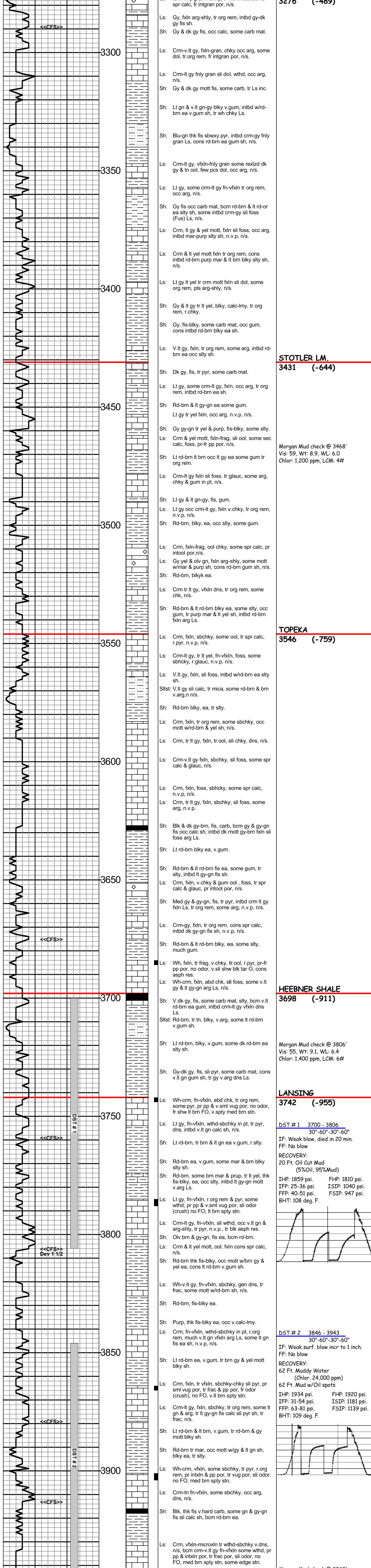


GEOLOGIST'S REPORT					
OPERATOR	MURFIN DRILLING COMPANY, INC.				
LEASE	KATHKA FARMS # 2-2				
LOCATION	760 FNL & 1770 FWL				
SEC.	2	TWSP	2S	RGE	29W
COUNTY	DECATUR		STATE	KANSAS	
FIELD	WILDCAT				
CONTRACTOR	Murfin Drilling Company RIG NO. 8				
COMMENCED	24 May 2013	COMPLETED	30 May 2013		
MUD DISPLACED	2793	MUD TYPE	Chemical		
DRILLING TIME KEPT FROM	3180	TO	4060		
SAMPLES SAVED FROM	3180	TO	4060		
SAMPLES EXAMINED FROM	3180	TO	4060		
GEOLICAL SUPERVISION FROM	3106	TO	4060		
GEOLOGIST ON WELL	Paul Gunzelman				
FORMATION	TOP	LOG	SAMPLE	ELEVATIONS	
NAME	DATUM	DATUM		KB	2787 Ft.
Stone Corral	2485	+302	2485	GL	2782 Ft.
Base/Anhydrite	2516	+271	2515	ALL MEASUREMENTS FROM K.B.	
Foraker	3274	-487	-3276		
Stotter Lm.	3432	-645	3431		
Topeka	3544	-757	3546		
Heeoner Shale	3699	-912	3698		
Lansing	3742	-955	3742		
Base/Kansas City	3966	-1179	3965		
Total Depth	4061	-1274	4060		
CASING RECORD					
Conductor	None				
Surface	8 5/8" @ 305'				
Production	None				
ELECTRICAL SURVEYS:					
Pioneer Energy Services					
Comp. Neutron Density					
Dual Induction					
Micro-resistivity					
Comp. Sonic					
REMARKS					
API 15-039-21177-00-00					
Drilling Fluids: Morgan Mud, Inc. (David Lines, engineer)					
Drill Stem Testing: Trilobite Testing, Inc. (Brandon Turley, tester)					
Gas Trailer: No Gas Trailer					
Reserve Pit Chlorides: 1,200 PPM					
DRILL TIME (MIN/FT)	DEPTH	SAMPLE DESCRIPTIONS			
2450					
2500					
LITHOLOGY					
STONE CORRAL 2485 (+302)					
BASE/ANHYDRITE 2515 (+272)					

Geological Log for Core FORAKER 2276

Depth (ft)	Lithology Description	Notes
2550 - 2600	Top section (2550-2600 ft) is mostly blank.	
3150	Sh: Gy fis sli pyr, bcm rd-brn blky slty much gum.	6:32 PM, 26 May 2013
3200	Ls: Crm, fnly gran some sh, chky, bcm lt gy & arg, n/s. Sh: Lt rd-brn & lt brn, blky ea occ slty, cons gum, tr blu-gn wxy pyr sh. Sh: Rd-brn blky ea v.gum, tr uncons fn-vfn sbang sd, n/s. Sh: Rd-brn & lt rd-brn blky, ea, much gum, occ slty.	
3250	Ls: Wh-crm, gran, chky, sli ool, tr wh-lt gy vit cht, n/s. Ls: Crm, occ crm-lt gy, gran, some chky, crm-gy op vit cht, dk gy-blk vit cht, pr intgran por, n/s. Ls: Lt gy mott w/dk gy sh & carb mat, occ gum, intbd lt gy gum sh, tr blk fis carb sh. Sh: Gy, fis-blky gum intbd gy v.arg slst, some gy-brn fxln v.arg foss Ls, n/s. Sh: Gy, blky, sft, occ gum, bcm rd-brn & mar ea gum, occ slty sh, tr gy-gn fis sh. Ls: Crm fnly gran v.chky, tr v.sml ool, some	



Geological log diagram showing lithology and thicknesses from 3950 to 3965 feet. The log includes a CFS indicator, a red line at 3965 ft, and a base label at 3965 ft.

Depth (ft)	Lithology Description
3950	Sh: Gy & lt gy, fis pyr, some lt gn-gy v.gum sh, bcm rd-brn fis ea. Ls: Lt gy fn-vfxln frac, mott w/rd-brn & mar sh, tr ool, bcm crm-lt gy gran sbchky silt, pr intgran por, n/s. Sh: Dk gy dk gn-gy fis, some dk rd-brn ea sh.
3965	BASE/KANSAS CITY