

WELL Federal 2-6H	FIELD CO, Mesa Co. (NAD83UTM13)	STRUCTURE Encana 35-09S-94W (PL35NW)
Magnetic Parameters Model: BIGM 2010 Dip: 65.588° Mag Dec: 10.298° Date: February 03, 2011 FS: 52136.4mT	Surface Location Lat: N 39 14 13.776 Lon: W 107 51 3.388 NAD83 UTM Zone 13N, US Feet Northing: 14261680.92 NUS Easting: 833127.45 NUS Grid Conv: -1.80421476' Scale Fact: 1.00034556	Miscellaneous Skt: Federal 2-6H Plan: Lateral R3 ors 02-Jun-11 TVD Ref: RKB(7541ft above MSL) Srvy Date: February 03, 2011

Target Descriptions		Grid Coord		Local Coord	
Target Name	Shape	Major Axis	NOESC	E(UTM)	Y(UTM)
Federal 2-6H PBHL/TD	Point	0.00	39.22	-107.85	10623.20
Critical Point					
Critical Point	MI	INCL	AZIM	TVR	YSEC
Makeshell	22.00	0.00	180.00	22.00	0.00
Wasatch G Sand Top	2742.00	0.00	180.00	2742.00	0.00
Ohio Creek (Top Km)	3812.00	0.00	180.00	3812.00	0.00
Williams Fork Fm	4146.00	0.00	180.00	4146.00	0.00
Top Gas	5076.00	0.00	180.00	5076.00	0.00
Coal Ridge (Paludal)	6347.00	0.00	180.00	6347.00	0.00
Rollins Ss (iles Fm)	6719.00	0.00	180.00	6719.00	0.00
Cozzette	7161.00	0.00	180.00	7161.00	0.00
Corcoran	7345.00	0.00	180.00	7345.00	0.00
Tie-in to Pilot/KOP, Build 3 DLS	8000.00	0.00	180.00	8000.00	0.00
Buck Tongue	8115.07	3.45	180.00	8115.07	3.40
Hold	8331.33	10.00	180.00	8331.33	24.44
Mineros B	8990.63	10.00	180.00	8979.00	149.53
Prairie Canyon	9392.79	10.00	180.00	9375.00	209.07
KOP, Build 8 DLS	10192.45	10.00	180.00	10162.52	345.38
Niobrara	10175.73	24.66	180.00	10337.00	354.83
Landing Point	11213.20	91.50	180.00	10754.10	1056.14
Fort Hayes	11344.00		180.00	11344.00	
Federal 2-6H PBHL/TD	16211.87	91.50	180.00	10623.20	5963.25

Quality Control
Date Drawn: June 02, 2011 09:20:47 AM
Drawn by: Dorelle Salazar
Checked by: Tom Cole
Clear OK:

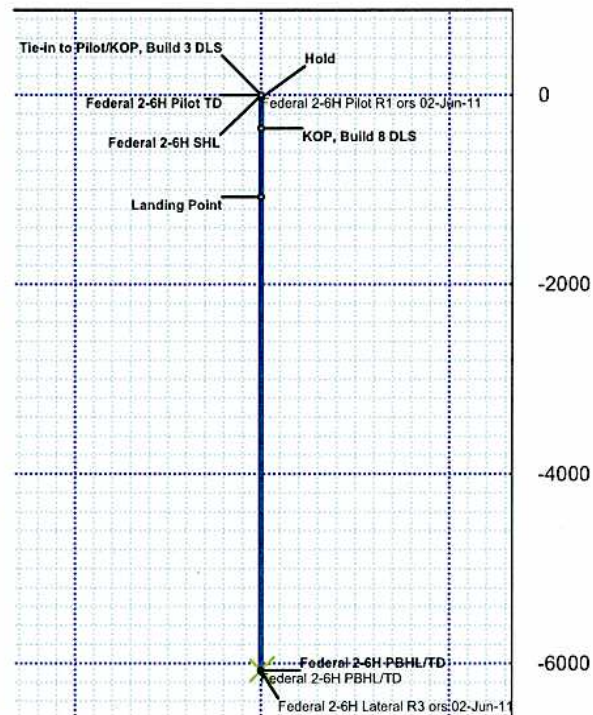
Proposal

Rev 3

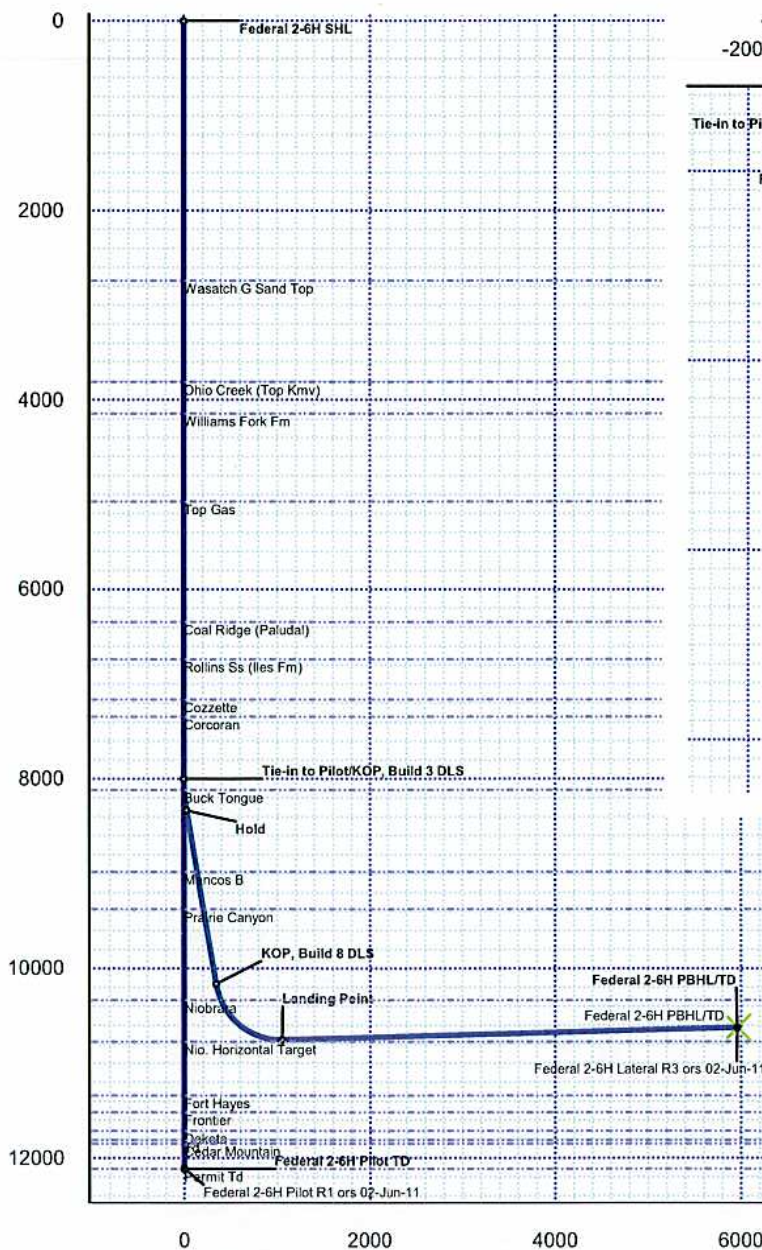


Grid North
Tot Corr (M) = -G 12.1027°
Mag Dec (10.298°)
Grid Conv (-1.80421476°)

<<< W Scale = 1(in):2000(ft) E >>>
-2000 0 2000



TVD Scale = 1(in):2000(ft)



Vertical Section (ft) Azim = 169°, Scale = 1(in): 2000(ft) Origin = 0 N/-S, 0 E/-W

<<< S Scale = 1(in):2000(ft) N >>>

Federal 2-6H Lateral R3 ors 02-Jun-11 Proposal Report

(Def Plan)

Report Date: June 02, 2011 - 09:11 AM
 Client: Encana Oil & Gas (USA) Inc.
 Field: CO, Mesa County (NAD 83 UTM 13) EnCana 2010
 Structure / Slot: Encana 35-09S-94W (PL35NW Pad) / Federal 2-6H
 Well: Federal 2-6H
 Borehole: Lateral
 UWI / API#: Unknown / Unknown
 Survey Name: Federal 2-6H Lateral R3 ors 02-Jun-11
 Survey Date: February 03, 2011
 Tort / AHD / DDI / ERD Ratio: 91.500 ° / 8074.864 ft / 5.923 / 0.565
 Coordinate Reference System: NAD83 UTM Zone 13N, US Feet
 Location Lat / Long: N 39° 14' 13.77600", W 107° 51' 3.38761"
 Location Grid N/E Y/X: N 14261680.919 RUS, E 833127.452 ftUS
 CRS Grid Convergence Angle: -1.80421476 °
 Grid Scale Factor: 1.00034556

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 169.000 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 7541.000 ft above MSL
 Seabed / Ground Elevation: 7519.000 ft above MSL
 Magnetic Declination: 10.298 °
 Total Field Strength: 52136.421 nT
 Magnetic Dip Angle: 65.588 °
 Declination Date: February 03, 2011
 Magnetic Declination Model: BGM 2010
 North Reference: Grid North
 Grid Convergence Used: -1.804 °
 Total Corr Mag North->Grid North: 12.103 °
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
Federal 2-6H SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14261680.92	833127.45	N 39 14 13.78	W 107 51 3.39
Marker MudLine	22.00	0.00	180.00	22.00	0.00	0.00	0.00	0.00	14261680.92	833127.45	N 39 14 13.78	W 107 51 3.39
Wasatch G Sand Top	2742.00	0.00	180.00	2742.00	0.00	0.00	0.00	0.00	14261680.92	833127.45	N 39 14 13.78	W 107 51 3.39
Ohio Creek (Top Km)	3812.00	0.00	180.00	3812.00	0.00	0.00	0.00	0.00	14261680.92	833127.45	N 39 14 13.78	W 107 51 3.39
Williams Fork Fm Top Gas	4146.00	0.00	180.00	4146.00	0.00	0.00	0.00	0.00	14261680.92	833127.45	N 39 14 13.78	W 107 51 3.39
Coal Ridge (Paludal)	5076.00	0.00	180.00	5076.00	0.00	0.00	0.00	0.00	14261680.92	833127.45	N 39 14 13.78	W 107 51 3.39
	6347.00	0.00	180.00	6347.00	0.00	0.00	0.00	0.00	14261680.92	833127.45	N 39 14 13.78	W 107 51 3.39
Rollins Ss (lles Fm)	6739.00	0.00	180.00	6739.00	0.00	0.00	0.00	0.00	14261680.92	833127.45	N 39 14 13.78	W 107 51 3.39
Cozzette	7161.00	0.00	180.00	7161.00	0.00	0.00	0.00	0.00	14261680.92	833127.45	N 39 14 13.78	W 107 51 3.39
Corcoran	7345.00	0.00	180.00	7345.00	0.00	0.00	0.00	0.00	14261680.92	833127.45	N 39 14 13.78	W 107 51 3.39
Tie-in to Pilot/KOP, Build 3 DLS	8000.00	0.00	180.00	8000.00	0.00	0.00	0.00	0.00	14261680.92	833127.45	N 39 14 13.78	W 107 51 3.39
	8100.00	3.00	180.00	8099.95	2.57	-2.62	0.00	3.00	14261678.30	833127.45	N 39 14 13.75	W 107 51 3.39
Buck Tongue	8115.07	3.45	180.00	8115.00	3.40	-3.47	0.00	3.00	14261677.45	833127.45	N 39 14 13.74	W 107 51 3.39
	8200.00	6.00	180.00	8199.63	10.27	-10.46	0.00	3.00	14261670.45	833127.45	N 39 14 13.67	W 107 51 3.38
	8300.00	9.00	180.00	8298.77	23.08	-23.51	0.00	3.00	14261657.40	833127.45	N 39 14 13.54	W 107 51 3.38
Hold	8333.33	10.00	180.00	8331.64	28.48	-29.02	0.00	3.00	14261651.89	833127.45	N 39 14 13.49	W 107 51 3.38
	8400.00	10.00	180.00	8397.30	39.85	-40.59	0.00	0.00	14261640.31	833127.45	N 39 14 13.38	W 107 51 3.37
	8500.00	10.00	180.00	8495.78	56.89	-57.96	0.00	0.00	14261622.94	833127.45	N 39 14 13.20	W 107 51 3.36
	8600.00	10.00	180.00	8594.26	73.94	-75.32	0.00	0.00	14261605.57	833127.45	N 39 14 13.03	W 107 51 3.36
	8700.00	10.00	180.00	8692.74	90.98	-92.69	0.00	0.00	14261588.20	833127.45	N 39 14 12.86	W 107 51 3.35
	8800.00	10.00	180.00	8791.22	108.03	-110.05	0.00	0.00	14261570.83	833127.45	N 39 14 12.69	W 107 51 3.34
	8900.00	10.00	180.00	8889.70	125.07	-127.42	0.00	0.00	14261553.46	833127.45	N 39 14 12.52	W 107 51 3.34
Mancos B	8990.68	10.00	180.00	8979.00	140.53	-143.16	0.00	0.00	14261537.71	833127.45	N 39 14 12.36	W 107 51 3.33
	9000.00	10.00	180.00	8988.18	142.12	-144.78	0.00	0.00	14261536.09	833127.45	N 39 14 12.35	W 107 51 3.33
	9100.00	10.00	180.00	9086.66	159.17	-162.15	0.00	0.00	14261518.72	833127.45	N 39 14 12.17	W 107 51 3.32
	9200.00	10.00	180.00	9185.14	176.21	-179.51	0.00	0.00	14261501.35	833127.45	N 39 14 12.00	W 107 51 3.32
	9300.00	10.00	180.00	9283.62	193.26	-196.87	0.00	0.00	14261483.98	833127.45	N 39 14 11.83	W 107 51 3.31
Prairie Canyon	9392.79	10.00	180.00	9375.00	209.07	-212.99	0.00	0.00	14261467.86	833127.45	N 39 14 11.67	W 107 51 3.30
	9400.00	10.00	180.00	9382.11	210.30	-214.24	0.00	0.00	14261466.61	833127.45	N 39 14 11.66	W 107 51 3.30
	9500.00	10.00	180.00	9480.59	227.35	-231.60	0.00	0.00	14261449.23	833127.45	N 39 14 11.49	W 107 51 3.29
	9600.00	10.00	180.00	9579.07	244.40	-248.97	0.00	0.00	14261431.88	833127.45	N 39 14 11.32	W 107 51 3.29
	9700.00	10.00	180.00	9677.55	261.44	-266.33	0.00	0.00	14261414.49	833127.45	N 39 14 11.14	W 107 51 3.28
	9800.00	10.00	180.00	9776.03	278.49	-283.70	0.00	0.00	14261397.12	833127.45	N 39 14 10.97	W 107 51 3.27
	9900.00	10.00	180.00	9874.51	295.53	-301.06	0.00	0.00	14261379.75	833127.45	N 39 14 10.80	W 107 51 3.27
	10000.00	10.00	180.00	9972.99	312.58	-318.43	0.00	0.00	14261362.38	833127.45	N 39 14 10.63	W 107 51 3.26
	10100.00	10.00	180.00	10071.47	329.62	-335.79	0.00	0.00	14261345.01	833127.45	N 39 14 10.46	W 107 51 3.25
KOP (computed)	10192.45	10.00	180.00	10162.52	345.38	-351.85	0.00	0.00	14261328.95	833127.45	N 39 14 10.30	W 107 51 3.25
	10200.00	10.00	180.00	10169.94	346.71	-353.20	0.00	8.00	14261327.60	833127.45	N 39 14 10.29	W 107 51 3.25
	10300.00	18.00	180.00	10266.63	371.44	-378.39	0.00	8.00	14261302.40	833127.45	N 39 14 10.04	W 107 51 3.24
Niobrara	10375.73	24.66	180.00	10337.00	398.83	-406.30	0.00	8.00	14261274.48	833127.45	N 39 14 9.76	W 107 51 3.23
	10400.00	26.60	180.00	10358.88	409.14	-416.80	0.00	8.00	14261263.98	833127.45	N 39 14 9.66	W 107 51 3.22
	10500.00	34.60	180.00	10444.88	459.07	-467.66	0.00	8.00	14261213.09	833127.45	N 39 14 9.16	W 107 51 3.20
	10600.00	42.60	180.00	10522.96	520.27	-530.01	0.00	8.00	14261150.73	833127.45	N 39 14 8.54	W 107 51 3.18
	10700.00	50.60	180.00	10591.61	591.54	-602.61	0.00	8.00	14261078.10	833127.45	N 39 14 7.82	W 107 51 3.15
	10800.00	58.60	180.00	10649.49	671.49	-684.06	0.00	8.00	14260996.62	833127.45	N 39 14 7.02	W 107 51 3.11
	10900.00	66.60	180.00	10695.48	758.58	-772.77	0.00	8.00	14260907.88	833127.45	N 39 14 6.14	W 107 51 3.08
	11000.00	74.60	180.00	10728.65	851.09	-867.02	0.00	8.00	14260813.60	833127.45	N 39 14 5.21	W 107 51 3.04
	11100.00	82.60	180.00	10748.39	947.24	-964.97	0.00	8.00	14260715.62	833127.45	N 39 14 4.24	W 107 51 3.00
	11200.00	90.60	180.00	10754.31	1045.15	-1064.71	0.00	8.00	14260615.84	833127.45	N 39 14 3.26	W 107 51 2.96
EOC	11211.20	91.50	180.00	10754.10	1056.14	-1075.91	0.00	8.00	14260604.64	833127.45	N 39 14 3.15	W 107 51 2.96
	11300.00	91.50	180.00	10751.78	1143.28	-1164.68	0.00	0.00	14260515.84	833127.45	N 39 14 2.27	W 107 51 2.92
	11400.00	91.50	180.00	10749.16	1241.41	-1264.65	0.00	0.00	14260415.84	833127.45	N 39 14 1.28	W 107 51 2.88
	11500.00	91.50	180.00	10746.54	1339.54	-1364.61	0.00	0.00	14260315.84	833127.45	N 39 14 0.30	W 107 51 2.84
	11600.00	91.50	180.00	10743.92	1437.67	-1464.58	0.00	0.00	14260215.84	833127.45	N 39 13 59.31	W 107 51 2.80
	11700.00	91.50	180.00	10741.31	1535.80	-1564.54	0.00	0.00	14260115.84	833127.45	N 39 13 58.32	W 107 51 2.76
	11800.00	91.50	180.00	10738.69	1633.93	-1664.51	0.00	0.00	14260015.84	833127.45	N 39 13 57.33	W 107 51 2.72
	11900.00	91.50	180.00	10736.07	1732.06	-1764.48	0.00	0.00	14259915.84	833127.45	N 39 13 56.35	W 107 51 2.68
	12000.00	91.50	180.00	10733.45	1830.19	-1864.44	0.00	0.00	14259815.84	833127.46	N 39 13 55.36	W 107 51 2.64
	12100.00	91.50	180.00	10730.84	1928.32	-1964.41	0.00	0.00	14259715.84	833127.46	N 39 13 54.37	W 107 51 2.60
	12200.00	91.50	180.00	10728.22	2026.44	-2064.37	0.00	0.00	14259615.84	833127.46	N 39 13 53.38	W 107 51 2.56
	12300.00	91.50	180.00	10725.60	2124.57	-2164.34	0.00	0.00	14259515.84	833127.46	N 39 13 52.40	W 107 51 2.52
	12400.00	91.50	180.00	10722.98	2222.70	-2264.30	0.00	0.00	14259415.84	833127.46	N 39 13 51.41	W 107 51 2.48
	12500.00	91.50	180.00	10720.37	2320.83	-2364.27	0.00	0.00	14259315.84	833127.46	N 39 13 50.42	W 107 51 2.44
	12600.00	91.50	180.00	10717.75	2418.96	-2464.24	0.01	0.00	14259215.84	833127.46	N 39 13 49.43	W 107 51 2.40
	12700.00	91.50	180.00	10715.13	2517.09	-2564.20	0.01	0.00	14259115.84	833127.46	N 39 13 48.44	W 107 51 2.36
	12800.00	91.50	180.00	10712.51	2615.22	-2664.17	0.01	0.00	14259015.84	833127.46	N 39 13 47.46	W 107 51 2.32
	12900.00	91.50	180.00	10709.89	2713.35	-2764.13	0.01	0.00	14258915.84	833127.46	N 39 13 46.47	W 107 51 2.28
	13000.00	91.50	180.00	10707.28	2811.48	-2864.10	0.01	0.00	14258815.84	833127.46	N 39 13 45.48	W 107 51 2.24
	13100.00	91.50	180.00	10704.66	2909.61	-2964.06	0.01	0.00	14258715.84	833127.46	N 39 13 44.49	W 107 51 2.20
	13200.00	91.50	180.00	10702.04	3007.74	-3064.03	0.01	0.00	14258615.84	833127.46	N 39 13 43.51	W 107 51 2.16
	13300.00	91.50	180.00	10699.42	3105.87</							

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	13900.00	91.50	180.00	10683.72	3694.64	-3763.79	0.01	0.00	14257915.84	833127.46	N 39 13 36.59	W 107 51 1.88
	14000.00	91.50	180.00	10681.10	3792.77	-3863.76	0.01	0.00	14257815.84	833127.46	N 39 13 35.61	W 107 51 1.84
	14100.00	91.50	180.00	10678.48	3890.90	-3963.72	0.01	0.00	14257715.84	833127.46	N 39 13 34.62	W 107 51 1.80
	14200.00	91.50	180.00	10675.86	3989.03	-4063.69	0.01	0.00	14257615.84	833127.46	N 39 13 33.63	W 107 51 1.76
	14300.00	91.50	180.00	10673.25	4087.16	-4163.65	0.01	0.00	14257515.84	833127.46	N 39 13 32.64	W 107 51 1.72
	14400.00	91.50	180.00	10670.63	4185.29	-4263.62	0.01	0.00	14257415.84	833127.46	N 39 13 31.66	W 107 51 1.68
	14500.00	91.50	180.00	10668.01	4283.41	-4363.58	0.01	0.00	14257315.84	833127.46	N 39 13 30.67	W 107 51 1.64
	14600.00	91.50	180.00	10665.39	4381.54	-4463.55	0.01	0.00	14257215.84	833127.46	N 39 13 29.68	W 107 51 1.60
	14700.00	91.50	180.00	10662.78	4479.67	-4563.52	0.01	0.00	14257115.84	833127.46	N 39 13 28.69	W 107 51 1.56
	14800.00	91.50	180.00	10660.16	4577.80	-4663.48	0.01	0.00	14257015.84	833127.46	N 39 13 27.71	W 107 51 1.52
	14900.00	91.50	180.00	10657.54	4675.93	-4763.45	0.01	0.00	14256915.83	833127.46	N 39 13 26.72	W 107 51 1.48
	15000.00	91.50	180.00	10654.92	4774.06	-4863.41	0.01	0.00	14256815.83	833127.46	N 39 13 25.73	W 107 51 1.44
	15100.00	91.50	180.00	10652.31	4872.19	-4963.38	0.01	0.00	14256715.83	833127.46	N 39 13 24.74	W 107 51 1.40
	15200.00	91.50	180.00	10649.69	4970.32	-5063.34	0.01	0.00	14256615.83	833127.46	N 39 13 23.76	W 107 51 1.36
	15300.00	91.50	180.00	10647.07	5068.45	-5163.31	0.01	0.00	14256515.83	833127.46	N 39 13 22.77	W 107 51 1.32
	15400.00	91.50	180.00	10644.45	5166.58	-5263.28	0.01	0.00	14256415.83	833127.46	N 39 13 21.78	W 107 51 1.28
	15500.00	91.50	180.00	10641.83	5264.71	-5363.24	0.01	0.00	14256315.83	833127.46	N 39 13 20.79	W 107 51 1.24
	15600.00	91.50	180.00	10639.22	5362.84	-5463.21	0.01	0.00	14256215.83	833127.46	N 39 13 19.81	W 107 51 1.20
	15700.00	91.50	180.00	10636.60	5460.98	-5563.17	0.01	0.00	14256115.83	833127.46	N 39 13 18.82	W 107 51 1.16
	15800.00	91.50	180.00	10633.98	5559.09	-5663.14	0.01	0.00	14256015.83	833127.47	N 39 13 17.83	W 107 51 1.12
	15900.00	91.50	180.00	10631.36	5657.22	-5763.10	0.01	0.00	14255915.83	833127.47	N 39 13 16.84	W 107 51 1.08
	16000.00	91.50	180.00	10628.75	5755.35	-5863.07	0.01	0.00	14255815.83	833127.47	N 39 13 15.86	W 107 51 1.04
	16100.00	91.50	180.00	10626.13	5853.48	-5963.04	0.01	0.00	14255715.83	833127.47	N 39 13 14.87	W 107 51 1.00
	16200.00	91.50	180.00	10623.51	5951.61	-6063.00	0.01	0.00	14255615.83	833127.47	N 39 13 13.88	W 107 51 0.96
Federal 2-6H PBHL/TD	16211.87	91.50	180.00	10623.20	5963.25	-6074.86	0.01	0.00	14255603.97	833127.47	N 39 13 13.76	W 107 51 0.96

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type	Borehole / Survey
	0.000	22.000	1/100.000	SLB_MWD-STD-Depth Only	Original Hole / Federal 2-6H Pilot R0 ors 03-Feb-11
	22.000	8000.000	1/100.000	SLB_MWD-STD	Original Hole / Federal 2-6H Pilot R0 ors 03-Feb-11
	8000.000	16211.866	1/100.000	SLB_MWD-STD	Lateral / Federal 2-6H Lateral R3 ors 02-Jun-11