

Smith Production Company  
 Mermentau Minerals & Land Co. 13 No. 1  
 Mermentau Field (Fiddle Prospect)  
 Cameron Parish, Louisiana  
 Section 013, T14S-R06W  
 API No.: 17023230860000



FILE NO.: LL-54483  
 ANALYST: L. Simon  
 TECH: A. Broussard  
 DATE: October 11, 2011  
 CORES: Halliburton

**PERCUSSION SIDEWALL CORE ANALYSIS**

In. Rec.	Sample Depth Feet	Permeability mD	Porosity %	Pore Volume		Prob Prod	Bulk Volume		Comb. Gas	Crit. Water %	QA Factor	Core Lithology
				Saturation			Saturation					
				Oil %	Water %		Oil %	Gas %				
2.0	7058.0	12.0	19.1	10.0	77.8	Oil	1.9	2.3	40	64	2m	Sd vf-fg slty shy foss ft yl-wh flu
1.5	7060.0	350.0	27.6	13.9	68.0	Oil	3.8	5.0	77	41	2m	Sd vfg slty sshy scalc yl-wh flu 41° API
2.0	7062.0	505.0	28.3	9.9	66.5	Oil	2.8	6.7	60	39	2m	Sd vfg slty sshy lam scalc stks yl-wh flu
1.5	7064.0	485.0	27.7	10.0	65.1	Oil	2.8	6.9	100+	39	2m	Sd vfg slty sshy scalc yl-wh flu
0.0	7066.0											Misfire
0.0	7068.0											Empty Barrel
1.5	7083.0	750.0	28.0	11.1	64.9	Oil	3.1	6.7	52	35	3m	Sd vfg slty sshy yl-wh flu 36° API
1.0	7085.0	510.0	27.0	0.4	77.1	Wtr	0.1	6.1	22	38	3fm	Sd vfg slty sshy ft yl-wh flu
1.0	7094.0	365.0	26.9	0.4	79.5	Wtr	0.1	5.4	13	41	2m	Sd vfg slty sshy vft flu
2.0	7095.0	6.9	18.2	0.0	88.2	(6)	0.0	2.1	11	66	2m	Sd vfg slty vshy lam sfoss no flu
2.0	7096.0	0.9	15.5	0.0	90.9	(6)	0.0	1.4	10	69	1	Sd vfg slty vshy vcalc no flu
1.0	7142.0	8.8	19.2	0.7	82.5	(6)	0.1	3.2	32	66	2m	Sd vfg slty vshy lam vft flu
1.5	7143.0	66.0	22.3	0.5	83.3	Wtr	0.1	3.6	35	52	2m	Sd vfg vslty shy lam stks ft yl flu
1.0	7178.0	23.0	20.8	7.2	77.8	Oil	1.5	3.1	100+	61	3fm	Sd vfg slty shy vcalc mott ft yl flu
1.5	7179.0	7.5	18.2	2.1	86.4	(6)	0.4	2.1	20	65	1	Sd vfg slty vshy scalc mott ft yl flu
2.0	7184.0	800.0	28.4	11.2	59.4	Oil	3.2	8.3	100+	35	2m	Sd vf-fg sslty sshy yl-wh flu 41° API
2.0	7185.0	105.0	25.1	7.1	70.5	Oil	1.8	5.6	58	51	2m	Sd vf-fg slty shy mott yl-wh flu
1.5	7186.0	8.1	18.3	2.5	83.6	(6)	0.5	2.6	15	65	2m	Sd vf-fg slty vshy mott ft yl-wh flu
1.0	7187.0	31.0	21.3	7.6	71.4	Oil	1.6	4.5	45	59	2m	Sd vf-fg slty shy mott yl-wh flu

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				Saturation			Saturation					
				Oil %	Water %		Oil %	Gas %				
1.0 0.0	7188.0 7197.0	65.0	23.4	7.4	69.4	Oil	1.7	5.4	70	53	2m	Sd vf-fg slty shy mott vcalc yl-wh flu Pull Off
2.0	7215.0								43			Shale blk no flu
2.0	7218.0								2			Mudcake w/ trace sand
2.0	7221.0	4.5	16.0	0.0	82.8	(6)	0.0	2.8	10	63	4m	Sd vfg slty vshy vcalc no flu
2.0	7222.0	0.7	14.5	0.0	84.4	(6)	0.0	2.3	7	67	2m	Sd vfg slty vshy lam scalc no flu
0.0	7223.0											Empty Barrel
1.5 0.0	7224.0 7225.0	560.0	27.1	3.4	80.9	Cond	0.9	4.3	13	36	3fm	Sd vfg slty sshy vft flu Empty Barrel
2.0	7226.0	15.0	20.8	8.2	74.1	Oil	1.7	3.7	65	65	2m	Sd vfg slty shy lam stks yl-wh flu 43° API