

Drilled Sidewall Core Analysis Report

Company : H.L. Brown Operating, L.L.C.
 File No. : 04269
 Well : Paduca 9 Federal #1
 Location :

Field: Paduca Delaware (Olds)
 Formation:
 County : Lea, NM

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

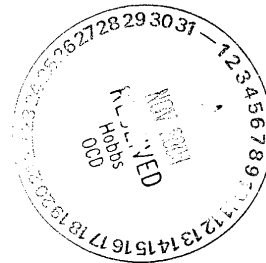
Confining Pressure 500psi

1	4,640.0	1.3371	1.1119	19.06	2.65	86.2	0.0	3	0	
2	4,644.0	1.6554	1.4119	21.50	2.66	46.2	22.5	43	20	Brt yl lam
3	4,649.0	1.4932	1.2560	19.05	2.69	87.4	0.0	9	0	
4	4,676.0	1.8646	1.6023	20.24	2.66	80.5	0.0	4	0	
5	4,680.0	0.9083	0.7336	16.30	2.66	79.2	0.0	7	0	
6	4,685.0	0.8230	0.6754	15.70	2.67	80.5	0.0	6	0	
7	4,693.0	1.7560	1.5104	19.82	2.65	85.1	0.0	8	0	
8	4,696.0	2.3569	2.0647	21.19	2.64	86.9	0.0	4	0	
9	4,698.0	2.3152	2.0271	19.53	2.65	51.8	18.3	80	45	Brt yl lam
10	4,713.0	49.805(frac)	48.1213(frac)	29.91	2.66	76.4	0.0	2	0	
11*	4,726.0	tbfa		11.85	2.65	89.8	0.0	10	0	

Note: 500+ gas reading represents a saturated detector filament

1% CH4 in air = 100 gas units

Note: Analysis for samples with an asterisk was performed at ambient conditions



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Sample Number	Depth	Grain Density	Porosity	Air Permeability	Klinkenberg Permeability	Porosity	Air Permeability	Klinkenberg Permeability
	ft	g/cc	%	mD	mD	%	mD	mD
				Confining Pressure 500psi		Confining Pressure 1,600psi		
1	4,640.0	2.65	19.06	1.3371	1.11194	17.61	0.7354	0.6010
2	4,644.0	2.66	21.50	1.6554	1.4119	19.25	0.6575	0.5496
3	4,649.0	2.69	19.05	1.4932	1.2560	17.70	0.7045	0.5734
4	4,676.0	2.66	20.24	1.8646	1.6023	17.59	0.5447	0.4486
5	4,680.0	2.66	16.30	0.9083	0.7336	14.14	0.3631	0.2798
6	4,685.0	2.67	15.70	0.8230	0.6754	14.61	0.2767	0.2137
7	4,693.0	2.65	19.82	1.7560	1.5104	18.73	0.7231	0.6120
8	4,696.0	2.64	21.19	2.3569	2.0647	20.26	1.0585	0.9188
9	4,698.0	2.65	19.53	2.3152	2.0271	18.32	1.4254	1.2274
10	4,713.0	2.66	29.91	49.8052(frac)	48.1213(frac)	24.72	2.7272	2.5997
11	4,726.0	2.65	11.85	tbfa				

