

## DIRECTIONAL SURVEY REPORT

9/28/2012

Project: BLM  
 Well: 48-11TCH  
 Elevation: 3855 KB  
 Coordinates: 255453 North 2341297 East

MD	Drift	Azim	TVD	SSD	N-S	E-W	N-LAM	E-LAM	Description
0	0.00	0	0	3855	0	0	255453	2341297	64
100	0.00	0	100	3755	0	0	255453	2341297	66.1
200	0.00	0	200	3655	0	0	255453	2341297	81
300	0.00	0	300	3555	0	0	255453	2341297	101.1
340	0.00	0	340	3515	0	0	255453	2341297	
400	0.00	0	400	3455	0	0	255453	2341297	120.3
500	0.00	0	500	3355	0	0	255453	2341297	135.8
600	0.00	0	600	3255	0	0	255453	2341297	145
700	0.00	0	700	3155	0	0	255453	2341297	149
800	0.00	0	800	3055	0	0	255453	2341297	150.6
840	0.00	0	840	3015	0	0	255453	2341297	
900	0.00	0	900	2955	0	0	255453	2341297	150.7
1000	0.00	0	1000	2855	0	0	255453	2341297	150.4
1100	0.00	0	1100	2755	0	0	255453	2341297	150.1
1200	0.00	0	1200	2655	0	0	255453	2341297	150
1300	0.00	0	1300	2555	0	0	255453	2341297	150
1340	0.00	0	1340	2515	0	0	255453	2341297	
1400	0.00	0	1400	2455	0	0	255453	2341297	150
1500	0.00	0	1500	2355	0	0	255453	2341297	150.9
1600	0.00	0	1600	2255	0	0	255453	2341297	151.6
1700	0.00	0	1700	2155	0	0	255453	2341297	152.8
1800	0.00	0	1800	2055	0	0	255453	2341297	154.1
1840	0.00	0	1840	2015	0	0	255453	2341297	
1900	0.00	0	1900	1955	0	0	255453	2341297	156.8
2000	0.00	0	2000	1855	0	0	255453	2341297	159.5
2100	0.00	0	2100	1755	0	0	255453	2341297	162.4
2200	0.00	0	2200	1655	0	0	255453	2341297	165.3
2300	0.00	0	2300	1555	0	0	255453	2341297	167.7
2340	0.00	0	2340	1515	0	0	255453	2341297	
2400	0.00	0	2400	1455	0	0	255453	2341297	170.3
2500	0.00	0	2500	1355	0	0	255453	2341297	173
2600	0.00	0	2600	1255	0	0	255453	2341297	175.7
2700	0.00	0	2700	1155	0	0	255453	2341297	179.4
2800	0.00	0	2800	1055	0	0	255453	2341297	182.7
2840	0.00	0	2840	1015	0	0	255453	2341297	186.4
2900	0.00	0	2900	955	0	0	255453	2341297	188.4
3000	0.00	0	3000	855	0	0	255453	2341297	190.1
3040	0.00	0	3040	815	0	0	255453	2341297	192.6
3065	0.00	0	3065	790	0	0	255453	2341297	TD