

Thomas J. Funk  
Petroleum Geologist  
**785-542-3359**

Geologist's Report							
Drilling Time and Sample Log				Elevation			
OPERATOR Murfin Drilling Co., Inc.	LEASE Towns 'A'	WELL NO #2-21	FIELD Development	API 15-193-20832	LOCATION 2100 FNL & 335 FWL	SEC. 21 TWP. 10S RGE. 34W	COUNTY Thomas STATE Kansas
CONTRACTOR Murfin Drig Co Rig #35	FORMATION CMM 1/16/2012	LOG # COMP 12/25/2012	SAMPLES SAVED FROM 3800	DRILLING TIME KEPT FROM 3800	SAMPLES EXAMINED FROM 3800	GEOLOGICAL SUPERVISION FROM 3854	MUD UP 3500
Anhydrite	Antarcticite	Baryte	Topshite	Hearne Sh.	Lansing	Mississippian	
Depth	LOG	TOP DUTUM	STRUCT	TO TD	TO TD	TYPE	MUD
3800	2752 (+49)	2754 (+49)	-2	TO TD	TO TD	Chemical	3500
3810	2779 (+470)	2784 (+465)	-3				
3820							
3830							
3840							
3850							
3860							
3870							
3880							
3890							
3900							
3910							
3920							
3930							
3940							
3950							
3960							
3970							
3980							
3990							
4000							
4010							
4020							
4030							
4040							
4050							
4060							
4070							
4080							
4090							
4100							
4110							
4120							
4130							
4140							
4150							
4160							
4170							
4180							
4190							
4200							
4210							
4220							
4230							
4240							
4250							
4260							
4270							
4280							
4290							
4300							
4310							
4320							
4330							
4340							
4350							
4360							
4370							
4380							
4390							
4400							
4410							
4420							
4430							
4440							
4450							
4460							
4470							
4480							
4490							
4500							
4510							
4520							
4530							
4540							
4550							
4560							
4570							
4580							
4590							
4600							
4610							
4620							
4630							
4640							
4650							
4660							
4670							
4680							
4690							
4700							
4710							
4720							
4730							
4740							
4750							
4760							
4770							
4780							
4790							
4800							
4810							
4820							
4830							
4840							
4850							
4860							
4870							
4880							
4890							
4900							
4910							
4920							

