

WELL <b>Keinath Federal 15-1H2</b>		FIELD <b>CO, Mesa Co. (NAD83UTM13)</b>		STRUCTURE <b>Encana 16-08S-96W (H16OU)</b>	
Magnetic Parameters Model: BGGM 2010      Dip: 65.824° Mag Dec: 10.383°      Date: June 17, 2011 FS: 52136.6mT		Surface Location NAD83 UTM Zone 13N, US Feet Lat: N 39 21 3.337      Northing: 14300502.37 BUS      Grid Conn: -1.07121985° Lon: W 108 6 25.200      Easting: 782000.90 BUS      Scale Fact: 1.00048266		Miscellaneous Stn: Well 14      TVD Ref: RKB(5667ft above MSL) Rpt Date: June 17, 2011      Srvy Date: June 17, 2011	

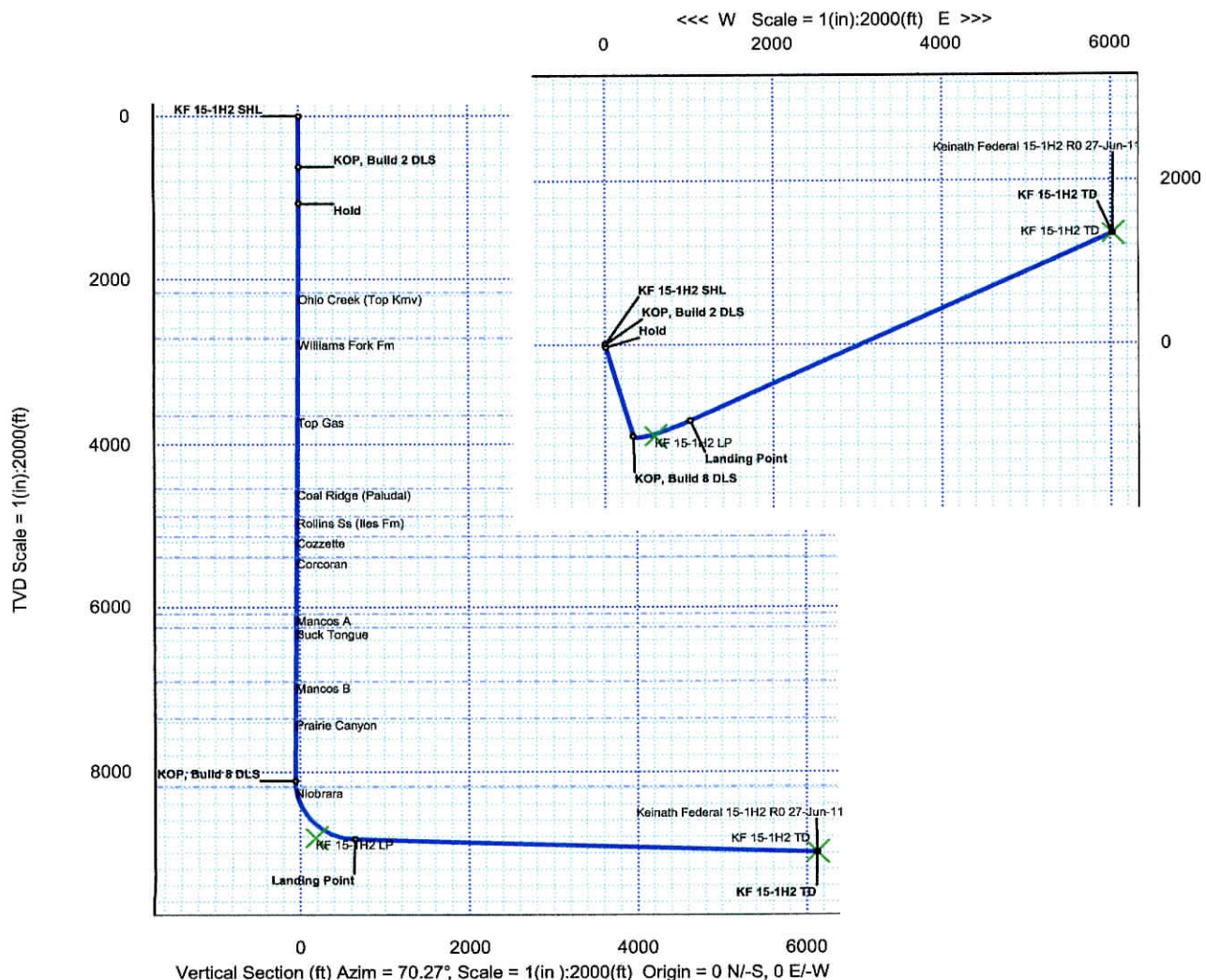
Surface Location								
Northing: 14305502.37    Easting: 762000.90								
Target Description				Grid Coord			Local Coord	
Target Name	Shape	Main Axis	N(+)/S(-)	E(+)/W(-)	TYD	YSec	N(+)/S(-)	E(+)/W(-)
KF 15-1112 LP	Point	1.00	14304396.15	762621.99	8817.31	182.96	-1105.69	590.81
KF 15-1112 TD	Point	1.00	14306489.21	760558.09	8889.30	6125.16	1346.19	6024.30

Critical Point	Critical Points					E(+)/W(-)	DLS
	MD	INCL	AZIM	TVP	VSEC		
KF 15-1H2 SHL	0.00	0.00	163.13	0.00	0.00	0.00	0.00
Marker ModLine	22.00	0.00	163.13	0.00	0.00	0.00	0.00
KOP, Build 2 DLS	620.00	0.00	163.13	620.00	0.00	0.00	0.00
Hold	1070.05	9.00	163.13	1068.20	-1.76	-33.76	10.24
Ohio Creek (Top Km v)	2181.00	9.00	163.13	2165.47	-10.42	-200.09	60.67
Williams Fork Pn	2746.00	9.00	163.13	2723.51	-22.49	-284.69	86.32
Top Gas	3690.00	9.00	163.13	3655.89	-34.11	-426.02	129.17
Coal Ridge (Palatka)	4588.00	9.00	163.13	4542.83	-29.20	-560.47	169.94
Rollins St (1st Km)	4936.00	9.00	163.13	4886.54	-31.91	-612.57	185.74
Cozette	5186.00	9.00	163.13	5133.47	-33.86	-650.09	197.09
Corcoran	5441.00	9.00	163.13	5383.33	-35.83	-688.18	208.66
Mancos A	6147.00	9.00	163.13	6082.63	-41.36	-793.89	240.71
Buck Tongue	6313.00	9.00	163.13	6246.59	-42.65	-818.74	248.25
Mancos B	6982.00	9.00	163.13	6907.35	-47.87	-918.90	276.62
Prairie Canyon	7432.00	9.00	163.13	7351.81	-51.38	-986.28	299.05
KOP, Build R DLS	8198.54	9.00	163.13	8108.91	-57.36	-1101.05	333.85
Nishnab	8271.00	10.03	128.04	8180.43	-54.28	-1110.37	340.47
Landing Point	9317.64	88.35	65.71	8803.93	64.87	95.32	101.26
KF 15-1H2 TD	14817.64	88.35	65.71	8890.30	6125.16	1346.19	6024.30

Quality Control  
Date Drawn: June 29, 2011 10:31:26 AM  
Drawn by: Oswaldo Salazar  
Checked by: Tom Cole  
Client OK:

## Proposal

Rev 0



## Keinath Federal 15-1H2 R0 27-Jun-11 Proposal Report

(Non-Def Plan)

Report Date: June 29, 2011 - 10:48 AM  
 Client: Encana Oil & Gas (USA) Inc.  
 Field: CO, Mesa County (NAD 83 UTM 13) EnCana 2010  
 Structure / Slot: Encana 16-08S-96W (H18OU Pad) / Well 14  
 Well: Keinath Federal 15-1H2  
 Borehole: Original Hole  
 UWI / API#: Unknown / Unknown  
 Survey Name: Keinath Federal 15-1H2 R0 27-Jun-11  
 Survey Date: June 17, 2011  
 Tort / AHD / DDI / ERD Ratio: 98.529 ° / 7369.772 ft / 6.078 / 0.820  
 Coordinate Reference System: NAD83 UTM Zone 13N, US Feet  
 Location Lat / Long: N 39° 21' 3.33720", W 108° 6' 25.20002"  
 Location Grid N/E Y/X: N 14305502.369 NUS, E 762030.898 NUS  
 CRS Grid Convergence Angle: -1.97121985 °  
 Grid Scale Factor: 1.00048296

Survey / DLS Computation: Minimum Curvature / Lubinski  
 Vertical Section Azimuth: 70.275 ° (Grid North)  
 Vertical Section Origin: 0.000 ft, 0.000 ft  
 TVD Reference Datum: RKB  
 TVD Reference Elevation: 5867.000 ft above MSL  
 Seabed / Ground Elevation: 5845.000 ft above MSL  
 Magnetic Declination: 10.383 °  
 Total Field Strength: 52136.608 nT  
 Magnetic Dip Angle: 65.624 °  
 Declination Date: June 17, 2011  
 Magnetic Declination Model: BGGM 2010  
 North Reference: Grid North  
 Grid Convergence Used: -1.971 °  
 Total Corr Mag North->Grid North: 12.354 °  
 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 ° ' ")
KF 15-1H2 SHL	0.00	0.00	163.13	0.00	0.00	0.00	0.00	N/A	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
Marker MudLine	22.00	0.00	163.13	22.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	100.00	0.00	163.13	100.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	200.00	0.00	163.13	200.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	300.00	0.00	163.13	300.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	400.00	0.00	163.13	400.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	500.00	0.00	163.13	500.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	600.00	0.00	163.13	600.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
KOP, Build 2 DLS	620.00	0.00	163.13	620.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	700.00	1.60	163.13	699.99	-0.06	-1.07	0.32	2.00	14305501.30	762031.22	N 39 21 3.33	W 108 6 25.20
	800.00	3.60	163.13	799.88	-0.28	-5.41	1.64	2.00	14305496.96	762032.54	N 39 21 3.28	W 108 6 25.18
	900.00	5.60	163.13	899.55	-0.68	-13.08	3.97	2.00	14305489.28	762034.86	N 39 21 3.21	W 108 6 25.14
	1000.00	7.60	163.13	998.89	-1.25	-24.08	7.30	2.00	14305478.27	762038.20	N 39 21 3.10	W 108 6 25.10
	1070.05	9.00	163.13	1068.20	-1.76	-33.76	10.24	2.00	14305468.59	762041.14	N 39 21 3.01	W 108 6 25.06
	1100.00	9.00	163.13	1097.78	-1.99	-38.24	11.60	0.00	14305464.11	762042.50	N 39 21 2.96	W 108 6 25.04
	1200.00	9.00	163.13	1196.55	-2.77	-53.22	16.14	0.00	14305448.13	762047.04	N 39 21 2.82	W 108 6 24.97
	1300.00	9.00	163.13	1295.32	-3.55	-68.19	20.68	0.00	14305434.15	762051.58	N 39 21 2.67	W 108 6 24.91
	1400.00	9.00	163.13	1394.09	-4.33	-83.16	25.22	0.00	14305419.17	762056.12	N 39 21 2.52	W 108 6 24.84
	1500.00	9.00	163.13	1492.86	-5.11	-98.13	29.75	0.00	14305404.19	762060.66	N 39 21 2.38	W 108 6 24.78
	1600.00	9.00	163.13	1591.63	-5.89	-113.11	34.29	0.00	14305389.21	762065.21	N 39 21 2.23	W 108 6 24.71
	1700.00	9.00	163.13	1690.39	-6.67	-128.08	38.83	0.00	14305374.23	762069.75	N 39 21 2.09	W 108 6 24.65
	1800.00	9.00	163.13	1789.16	-7.45	-143.05	43.37	0.00	14305359.25	762074.29	N 39 21 1.94	W 108 6 24.59
	1900.00	9.00	163.13	1887.93	-8.23	-158.02	47.91	0.00	14305344.27	762078.83	N 39 21 1.79	W 108 6 24.52
	2000.00	9.00	163.13	1986.70	-9.01	-172.99	52.45	0.00	14305329.29	762083.37	N 39 21 1.65	W 108 6 24.46
	2100.00	9.00	163.13	2085.47	-9.79	-187.97	56.99	0.00	14305314.31	762087.92	N 39 21 1.50	W 108 6 24.39
Ohio Creek (Top Krmv)	2181.00	9.00	163.13	2185.47	-10.42	-200.09	60.67	0.00	14305302.18	762091.59	N 39 21 1.38	W 108 6 24.34
	2200.00	9.00	163.13	2184.24	-10.57	-202.94	61.53	0.00	14305299.33	762092.46	N 39 21 1.35	W 108 6 24.33
	2300.00	9.00	163.13	2283.00	-11.35	-217.91	66.07	0.00	14305284.35	762097.00	N 39 21 1.21	W 108 6 24.26
	2400.00	9.00	163.13	2381.77	-12.13	-232.88	70.61	0.00	14305269.37	762101.54	N 39 21 1.06	W 108 6 24.20
	2500.00	9.00	163.13	2480.54	-12.91	-247.85	75.15	0.00	14305254.40	762106.08	N 39 21 0.91	W 108 6 24.14
	2600.00	9.00	163.13	2579.31	-13.69	-262.83	79.69	0.00	14305239.42	762110.63	N 39 21 0.77	W 108 6 24.07
	2700.00	9.00	163.13	2678.08	-14.47	-277.80	84.23	0.00	14305224.44	762115.17	N 39 21 0.62	W 108 6 24.01
	2746.00	9.00	163.13	2723.51	-14.83	-284.69	86.32	0.00	14305217.55	762117.26	N 39 21 0.55	W 108 6 23.98
	2800.00	9.00	163.13	2778.85	-15.25	-292.77	88.77	0.00	14305209.46	762119.71	N 39 21 0.48	W 108 6 23.94
	2900.00	9.00	163.13	2875.62	-16.03	-307.74	93.31	0.00	14305194.48	762124.25	N 39 21 0.33	W 108 6 23.88
	3000.00	9.00	163.13	2974.38	-16.81	-322.71	97.85	0.00	14305179.50	762128.79	N 39 21 0.18	W 108 6 23.81
	3100.00	9.00	163.13	3073.15	-17.59	-337.69	102.39	0.00	14305164.52	762133.33	N 39 21 0.04	W 108 6 23.75
	3200.00	9.00	163.13	3171.92	-18.37	-352.66	106.93	0.00	14305149.54	762137.88	N 39 20 58.89	W 108 6 23.69
	3300.00	9.00	163.13	3270.69	-19.15	-367.63	111.47	0.00	14305134.56	762142.42	N 39 20 59.74	W 108 6 23.62
	3400.00	9.00	163.13	3369.46	-19.93	-382.60	116.01	0.00	14305119.58	762146.96	N 39 20 59.60	W 108 6 23.56
	3500.00	9.00	163.13	3468.23	-20.71	-397.58	120.55	0.00	14305104.60	762151.50	N 39 20 59.45	W 108 6 23.49
	3600.00	9.00	163.13	3567.00	-21.49	-412.55	125.09	0.00	14305089.62	762156.04	N 39 20 59.30	W 108 6 23.43
	3690.00	9.00	163.13	3655.89	-22.19	-426.02	129.17	0.00	14305076.14	762160.13	N 39 20 59.17	W 108 6 23.37
	3700.00	9.00	163.13	3665.76	-22.27	-427.52	129.63	0.00	14305074.64	762160.59	N 39 20 59.16	W 108 6 23.36
	3800.00	9.00	163.13	3764.53	-23.05	-442.49	134.17	0.00	14305059.66	762165.13	N 39 20 59.01	W 108 6 23.30
	3900.00	9.00	163.13	3863.30	-23.83	-457.46	138.71	0.00	14305044.69	762169.67	N 39 20 58.87	W 108 6 23.24
	4000.00	9.00	163.13	3962.07	-24.61	-472.44	143.25	0.00	14305029.71	762174.21	N 39 20 58.72	W 108 6 23.17
	4100.00	9.00	163.13	4060.84	-25.39	-487.41	147.79	0.00	14305014.73	762178.75	N 39 20 58.57	W 108 6 23.11
	4200.00	9.00	163.13	4159.61	-26.17	-502.38	152.33	0.00	14304999.75	762183.29	N 39 20 58.43	W 108 6 23.04
	4300.00	9.00	163.13	4258.38	-26.95	-517.35	156.87	0.00	14304984.77	762187.84	N 39 20 58.28	W 108 6 22.98
	4400.00	9.00	163.13	4357.14	-27.73	-532.32	161.40	0.00	14304969.79	762192.38	N 39 20 58.13	W 108 6 22.91
	4500.00	9.00	163.13	4455.91	-28.51	-547.30	165.94	0.00	14304954.81	762196.92	N 39 20 57.99	W 108 6 22.85
Coal Ridge (Paludal)	4588.00	9.00	163.13	4542.83	-29.20	-560.47	169.94	0.00	14304941.63	762200.92	N 39 20 57.86	W 108 6 22.79
	4600.00	9.00	163.13	4554.68	-29.29	-562.27	170.48	0.00	14304939.83	762201.48	N 39 20 57.84	W 108 6 22.78
	4700.00	9.00	163.13	4653.45	-30.07	-577.24	175.02	0.00	14304924.85	762206.00	N 39 20 57.69	W 108 6 22.72
	4800.00	9.00	163.13	4752.22	-30.85	-592.21	179.56	0.00	14304909.87	762210.55	N 39 20 57.55	W 108 6 22.66
	4900.00	9.00	163.13	4850.99	-31.63	-607.18	184.10	0.00	14304894.89	762215.09	N 39 20 57.40	W 108 6 22.59
Rollins Ss (Iles Fm)	4936.00	9.00	163.13	4886.54	-31.91	-612.57	185.74	0.00	14304889.50	762216.72	N 39 20 57.35	W 108 6 22.57
	5000.00	9.00	163.13	4949.76	-32.41	-622.16	189.64	0.00	14304879.91	762219.63	N 39 20 57.26	W 108 6 22.53
	5100.00	9.00	163.13	5048.52	-33.19	-637.13	193.18	0.00	14304864.93	762224.17	N 39 20 57.11	W 108 6 22.48
	5186.00	9.00	163.13	5133.47	-33.86	-650.00	197.09	0.00	14304852.05	762228.08	N 39 20 56.98	W 108 6 22.41
	5200.00	9.00	163.13	5147.29	-33.97	-652.10	197.72	0.00	14304849.95	762228.71	N 39 20 56.96	W 108 6 22.40
	5300.00	9.00	163.13	5246.06	-34.75	-667.07	202.26	0.00	14304834.88	762233.25	N 39 20 56.82	W 108 6 22.33
	5400.00	9.00	163.13	5344.83	-35.53	-682.05	206.80	0.00	14304820.00	762237.80	N 39 20 56.67	W 108 6 22.27
	5441.00	9.00	163.13	5395.33	-35.85	-688.18	208.66	0.00	14304813.85	762239.66	N 39 20 56.61	W 108 6 22.24
	5500.00	9.00	163.13	5443.60	-36.31	-697.02	211.34	0.00	14304805.02	762242.34	N 39 20 56.52	W 108 6 22.21
	5600.00	9.00	163.13	5542.37	-37.09	-711.99	215.88	0.00	14304790.04	762246.88	N 39 20 56.38	W 108 6 22.14
	5700.00	9.00	163.13	5641.14	-37.87	-726.96	220.42	0.00	14304775.06	762251.42	N 39 20 56.23	W 108 6 22.08
	5800.00	9.00	163.13	5739.90	-38.65	-741.93	224.96	0.00	14304760.08	762255.96	N 39 20 56.09	W 108 6 22.01
	5900.00	9.00	163.13	5838.67	-39.43	-756.91	229.50	0.00	14304745.10	762260.51	N 39 20 55.94	W 108 6 21.95
	6000.00	9.00	163.13</									



Comments	MD (ft)	Incl (°)	Azimi Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Mancos B	6600.00	9.00	183.13	6530.05	-44.89	-861.71	261.28	0.00	14304480.24	762282.30	N 39 20 54.91	W 108 6 21.50
	6700.00	9.00	183.13	6628.82	-45.87	-876.68	265.82	0.00	14304482.25	762296.84	N 39 20 54.77	W 108 6 21.43
	6800.00	9.00	183.13	6727.59	-46.45	-891.65	270.36	0.00	143044810.29	762301.38	N 39 20 54.62	W 108 6 21.37
	6800.00	9.00	183.13	6826.36	-47.23	-906.63	274.90	0.00	14304595.31	762305.92	N 39 20 54.48	W 108 6 21.31
	6982.00	9.00	183.13	6907.95	-47.87	-918.90	278.62	0.00	14304583.02	762309.65	N 39 20 54.36	W 108 6 21.25
	7000.00	9.00	183.13	6925.13	-48.01	-921.60	279.44	0.00	14304580.33	762310.47	N 39 20 54.33	W 108 6 21.24
	7100.00	9.00	183.13	7023.90	-48.79	-936.57	283.98	0.00	14304585.35	762315.01	N 39 20 54.16	W 108 6 21.18
	7200.00	9.00	183.13	7122.68	-49.57	-951.54	288.52	0.00	14304550.37	762319.55	N 39 20 54.04	W 108 6 21.11
	7300.00	9.00	183.13	7221.43	-50.35	-966.52	293.06	0.00	14304535.39	762324.09	N 39 20 53.89	W 108 6 21.05
	7400.00	9.00	183.13	7320.20	-51.13	-981.49	297.59	0.00	14304520.41	762328.63	N 39 20 53.74	W 108 6 20.98
Prairie Canyon	7432.00	9.00	183.13	7351.81	-51.38	-986.28	299.05	0.00	14304515.62	762330.09	N 39 20 53.70	W 108 6 20.96
	7500.00	9.00	183.13	7418.97	-51.91	-996.48	302.13	0.00	14304505.43	762333.18	N 39 20 53.60	W 108 6 20.92
	7600.00	9.00	183.13	7517.74	-52.69	-1011.43	306.67	0.00	14304490.45	762337.72	N 39 20 53.45	W 108 6 20.86
	7700.00	9.00	183.13	7616.51	-53.47	-1026.40	311.21	0.00	14304475.47	762342.26	N 39 20 53.30	W 108 6 20.79
	7800.00	9.00	183.13	7715.28	-54.25	-1041.38	315.75	0.00	14304460.49	762346.80	N 39 20 53.16	W 108 6 20.73
	7900.00	9.00	183.13	7814.04	-55.03	-1056.35	320.29	0.00	14304445.51	762351.34	N 39 20 53.01	W 108 6 20.66
	8000.00	9.00	183.13	7912.81	-55.81	-1071.32	324.83	0.00	14304430.53	762355.88	N 39 20 52.87	W 108 6 20.60
	8100.00	9.00	183.13	8011.58	-56.59	-1086.29	329.37	0.00	14304415.55	762360.43	N 39 20 52.72	W 108 6 20.53
	8198.54	9.00	183.13	8108.91	-57.36	-1101.05	333.85	0.00	14304400.79	762364.90	N 39 20 52.57	W 108 6 20.47
	8200.00	8.99	182.39	8110.35	-57.37	-1101.26	333.91	8.00	14304400.58	762364.97	N 39 20 52.57	W 108 6 20.47
KOP, Build 8 DLS	8271.00	10.03	128.04	8180.43	-54.28	-1110.37	340.47	8.00	14304391.47	762371.52	N 39 20 52.49	W 108 6 20.38
	8300.00	11.27	117.41	8208.93	-51.00	-1113.23	344.97	8.00	14304388.81	762378.03	N 39 20 52.46	W 108 6 20.32
	8400.00	17.33	95.65	8305.85	-30.86	-1119.20	368.51	8.00	14304382.63	762389.58	N 39 20 52.41	W 108 6 20.02
	8500.00	24.51	85.59	8399.23	2.65	-1119.08	404.07	8.00	14304382.75	762435.18	N 39 20 52.42	W 108 6 19.57
	8600.00	32.08	79.97	8487.25	48.89	-1112.85	450.45	8.00	14304388.98	762482.07	N 39 20 52.50	W 108 6 18.98
	8700.00	39.77	76.32	8568.19	106.95	-1100.64	508.26	8.00	14304401.20	762538.40	N 39 20 52.84	W 108 6 18.25
	8800.00	47.58	73.70	8640.47	175.70	-1082.70	574.86	8.00	14304419.15	762606.03	N 39 20 53.09	W 108 6 17.41
	8900.00	55.40	71.67	8702.70	253.81	-1059.36	649.47	8.00	14304442.50	762650.68	N 39 20 53.40	W 108 6 16.47
	9000.00	63.27	69.98	8753.66	339.76	-1031.08	730.63	8.00	14304470.79	762701.88	N 39 20 53.75	W 108 6 15.45
	9100.00	71.18	68.52	8792.38	431.86	-998.42	816.77	8.00	14304503.47	762764.06	N 39 20 54.14	W 108 6 14.37
Landing Point	9200.00	79.05	67.19	8818.04	528.34	-962.00	906.20	8.00	14304539.91	762937.53	N 39 20 54.56	W 108 6 13.25
	9300.00	86.96	65.93	8830.21	627.30	-922.54	997.19	8.00	14304579.38	763028.58	N 39 20 54.84	W 108 6 12.11
	9317.64	88.35	65.71	8830.93	644.87	-915.32	1013.28	8.00	14304586.01	763044.85	N 39 20 54.84	W 108 6 11.91
	9400.00	88.35	65.71	8833.30	726.94	-881.48	1088.30	0.00	14304620.46	763118.72	N 39 20 55.00	W 108 6 10.97
	9500.00	88.35	65.71	8836.18	826.58	-840.34	1179.41	0.00	14304661.63	763210.88	N 39 20 55.44	W 108 6 9.83
	9600.00	88.35	65.71	8839.08	926.22	-799.22	1270.52	0.00	14304702.77	763302.03	N 39 20 55.87	W 108 6 8.69
	9700.00	88.35	65.71	8841.94	1025.86	-758.10	1361.63	0.00	14304743.90	763393.18	N 39 20 56.31	W 108 6 7.55
	9800.00	88.35	65.71	8844.82	1125.51	-716.88	1452.74	0.00	14304785.04	763484.34	N 39 20 56.75	W 108 6 6.40
	9900.00	88.35	65.71	8847.70	1225.15	-675.86	1543.85	0.00	14304826.18	763575.49	N 39 20 57.18	W 108 6 5.26
	10000.00	88.35	65.71	8850.58	1324.79	-634.75	1634.98	0.00	14304867.32	763666.64	N 39 20 57.62	W 108 6 4.12
KF 15-1H2 TD	10100.00	88.35	65.71	8853.46	1424.43	-593.63	1726.07	0.00	14304908.46	763757.80	N 39 20 58.06	W 108 6 2.98
	10200.00	88.35	65.71	8856.34	1524.07	-552.51	1817.18	0.00	14304949.60	763848.95	N 39 20 58.50	W 108 6 1.84
	10300.00	88.35	65.71	8859.22	1623.71	-511.39	1908.29	0.00	14304990.73	763940.10	N 39 20 58.93	W 108 6 0.70
	10400.00	88.35	65.71	8862.10	1723.35	-470.27	1999.40	0.00	14305031.87	764031.26	N 39 20 59.37	W 108 6 5.98
	10500.00	88.35	65.71	8864.98	1823.00	-429.15	2090.51	0.00	14305073.01	764122.41	N 39 20 59.81	W 108 6 5.88
	10600.00	88.35	65.71	8867.86	1922.64	-388.03	2181.62	0.00	14305114.15	764213.56	N 39 21 0.25	W 108 6 5.77
	10700.00	88.35	65.71	8870.74	2022.28	-346.92	2272.73	0.00	14305155.29	764304.72	N 39 21 0.68	W 108 6 5.66
	10800.00	88.35	65.71	8873.62	2121.92	-305.80	2363.84	0.00	14305196.42	764395.87	N 39 21 1.12	W 108 6 5.54
	10900.00	88.35	65.71	8876.50	2221.56	-264.68	2454.95	0.00	14305237.56	764487.03	N 39 21 1.56	W 108 6 5.43
	11000.00	88.35	65.71	8879.38	2321.20	-223.56	2546.06	0.00	14305278.70	764578.18	N 39 21 1.99	W 108 6 5.32

## Keinath Federal 15-1H2 R0 27-Jun-11 Proposal Report

(Non-Def Plan)

Report Date: June 29, 2011 - 10:48 AM  
 Client: Encana Oil & Gas (USA) Inc.  
 Field: CO, Mesa County (NAD 83 UTM 13) EnCana 2010  
 Structure / Slot: Encana 16-08S-96W (H16OU Pad) / Well 14  
 Well: Keinath Federal 15-1H2  
 Borehole: Original Hole  
 UWI / API#: Unknown / Unknown  
 Survey Name: Keinath Federal 15-1H2 R0 27-Jun-11  
 Survey Date: June 17, 2011  
 Tort / AHD / DDI / ERD Ratio: 98.529 \* / 7369.772 ft / 6.078 / 0.820  
 Coordinate Reference System: NAD83 UTM Zone 13N, US Feet  
 Location Lat / Long: N 39° 21' 3.33720", W 108° 6' 25.20002"  
 Location Grid N/E Y/X: N 14305502.369 IJUS, E 762030.896 IJUS  
 CRS Reference Angle: -1.97121985 \*  
 Grid Scale Factor: 1.00046266

Survey / DLS Computation: Minimum Curvature / Lubinski  
 Vertical Section Azimuth: 70.275 \* (Grid North)  
 Vertical Section Origin: 0.000 ft, 0.000 ft  
 TVD Reference Datum: RKB  
 TVD Reference Elevation: 5887.000 ft above MSL  
 Seabed / Ground Elevation: 5845.000 ft above MSL  
 Magnetic Declination: 10.383 \*  
 Total Field Strength: 52136.608 nT  
 Magnetic Dip Angle: 65.624 \*  
 Declination Date: June 17, 2011  
 Magnetic Declination Model: BIGGM 2010  
 North Reference: Grid North  
 Grid Convergence Used: -1.971 \*  
 Total Corr Mag North->Grid North: 12.354 \*  
 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 ° ' ")
KF 15-1H2 SHL	0.00	0.00	163.13	0.00	0.00	0.00	0.00	N/A	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
Marker MudLine	22.00	0.00	163.13	22.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	100.00	0.00	163.13	100.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	200.00	0.00	163.13	200.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	300.00	0.00	163.13	300.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	400.00	0.00	163.13	400.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	500.00	0.00	163.13	500.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
	600.00	0.00	163.13	600.00	0.00	0.00	0.00	0.00	14305502.37	762030.90	N 39 21 3.34	W 108 6 25.20
KOP, Build 2 DLS	620.00	0.00	163.13	620.00	0.00	0.00	0.00	0.00	14305501.30	762031.22	N 39 21 3.33	W 108 6 25.20
	700.00	1.60	163.13	999.99	-0.08	-1.07	0.32	2.00	14305496.96	762032.54	N 39 21 3.28	W 108 6 25.18
	800.00	3.60	163.13	799.88	-0.28	-5.41	1.64	2.00	14305489.28	762034.86	N 39 21 3.21	W 108 6 25.14
	900.00	5.60	163.13	899.55	-0.68	-13.08	3.97	2.00	14305478.27	762038.20	N 39 21 3.10	W 108 6 25.10
	1000.00	7.60	163.13	998.89	-1.25	-24.08	7.30	2.00	14305468.59	762041.14	N 39 21 3.01	W 108 6 25.06
Hold	1070.05	9.00	163.13	1068.20	-1.76	-33.76	10.24	2.00	14305464.11	762042.50	N 39 21 2.96	W 108 6 25.04
	1100.00	9.00	163.13	1067.78	-1.89	-38.24	11.60	0.00	14305449.13	762047.04	N 39 21 2.82	W 108 6 24.97
	1200.00	9.00	163.13	1196.55	-2.77	-53.22	16.14	0.00	14305434.15	762051.58	N 39 21 2.67	W 108 6 24.91
	1300.00	9.00	163.13	1295.32	-3.55	-68.19	20.68	0.00	14305419.17	762056.12	N 39 21 2.52	W 108 6 24.84
	1400.00	9.00	163.13	1394.09	-4.33	-83.16	25.22	0.00	14305404.19	762060.66	N 39 21 2.38	W 108 6 24.78
	1500.00	9.00	163.13	1492.86	-5.11	-98.13	29.75	0.00	14305389.21	762065.21	N 39 21 2.23	W 108 6 24.71
	1600.00	9.00	163.13	1591.63	-5.89	-113.11	34.29	0.00	14305374.23	762069.75	N 39 21 2.09	W 108 6 24.65
	1700.00	9.00	163.13	1690.39	-6.67	-128.08	38.83	0.00	14305359.25	762074.29	N 39 21 1.94	W 108 6 24.59
	1800.00	9.00	163.13	1789.16	-7.45	-143.05	43.37	0.00	14305344.27	762078.83	N 39 21 1.79	W 108 6 24.52
	1900.00	9.00	163.13	1887.93	-8.23	-158.02	47.91	0.00	14305329.29	762083.37	N 39 21 1.65	W 108 6 24.46
	2000.00	9.00	163.13	1986.70	-9.01	-172.99	52.45	0.00	14305314.31	762087.92	N 39 21 1.50	W 108 6 24.39
Ohio Creek (Top Km)	2181.00	9.00	163.13	2165.47	-10.42	-200.09	60.67	0.00	14305302.18	762091.59	N 39 21 1.38	W 108 6 24.34
	2200.00	9.00	163.13	2184.24	-10.57	-202.94	61.53	0.00	14305299.33	762092.48	N 39 21 1.35	W 108 6 24.33
	2300.00	9.00	163.13	2283.00	-11.35	-217.91	66.07	0.00	14305284.35	762097.00	N 39 21 1.21	W 108 6 24.26
	2400.00	9.00	163.13	2381.77	-12.13	-232.88	70.61	0.00	14305269.37	762101.54	N 39 21 1.06	W 108 6 24.20
	2500.00	9.00	163.13	2480.54	-12.91	-247.85	75.15	0.00	14305254.40	762106.08	N 39 21 0.91	W 108 6 24.14
	2600.00	9.00	163.13	2579.31	-13.69	-262.83	79.69	0.00	14305239.42	762110.63	N 39 21 0.77	W 108 6 24.07
	2700.00	9.00	163.13	2678.08	-14.47	-277.80	84.23	0.00	14305224.44	762115.17	N 39 21 0.62	W 108 6 24.01
Williams Fork Fm	2746.00	9.00	163.13	2723.51	-14.63	-284.69	86.32	0.00	14305217.55	762117.26	N 39 21 0.55	W 108 6 23.98
	2800.00	9.00	163.13	2776.85	-15.25	-292.77	88.77	0.00	14305209.46	762119.71	N 39 21 0.48	W 108 6 23.94
	2900.00	9.00	163.13	2875.62	-16.03	-307.74	93.31	0.00	14305194.48	762124.25	N 39 21 0.33	W 108 6 23.88
	3000.00	9.00	163.13	2974.38	-16.81	-322.71	97.85	0.00	14305179.50	762128.79	N 39 21 0.18	W 108 6 23.81
	3100.00	9.00	163.13	3073.15	-17.59	-337.69	102.39	0.00	14305164.52	762133.33	N 39 21 0.04	W 108 6 23.75
	3200.00	9.00	163.13	3171.92	-18.37	-352.66	106.93	0.00	14305149.54	762137.88	N 39 20 59.89	W 108 6 23.69
	3300.00	9.00	163.13	3270.69	-19.15	-367.63	111.47	0.00	14305134.56	762142.42	N 39 20 59.74	W 108 6 23.62
	3400.00	9.00	163.13	3369.46	-19.93	-382.60	116.01	0.00	14305119.58	762146.96	N 39 20 59.60	W 108 6 23.56
	3500.00	9.00	163.13	3468.23	-20.71	-397.58	120.55	0.00	14305104.60	762151.50	N 39 20 59.45	W 108 6 23.49
Top Gas	3600.00	9.00	163.13	3567.00	-21.49	-412.55	125.09	0.00	14305089.62	762156.04	N 39 20 59.30	W 108 6 23.43
	3690.00	9.00	163.13	3655.89	-22.19	-426.02	129.17	0.00	14305076.14	762160.13	N 39 20 59.17	W 108 6 23.37
	3700.00	9.00	163.13	3665.78	-22.27	-427.52	129.63	0.00	14305074.84	762160.59	N 39 20 59.16	W 108 6 23.36
	3800.00	9.00	163.13	3764.53	-23.05	-442.49	134.17	0.00	14305059.66	762165.13	N 39 20 59.01	W 108 6 23.30
	3900.00	9.00	163.13	3863.30	-23.83	-457.46	138.71	0.00	14305044.69	762169.67	N 39 20 58.87	W 108 6 23.24
	4000.00	9.00	163.13	3962.07	-24.61	-472.44	143.25	0.00	14305029.71	762174.21	N 39 20 58.72	W 108 6 23.17
	4100.00	9.00	163.13	4060.84	-25.39	-487.41	147.79	0.00	14305014.73	762178.75	N 39 20 58.57	W 108 6 23.11
	4200.00	9.00	163.13	4159.61	-26.17	-502.38	152.33	0.00	14304999.75	762183.29	N 39 20 58.43	W 108 6 23.04
	4300.00	9.00	163.13	4258.38	-26.95	-517.35	156.87	0.00	14304984.77	762187.84	N 39 20 58.28	W 108 6 22.98
	4400.00	9.00	163.13	4357.14	-27.73	-532.32	161.40	0.00	14304969.79	762192.38	N 39 20 58.13	W 108 6 22.91
	4500.00	9.00	163.13	4455.91	-28.51	-547.30	165.94	0.00	14304954.81	762196.92	N 39 20 57.99	W 108 6 22.85
Coal Ridge (Paludal)	4588.00	9.00	163.13	4542.83	-29.20	-560.47	169.94	0.00	14304941.63	762200.92	N 39 20 57.86	W 108 6 22.79
	4600.00	9.00	163.13	4554.68	-29.29	-562.27	170.48	0.00	14304939.83	762201.48	N 39 20 57.84	W 108 6 22.78
	4700.00	9.00	163.13	4653.45	-30.07	-577.24	175.02	0.00	14304924.85	762206.00	N 39 20 57.69	W 108 6 22.72
	4800.00	9.00	163.13	4752.22	-30.85	-592.21	179.58	0.00	14304909.87	762210.55	N 39 20 57.55	W 108 6 22.66
	4900.00	9.00	163.13	4850.99	-31.63	-607.18	184.10	0.00	14304894.89	762215.09	N 39 20 57.40	W 108 6 22.59
Rollins Ss (Hes Fm)	4936.00	9.00	163.13	4886.54	-31.91	-612.57	185.74	0.00	14304889.50	762216.72	N 39 20 57.35	W 108 6 22.57
	5000.00	9.00	163.13	4949.76	-32.41	-622.16	188.64	0.00	14304879.91	762219.63	N 39 20 57.26	W 108 6 22.53
	5100.00	9.00	163.13	5048.52	-33.19	-637.13	193.18	0.00	14304864.93	762224.17	N 39 20 57.11	W 108 6 22.46
Cozzette	5186.00	9.00	163.13	5133.47	-33.86	-650.00	197.09	0.00	14304852.05	762228.08	N 39 20 56.98	W 108 6 22.41
	5200.00	9.00	163.13	5147.29	-33.97	-652.10	197.72	0.00	14304849.85	762228.71	N 39 20 56.96	W 108 6 22.40
	5300.00	9.00	163.13	5246.06	-34.75	-667.07	202.26	0.00	14304834.98	762233.25	N 39 20 56.82	W 108 6 22.33
	5400.00	9.00	163.13	5344.83	-35.53	-682.05	206.80	0.00	14304820.00	762237.80	N 39 20 56.67	W 108 6 22.27
Corcoran	5441.00	9.00	163.13	5385.33	-35.85	-688.18	208.60	0.00	14304813.85	762239.66	N 39 20 56.61	W 108 6 22.24
	5500.00	9.00	163.13	5443.60	-36.31	-697.02	211.34	0.00	14304805.02	762242.34	N 39 20 56.52	W 108 6 22.21
	5600.00	9.00	163.13	5542.37	-37.09	-711.99	215.88	0.00	14304790.04	762246.88	N 39 20 56.38	W 108 6 22.14
	5700.00	9.00	163.13	5641.14	-37.87	-726.96	220.42	0.00	14304775.06	762251.42	N 39 20 56.23	W 108 6 22.08
	5800.00	9.00	163.13	5739.90	-38.65	-741.93	224.96	0.00	14304760.08	762255.96	N 39 20 56.09	W 108 6 22.01
	5900.00	9.00	163.13	5838.67	-39.43	-756.91	229.50	0.00	14304745.10	762260.51	N 39 20 55.94	W 108 6 21.95
	6000.00	9.00	163.13	5937.44	-40.21	-771.88	234.04	0.00	14304730.12	762265.05	N 39 20 55.79	W 108 6 21.88
	6100.00											

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 ° ' '')
Mancos B	6600.00	9.00	163.13	6530.05	-44.89	-861.71	261.28	0.00	14304640.24	762292.30	N 39 20 54.91	W 108 6 21.50
	6700.00	9.00	163.13	6628.82	-45.67	-876.88	265.82	0.00	14304625.28	762296.84	N 39 20 54.77	W 108 6 21.43
	6800.00	9.00	163.13	6727.59	-46.45	-891.65	270.36	0.00	14304610.29	762301.39	N 39 20 54.62	W 108 6 21.37
	6900.00	9.00	163.13	6826.36	-47.23	-906.83	274.90	0.00	14304595.31	762305.92	N 39 20 54.48	W 108 6 21.31
	6992.00	9.00	163.13	6907.35	-47.87	-918.90	278.62	0.00	14304583.02	762309.65	N 39 20 54.36	W 108 6 21.25
	7000.00	9.00	163.13	6925.13	-48.01	-921.60	278.44	0.00	14304580.33	762310.47	N 39 20 54.18	W 108 6 21.18
	7100.00	9.00	163.13	7023.90	-48.78	-936.57	283.98	0.00	14304565.35	762315.01	N 39 20 54.04	W 108 6 21.11
	7200.00	9.00	163.13	7122.66	-49.57	-951.54	288.52	0.00	14304550.37	762319.55	N 39 20 53.89	W 108 6 21.05
	7300.00	9.00	163.13	7221.43	-50.35	-966.52	293.06	0.00	14304535.39	762324.09	N 39 20 53.74	W 108 6 20.98
	7400.00	9.00	163.13	7320.20	-51.13	-981.49	297.59	0.00	14304520.41	762328.63	N 39 20 53.70	W 108 6 20.96
Pretire Canyon	7432.00	9.00	163.13	7351.81	-51.39	-986.28	299.05	0.00	14304515.62	762330.09	N 39 20 53.60	W 108 6 20.92
	7500.00	9.00	163.13	7418.97	-51.81	-996.46	302.13	0.00	14304505.43	762333.18	N 39 20 53.60	W 108 6 20.92
	7600.00	9.00	163.13	7517.74	-52.89	-1011.43	306.67	0.00	14304490.45	762337.72	N 39 20 53.45	W 108 6 20.86
	7700.00	9.00	163.13	7616.51	-53.47	-1026.40	311.21	0.00	14304475.47	762342.26	N 39 20 53.30	W 108 6 20.79
	7800.00	9.00	163.13	7715.28	-54.25	-1041.38	315.75	0.00	14304460.49	762346.80	N 39 20 53.16	W 108 6 20.73
	7900.00	9.00	163.13	7814.04	-55.03	-1056.35	320.29	0.00	14304445.51	762351.34	N 39 20 53.01	W 108 6 20.66
	8000.00	9.00	163.13	7912.81	-55.81	-1071.32	324.83	0.00	14304430.53	762355.88	N 39 20 52.87	W 108 6 20.60
	8100.00	9.00	163.13	8011.58	-56.59	-1086.29	329.37	0.00	14304415.55	762360.43	N 39 20 52.72	W 108 6 20.53
	8198.54	9.00	163.13	8108.91	-57.36	-1101.05	333.85	0.00	14304400.79	762364.90	N 39 20 52.57	W 108 6 20.47
	8200.00	8.99	162.39	8110.35	-57.37	-1101.26	333.91	8.00	14304400.58	762364.97	N 39 20 52.57	W 108 6 20.47
Niobrara	8271.00	10.03	128.04	8180.43	-54.28	-1110.37	340.47	8.00	14304391.47	762371.52	N 39 20 52.49	W 108 6 20.38
	8300.00	11.27	117.41	8208.93	-51.00	-1113.23	344.97	8.00	14304388.61	762376.03	N 39 20 52.46	W 108 6 20.32
	8400.00	17.33	95.85	8305.85	-30.86	-1119.20	368.51	8.00	14304382.63	762389.58	N 39 20 52.41	W 108 6 20.02
	8500.00	24.51	85.59	8399.23	2.65	-1119.08	404.07	8.00	14304382.75	762435.18	N 39 20 52.42	W 108 6 19.57
	8600.00	32.06	79.97	8487.25	48.89	-1112.85	450.95	8.00	14304388.98	762482.07	N 39 20 52.50	W 108 6 18.98
	8700.00	39.77	76.32	8568.19	106.95	-1100.64	508.26	8.00	14304401.20	762538.40	N 39 20 52.84	W 108 6 18.25
	8800.00	47.56	73.70	8640.47	175.70	-1082.70	574.86	8.00	14304419.15	762606.03	N 39 20 52.84	W 108 6 17.41
	8900.00	55.40	71.67	8702.70	253.81	-1059.36	649.47	8.00	14304442.50	762680.88	N 39 20 53.09	W 108 6 16.87
	9000.00	63.27	69.98	8753.68	339.78	-1031.08	730.83	8.00	14304470.79	762761.88	N 39 20 53.40	W 108 6 15.45
	9100.00	71.16	68.52	8792.38	431.88	-998.42	816.77	8.00	14304503.47	762848.06	N 39 20 53.75	W 108 6 14.37
Landing Point	9200.00	79.05	67.19	8818.04	528.34	-962.00	906.20	8.00	14304539.91	762937.53	N 39 20 54.14	W 108 6 13.25
	9300.00	86.96	65.93	8850.21	627.30	-922.54	997.19	8.00	14304579.38	763026.56	N 39 20 54.64	W 108 6 11.91
	9317.84	88.35	65.71	8830.93	844.87	-915.32	1013.28	8.00	14304586.61	763044.65	N 39 20 55.00	W 108 6 10.97
	9400.00	88.35	65.71	8833.30	728.94	-881.46	1088.30	0.00	14304620.49	763119.72	N 39 20 55.44	W 108 6 9.83
	9500.00	88.35	65.71	8836.18	826.58	-840.34	1179.41	0.00	14304661.63	763210.86	N 39 20 55.87	W 108 6 8.89
	9600.00	88.35	65.71	8839.06	926.22	-789.22	1270.52	0.00	14304702.77	763302.03	N 39 20 56.31	W 108 6 7.55
	9700.00	88.35	65.71	8841.94	1025.86	-758.10	1361.83	0.00	14304743.90	763393.18	N 39 20 56.75	W 108 6 6.40
	9800.00	88.35	65.71	8844.82	1125.51	-716.98	1452.74	0.00	14304785.04	763484.34	N 39 20 57.19	W 108 6 5.26
	9900.00	88.35	65.71	8847.70	1225.15	-675.88	1543.85	0.00	14304826.18	763575.48	N 39 20 57.62	W 108 6 4.12
	10000.00	88.35	65.71	8850.58	1324.79	-634.75	1634.98	0.00	14304867.32	763666.64	N 39 20 58.06	W 108 6 2.98
KF 15-1H2 TD	10100.00	88.35	65.71	8853.43	1424.43	-593.63	1726.07	0.00	14304908.46	763757.80	N 39 20 58.50	W 108 6 1.84
	10200.00	88.35	65.71	8856.34	1524.07	-552.51	1817.18	0.00	14304949.80	763848.95	N 39 20 58.93	W 108 6 0.70
	10300.00	88.35	65.71	8859.22	1623.71	-511.39	1908.29	0.00	14304990.73	763940.10	N 39 20 59.37	W 108 6 0.50
	10400.00	88.35	65.71	8862.10	1723.35	-470.27	1999.40	0.00	14305031.87	764031.26	N 39 20 59.81	W 108 6 0.70
	10500.00	88.35	65.71	8864.98	1823.00	-429.15	2090.51	0.00	14305073.01	764122.41	N 39 21 00.25	W 108 6 0.57
	10600.00	88.35	65.71	8867.86	1922.64	-388.03	2181.62	0.00	14305114.15	764213.56	N 39 21 00.68	W 108 6 0.56
	10700.00	88.35	65.71	8870.74	2022.28	-346.92	2272.73	0.00	14305155.29	764304.72	N 39 21 01.12	W 108 6 0.54
	10800.00	88.35	65.71	8873.62	2121.92	-305.80	2363.84	0.00	14305196.42	764395.87	N 39 21 01.56	W 108 6 0.53
	10900.00	88.35	65.71	8876.50	2221.56	-264.68	2454.95	0.00	14305237.56	764487.03	N 39 21 02.00	W 108 6 0.52
	11000.00	88.35	65.71	8879.38	2321.20	-223.56	2546.06	0.00	14305278.70	764578.18	N 39 21 02.44	W 108 6 0.51
KF 15-1H2 TD	11100.00	88.35	65.71	8882.25	2420.84	-182.44	2637.17	0.00	14305319.84	764669.33	N 39 21 02.87	W 108 6 0.50
	11200.00	88.35	65.71	8885.13	2520.48	-141.32	2728.28	0.00	14305360.98	764760.49	N 39 21 03.30	W 108 6 0.49
	11300.00	88.35	65.71	8888.01	2620.13	-100.20	2819.39	0.00	14305402.12	764851.64	N 39 21 03.74	W 108 6 0.48
	11400.00	88.35	65.71	8890.89	2719.77	-59.09	2910.50	0.00	14305443.25	764942.79	N 39 21 04.18	W 108 6 0.47
	11500.00	88.35	65.71	8893.77	2819.41	-17.97	3001.61	0.00	14305484.39	765033.95	N 39 21 04.62	W 108 6 0.46
	11600.00	88.35	65.71	8896.65	2919.05	23.15	3092.72	0.00	14305525.53	765125.10	N 39 21 05.06	W 108 6 0.45
	11700.00	88.35	65.71	8899.53	3018.69	64.27	3183.83	0.00	14305566.67	765216.25	N 39 21 05.50	W 108 6 0.44
	11800.00	88.35	65.71	8902.41	3118.34	105.39	3274.94	0.00	14305607.81	765307.41	N 39 21 05.94	W 108 6 0.43
	11900.00	88.35	65.71	8905.29	3217.98	146.51	3366.05	0.00	14305648.95	765398.56	N 39 21 06.38	W 108 6 0.42
	12000.00	88.35	65.71	8908.17	3317.62	187.62	3457.16	0.00	14305690.08	765489.71	N 39 21 06.82	W 108 6 0.41
KF 15-1H2 TD	12100.00	88.35	65.71	8911.05	3417.26	228.74	3548.27	0.00	14305731.22	765580.87	N 39 21 07.26	W 108 6 0.40
	12200.00	88.35	65.71	8913.93	3516.90	269.86	3639.38	0.00	14305772.36	765672.02	N 39 21 07.70	W 108 6 0.39
	12300.00	88.35	65.71	8916.81	3616.54	310.98	3730.49	0.00	14305813.50	765763.17	N 39 21 08.14	W 108 6 0.38
	12400.00	88.35	65.71	8919.69	3716.18	352.10	3821.60	0.00	14305854.64	765854.33	N 39 21 08.58	W 108 6 0.37
	12500.00	88.35	65.71	8922.57	3815.83	393.22	3912.70	0.00	14305895.77	765945.48	N 39 21 09.02	W 108 6 0.36
	12600.00	88.35	65.71	8925.45	3915.47	434.34	4003.81	0.00	14305936.91	766036.63	N 39 21 09.46	W 108 6 0.35
	12700.00	88.35	65.71	8928.32	4015.11	475.45	4094.92	0.00	14305978.05	766127.79	N 39 21 09.90	W 108 6 0.34
	12800.00	88.35	65.71	8931.20	4114.75	516.57	4186.03	0.00	14306019.19	766218.94	N 39 21 10.34	W 108 6 0.33
	12900.00	88.35	65.71	8934.08	4214.39	557.69	4277.14	0.00	14306060.33	766310.10	N 39 21 10.78	W 108 6 0.32
	13000.00	88.35	65.71	8936.96	4314.03	598.81	4368.25	0.00	14306101.47	766401.25	N 39 21 11.22	W 108 6 0.31
KF 15-1H2 TD	13100.00	88.35	65.71	8939.84	4413.67	639.93	4459.36	0.00	14306142.60	766492.40	N 39 21 11.66	W 108 6 0.30
	13200.00	88.35	65.71	8942.72	4513.32	681.05	4550.47	0.00	14306183.74	766583.55	N 39 21 12.10	W 108 6 0.29
	13300.00	88.35	65.71	8945.60	4612.96	722.16	4641.58	0.00	14306224.88	766674.71	N 39 21 12.54	W 108