

Mud-Co / Service Mud Inc.

Operator **FG Holl** County **Barton** State **Kansas** Pump **6** X **14** X **60** SPM Casing Program **8 5/8" @ 889** ft.
 Well **Deines #1-22** Location _____ GPM **7.75** BPM _____ " @ _____ ft.
 Contractor **Duke #8** Sec **22** TWP **19S** RNG **15W** D.P. **4.5** in. **191** FT/MIN R.A. _____ " @ _____ ft.
 Stockpoint **Pratt, Ks.** Date **3/6/2012** Engineer **Rick Hughes** Collar **6.25** in. **495** ft. **348** FT/MIN R.A. Total Depth **3700** ft.

DATE	DEPTH feet	WEIGHT lb/gal	VISCOSITY			GELS 10 sec / 10 min.	pH	FILTRATION/FILTRATION ANALYSIS					SAND %	RETORT			L.C.M.	Pump Press. PSI	CUMULATIVE COST	REMARKS AND TREATMENT	
			Sec API @ ___ F	PV @ ___ F	Yp			10 sec / 10 min.	Strip Meter	ml API	Cake 32nds	Pres. #/BBL		Cl ppm	Ca ppm	Solids %					Oil %
3/4	0																		0	RURT	
3/7	419	10.2	77																	DRlg.	
3/8	889																			WOC Displace w/Starch 1774	
3/9	1804	8.7	45	11	12	14/23	8.5	8.0	1		4,700	N/C		2.6		97.4				DRlg. Displace w/chem 2550	
3/10	2208	9.1	42	9	19	18/27	7.0	9.8	2		24,000	Hvy		3.2		96.8				DRlg.	
3/11	2985	9.1	50	14	14	22/51	11.5	7.6	1		5,100	20		5.4		94.6				DRlg.	
3/12	3415	9.4	57	18	16	16/56	10.0	8.4	1		6,200	20		7.5		92.5				Short Trip DST #1 @ 3415'	
3/13	3430	9.5	60	15	18	15/41	8.5	8.4	1		6,500	60		8.1		91.9				DRlg. DST #2 @ 3430'	
3/14	3600	9.3	58	12	15	13/48	7.5	12.0	1		5,000	60		6.8		93.2				CFS DST #3 @ 3600'	
3/15	3605	9.1	49	10	13	11/40	10.0	8.8	1		6,400	40		5.4		94.6				TOH f/ DST 4 DST #4 @ 3605'	
3/16	3615	9.4	57	14	16	36/64	10.0	8.8	1		8,200	80		7.4		92.6				TI w/Bit DST #5 @ 3615	
3/17	3700																			Final: LTD - 3702'. 5 DST's. Run Casing.	
																					Reserve Pit, Chl content ppm: 42,000
																					Estimated Volume: <400 bbls free fluids

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DRILLING MUD RECAP

Materials	Sacks	Amount
C/S HULLS	30	
CAUSTIC SODA	15	
DESCO	2	
DRILL PAK	5	
LIME	1	
MIL-GUARD	1	
PREMIUM GEL	348	
SAPP	1	
SODA ASH	22	
STARCH	52	

Materials	Sacks	Amount
SUPER LIG	11	
X-CIDE 102W	1	

Total Mud Cost	
Trucking Cost	
Trucking Surcharge	
Taxes	
TOTAL COST	