



## **Noble Energy Inc.**

**Weld County, CO**

**Sec 31, T5N, R66W**

**Honey Badger J31-64-1HN**

**Wellbore #1**

**Design: Wellbore #1** FINAL

## **DDC Survey Report**

**31 January, 2014**



<b>Company:</b>	Noble Energy Inc.	<b>Local Co-ordinate Reference:</b>	Well Honey Badger J31-64-1HN
<b>Project:</b>	Weld County, CO	<b>TVD Reference:</b>	WELL @ 4893.0usft (H&P #326)
<b>Site:</b>	Sec 31, T5N, R66W	<b>MD Reference:</b>	WELL @ 4893.0usft (H&P #326)
<b>Well:</b>	Honey Badger J31-64-1HN	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

<b>Project</b>	Weld County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site		Sec 31, T5N, R66W			
Site Position:		Northing:	1,372,777.90 usft	Latitude:	40° 21' 17.064 N
From:	Lat/Long	Easting:	3,186,735.89 usft	Longitude:	104° 49' 47.856 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well		Honey Badger J31-64-1HN				
Well Position	+N/-S	0.0 usft	Northing:	1,372,777.90 usft	Latitude:	40° 21' 17.064 N
	+E/-W	0.0 usft	Easting:	3,186,735.89 usft	Longitude:	104° 49' 47.856 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	4,863.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	1/16/2014	8.55	66.91	52,827

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	96.65	

<b>Survey Program</b>	<b>Date</b>	1/31/2014			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
369.0	671.0	Surface (Wellbore #1)	Flexi-Shot	VES Flexi-Shot Tool	
741.0	7,677.0	MWD Surveys-Vert/Build (Wellbore #1)	MWD default	MWD - Standard	
7,766.0	11,733.0	MWD Surveys- Lateral (Wellbore #1)	MWD default	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
369.0	0.20	85.50	369.0	0.1	0.6	0.6	0.05	0.05	0.00	
<b>TIE IN @ 671' MD / 671' TVD End of Surface Hole / Begin INT Hole</b>										
671.0	0.60	161.10	671.0	-1.4	1.7	1.8	0.19	0.13	25.03	
741.0	0.40	54.90	741.0	-1.6	2.0	2.2	1.16	-0.29	-151.71	
834.0	0.50	6.30	834.0	-1.0	2.3	2.4	0.41	0.11	-52.26	
927.0	0.50	2.10	927.0	-0.2	2.4	2.4	0.04	0.00	-4.52	
1,020.0	0.60	346.50	1,020.0	0.7	2.3	2.2	0.19	0.11	-16.77	
1,112.0	0.70	345.30	1,112.0	1.7	2.0	1.8	0.11	0.11	-1.30	

<b>Company:</b>	Noble Energy Inc.	<b>Local Co-ordinate Reference:</b>	Well Honey Badger J31-64-1HN
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<b>Site:</b>	Sec 31, T5N, R66W	<b>MD Reference:</b>	WELL @ 4893.0usft (H&P #326)
<b>Well:</b>	Honey Badger J31-64-1HN	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,205.0	1.10	335.10	1,205.0	3.0	1.5	1.1	0.46	0.43	-10.97	
1,297.0	1.10	337.00	1,296.9	4.7	0.8	0.2	0.04	0.00	2.07	
1,390.0	1.40	334.50	1,389.9	6.5	-0.1	-0.8	0.33	0.32	-2.69	
1,483.0	1.50	333.10	1,482.9	8.6	-1.1	-2.1	0.11	0.11	-1.51	
1,575.0	1.50	321.90	1,574.9	10.6	-2.4	-3.6	0.32	0.00	-12.17	
1,668.0	1.50	309.80	1,667.8	12.4	-4.1	-5.5	0.34	0.00	-13.01	
1,762.0	1.90	298.10	1,761.8	13.9	-6.4	-8.0	0.56	0.43	-12.45	
1,854.0	3.50	256.10	1,853.7	13.9	-10.5	-12.0	2.66	1.74	-45.65	
1,947.0	5.40	242.60	1,946.4	11.2	-17.1	-18.3	2.32	2.04	-14.52	
2,038.0	6.60	231.00	2,036.9	6.0	-25.0	-25.5	1.87	1.32	-12.75	
2,130.0	8.30	224.90	2,128.1	-2.1	-33.8	-33.3	2.04	1.85	-6.63	
2,225.0	9.70	218.50	2,222.0	-13.2	-43.6	-41.8	1.81	1.47	-6.74	
2,319.0	11.30	220.40	2,314.4	-26.4	-54.5	-51.1	1.74	1.70	2.02	
2,414.0	12.20	221.50	2,407.4	-41.0	-67.2	-62.0	0.98	0.95	1.16	
2,509.0	13.40	220.60	2,500.0	-56.9	-81.0	-73.9	1.28	1.26	-0.95	
2,603.0	14.80	216.20	2,591.2	-74.8	-95.2	-85.9	1.87	1.49	-4.68	
CROSSED HARDLINE @ 2698' MD / 2682.4' TVD										
2,698.0	17.60	215.50	2,682.4	-96.3	-110.7	-98.8	2.95	2.95	-0.74	
2,792.0	19.30	215.40	2,771.6	-120.6	-127.9	-113.1	1.81	1.81	-0.11	
2,887.0	20.00	214.30	2,861.1	-146.8	-146.2	-128.2	0.83	0.74	-1.16	
2,982.0	15.60	219.60	2,951.5	-170.0	-163.5	-142.7	4.93	-4.63	5.58	
3,076.0	14.60	221.90	3,042.2	-188.6	-179.5	-156.4	1.24	-1.06	2.45	
3,171.0	14.30	225.90	3,134.2	-205.7	-195.9	-170.7	1.10	-0.32	4.21	
3,265.0	13.90	228.70	3,225.4	-221.2	-212.7	-185.7	0.84	-0.43	2.98	
3,360.0	14.30	223.60	3,317.6	-237.2	-229.4	-200.3	1.37	0.42	-5.37	
3,455.0	13.70	225.20	3,409.7	-253.7	-245.4	-214.4	0.75	-0.63	1.68	
3,550.0	14.60	229.90	3,501.8	-269.3	-262.6	-229.6	1.54	0.95	4.95	
3,644.0	14.90	232.60	3,592.8	-284.3	-281.2	-246.4	0.80	0.32	2.87	
3,739.0	14.60	224.00	3,684.6	-300.3	-299.3	-262.5	2.32	-0.32	-9.05	
3,833.0	15.60	224.00	3,775.4	-317.9	-316.3	-277.3	1.06	1.06	0.00	
3,928.0	16.70	223.60	3,866.6	-337.0	-334.6	-293.3	1.16	1.16	-0.42	
4,023.0	17.90	222.40	3,957.3	-357.7	-353.8	-310.0	1.32	1.26	-1.26	
4,117.0	16.60	224.30	4,047.1	-377.9	-372.9	-326.7	1.51	-1.38	2.02	
4,212.0	13.70	222.90	4,138.8	-395.9	-390.1	-341.6	3.08	-3.05	-1.47	
4,306.0	12.00	226.40	4,230.4	-410.8	-404.7	-354.4	1.99	-1.81	3.72	
4,401.0	12.90	229.10	4,323.2	-424.5	-419.9	-367.9	1.13	0.95	2.84	
4,496.0	13.10	227.10	4,415.8	-438.8	-435.8	-382.1	0.52	0.21	-2.11	
4,590.0	13.60	225.20	4,507.2	-453.9	-451.5	-395.9	0.71	0.53	-2.02	
4,684.0	13.40	227.80	4,598.6	-469.0	-467.4	-409.9	0.68	-0.21	2.77	
4,779.0	10.10	233.10	4,691.6	-481.4	-482.2	-423.2	3.65	-3.47	5.58	
4,874.0	8.80	236.10	4,785.3	-490.4	-494.9	-434.8	1.46	-1.37	3.16	
4,968.0	7.60	229.60	4,878.4	-498.5	-505.6	-444.5	1.61	-1.28	-6.91	
5,063.0	6.10	218.50	4,972.7	-506.5	-513.5	-451.4	2.10	-1.58	-11.68	

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Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,158.0	4.00	222.90	5,067.3	-512.9	-518.9	-456.0	2.25	-2.21	4.63
5,253.0	1.60	244.00	5,162.2	-515.9	-522.4	-459.1	2.71	-2.53	22.21
5,348.0	0.30	129.60	5,257.2	-516.6	-523.4	-460.0	1.84	-1.37	-120.42
5,442.0	0.30	122.90	5,351.2	-516.9	-523.0	-459.6	0.04	0.00	-7.13
5,537.0	0.60	196.00	5,446.2	-517.5	-522.9	-459.4	0.62	0.32	76.95
5,632.0	0.20	166.80	5,541.2	-518.2	-523.0	-459.5	0.46	-0.42	-30.74
5,727.0	0.60	208.90	5,636.2	-518.7	-523.2	-459.6	0.50	0.42	44.32
5,821.0	1.60	202.70	5,730.2	-520.4	-523.9	-460.1	1.07	1.06	-6.60
5,916.0	1.90	207.40	5,825.1	-523.0	-525.2	-461.1	0.35	0.32	4.95
6,010.0	2.10	212.90	5,919.1	-525.8	-526.8	-462.4	0.29	0.21	5.85
6,105.0	0.70	195.80	6,014.0	-527.9	-527.9	-463.2	1.52	-1.47	-18.00
6,200.0	1.00	196.20	6,109.0	-529.2	-528.3	-463.5	0.32	0.32	0.42
6,294.0	0.60	200.90	6,203.0	-530.5	-528.7	-463.7	0.43	-0.43	5.00
6,389.0	0.80	182.00	6,298.0	-531.6	-528.9	-463.8	0.32	0.21	-19.89
6,483.0	0.80	162.60	6,392.0	-532.9	-528.7	-463.5	0.29	0.00	-20.64
6,577.0	0.80	166.10	6,486.0	-534.1	-528.4	-463.0	0.05	0.00	3.72
6,672.0	1.70	86.50	6,581.0	-534.7	-526.8	-461.4	1.83	0.95	-83.79
6,767.0	14.30	82.50	6,674.9	-533.1	-513.7	-448.5	13.27	13.26	-4.21
6,862.0	28.10	80.50	6,763.2	-527.8	-479.9	-415.5	14.54	14.53	-2.11
6,956.0	36.90	80.90	6,842.4	-519.7	-430.1	-367.0	9.36	9.36	0.43
7,051.0	37.90	87.00	6,917.9	-513.6	-372.8	-310.8	4.04	1.05	6.42
7,145.0	37.70	90.40	6,992.2	-512.3	-315.2	-253.7	2.23	-0.21	3.62
7,240.0	47.60	88.40	7,062.0	-511.6	-250.9	-190.0	10.52	10.42	-2.11
7,334.0	58.20	91.30	7,118.6	-511.5	-176.1	-115.6	11.54	11.28	3.09
<b>CROSSED HARDLINE @ 7417.7' MD / 7162.3' TVD</b>									
7,417.7	58.82	90.51	7,162.3	-512.6	-104.7	-44.6	1.09	0.74	-0.95
7,429.0	58.90	90.40	7,168.2	-512.7	-95.0	-35.0	1.09	0.74	-0.94
7,524.0	70.80	85.30	7,208.5	-509.3	-9.3	49.8	13.43	12.53	-5.37
7,618.0	75.20	88.10	7,236.0	-504.1	80.4	138.3	5.48	4.68	2.98
7,638.0	75.90	89.30	7,241.0	-503.7	99.8	157.4	6.78	3.50	6.00
7,677.0	77.70	89.80	7,249.9	-503.4	137.8	195.1	4.78	4.62	1.28
<b>7" CASING @ 7722' MD / 7257.8' TVD End of INT Hole / Begin Lateral</b>									
7,722.0	82.05	89.39	7,257.8	-503.1	182.0	239.1	9.71	9.66	-0.91
7,766.0	86.30	89.00	7,262.3	-502.5	225.8	282.5	9.71	9.67	-0.89
7,860.0	88.20	90.00	7,266.8	-501.7	319.7	375.6	2.28	2.02	1.06
7,955.0	89.60	88.80	7,268.6	-500.7	414.6	469.8	1.94	1.47	-1.26
8,049.0	91.00	90.90	7,268.1	-500.4	508.6	563.2	2.68	1.49	2.23
8,144.0	91.00	90.70	7,266.4	-501.7	603.6	657.7	0.21	0.00	-0.21
8,239.0	90.70	88.80	7,265.0	-501.3	698.6	751.9	2.02	-0.32	-2.00
8,333.0	89.90	87.90	7,264.5	-498.6	792.6	845.0	1.28	-0.85	-0.96
8,427.0	91.50	88.40	7,263.4	-495.6	886.5	937.9	1.78	1.70	0.53
8,522.0	90.80	89.70	7,261.5	-494.0	981.5	1,032.1	1.55	-0.74	1.37
8,617.0	90.30	89.20	7,260.6	-493.1	1,076.4	1,126.3	0.74	-0.53	-0.53
8,711.0	89.70	89.00	7,260.6	-491.6	1,170.4	1,219.5	0.67	-0.64	-0.21

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8,806.0	91.00	90.60	7,260.0	-491.3	1,265.4	1,313.8	2.17	1.37	1.68	
8,901.0	90.60	90.40	7,258.7	-492.1	1,360.4	1,408.3	0.47	-0.42	-0.21	
8,995.0	90.60	90.40	7,257.7	-492.8	1,454.4	1,501.7	0.00	0.00	0.00	
9,090.0	90.60	90.60	7,256.7	-493.6	1,549.4	1,596.1	0.21	0.00	0.21	
9,185.0	90.20	90.70	7,256.0	-494.7	1,644.4	1,690.6	0.43	-0.42	0.11	
9,279.0	89.70	90.60	7,256.1	-495.8	1,738.4	1,784.1	0.54	-0.53	-0.11	
9,373.0	90.70	89.50	7,255.8	-495.8	1,832.4	1,877.5	1.58	1.06	-1.17	
9,468.0	90.00	89.30	7,255.2	-494.8	1,927.4	1,971.7	0.77	-0.74	-0.21	
9,562.0	89.60	88.60	7,255.5	-493.1	2,021.4	2,064.9	0.86	-0.43	-0.74	
9,657.0	91.40	90.60	7,254.7	-492.5	2,116.3	2,159.1	2.83	1.89	2.11	
9,752.0	91.90	89.30	7,252.0	-492.4	2,211.3	2,253.4	1.47	0.53	-1.37	
9,846.0	89.50	91.30	7,250.8	-492.9	2,305.3	2,346.8	3.32	-2.55	2.13	
9,941.0	89.00	91.10	7,252.1	-494.9	2,400.2	2,441.4	0.57	-0.53	-0.21	
10,036.0	89.00	90.20	7,253.7	-495.9	2,495.2	2,535.9	0.95	0.00	-0.95	
10,130.0	88.50	89.70	7,255.8	-495.8	2,589.2	2,629.2	0.75	-0.53	-0.53	
10,225.0	90.20	89.30	7,256.8	-495.0	2,684.2	2,723.5	1.84	1.79	-0.42	
10,319.0	90.10	88.40	7,256.6	-493.1	2,778.2	2,816.6	0.96	-0.11	-0.96	
10,414.0	90.00	88.30	7,256.5	-490.4	2,873.1	2,910.6	0.15	-0.11	-0.11	
10,508.0	91.00	90.00	7,255.7	-489.0	2,967.1	3,003.8	2.10	1.06	1.81	
10,603.0	91.00	90.40	7,254.0	-489.3	3,062.1	3,098.2	0.42	0.00	0.42	
10,697.0	90.30	89.80	7,253.0	-489.5	3,156.1	3,191.5	0.98	-0.74	-0.64	
10,792.0	89.70	89.30	7,253.0	-488.8	3,251.1	3,285.8	0.82	-0.63	-0.53	
10,886.0	91.00	91.30	7,252.4	-489.2	3,345.1	3,379.2	2.54	1.38	2.13	
10,981.0	90.70	90.40	7,251.0	-490.7	3,440.1	3,473.7	1.00	-0.32	-0.95	
11,075.0	90.10	90.20	7,250.3	-491.1	3,534.0	3,567.1	0.67	-0.64	-0.21	
11,169.0	89.30	89.50	7,250.8	-490.9	3,628.0	3,660.5	1.13	-0.85	-0.74	
11,264.0	88.70	88.80	7,252.5	-489.5	3,723.0	3,754.7	0.97	-0.63	-0.74	
11,358.0	90.80	89.70	7,252.9	-488.3	3,817.0	3,847.9	2.43	2.23	0.96	
11,453.0	90.30	91.10	7,252.0	-488.9	3,912.0	3,942.3	1.56	-0.53	1.47	
11,547.0	89.90	90.70	7,251.8	-490.4	4,006.0	4,035.8	0.60	-0.43	-0.43	
11,641.0	89.40	90.40	7,252.4	-491.3	4,100.0	4,129.3	0.62	-0.53	-0.32	
11,671.0	89.30	90.40	7,252.7	-491.5	4,130.0	4,159.1	0.33	-0.33	0.00	
11,733.0	89.30	90.40	7,253.5	-491.9	4,192.0	4,220.7	0.00	0.00	0.00	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
671.0	671.0	-1.4	1.7	TIE IN @ 671' MD / 671' TVD End of Surface Hole / Begin INT Hole	
2,698.0	2,682.4	-96.3	-110.7	CROSSED HARDLINE @ 2698' MD / 2682.4' TVD	
7,417.7	7,162.3	-512.6	-104.7	CROSSED HARDLINE @ 7417.7' MD / 7162.3' TVD	
7,722.0	7,257.8	-503.1	182.0	7" CASING @ 7722' MD / 7257.8' TVD End of INT Hole / Begin Lateral	
11,733.0	7,253.5	-491.9	4,192.0	TD @ 11733' MD / 7253.5' TVD	

<b>Company:</b>	Noble Energy Inc.	<b>Local Co-ordinate Reference:</b>	Well Honey Badger J31-64-1HN
<b>Project:</b>	Weld County, CO	<b>TVD Reference:</b>	WELL @ 4893.0usft (H&P #326)
<b>Site:</b>	Sec 31, T5N, R66W	<b>MD Reference:</b>	WELL @ 4893.0usft (H&P #326)
<b>Well:</b>	Honey Badger J31-64-1HN	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

Checked By: _____	Approved By: _____	Date: _____
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## Survey Certification Sheet

Noble Energy Inc.  
Company

RM-140055  
Job Number

2/3/14  
Date

Sec31, T5N, R66W  
Lease

Honey Badger J31-64-1HN  
Well Name

Weld, CO  
County & State

API: 05-123-35979

Surveyed from a depth of: 671 feet to 11733 feet MD

Type of Survey: MWD

Directional Supervisor/Surveyor: Chris Abbott

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by **The Directional Drilling Company (DDC)**. This report represents a true and correct Directional survey of this well based on the original data obtained at the well site. Wellbore Coordinates are calculated using minimum curvature.

Digitally signed by Larry Wright  
DN: cn=Larry Wright, o=The  
Directional Drilling Company,  
ou=GM of Guidance Services,  
email=larryw@directionaldrillers.  
com, c=US  
Date: 2014.02.03 16:34:02 -06'00'

Larry Wright  
MWD General Manager



Company Name: Noble Energy Inc.  
Honey Badger J31-64-1HN  
Weld County, CO  
Rig: H&P #326  
Created By: TIFFANI MIZELL  
Date: 1/29/2014

Honey Badger J31-64-1HN  
Weld County, CO  
**Q140005 & RM-140055**  
Design #1

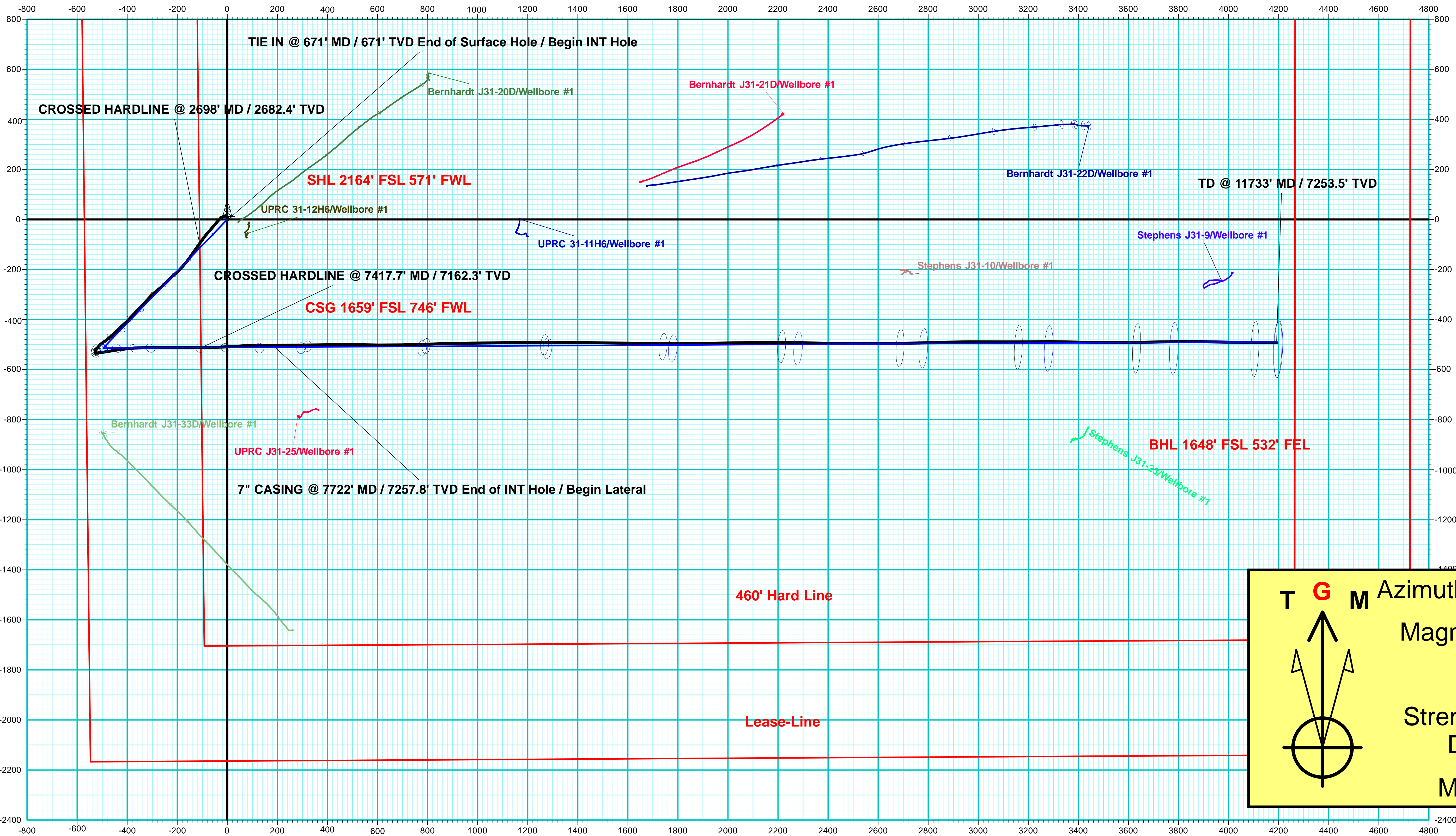
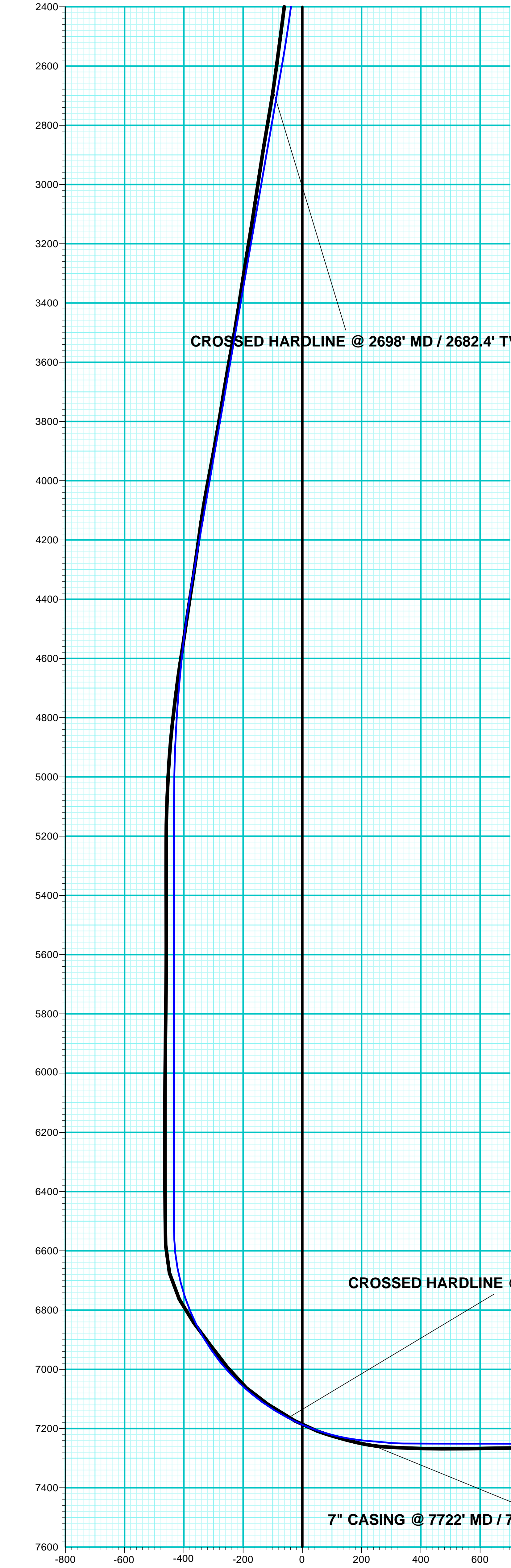
PROJECT DETAILS: Weld County, CO  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone  
System Datum: Mean Sea Level

WELL DETAILS: Honey Badger J31-64-1HN  
Ground Level: 4863.0  
+N/-S +E/-W Northing Easting Latitude Longitude  
0.0 0.0 1372777.90 3186735.89 40° 21' 17.064 N 104° 49' 47.856 W



ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure
671.0	0.60	161.10	671.0	-1.4	1.7	1.8	2.8
2698.0	17.60	215.50	2682.4	-96.3	-110.7	-98.8	176.9
7417.7	58.82	90.51	7162.3	-512.6	-104.7	-44.6	1213.9
7722.0	82.05	89.39	7257.8	-503.1	182.0	239.1	1501.1
11733.0	89.30	90.40	7253.5	-491.9	4192.0	4220.8	5511.2
Annotation							
TIE IN @ 671' MD / 671' TVD End of Surface Hole / Begin INT Hole							
CROSSED HARDLINE @ 2698' MD / 2682.4' TVD							
CROSSED HARDLINE @ 7417.7' MD / 7162.3' TVD							
7" CASING @ 7722' MD / 7257.8' TVD End of INT Hole / Begin Lateral							
TD @ 11733' MD / 7253.5' TVD							

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL Honey Badger J31-64-1HN	7257.4	-488.9	4192.7	1372288.98	3190928.60	40° 21' 11.916 N	104° 48' 53.748 W
- plan hits target center							



T

G

M

Azimuths to Grid North

Magnetic North: 8.11°

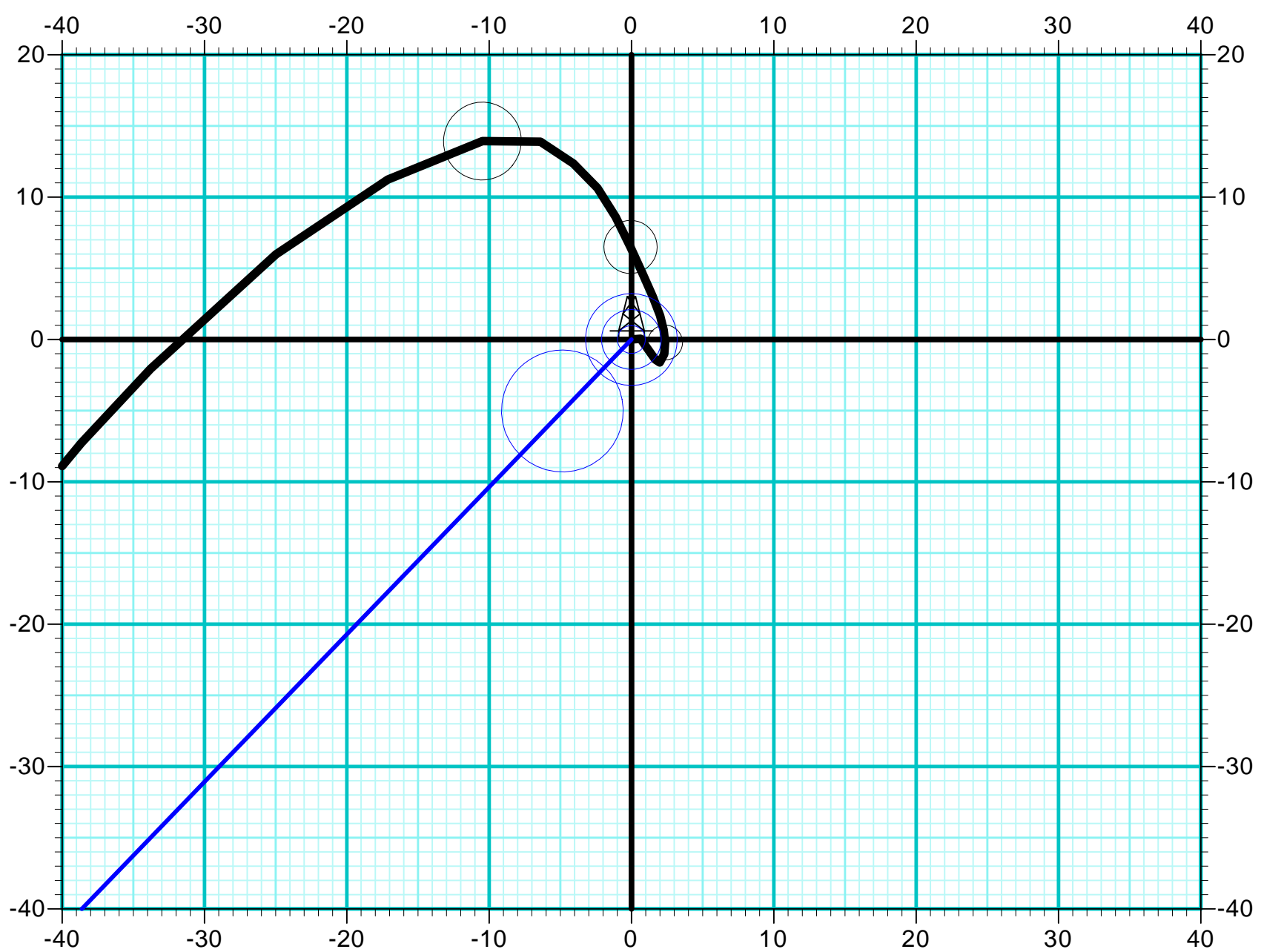
Magnetic Field

Strength: 52827.5snT

Dip Angle: 66.91°

Date: 1/16/2014

Model: IGRF2010



Vertical Section at 96.65° (200 usft/in)