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STIM-LAB, Inc.

Company: Lebsack, Inc.  
 Well: North River #1  
 Location: Rice County, Kansas  
 SEC. 34, T20S-R10W

Date: 8/9/2006  
 Files: SL 7379  
 Analyst(s): cp

**STIM-LAB  
 VERTICAL  
 CMS-300 CORE ANALYSIS DATA**

Sample Number	Depth (ft)	Net Confining Stress (psig)	Porosity (%)	Permeability		Beta ft <sup>-1</sup>	Alpha microns	Grain Density g/cm <sup>3</sup>	Lithology
				Kair	Klinkenberg				
				(mD)	(mD)				
1V	3060.3	800	2.0	0.003	0.001	1.25E+17	5.00E+05	2.68	
2V	3061.1	800	4.9	0.069	0.046	2.36E+13	3.35E+03	2.68	
3V	3062.0	800	22.1	2.48	1.77	5.81E+10	3.29E+02	2.69	
4V	3063.0	800	14.7	0.284	0.171	9.36E+11	5.02E+02	2.69	
5V	3064.0	800	22.5	0.928	0.702	9.61E+10	2.17E+02	2.76	
6V	3065.0	800	23.6	4.34	3.52	1.21E+11	1.38E+03	2.70	
7V	3066.0	800	8.5	0.042	0.024	5.50E+14	4.25E+04	2.70	
8V	3067	800	13.4	2.22	1.79	5.37E+10	3.08E+02	2.70	
9V	3068	800	11.0	0.399	0.314	4.75E+12	4.73E+03	2.69	
10V	3069	800	19.0	7.85	6.45	8.56E+10	1.78E+03	2.70	
11V	3070	800	22.1	0.514	0.348	3.02E+11	3.37E+02	2.70	
12V	3071	800	21.6	1.70	1.37	7.69E+11	3.37E+03	2.68	
13V	3072	800	22.6	0.099	0.060	4.88E+12	9.42E+02	2.68	
14V	3073	800	24.9	2.92	2.40	1.31E+11	1.01E+03	2.70	
15V	3074	800	24.7	0.918	0.662	4.27E+10	9.06E+01	2.70	
16V	3075	800	24.2	0.706	0.501	1.08E+12	1.72E+03	2.70	
17V	3076	800	23.8	1.47	1.10	2.08E+11	7.33E+02	2.70	
18V	3077	800	5.8	0.012	0.006	1.19E+16	2.36E+05	2.67	

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Date: 5/22/2006  
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**STIM-LAB  
 CMS 300 ROUTINE CORE ANALYSIS**

Sample #	Depth feet	Helium Porosity %	Air Permeability md	Saturation		Grain Density g/cm	Lithology
				Oil % Pore Volume	Water % Pore Volume		
1	3060.5	4.4	0.025	2.0	73.3	2.70	Lm, foss, sl tr yel flu
1V	3060.3	2.0	0.003	N/A	N/A		
2	3061.5	7.2	0.024	4.9	72.0	2.71	Lm, pis, sl tr yel flu
2V	3061.1	4.9	0.069	N/A	N/A		
3	3062.5	22.8	6.60	10.7	27.4	2.70	Lm, vug, ool, 35% yel flu
3V	3062	22.1	2.48	N/A	N/A		
4	3063.5	10.8	0.165	10.6	20.5	2.70	Lm, vug, ool, 20% yel flu
4V	3063	14.7	0.284	N/A	N/A		
5	3064.5	24.1	7.82	7.9	15.6	2.70	Lm, vug, ool, 20% yel flu
5V	3064	22.5	0.928	N/A	N/A		
5R	6064.5	24.2	6.93				
6	3065.5	21.4	9.18	8.3	20.1	2.70	Lm, vug, ool, 65% yel flu
6V	3065	23.6	4.34	N/A	N/A		
7	3066.5	5.4	0.119	9.9	47.5	2.71	Lm, 15% yel flu
7V	3066.0	8.5	0.042	N/A	N/A		
8	3067.4	20.6	16.5	6.0	24.4	2.70	Lm, vug, 50% yel flu
8V	3067.0	13.4	2.22	N/A	N/A		
8R	3067.39	21.0	13.1				



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Sample #	Depth feet	Helium Porosity %	Air Permeability md	Saturation		Grain Density g/cm	Lithology
				Oil	Water		
				% Pore Volume			
9	3068.8	13.3	1.31	5.2	22.6	2.71	Lm, vug, 35% yel flu
9V	3068.0	11.0	0.40	N/A	N/A		
10	3069.5	23.9	2.92	3.4	20.6	2.70	Lm, vug, ool, 55% yel flu
10V	3069.0	19.0	7.85	N/A	N/A		
11	3070.5	26.1	1.61	3.3	17.5	2.70	Lm, vug, ool, 60% yel flu
11V	3070.0	22.1	0.514	N/A	N/A		
12	3071.5	23.7	16.9	4.5	25.1	2.70	Lm, vug, ool, 55% yel flu
12V	3071.0	21.6	1.70	N/A	N/A		
13	3072.5	21.2	1.99	4.3	32.7	2.70	Lm, vug, ool, 50% yel flu
13V	3072	22.6	0.099	N/A	N/A		
14	3073.5	25.7	1.41	5.9	21.0	2.71	Lm, vug, ool, 50% yel flu
14V	3073	24.9	2.92	N/A	N/A		
14R	3073.5	25.5	1.01				
15	3074.5	19.9	3.51	5.4	31.1	2.70	Lm, vug, ool, 50% yel flu
15V	3074	24.7	0.918	N/A	N/A		
16	3075.5	22.4	2.83	8.6	23.5	2.70	Lm, vug, ool, 45% yel flu
16V	3075	24.2	0.706	N/A	N/A		



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Sample #	Depth feet	Helium Porosity %	Air Permeability md	Saturation		Grain Density g/cm	Lithology
				Oil	Water		
				% Pore Volume			
17	3076.6	11.5	8.06	9.8	31.0	2.71	Lm, vug, 33% yel flu
17V	3076	23.8	1.47	N/A	N/A		
18	3077.5	6.7	1.24	9.5	35.6	2.71	Lm, vug, ool, 25% yel flu
18V	3077	5.8	0.012	N/A	N/A		
19	3078.5	10.4	1.03	9.8	39.7	2.71	Lm, pp, sty, 35% yel flu
20	3079.8	4.0	0.072	6.8	67.7	2.71	Lm, sty, sl tr yel flu
21	3080.5	5.1	0.236	8.6	57.7	2.71	Lm, sl vug, sty, 15% yel flu
22	3081.3	3.9	0.162	8.8	60.8	2.71	Lm, frac, 5% yel flu

Plugs 1 to 22 first analysis complete  
 Plugs 1V to 18V vertical analysis complete  
 Plugs 5R, 8R, and 14R performed for comparison

The first analysis on the horizontal plugs was conducted in our Midland facility at 400 psi. The vertical plugs were analyzed in Duncan at 800 psi stress because of the different type of equipment used. The equipment in our Duncan facility requires a minimum pressure of 800 psi. We re-ran the horizontal analysis on three plugs to compare our analysis with the data from Midland. We compared the permeability from plugs 5, 8, and 14, which is slightly lower as expected.

The vertical plugs were taken as close as possible from the same area as the horizontal plugs. This was accomplished by cutting a 4" slice of core from the same area as the horizontal plugs were taken, positioning the sample vertically and drilling down into the middle of the core. This allows one end of the plug to be as close to the horizontal sample as possible.