



Directional Survey

30-05-41744

Well Name SKEEN 2-26-27 STATE SWD 001		Lease Skeen 2-26-27		Field Name Hay Hollow		Business Unit Mid-Continent	
Ground Elevation (ft) 3,218.00	Original RKB (ft) 3,249.00	Current RKB Elevation 3,249.00, 12/28/2013				Mud Line Elevation (ft)	Water Depth (ft)

Wellbore Name Original Hole		Parent Wellbore Original Hole		Kick Off Depth (ftKB)		Vertical Section Direction (°) 0.00	
UTM Northing (Y) (ft)			UTM Easting (X) (ft)			UTM Grid Zone	
Date 1/7/2014		Definitive? Y		Description Teladrift		Planned? N	
MD Tie In (ftKB)		TVD Tie In (ftKB)		Inclination Tie In (°)		Azimuth Tie In (°)	
						NSTie In (ft)	
						EWTie In (ft)	

Survey Data													Unuse d data
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	
234	1.20		233.98					Inc. Only		0.51			N
276	1.00		275.98					Inc. Only		-0.48			N
488	1.00		487.95					Inc. Only		0.00			N
668	1.60		667.95					Inc. Only		0.33			N
757	1.80		756.95					Inc. Only		0.22			N
851	2.40		850.95					Inc. Only		0.64			N
1,036	2.20		1,035.94					Inc. Only		-0.11			N
1,229	2.20		1,228.80					Inc. Only		0.00			N
1,500	2.10		1,499.80					Inc. Only		-0.04			N
1,795	2.30		1,794.80					Inc. Only		0.07			N
1,921	2.70		1,920.80					Inc. Only		0.32			N
2,016	2.80		2,015.80					Inc. Only		0.11			N
2,207	3.90		2,206.79					Inc. Only		0.58			N
2,302	3.90		2,301.57					Inc. Only		0.00			N
2,396	2.10		2,395.55					Inc. Only		-1.91			N
2,490	1.40		2,489.55					Inc. Only		-0.74			N
2,585	1.00		2,584.55					Inc. Only		-0.42			N
2,679	1.30		2,678.55					Inc. Only		0.32			N
2,774	0.90		2,773.55					Inc. Only		-0.42			N
2,869	0.80		2,868.55					Inc. Only		-0.11			N
3,059	0.80		3,058.53					Inc. Only		0.00			N
3,248	0.80		3,247.51					Inc. Only		0.00			N
3,438	0.80		3,437.49					Inc. Only		0.00			N
3,728	0.80		3,727.47					Inc. Only		0.00			N
3,815	0.70		3,814.47					Inc. Only		-0.11			N
4,009	1.30		4,008.46					Inc. Only		0.31			N
4,200	0.90		4,199.46					Inc. Only		-0.21			N
4,295	1.30		4,294.46					Inc. Only		0.42			N
4,485	1.90		4,484.46					Inc. Only		0.32			N
4,675	2.50		4,674.45					Inc. Only		0.32			N
4,866	1.90		4,865.45					Inc. Only		-0.31			N
5,055	1.90		5,054.35					Inc. Only		0.00			N
5,244	2.00		5,243.35					Inc. Only		0.05			N
5,340	2.40		5,339.34					Inc. Only		0.42			N