability determined using unsteady-state profile permeameter.