

# Burlington Resources

Adams County, Colorado

Sec. 19-T3S-R64W

Venturers 41-4H

Plan B

Plan: Rev B0

## Sperry Drilling Services

### Proposal Report

25 February, 2014

Well Coordinates: 1,710,487.48 N, 3,257,314.42 E (39° 46' 49.93" N, 104° 35' 04.09" W)

Ground Level: 5,445.00 usft

Local Coordinate Origin:

Viewing Datum:

TVDs to System:

North Reference:

Unit System:

Geodetic Scale Factor Applied

Version: 5000.1 Build: 70

Centered on Well Venturers 41-4H

KB 24 ft @ 5469.00usft (H&P 280)

N

True

API - US Survey Feet - Custom

**HALLIBURTON**

Project: Adams County, Colorado  
Site: Sec. 19-T3S-R64W  
Well: Venturers 41-4H  
Wellbore: Plan B  
Plan: Rev B0

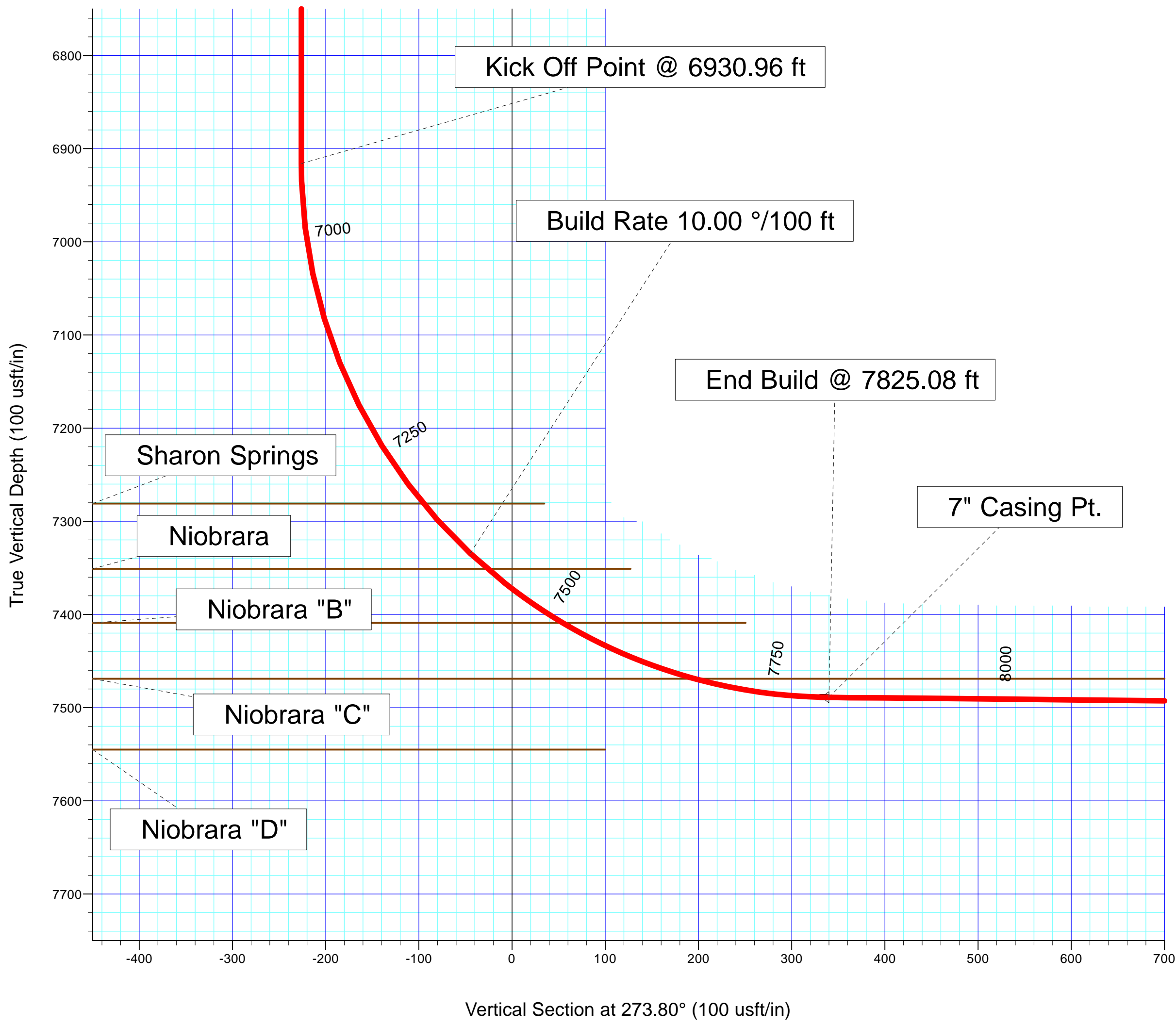
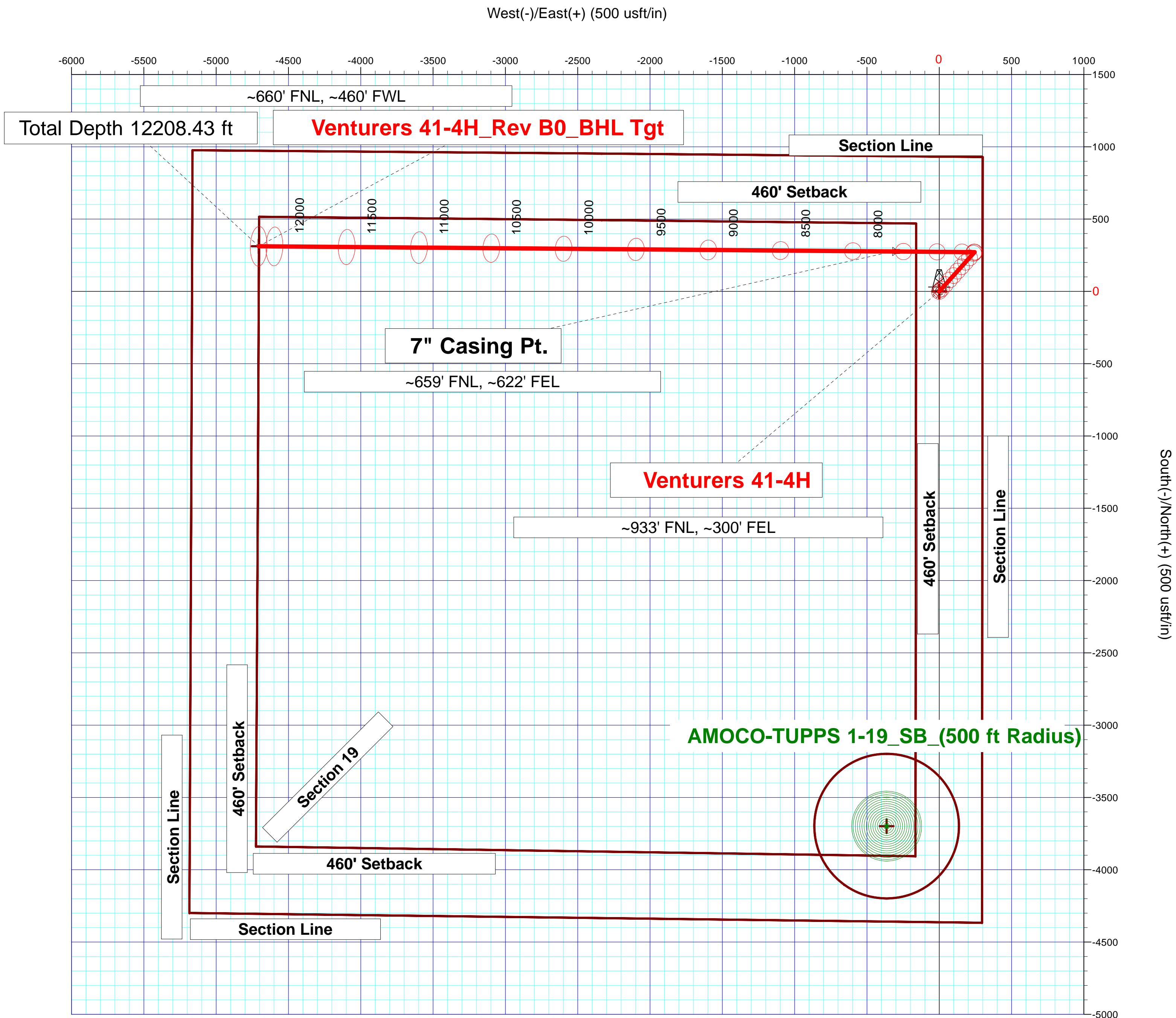
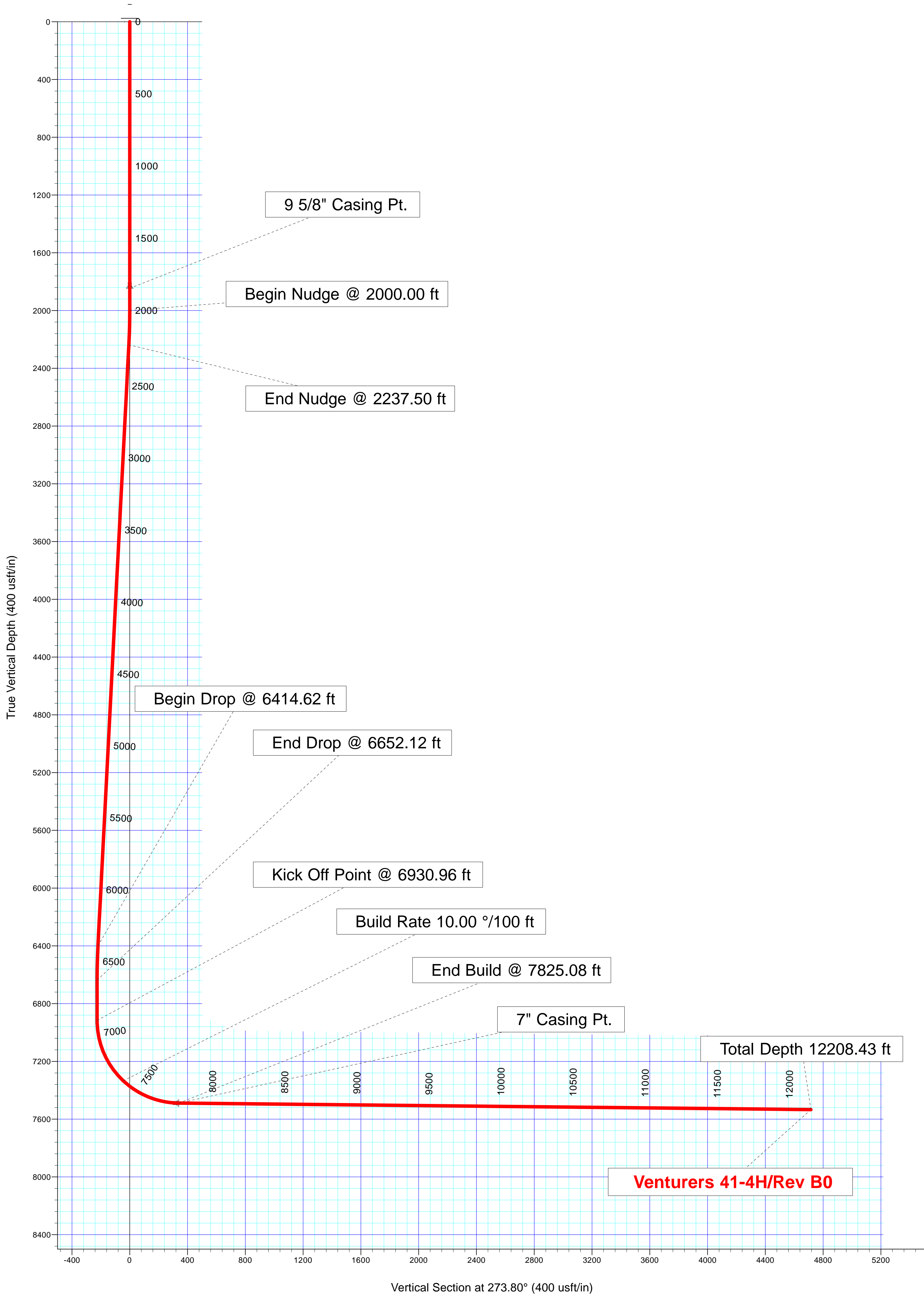
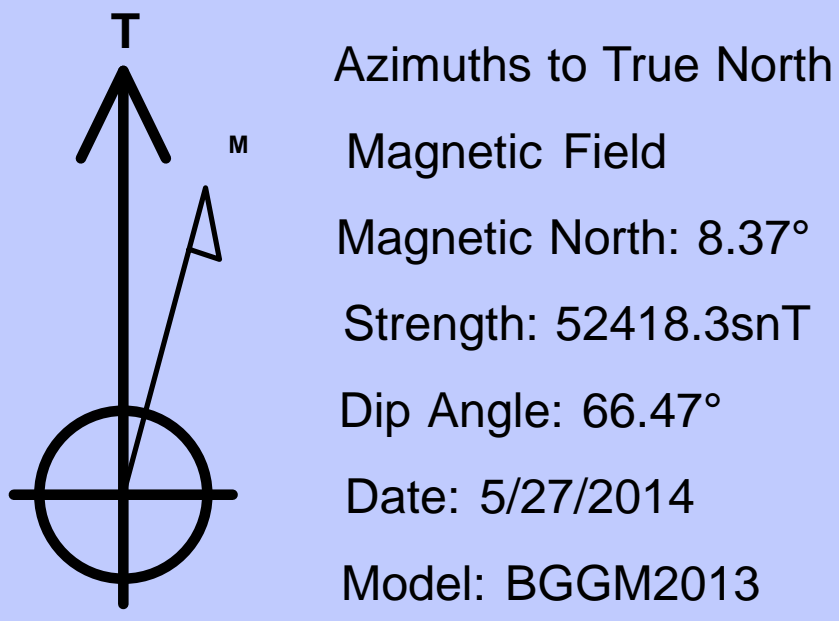
Burlington Resources

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
3	2237.50	4.75	42.00	2237.23	7.31	6.58	2.00	42.00	-6.09	
4	6414.62	4.75	42.00	6400.00	264.37	238.04	0.00	0.00	-220.01	
5	6652.12	0.00	0.00	6637.23	271.68	244.62	2.00	180.00	-226.09	
6	6930.96	0.00	0.00	6916.07	271.68	244.62	0.00	0.00	-226.09	
7	7825.08	89.41	270.47	7489.00	276.33	-322.44	10.00	270.47	340.03	
8	12208.43	89.41	270.47	7534.00	312.26	-4705.41	0.00	0.00	4715.76	Venturers 41-4H_Rev B0_BHL Tgt

Plan: Rev B0 (Venturers 41-4H/Plan B)

Created By: Kansa B. Becker      Date: 10:38, February 25 2014  
Checked: \_\_\_\_\_      Date: \_\_\_\_\_  
Reviewed: \_\_\_\_\_      Date: \_\_\_\_\_  
Approved: \_\_\_\_\_      Date: \_\_\_\_\_



## Plan Report for Venturers 41-4H - Rev B0

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)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,527.00	0.00	0.00	1,527.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Fox Hills</b>										
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,646.00	0.00	0.00	1,646.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Pierre Shale</b>										
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,846.00	0.00	0.00	1,846.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Surface Casing - 9 5/8" Casing Pt.</b>										
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Begin Nudge @ 2000.00 ft</b>										
2,100.00	2.00	42.00	2,099.98	1.30	1.17	-1.08	2.00	2.00	0.00	42.00
2,200.00	4.00	42.00	2,199.84	5.19	4.67	-4.32	2.00	2.00	0.00	0.00
2,237.50	4.75	42.00	2,237.23	7.31	6.58	-6.09	2.00	2.00	0.00	0.00
<b>End Nudge @ 2237.50 ft</b>										
2,300.00	4.75	42.00	2,299.51	11.16	10.05	-9.29	0.00	0.00	0.00	0.00
2,400.00	4.75	42.00	2,399.17	17.31	15.59	-14.41	0.00	0.00	0.00	0.00
2,500.00	4.75	42.00	2,498.83	23.47	21.13	-19.53	0.00	0.00	0.00	0.00
2,600.00	4.75	42.00	2,598.48	29.62	26.67	-24.65	0.00	0.00	0.00	0.00
2,700.00	4.75	42.00	2,698.14	35.77	32.21	-29.77	0.00	0.00	0.00	0.00
2,800.00	4.75	42.00	2,797.80	41.93	37.75	-34.89	0.00	0.00	0.00	0.00
2,900.00	4.75	42.00	2,897.45	48.08	43.29	-40.01	0.00	0.00	0.00	0.00
3,000.00	4.75	42.00	2,997.11	54.23	48.83	-45.14	0.00	0.00	0.00	0.00
3,100.00	4.75	42.00	3,096.77	60.39	54.37	-50.26	0.00	0.00	0.00	0.00
3,200.00	4.75	42.00	3,196.42	66.54	59.92	-55.38	0.00	0.00	0.00	0.00
3,300.00	4.75	42.00	3,296.08	72.70	65.46	-60.50	0.00	0.00	0.00	0.00
3,400.00	4.75	42.00	3,395.74	78.85	71.00	-65.62	0.00	0.00	0.00	0.00
3,500.00	4.75	42.00	3,495.39	85.00	76.54	-70.74	0.00	0.00	0.00	0.00
3,600.00	4.75	42.00	3,595.05	91.16	82.08	-75.86	0.00	0.00	0.00	0.00
3,700.00	4.75	42.00	3,694.71	97.31	87.62	-80.98	0.00	0.00	0.00	0.00
3,800.00	4.75	42.00	3,794.36	103.47	93.16	-86.11	0.00	0.00	0.00	0.00
3,900.00	4.75	42.00	3,894.02	109.62	98.70	-91.23	0.00	0.00	0.00	0.00
4,000.00	4.75	42.00	3,993.67	115.77	104.24	-96.35	0.00	0.00	0.00	0.00
4,100.00	4.75	42.00	4,093.33	121.93	109.78	-101.47	0.00	0.00	0.00	0.00
4,200.00	4.75	42.00	4,192.99	128.08	115.32	-106.59	0.00	0.00	0.00	0.00
4,300.00	4.75	42.00	4,292.64	134.24	120.87	-111.71	0.00	0.00	0.00	0.00
4,400.00	4.75	42.00	4,392.30	140.39	126.41	-116.83	0.00	0.00	0.00	0.00
4,500.00	4.75	42.00	4,491.96	146.54	131.95	-121.95	0.00	0.00	0.00	0.00
4,600.00	4.75	42.00	4,591.61	152.70	137.49	-127.08	0.00	0.00	0.00	0.00
4,700.00	4.75	42.00	4,691.27	158.85	143.03	-132.20	0.00	0.00	0.00	0.00
4,800.00	4.75	42.00	4,790.93	165.00	148.57	-137.32	0.00	0.00	0.00	0.00

## Plan Report for Venturers 41-4H - Rev B0

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)	Toolface Azimuth (°)
4,900.00	4.75	42.00	4,890.58	171.16	154.11	-142.44	0.00	0.00	0.00	0.00
5,000.00	4.75	42.00	4,990.24	177.31	159.65	-147.56	0.00	0.00	0.00	0.00
5,100.00	4.75	42.00	5,089.90	183.47	165.19	-152.68	0.00	0.00	0.00	0.00
5,200.00	4.75	42.00	5,189.55	189.62	170.73	-157.80	0.00	0.00	0.00	0.00
5,300.00	4.75	42.00	5,289.21	195.77	176.28	-162.93	0.00	0.00	0.00	0.00
5,400.00	4.75	42.00	5,388.87	201.93	181.82	-168.05	0.00	0.00	0.00	0.00
5,500.00	4.75	42.00	5,488.52	208.08	187.36	-173.17	0.00	0.00	0.00	0.00
5,600.00	4.75	42.00	5,588.18	214.24	192.90	-178.29	0.00	0.00	0.00	0.00
5,700.00	4.75	42.00	5,687.84	220.39	198.44	-183.41	0.00	0.00	0.00	0.00
5,800.00	4.75	42.00	5,787.49	226.54	203.98	-188.53	0.00	0.00	0.00	0.00
5,900.00	4.75	42.00	5,887.15	232.70	209.52	-193.65	0.00	0.00	0.00	0.00
6,000.00	4.75	42.00	5,986.81	238.85	215.06	-198.77	0.00	0.00	0.00	0.00
6,100.00	4.75	42.00	6,086.46	245.00	220.60	-203.90	0.00	0.00	0.00	0.00
6,200.00	4.75	42.00	6,186.12	251.16	226.14	-209.02	0.00	0.00	0.00	0.00
6,300.00	4.75	42.00	6,285.78	257.31	231.68	-214.14	0.00	0.00	0.00	0.00
6,400.00	4.75	42.00	6,385.43	263.47	237.23	-219.26	0.00	0.00	0.00	0.00
6,414.62	4.75	42.00	6,400.00	264.37	238.04	-220.01	0.00	0.00	0.00	0.00
<b>Begin Drop @ 6414.62 ft</b>										
6,500.00	3.04	42.00	6,485.18	268.68	241.92	-223.60	2.00	-2.00	0.00	180.00
6,600.00	1.04	42.00	6,585.11	271.33	244.30	-225.80	2.00	-2.00	0.00	180.00
6,652.12	0.00	0.00	6,637.23	271.68	244.62	-226.09	2.00	-2.00	0.00	-180.00
<b>End Drop @ 6652.12 ft</b>										
6,700.00	0.00	0.00	6,685.11	271.68	244.62	-226.09	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,785.11	271.68	244.62	-226.09	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,885.11	271.68	244.62	-226.09	0.00	0.00	0.00	0.00
6,930.96	0.00	0.00	6,916.07	271.68	244.62	-226.09	0.00	0.00	0.00	0.00
<b>Kick Off Point @ 6930.96 ft</b>										
7,000.00	6.90	270.47	6,984.94	271.71	240.46	-221.95	10.00	10.00	0.00	270.47
7,100.00	16.90	270.47	7,082.67	271.88	219.86	-201.38	10.00	10.00	0.00	0.00
7,200.00	26.90	270.47	7,175.33	272.19	182.61	-164.18	10.00	10.00	0.00	0.00
7,300.00	36.90	270.47	7,260.12	272.62	129.83	-111.49	10.00	10.00	0.00	0.00
7,326.59	39.56	270.47	7,281.00	272.75	113.37	-95.07	10.00	10.00	0.00	0.00
<b>Sharon Springs</b>										
7,400.00	46.90	270.47	7,334.45	273.17	63.13	-44.90	10.00	10.00	0.00	0.00
<b>Build Rate 10.00 °/100 ft</b>										
7,424.81	49.38	270.47	7,351.00	273.32	44.65	-26.46	10.00	10.00	0.00	0.00
<b>Niobrara</b>										
7,500.00	56.90	270.47	7,396.07	273.81	-15.47	33.57	10.00	10.00	0.00	0.00
7,524.49	59.35	270.47	7,409.00	273.98	-36.27	54.33	10.00	10.00	0.00	0.00
<b>Niobrara "B"</b>										
7,600.00	66.90	270.47	7,443.10	274.53	-103.57	121.52	10.00	10.00	0.00	0.00
7,679.02	74.81	270.47	7,469.00	275.14	-178.16	195.99	10.00	10.00	0.00	0.00
<b>Niobrara "C"</b>										
7,700.00	76.90	270.47	7,474.13	275.31	-198.50	216.29	10.00	10.00	0.00	0.00
7,800.00	86.90	270.47	7,488.19	276.12	-297.38	315.01	10.00	10.00	0.00	0.00
7,825.08	89.41	270.47	7,489.00	276.33	-322.44	340.03	10.00	10.00	0.00	0.00
<b>End Build @ 7825.08 ft</b>										
7,825.09	89.41	270.47	7,489.00	276.33	-322.45	340.04	0.00	0.00	0.00	0.00
<b>7" Casing Pt.</b>										
7,900.00	89.41	270.47	7,489.77	276.94	-397.35	414.82	0.00	0.00	0.00	0.00
8,000.00	89.41	270.47	7,490.79	277.76	-497.34	514.64	0.00	0.00	0.00	0.00
8,100.00	89.41	270.47	7,491.82	278.58	-597.34	614.47	0.00	0.00	0.00	0.00
8,200.00	89.41	270.47	7,492.85	279.40	-697.33	714.30	0.00	0.00	0.00	0.00
8,300.00	89.41	270.47	7,493.87	280.22	-797.32	814.12	0.00	0.00	0.00	0.00
8,400.00	89.41	270.47	7,494.90	281.04	-897.31	913.95	0.00	0.00	0.00	0.00
8,500.00	89.41	270.47	7,495.93	281.86	-997.30	1,013.78	0.00	0.00	0.00	0.00
8,600.00	89.41	270.47	7,496.95	282.68	-1,097.29	1,113.60	0.00	0.00	0.00	0.00
8,700.00	89.41	270.47	7,497.98	283.50	-1,197.28	1,213.43	0.00	0.00	0.00	0.00

## Plan Report for Venturers 41-4H - Rev B0

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)	Toolface Azimuth (°)
8,800.00	89.41	270.47	7,499.01	284.32	-1,297.28	1,313.25	0.00	0.00	0.00	0.00
8,900.00	89.41	270.47	7,500.03	285.14	-1,397.27	1,413.08	0.00	0.00	0.00	0.00
9,000.00	89.41	270.47	7,501.06	285.96	-1,497.26	1,512.91	0.00	0.00	0.00	0.00
9,100.00	89.41	270.47	7,502.09	286.78	-1,597.25	1,612.73	0.00	0.00	0.00	0.00
9,200.00	89.41	270.47	7,503.11	287.60	-1,697.24	1,712.56	0.00	0.00	0.00	0.00
9,300.00	89.41	270.47	7,504.14	288.42	-1,797.23	1,812.39	0.00	0.00	0.00	0.00
9,400.00	89.41	270.47	7,505.17	289.23	-1,897.22	1,912.21	0.00	0.00	0.00	0.00
9,500.00	89.41	270.47	7,506.19	290.05	-1,997.21	2,012.04	0.00	0.00	0.00	0.00
9,600.00	89.41	270.47	7,507.22	290.87	-2,097.21	2,111.86	0.00	0.00	0.00	0.00
9,700.00	89.41	270.47	7,508.25	291.69	-2,197.20	2,211.69	0.00	0.00	0.00	0.00
9,800.00	89.41	270.47	7,509.27	292.51	-2,297.19	2,311.52	0.00	0.00	0.00	0.00
9,900.00	89.41	270.47	7,510.30	293.33	-2,397.18	2,411.34	0.00	0.00	0.00	0.00
10,000.00	89.41	270.47	7,511.33	294.15	-2,497.17	2,511.17	0.00	0.00	0.00	0.00
10,100.00	89.41	270.47	7,512.35	294.97	-2,597.16	2,610.99	0.00	0.00	0.00	0.00
10,200.00	89.41	270.47	7,513.38	295.79	-2,697.15	2,710.82	0.00	0.00	0.00	0.00
10,300.00	89.41	270.47	7,514.41	296.61	-2,797.15	2,810.65	0.00	0.00	0.00	0.00
10,400.00	89.41	270.47	7,515.43	297.43	-2,897.14	2,910.47	0.00	0.00	0.00	0.00
10,500.00	89.41	270.47	7,516.46	298.25	-2,997.13	3,010.30	0.00	0.00	0.00	0.00
10,600.00	89.41	270.47	7,517.49	299.07	-3,097.12	3,110.13	0.00	0.00	0.00	0.00
10,700.00	89.41	270.47	7,518.51	299.89	-3,197.11	3,209.95	0.00	0.00	0.00	0.00
10,800.00	89.41	270.47	7,519.54	300.71	-3,297.10	3,309.78	0.00	0.00	0.00	0.00
10,900.00	89.41	270.47	7,520.57	301.53	-3,397.09	3,409.60	0.00	0.00	0.00	0.00
11,000.00	89.41	270.47	7,521.59	302.35	-3,497.09	3,509.43	0.00	0.00	0.00	0.00
11,100.00	89.41	270.47	7,522.62	303.17	-3,597.08	3,609.26	0.00	0.00	0.00	0.00
11,200.00	89.41	270.47	7,523.65	303.99	-3,697.07	3,709.08	0.00	0.00	0.00	0.00
11,300.00	89.41	270.47	7,524.67	304.81	-3,797.06	3,808.91	0.00	0.00	0.00	0.00
11,400.00	89.41	270.47	7,525.70	305.63	-3,897.05	3,908.74	0.00	0.00	0.00	0.00
11,500.00	89.41	270.47	7,526.73	306.45	-3,997.04	4,008.56	0.00	0.00	0.00	0.00
11,600.00	89.41	270.47	7,527.75	307.27	-4,097.03	4,108.39	0.00	0.00	0.00	0.00
11,700.00	89.41	270.47	7,528.78	308.09	-4,197.02	4,208.21	0.00	0.00	0.00	0.00
11,800.00	89.41	270.47	7,529.81	308.91	-4,297.02	4,308.04	0.00	0.00	0.00	0.00
11,900.00	89.41	270.47	7,530.83	309.73	-4,397.01	4,407.87	0.00	0.00	0.00	0.00
12,000.00	89.41	270.47	7,531.86	310.55	-4,497.00	4,507.69	0.00	0.00	0.00	0.00
12,100.00	89.41	270.47	7,532.89	311.37	-4,596.99	4,607.52	0.00	0.00	0.00	0.00
12,200.00	89.41	270.47	7,533.91	312.19	-4,696.98	4,707.35	0.00	0.00	0.00	0.00
12,208.43	89.41	270.47	7,534.00	312.26	-4,705.41	4,715.76	0.00	0.00	0.00	0.00
Total Depth 12208.43 ft										

**Plan Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	Begin Nudge @ 2000.00 ft
2,237.50	2,237.23	7.31	6.58	End Nudge @ 2237.50 ft
6,414.62	6,400.00	264.37	238.04	Begin Drop @ 6414.62 ft
6,652.12	6,637.23	271.68	244.62	End Drop @ 6652.12 ft
6,930.96	6,916.07	271.68	244.62	Kick Off Point @ 6930.96 ft
7,400.00	7,334.45	273.17	63.13	Build Rate 10.00 °/100 ft
7,825.08	7,489.00	276.33	-322.44	End Build @ 7825.08 ft
12,208.43	7,534.00	312.26	-4,705.41	Total Depth 12208.43 ft

## Plan Report for Venturers 41-4H - Rev B0

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (usft)	Origin +E/-W (usft)	Start TVD (usft)
Target	Venturers 41-4H_Rev B0_BHL Tgt	273.80	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	1,846.00	Rev B0	Assumed Vertical - 30 Inclinometer
1,846.00	7,825.09	Rev B0	MWD
7,825.09	12,208.43	Rev B0	MWD

Casing Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,846.00	1,846.00	9 5/8" Casing Pt.	9-5/8	13-1/2
7,825.09	7,489.00	7" Casing Pt.	7	8-3/4

Formation Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,527.00	1,527.00	Fox Hills			
1,646.00	1,646.00	Pierre Shale			
1,846.00	1,846.00	Surface Casing			
7,326.59	7,281.00	Sharon Springs			
7,424.81	7,351.00	Niobrara			
7,524.49	7,409.00	Niobrara "B"			
7,679.02	7,469.00	Niobrara "C"			

Targets associated with this wellbore

Target Name	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Shape
Venturers 41-4H_SL	0.00	0.00	0.00	Polygon
Venturers 41-4H_SB	0.00	0.00	0.00	Polygon
Venturers 41-4H_Rev B0_BHL Tgt	7,534.00	312.26	-4,705.41	Point

Directional Difficulty Index

Average Dogleg over Survey:	0.81 °/100usft	Maximum Dogleg over Survey:	10.00 °/100usft at 7,825.08 usft
Net Tortousity applicable to Plans:	0.81 °/100usft	Directional Difficulty Index:	6.120

**Plan Report for Venturers 41-4H - Rev B0**

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*Audit Info*



# North Reference Sheet for Sec. 19-T3S-R64W - Venturers 41-4H - Plan B

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference .  
Vertical Depths are relative to KB 24 ft @ 5469.00usft (H&P 280). Northing and Easting are relative to Venturers 41-4H  
Coordinate System is US State Plane 1983, Colorado Central Zone using datum North American Datum 1983, ellipsoid GRS 1980  
Projection method is Lambert Conformal Conic (2 parallel)  
Central Meridian is -105.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:39° 45' 0.000 N°  
False Easting: 3,000,000.00usft, False Northing: 1,000,000.00usft, Scale Reduction: 1.00000618

Grid Coordinates of Well: 1,710,487.48 usft N, 3,257,314.42 usft E  
Geographical Coordinates of Well: 39° 46' 49.93" N, 104° 35' 04.09" W  
Grid Convergence at Surface is: 0.58°

Based upon Minimum Curvature type calculations, at a Measured Depth of 12,208.43usft  
the Bottom Hole Displacement is 4,715.76usft in the Direction of 273.80° ( True).

Magnetic Convergence at surface is: -7.79° (27 May 2014, , BGGM2013)

