

WELL Keinath Federal 10-16H2	FIELD CO, Mesa Co. (NAD83UTM13)	STRUCTURE Encana 16-08S-96W (H16OU)
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Magnetic Parameters Model: BGGM 2010 Dip: 65.624° Mag Dec: 10.383°	Date: June 17, 2011 FS: 52136.7mT	Surface Location Lat: N 39 21 3.694 Lon: W 108 6 24.498	NAD83 UTM Zone 13N, US Feet Northing: 14305536.53 RUS Easting: 762087.28 RUS Grid Conv: -1.97110013° Scale Fact: 1.00048255	Miscellaneous Slot: Well 11 Plan: RD ors 27-Jun-11 TVD Ref: RKB(56678 above MSL) Srvy Date: June 17, 2011
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Surface Location

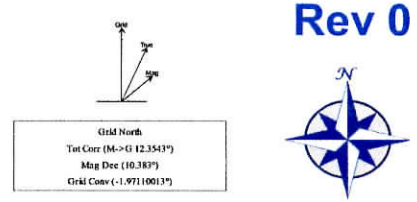
Northing: 14305536.53 Easting: 762087.28

Target Name	Shape	Major Axis	N(±)S(±)	E(±)W(±)	TYD	VSEC	N(±)S(±)	E(±)W(±)
KF 10-16H2 LP	Point	0.00	14305759.57	761965.52	8855.40	-9.00	222.94	-121.70
KF 10-16H2 TD	Point	0.00	14308226.78	767459.65	9032.43	6005.43	2688.96	5369.79

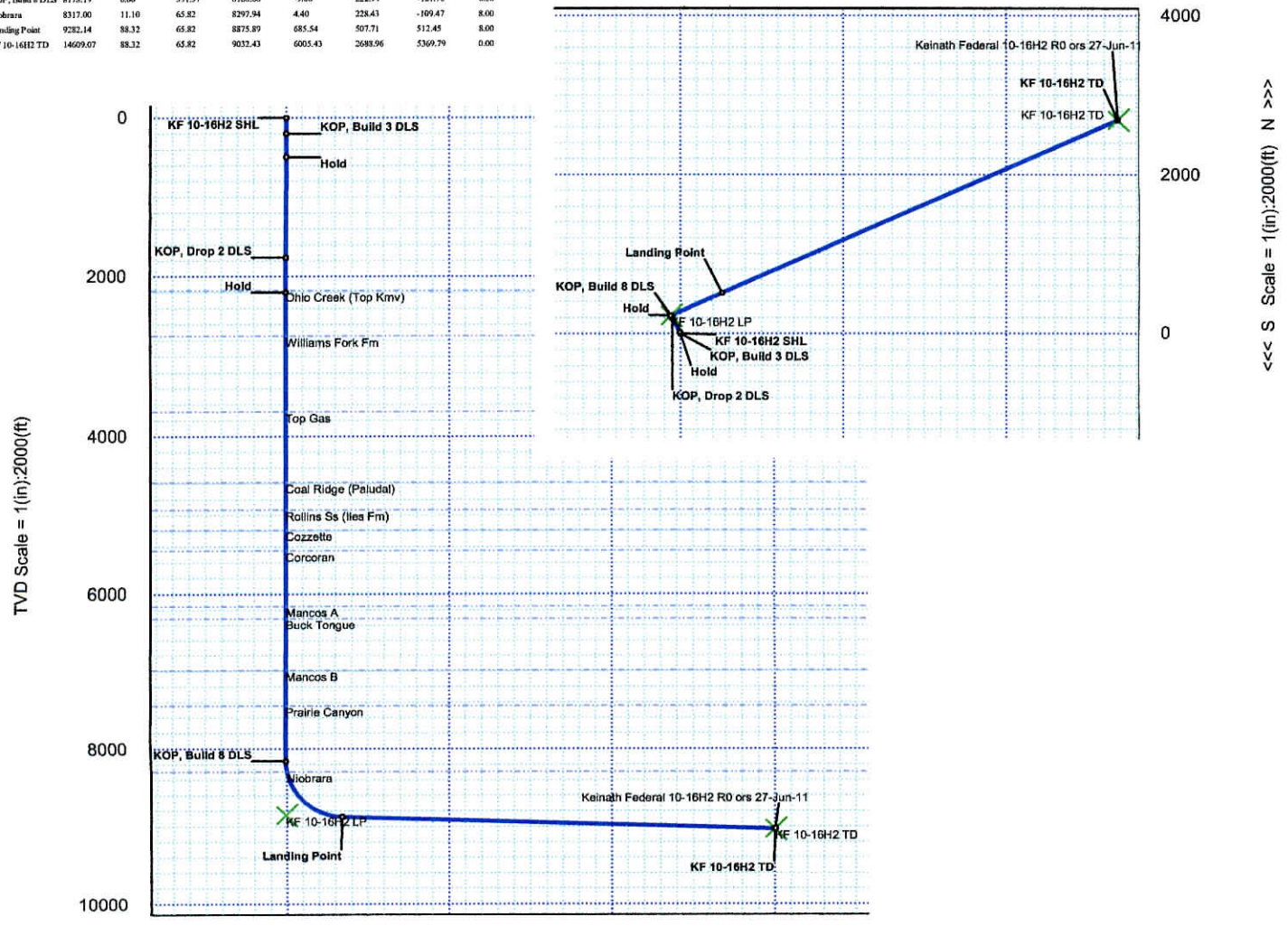
Quality Control
Date Drawn: June 29, 2011 09:58:43 AM
Drawn by: Gewalde Solano
Checked by: Tom Cate
Client OK:

Proposal

Critical Point	MD	INCL	AZM	TYD	VSEC	N(±)S(±)	E(±)W(±)	DLS
KF 10-16H2 SHL	0.00	0.00	331.37	0.00	0.00	0.00	0.00	0.00
Marker Mast Loc	22.00	0.00	331.37	22.00	0.00	0.00	0.00	0.00
KOP, Build 3 DLS	200.00	0.00	331.37	200.00	0.00	0.00	0.00	0.00
Hold	495.17	8.86	331.37	494.00	-0.81	19.98	-10.91	3.00
KOP, Drop 2 DLS	1775.44	8.86	331.37	1759.01	-7.79	192.96	-105.34	0.00
Ohio Creek (Top Kmvs)	2198.69	0.40	331.37	2179.81	-8.99	222.87	-121.66	2.00
Hold	2218.19	0.00	331.37	2200.00	-9.00	222.94	-121.70	2.00
Williams Fork Fm	2763.00	0.00	331.37	2744.81	-9.00	222.94	-121.70	0.00
Top Gas	3707.00	0.00	331.37	3688.81	-9.00	222.94	-121.70	0.00
Coal Ridge (Paludal)	4605.00	0.00	331.37	4586.81	-9.00	222.94	-121.70	0.00
Rollins Ss (Itea Fm)	4953.00	0.00	331.37	4934.81	-9.00	222.94	-121.70	0.00
Cozzette	5208.00	0.00	331.37	5189.81	-9.00	222.94	-121.70	0.00
Corcoran	5467.00	0.00	331.37	5448.81	-9.00	222.94	-121.70	0.00
Mancos A	6172.00	0.00	331.37	6153.81	-9.00	222.94	-121.70	0.00
Buck Tongue	6390.00	0.00	331.37	6311.81	-9.00	222.94	-121.70	0.00
Mancos B	7007.00	0.00	331.37	6988.81	-9.00	222.94	-121.70	0.00
Prairie Canyon	7464.00	0.00	331.37	7445.81	-9.00	222.94	-121.70	0.00
KOP, Build 8 DLS	8178.19	0.00	331.37	8160.00	-9.00	222.94	-121.70	0.00
Niobrara	8317.00	11.10	65.82	8297.94	4.40	228.43	-109.47	8.00
Landing Point	9282.14	88.32	65.82	8875.89	885.54	507.71	512.45	8.00
KF 10-16H2 TD	14609.07	88.32	65.82	9032.43	6005.43	2688.96	5369.79	0.00



<<< W Scale = 1(in):2000(ft) E >>>
0 2000 4000



Vertical Section (ft) Azim = 63.4°, Scale = 1(in):2000(ft) Origin = 0 N-S, 0 E-W

Keinath Federal 10-16H2 R0 ors 27-Jun-11 Proposal Report (Non-Def Plan)

Report Date: June 29, 2011 - 10:46 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 11
Well: Keinath Federal 10-16H2
Borehole: Original Hole
UWI / API#: Unknown / Unknown
Survey Name: Keinath Federal 10-16H2 R0 ors 27-Jun-11
Survey Date: June 17, 2011
Tort / AHD / DDI / ERD Ratio: 106.026 ° / 8273.769 ft / 6.032 / 0.695
Coordinate Reference System: NAD83 UTM Zone 13N, US Feet
Location Lat / Long: N 39° 21' 3.69380", W 108° 6' 24.49802"
Location Grid N/E Y/X: N 14305536.527 flUS, E 762087.276 flUS
CRS Grid Convergence Angle: -1.97110013 °
Grid Scale Factor: 1.00048255

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 83.400 ° (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: 52136.688 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 (flUS)	Easting (flUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
KF 10-16H2 SHL	0.00	0.00	331.37	0.00	0.00	0.00	0.00	N/A	14305536.53	762087.28	N 39 21 3.69	W 108 6 24.50
Marker MudLine	22.00	0.00	331.37	22.00	0.00	0.00	0.00	0.00	14305536.53	762087.28	N 39 21 3.69	W 108 6 24.50
KOP, Build 3 DLS	100.00	0.00	331.37	100.00	0.00	0.00	0.00	0.00	14305536.53	762087.28	N 39 21 3.69	W 108 6 24.50
	200.00	0.00	331.37	200.00	0.00	0.00	0.00	0.00	14305536.53	762087.28	N 39 21 3.69	W 108 6 24.50
	300.00	3.00	331.37	299.95	-0.09	2.30	-1.25	3.00	14305538.83	762086.02	N 39 21 3.72	W 108 6 24.51
	400.00	6.00	331.37	399.63	-0.37	9.18	-5.01	3.00	14305545.71	762082.25	N 39 21 3.78	W 108 6 24.57
Hold	495.17	8.86	331.37	494.00	-0.81	19.98	-10.91	3.00	14305556.52	762076.38	N 39 21 3.89	W 108 6 24.65
	500.00	8.86	331.37	498.77	-0.83	20.63	-11.26	0.00	14305557.17	762076.01	N 39 21 3.89	W 108 6 24.65
	600.00	8.86	331.37	597.58	-1.38	34.14	-18.64	0.00	14305570.69	762068.63	N 39 21 4.02	W 108 6 24.75
	700.00	8.86	331.37	696.38	-1.92	47.66	-26.02	0.00	14305584.21	762061.25	N 39 21 4.16	W 108 6 24.85
	800.00	8.86	331.37	795.19	-2.47	61.17	-33.39	0.00	14305597.72	762053.87	N 39 21 4.29	W 108 6 24.95
	900.00	8.86	331.37	894.00	-3.01	74.68	-40.77	0.00	14305611.24	762046.49	N 39 21 4.42	W 108 6 25.05
	1000.00	8.86	331.37	992.81	-3.56	88.19	-48.14	0.00	14305624.76	762039.11	N 39 21 4.55	W 108 6 25.15
	1100.00	8.86	331.37	1091.62	-4.10	101.70	-55.52	0.00	14305638.28	762031.73	N 39 21 4.68	W 108 6 25.25
	1200.00	8.86	331.37	1190.43	-4.65	115.21	-62.89	0.00	14305651.80	762024.35	N 39 21 4.81	W 108 6 25.35
	1300.00	8.86	331.37	1289.23	-5.19	128.73	-70.27	0.00	14305665.31	762016.97	N 39 21 4.94	W 108 6 25.45
	1400.00	8.86	331.37	1388.04	-5.74	142.24	-77.65	0.00	14305678.83	762009.59	N 39 21 5.07	W 108 6 25.55
	1500.00	8.86	331.37	1486.85	-6.29	155.75	-85.02	0.00	14305692.35	762002.21	N 39 21 5.20	W 108 6 25.65
	1600.00	8.86	331.37	1585.66	-6.83	169.26	-92.40	0.00	14305705.87	761994.83	N 39 21 5.33	W 108 6 25.75
KOP, Drop 2 DLS	1700.00	8.86	331.37	1684.47	-7.38	182.77	-99.77	0.00	14305719.39	761987.46	N 39 21 5.47	W 108 6 25.85
	1775.44	8.86	331.37	1759.01	-7.79	192.96	-105.34	0.00	14305729.58	761981.89	N 39 21 5.58	W 108 6 25.92
	1800.00	8.86	331.37	1783.29	-7.92	196.19	-107.10	2.00	14305732.81	761980.13	N 39 21 5.60	W 108 6 25.95
	1900.00	6.36	331.37	1882.46	-8.37	207.44	-113.24	2.00	14305744.07	761973.98	N 39 21 5.70	W 108 6 26.03
	2000.00	4.36	331.37	1982.02	-8.70	215.65	-117.72	2.00	14305752.28	761969.50	N 39 21 5.78	W 108 6 26.09
	2100.00	2.36	331.37	2081.84	-8.91	220.80	-120.53	2.00	14305757.43	761966.69	N 39 21 5.83	W 108 6 26.13
Ohio Creek (Top Km)	2198.00	0.40	331.37	2179.81	-8.99	222.87	-121.66	2.00	14305759.51	761965.55	N 39 21 5.85	W 108 6 26.14
Hold	2200.00	0.36	331.37	2181.81	-8.99	222.88	-121.67	2.00	14305759.52	761965.55	N 39 21 5.85	W 108 6 26.14
	2218.19	0.00	331.37	2200.00	-0.00	222.94	-121.70	2.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	2300.00	0.00	331.37	2281.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	2400.00	0.00	331.37	2381.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	2500.00	0.00	331.37	2481.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	2600.00	0.00	331.37	2581.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	2700.00	0.00	331.37	2681.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
Williams Fork Fm	2763.00	0.00	331.37	2744.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	2800.00	0.00	331.37	2781.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	2900.00	0.00	331.37	2881.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	3000.00	0.00	331.37	2981.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	3100.00	0.00	331.37	3081.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	3200.00	0.00	331.37	3181.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	3300.00	0.00	331.37	3281.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	3400.00	0.00	331.37	3381.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	3500.00	0.00	331.37	3481.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	3600.00	0.00	331.37	3581.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	3700.00	0.00	331.37	3681.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
Top Gas	3707.00	0.00	331.37	3688.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	3800.00	0.00	331.37	3781.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	3900.00	0.00	331.37	3881.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	4000.00	0.00	331.37	3981.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	4100.00	0.00	331.37	4081.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	4200.00	0.00	331.37	4181.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	4300.00	0.00	331.37	4281.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	4400.00	0.00	331.37	4381.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	4500.00	0.00	331.37	4481.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	4600.00	0.00	331.37	4581.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
Coal Ridge (Patudal)	4605.00	0.00	331.37	4586.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	4700.00	0.00	331.37	4681.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	4800.00	0.00	331.37	4781.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	4900.00	0.00	331.37	4881.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
Rollins Ss (Iles Fm)	4953.00	0.00	331.37	4934.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	5000.00	0.00	331.37	4981.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	5100.00	0.00	331.37	5081.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	5200.00	0.00	331.37	5181.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
Cozzette	5208.00	0.00	331.37	5189.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	5300.00	0.00	331.37	5281.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
	5400.00	0.00	331.37	5381.81	-9.00	222.94	-121.70	0.00	14305759.57	761965.52	N 39 21 5.85	W 108 6 26.14
Corcoran	5467.00	0.00	331.37	5448.81	-9.0							

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (*/100ft)	Northing (ftUS)	Eastng (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6500.00	0.00	331.37	6481.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	6600.00	0.00	331.37	6581.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	6700.00	0.00	331.37	6681.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	6800.00	0.00	331.37	6781.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	6900.00	0.00	331.37	6881.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	7000.00	0.00	331.37	6981.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
Mancos B	7007.00	0.00	331.37	6988.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	7100.00	0.00	331.37	7081.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	7200.00	0.00	331.37	7181.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	7300.00	0.00	331.37	7281.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	7400.00	0.00	331.37	7381.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
Prairie Canyon	7464.00	0.00	331.37	7445.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	7500.00	0.00	331.37	7481.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	7600.00	0.00	331.37	7581.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	7700.00	0.00	331.37	7681.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	7800.00	0.00	331.37	7781.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	7900.00	0.00	331.37	7881.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	8000.00	0.00	331.37	7981.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
KOP, Build 8 DLS	8100.00	0.00	331.37	8081.81	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	8178.19	0.00	331.37	8180.00	-9.00	222.94	-121.70	0.00	14305759.57	781965.52	N 39 21 5.85	W 108 6 26.14
	8200.00	1.74	65.82	8161.80	-9.66	223.07	-121.39	8.00	14305759.71	781995.82	N 39 21 5.86	W 108 6 26.14
	8300.00	8.74	65.82	8281.22	-1.33	227.17	-112.27	8.00	14305763.89	781974.95	N 39 21 5.90	W 108 6 26.03
Niobrara	8317.00	11.12	65.82	8297.94	-4.40	228.43	-109.47	8.00	14305773.53	781997.76	N 39 21 5.91	W 108 6 23.99
	8400.00	17.74	65.82	8379.28	25.05	236.89	-90.61	8.00	14305775.53	781998.82	N 39 21 6.00	W 108 6 25.75
	8500.00	25.74	65.82	8471.09	62.03	252.08	-58.85	8.00	14305788.71	782030.40	N 39 21 6.16	W 108 6 25.33
	8600.00	33.74	65.82	8577.84	111.56	272.37	-11.62	8.00	14305809.02	782075.65	N 39 21 6.38	W 108 6 24.77
	8700.00	41.74	65.82	8636.85	172.67	297.42	44.17	8.00	14305834.09	782131.47	N 39 21 6.65	W 108 6 24.07
	8800.00	49.74	65.82	8706.58	244.17	326.74	109.46	8.00	14305883.42	782196.79	N 39 21 6.96	W 108 6 23.25
	8900.00	57.74	65.82	8765.67	324.87	359.75	182.96	8.00	14305896.45	782270.32	N 39 21 7.31	W 108 6 22.33
	9000.00	65.74	65.82	8812.97	412.81	395.80	263.25	8.00	14305932.52	782350.85	N 39 21 7.69	W 108 6 21.32
	9100.00	73.74	65.82	8847.57	506.26	434.20	348.76	8.00	14305970.84	782438.21	N 39 21 8.10	W 108 6 20.25
Landing Point	9200.00	81.74	65.82	8868.78	603.82	474.20	437.83	8.00	14306010.98	782525.32	N 39 21 8.53	W 108 6 19.14
	9282.14	88.32	65.82	8875.89	695.54	507.71	512.45	8.00	14306044.48	782599.97	N 39 21 8.88	W 108 6 18.20
	9300.00	88.32	65.82	8876.41	703.37	515.02	528.73	0.00	14306051.79	782616.26	N 39 21 8.96	W 108 6 18.00
	9400.00	88.32	65.82	8879.35	803.24	555.07	619.91	0.00	14306092.76	782707.49	N 39 21 9.40	W 108 6 16.85
	9500.00	88.32	65.82	8882.29	903.10	598.01	711.10	0.00	14306133.73	782798.72	N 39 21 9.83	W 108 6 15.71
	9600.00	88.32	65.82	8885.23	1002.97	637.66	802.28	0.00	14306174.69	782889.94	N 39 21 10.27	W 108 6 14.57
	9700.00	88.32	65.82	8888.17	1102.84	678.81	893.47	0.00	14306215.66	782981.17	N 39 21 10.70	W 108 6 13.43
	9800.00	88.32	65.82	8891.11	1202.71	719.76	984.65	0.00	14306256.63	783072.40	N 39 21 11.14	W 108 6 12.29
	9900.00	88.32	65.82	8894.04	1302.58	760.70	1075.84	0.00	14306297.60	783163.63	N 39 21 11.57	W 108 6 11.14
	10000.00	88.32	65.82	8896.99	1402.44	801.65	1167.02	0.00	14306338.56	783254.86	N 39 21 12.01	W 108 6 10.00
	10100.00	88.32	65.82	8899.92	1502.31	842.60	1258.21	0.00	14306379.53	783346.09	N 39 21 12.44	W 108 6 8.86
	10200.00	88.32	65.82	8902.86	1602.18	883.55	1349.39	0.00	14306420.50	783437.32	N 39 21 12.88	W 108 6 7.72
	10300.00	88.32	65.82	8905.80	1702.05	924.49	1440.58	0.00	14306461.47	783528.54	N 39 21 13.31	W 108 6 6.57
	10400.00	88.32	65.82	8908.74	1801.92	965.44	1531.76	0.00	14306502.43	783619.77	N 39 21 13.75	W 108 6 5.43
	10500.00	88.32	65.82	8911.68	1901.78	1006.39	1622.95	0.00	14306543.40	783711.00	N 39 21 14.19	W 108 6 4.29
	10600.00	88.32	65.82	8914.62	2001.65	1047.34	1714.13	0.00	14306584.37	783802.23	N 39 21 14.62	W 108 6 3.15
	10700.00	88.32	65.82	8917.55	2101.52	1088.29	1805.32	0.00	14306625.34	783893.46	N 39 21 15.06	W 108 6 2.01
	10800.00	88.32	65.82	8920.49	2201.39	1129.23	1896.50	0.00	14306666.30	783984.69	N 39 21 15.49	W 108 6 0.86
	10900.00	88.32	65.82	8923.43	2301.25	1170.18	1987.68	0.00	14306707.27	784075.92	N 39 21 15.93	W 108 6 5.97
	11000.00	88.32	65.82	8926.37	2401.12	1211.13	2078.87	0.00	14306748.24	784167.14	N 39 21 16.38	W 108 6 5.88
	11100.00	88.32	65.82	8929.31	2500.99	1252.08	2170.05	0.00	14306789.21	784258.37	N 39 21 16.80	W 108 6 5.74
	11200.00	88.32	65.82	8932.25	2600.86	1293.02	2261.24	0.00	14306830.17	784349.60	N 39 21 17.23	W 108 6 5.62
	11300.00	88.32	65.82	8935.19	2700.73	1333.97	2352.42	0.00	14306871.14	784440.83	N 39 21 17.67	W 108 6 5.51
	11400.00	88.32	65.82	8938.13	2800.59	1374.82	2443.61	0.00	14306912.11	784532.06	N 39 21 18.10	W 108 6 5.40
	11500.00	88.32	65.82	8941.06	2900.46	1415.67	2534.79	0.00	14306953.07	784623.29	N 39 21 18.54	W 108 6 5.28
	11600.00	88.32	65.82	8944.00	3000.33	1456.81	2625.98	0.00	14306994.04	784714.52	N 39 21 18.97	W 108 6 5.17
	11700.00	88.32	65.82	8946.94	3100.20	1497.76	2717.16	0.00	14307035.01	784805.74	N 39 21 19.41	W 108 6 5.05
	11800.00	88.32	65.82	8949.88	3200.07	1538.71	2808.35	0.00	14307075.98	784896.97	N 39 21 19.85	W 108 6 4.94
	11900.00	88.32	65.82	8952.82	3299.93	1579.66	2899.53	0.00	14307116.94	784988.20	N 39 21 20.28	W 108 6 4.83
	12000.00	88.32	65.82	8955.76	3399.80	1620.61	2990.72	0.00	14307157.91	785079.43	N 39 21 20.72	W 108 6 4.71
	12100.00	88.32	65.82	8958.70	3499.67	1661.55	3081.90	0.00	14307198.88	785170.66	N 39 21 21.15	W 108 6 4.60
	12200.00	88.32	65.82	8961.63	3599.54	1702.50	3173.09	0.00	14307239.85	785261.89	N 39 21 21.59	W 108 6 4.48
	12300.00	88.32	65.82	8964.57	3699.41	1743.45	3264.27	0.00	14307280.81	785353.12	N 39 21 22.02	W 108 6 4.37
	12400.00	88.32	65.82	8967.51	3799.27	1784.40	3355.46	0.00	14307321.78	785444.34	N 39 21 22.46	W 108 6 4.25
	12500.00	88.32	65.82	8970.45	3899.14	1825.34	3446.64	0.00	14307362.75	785535.57	N 39 21 22.89	W 108 6 4.14
	12600.00	88.32	65.82	8973.39	3999.01	1866.29	3537.82	0.00	14307403.72	785626.80	N 39 21 23.33	W 108 6 4.03
	12700.00	88.32	65.82	8976.33	4098.88	1907.24	3628.91	0.00	14307444.68	785718.03	N 39 21 23.76	W 108 6 3.91
	12800.00	88.32	65.82	8979.27	4198.75	1948.19	3720.19	0.00	14307485.65	785809.26	N 39 21 24.20	W 108 6 3.80
	12900.00	88.32	65.82	8982.21	4298.61	1989.13	3811.38	0.00	14307526.62	785900.49	N 39 21 24.63	W 108 6 3.68
	13000.00	88.32	65.82	8985.14	4398.48	2030.08	3902.56	0.00	14307567.58	785991.71	N 39 21 25.07	W 108 6 3.57
	13100.00	88.32	65.82	8988.08	4498.35	2071.03	3993.75	0.00	14307608.55	786082.94	N 39 21 25.51	W 108 6 3.45
	13200.00	88.32	65.82	8991.02	4598.22	2111.98	4084.93	0.00	14307649.52	786174.17	N 39 21 25.94	W 108 6 3.34
	13300.00	88.32	65.82	8993.96	4698.06	2152.92	4176.12	0.00	14307690.49	786265.40	N 39 21 26.38	W 108 6 3.23
	13400.00	88.32	65.82	8996.90	4797.95	2193.87	4267.30	0.00	14307731.45	786356.63	N 39 21 26.81	W 108 6 3.11
	13500.00	88.32	65.82	8999.84	4897.82	2234.82	4358.49	0.00	14307772.42	786447.86	N 39 21 2	