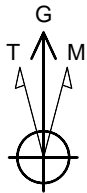


AUBURN OPERATING INC.

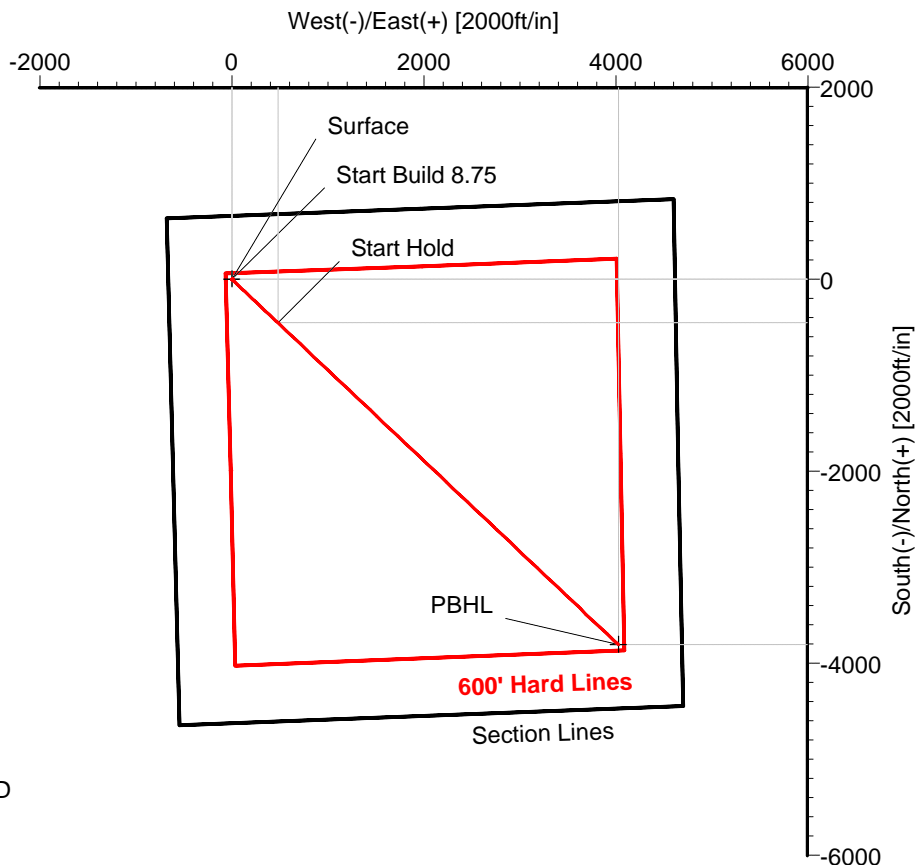
Field: Lincoln County, CO
Site: Safranek 04-1296H
Well: 04-1296H
Wellpath: Lateral
Plan: Plan #2

PRELIMINARY

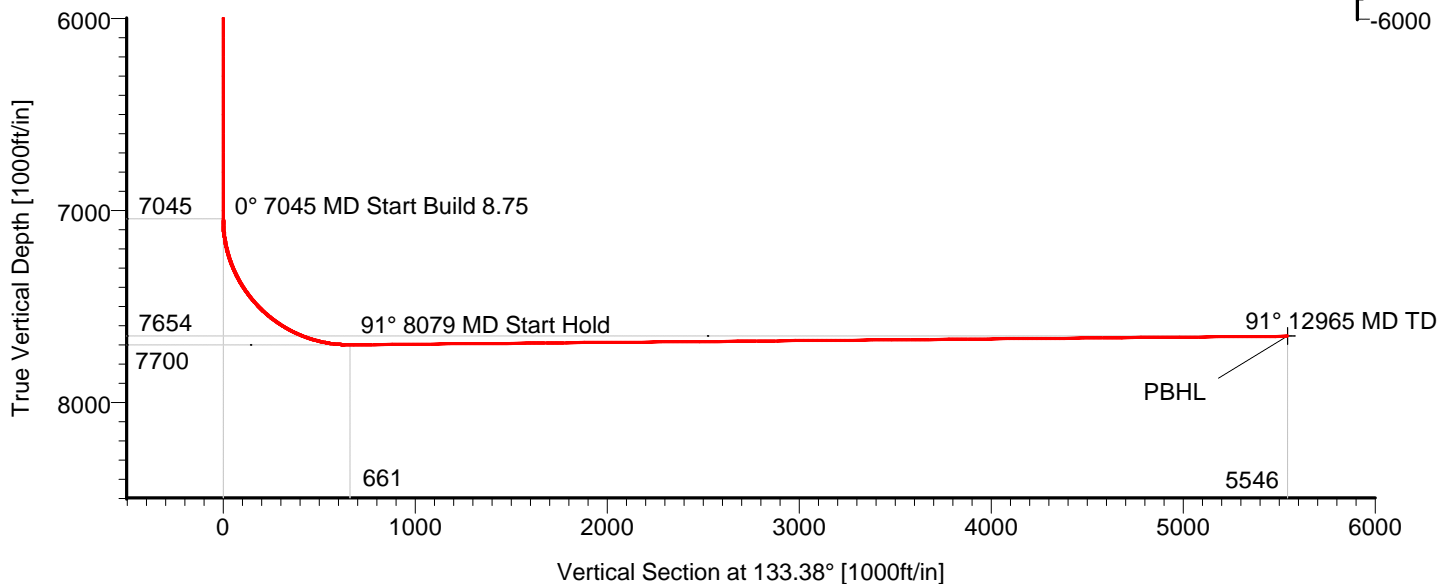


Azimuths to Grid North
True North: -1.19°
Magnetic North: 6.92°

Magnetic Field
Strength: 52666nT
Dip Angle: 66.32°
Date: 10/11/2011
Model: IGRF2010



Pilot Hole Will Be Drilled to ~8400' MD/TVD



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Surface	0.00	0.00	0.00	1534418.61	3532308.50	39°17'08.084N	103°37'09.246W	Point
PBHL	7654.50	-3809.06	4030.78	1530609.56	3536339.28	39°16'29.615N	103°36'19.001W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	133.38	0.00	0.00	0.00	0.00	0.00	0.00	
2	7044.72	0.00	133.38	7044.72	0.00	0.00	0.00	0.00	0.00	
3	8079.32	90.53	133.38	7699.50	-453.89	480.31	8.75	133.38	660.84	
4	12964.51	90.53	133.38	7654.50	-3809.06	4030.78	0.00	0.00	5545.82	PBHL

Archer

Planning Report

Company: AUBURN OPERATING INC.		Date: 10/12/2011	Time: 13:52:49	Page: 1
Field: Lincoln County, CO		Co-ordinate(NE) Reference: Well: 04-1296H, Grid North		
Site: Safranek 04-1296H		Vertical (TVD) Reference: Est. 5455'GL+12'KB 5467.0		
Well: 04-1296H		Section (VS) Reference: Well (0.00N,0.00E,133.38Azi)		
Wellpath: Lateral		Plan: Plan #2		

Field: Lincoln County, CO	
Map System: US State Plane Coordinate System 1983	Map Zone: Colorado, Central Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Safranek 04-1296H	
Site Position:	Northing: 1534418.61 ft
From: Geographic	Easting: 3532308.50 ft
Position Uncertainty: 0.00 ft	Latitude: 39 17 8.084 N
Ground Level: 5458.00 ft	Longitude: 103 37 9.246 W
	North Reference: Grid
	Grid Convergence: 1.19 deg

Well: 04-1296H		Slot Name:	
Well Position:	Northing: 1534418.61 ft	Latitude: 39 17 8.084 N	
Position Uncertainty: 0.00 ft	Easting : 3532308.50 ft	Longitude: 103 37 9.246 W	

Wellpath: Lateral		Drilled From: Surface	
Current Datum: Est. 5455'GL+12'KB	Height 5467.00 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 10/11/2011		Above System Datum: Mean Sea Level	
Field Strength: 52666 nT		Declination: 8.11 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 66.32 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	133.38

Plan: Plan #2	Date Composed: 10/12/2011
update from digital surveyor plat	Version: 1
Principal: No	Tied-to: From Surface

Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	133.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7044.72	0.00	133.38	7044.72	0.00	0.00	0.00	0.00	0.00	0.00	
8079.32	90.53	133.38	7699.50	-453.89	480.31	8.75	8.75	0.00	133.38	
12964.51	90.53	133.38	7654.50	-3809.06	4030.78	0.00	0.00	0.00	0.00	PBHL

Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7044.72	0.00	133.38	7044.72	0.00	0.00	0.00	0.00	0.00	0.00	
7050.00	0.46	133.38	7050.00	-0.01	0.02	0.02	8.75	8.75	0.00	
7100.00	4.84	133.38	7099.93	-1.60	1.69	2.33	8.75	8.75	0.00	
7150.00	9.21	133.38	7149.55	-5.80	6.14	8.45	8.75	8.75	0.00	
7200.00	13.59	133.38	7198.55	-12.59	13.32	18.33	8.75	8.75	0.00	
7250.00	17.96	133.38	7246.65	-21.92	23.20	31.91	8.75	8.75	0.00	
7300.00	22.34	133.38	7293.58	-33.75	35.71	49.13	8.75	8.75	0.00	
7350.00	26.71	133.38	7339.06	-48.00	50.79	69.88	8.75	8.75	0.00	
7400.00	31.09	133.38	7382.82	-64.59	68.35	94.04	8.75	8.75	0.00	
7450.00	35.46	133.38	7424.62	-83.43	88.28	121.47	8.75	8.75	0.00	
7500.00	39.84	133.38	7464.19	-104.40	110.48	152.00	8.75	8.75	0.00	
7550.00	44.21	133.38	7501.33	-127.38	134.80	185.47	8.75	8.75	0.00	
7600.00	48.59	133.38	7535.80	-152.25	161.11	221.66	8.75	8.75	0.00	
7650.00	52.96	133.38	7567.41	-178.84	189.25	260.39	8.75	8.75	0.00	
7700.00	57.34	133.38	7595.98	-207.02	219.07	301.41	8.75	8.75	0.00	
7750.00	61.71	133.38	7621.33	-236.61	250.38	344.49	8.75	8.75	0.00	
7800.00	66.09	133.38	7643.32	-267.44	283.01	389.38	8.75	8.75	0.00	

Archer

Planning Report

Company: AUBURN OPERATING INC.
Field: Lincoln County, CO
Site: Safranek 04-1296H
Well: 04-1296H
Wellpath: Lateral

Date: 10/12/2011
Co-ordinate(NE) Reference: Well: 04-1296H, Grid North
Vertical (TVD) Reference: Est. 5455'GL+12'KB 5467.0
Section (VS) Reference: Well (0.00N,0.00E,133.38Azi)
Plan: Plan #2

Page: 2

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7850.00	70.46	133.38	7661.82	-299.34	316.76	435.82	8.75	8.75	0.00	
7900.00	74.84	133.38	7676.73	-332.11	351.44	483.53	8.75	8.75	0.00	
7950.00	79.21	133.38	7687.96	-365.56	386.84	532.24	8.75	8.75	0.00	
8000.00	83.59	133.38	7695.43	-399.51	422.77	581.67	8.75	8.75	0.00	
8050.00	87.96	133.38	7699.11	-433.75	459.00	631.52	8.75	8.75	0.00	
8079.32	90.53	133.38	7699.50	-453.89	480.31	660.84	8.75	8.75	0.00	
8100.00	90.53	133.38	7699.31	-468.09	495.34	681.52	0.00	0.00	0.00	
8200.00	90.53	133.38	7698.39	-536.77	568.01	781.51	0.00	0.00	0.00	
8300.00	90.53	133.38	7697.47	-605.45	640.69	881.51	0.00	0.00	0.00	
8400.00	90.53	133.38	7696.55	-674.13	713.37	981.50	0.00	0.00	0.00	
8500.00	90.53	133.38	7695.63	-742.81	786.05	1081.50	0.00	0.00	0.00	
8600.00	90.53	133.38	7694.70	-811.49	858.73	1181.50	0.00	0.00	0.00	
8700.00	90.53	133.38	7693.78	-880.17	931.41	1281.49	0.00	0.00	0.00	
8800.00	90.53	133.38	7692.86	-948.85	1004.08	1381.49	0.00	0.00	0.00	
8900.00	90.53	133.38	7691.94	-1017.53	1076.76	1481.48	0.00	0.00	0.00	
9000.00	90.53	133.38	7691.02	-1086.21	1149.44	1581.48	0.00	0.00	0.00	
9100.00	90.53	133.38	7690.10	-1154.89	1222.12	1681.47	0.00	0.00	0.00	
9200.00	90.53	133.38	7689.18	-1223.57	1294.80	1781.47	0.00	0.00	0.00	
9300.00	90.53	133.38	7688.26	-1292.25	1367.48	1881.47	0.00	0.00	0.00	
9400.00	90.53	133.38	7687.34	-1360.93	1440.15	1981.46	0.00	0.00	0.00	
9500.00	90.53	133.38	7686.41	-1429.62	1512.83	2081.46	0.00	0.00	0.00	
9600.00	90.53	133.38	7685.49	-1498.30	1585.51	2181.45	0.00	0.00	0.00	
9700.00	90.53	133.38	7684.57	-1566.98	1658.19	2281.45	0.00	0.00	0.00	
9800.00	90.53	133.38	7683.65	-1635.66	1730.87	2381.44	0.00	0.00	0.00	
9900.00	90.53	133.38	7682.73	-1704.34	1803.55	2481.44	0.00	0.00	0.00	
10000.00	90.53	133.38	7681.81	-1773.02	1876.23	2581.44	0.00	0.00	0.00	
10100.00	90.53	133.38	7680.89	-1841.70	1948.90	2681.43	0.00	0.00	0.00	
10200.00	90.53	133.38	7679.97	-1910.38	2021.58	2781.43	0.00	0.00	0.00	
10300.00	90.53	133.38	7679.04	-1979.06	2094.26	2881.42	0.00	0.00	0.00	
10400.00	90.53	133.38	7678.12	-2047.74	2166.94	2981.42	0.00	0.00	0.00	
10500.00	90.53	133.38	7677.20	-2116.42	2239.62	3081.41	0.00	0.00	0.00	
10600.00	90.53	133.38	7676.28	-2185.10	2312.30	3181.41	0.00	0.00	0.00	
10700.00	90.53	133.38	7675.36	-2253.78	2384.97	3281.41	0.00	0.00	0.00	
10800.00	90.53	133.38	7674.44	-2322.46	2457.65	3381.40	0.00	0.00	0.00	
10900.00	90.53	133.38	7673.52	-2391.14	2530.33	3481.40	0.00	0.00	0.00	
11000.00	90.53	133.38	7672.60	-2459.82	2603.01	3581.39	0.00	0.00	0.00	
11100.00	90.53	133.38	7671.68	-2528.50	2675.69	3681.39	0.00	0.00	0.00	
11200.00	90.53	133.38	7670.75	-2597.18	2748.37	3781.39	0.00	0.00	0.00	
11300.00	90.53	133.38	7669.83	-2665.86	2821.04	3881.38	0.00	0.00	0.00	
11400.00	90.53	133.38	7668.91	-2734.54	2893.72	3981.38	0.00	0.00	0.00	
11500.00	90.53	133.38	7667.99	-2803.22	2966.40	4081.37	0.00	0.00	0.00	
11600.00	90.53	133.38	7667.07	-2871.91	3039.08	4181.37	0.00	0.00	0.00	
11700.00	90.53	133.38	7666.15	-2940.59	3111.76	4281.36	0.00	0.00	0.00	
11800.00	90.53	133.38	7665.23	-3009.27	3184.44	4381.36	0.00	0.00	0.00	
11900.00	90.53	133.38	7664.31	-3077.95	3257.11	4481.36	0.00	0.00	0.00	
12000.00	90.53	133.38	7663.38	-3146.63	3329.79	4581.35	0.00	0.00	0.00	
12100.00	90.53	133.38	7662.46	-3215.31	3402.47	4681.35	0.00	0.00	0.00	
12200.00	90.53	133.38	7661.54	-3283.99	3475.15	4781.34	0.00	0.00	0.00	
12300.00	90.53	133.38	7660.62	-3352.67	3547.83	4881.34	0.00	0.00	0.00	
12400.00	90.53	133.38	7659.70	-3421.35	3620.51	4981.33	0.00	0.00	0.00	
12500.00	90.53	133.38	7658.78	-3490.03	3693.18	5081.33	0.00	0.00	0.00	
12600.00	90.53	133.38	7657.86	-3558.71	3765.86	5181.33	0.00	0.00	0.00	
12700.00	90.53	133.38	7656.94	-3627.39	3838.54	5281.32	0.00	0.00	0.00	

Archer

Planning Report

Company: AUBURN OPERATING INC.
Field: Lincoln County, CO
Site: Safranek 04-1296H
Well: 04-1296H
Wellpath: Lateral

Date: 10/12/2011
Co-ordinate(NE) Reference: Well: 04-1296H, Grid North
Vertical (TVD) Reference: Est. 5455'GL+12'KB 5467.0
Section (VS) Reference: Well (0.00N,0.00E,133.38Azi)
Plan: Plan #2

Page: 3

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
12800.00	90.53	133.38	7656.02	-3696.07	3911.22	5381.32	0.00	0.00	0.00	
12900.00	90.53	133.38	7655.09	-3764.75	3983.90	5481.31	0.00	0.00	0.00	
12964.51	90.53	133.38	7654.50	-3809.06	4030.78	5545.82	0.00	0.00	0.00	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<--- Longitude --->		
Surface			0.00	0.00	0.00	1534418.61	3532308.50	39	17	8.084 N	103	37	9.246 W
PBHL			7654.50	-3809.06	4030.78	1530609.56	3536339.28	39	16	29.615 N	103	36	19.001 W