



Company:	Whiting Petroleum Corporation	Local Co-ordinate Reference:	Well Razor #27I-2216B
Project:	Weld County, CO	TVD Reference:	HZ @ 4773.3ft
Site:	S27-T10N-R58W	MD Reference:	HZ @ 4773.3ft
Well:	Razor #27I-2216B	North Reference:	True
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	SURVEYS	Database:	USA EDM 5000 Multi Users DB

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

Site		S27-T10N-R58W			
Site Position:		Northing:	1,541,650.73 ft	Latitude:	40.808594
From:	Lat/Long	Easting:	3,455,691.89 ft	Longitude:	-103.853833
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	1.06 °

Well		Razor #27I-2216B				
Well Position	+N/-S	0.0 ft	Northing:	1,541,741.25 ft	Latitude:	40.808706
	+E/-W	0.0 ft	Easting:	3,458,363.48 ft	Longitude:	-103.844178
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,756.5 ft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/24/2013	8.14	67.46	53,242

Design	SURVEYS				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	348.75	

Survey Program	Date	10/23/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
138.0	12,432.0	Survey #1 (HZ)	ISCWSA MWD	MWD - ISCWSA	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00		
138.0	0.80	332.10	138.0	0.9	-0.5	0.9	0.58	0.58		
168.0	0.70	345.80	168.0	1.2	-0.6	1.3	0.68	-0.33		
259.0	1.10	337.90	259.0	2.6	-1.1	2.7	0.46	0.44		
353.0	1.00	338.40	353.0	4.2	-1.7	4.4	0.11	-0.11		
445.0	1.90	29.70	444.9	6.2	-1.2	6.4	1.62	0.98		
536.0	4.10	48.30	535.8	9.7	1.9	9.1	2.61	2.42		
627.0	4.30	55.50	626.6	13.8	7.2	12.1	0.62	0.22		
719.0	4.50	53.10	718.3	17.9	12.9	15.1	0.30	0.22		
811.0	5.00	56.90	810.0	22.3	19.2	18.1	0.64	0.54		
902.0	4.80	51.30	900.6	26.8	25.4	21.3	0.57	-0.22		
993.0	4.80	38.50	991.3	32.2	30.8	25.6	1.17	0.00		
1,085.0	5.40	37.90	1,083.0	38.6	35.8	30.9	0.65	0.65		

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Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	SURVEYS	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
1,176.0	5.10	43.70	1,173.6	44.9	41.3	36.0	0.67	-0.33	
1,268.0	4.00	37.40	1,265.3	50.4	46.0	40.5	1.31	-1.20	
1,360.0	4.20	39.80	1,357.1	55.6	50.1	44.7	0.29	0.22	
1,451.0	3.90	51.00	1,447.8	60.1	54.7	48.2	0.93	-0.33	
1,580.0	4.50	55.10	1,576.5	65.7	62.2	52.3	0.52	0.47	
1,645.0	4.40	57.70	1,641.3	68.5	66.4	54.2	0.35	-0.15	
1,736.0	3.30	28.20	1,732.1	72.7	70.6	57.5	2.45	-1.21	
1,827.0	3.20	21.70	1,822.9	77.4	72.8	61.7	0.42	-0.11	
1,919.0	3.90	41.50	1,914.8	82.1	75.8	65.7	1.52	0.76	
2,011.0	3.60	43.40	2,006.6	86.5	79.9	69.3	0.35	-0.33	
2,102.0	3.40	42.00	2,097.4	90.6	83.7	72.5	0.24	-0.22	
2,194.0	3.20	41.00	2,189.3	94.6	87.2	75.7	0.23	-0.22	
2,286.0	2.90	39.30	2,281.1	98.3	90.3	78.8	0.34	-0.33	
2,377.0	3.90	57.30	2,372.0	101.8	94.4	81.4	1.59	1.10	
2,468.0	3.40	57.30	2,462.8	104.9	99.3	83.5	0.55	-0.55	
2,559.0	3.50	51.00	2,553.6	108.1	103.7	85.8	0.43	0.11	
2,651.0	3.50	46.00	2,645.4	111.8	107.9	88.6	0.33	0.00	
2,742.0	3.60	38.70	2,736.3	116.0	111.7	92.0	0.51	0.11	
2,833.0	3.60	66.80	2,827.1	119.3	116.1	94.4	1.92	0.00	
2,924.0	3.40	62.60	2,917.9	121.7	121.1	95.7	0.36	-0.22	
3,015.0	3.00	33.90	3,008.8	124.9	124.8	98.2	1.79	-0.44	
3,107.0	2.90	32.80	3,100.7	128.9	127.4	101.5	0.12	-0.11	
3,198.0	3.90	49.10	3,191.5	132.8	131.0	104.7	1.52	1.10	
3,290.0	3.70	38.70	3,283.3	137.2	135.2	108.2	0.78	-0.22	
3,382.0	4.20	32.20	3,375.1	142.4	138.9	112.5	0.73	0.54	
3,474.0	3.70	54.50	3,466.9	146.9	143.1	116.2	1.74	-0.54	
3,565.0	3.60	60.20	3,557.7	150.1	148.0	118.3	0.41	-0.11	
3,657.0	3.70	57.30	3,649.5	153.1	153.0	120.3	0.23	0.11	
3,748.0	4.20	44.60	3,740.3	157.1	157.8	123.3	1.10	0.55	
3,840.0	3.70	42.50	3,832.1	161.7	162.2	126.9	0.57	-0.54	
3,932.0	3.30	53.20	3,923.9	165.4	166.3	129.8	0.83	-0.43	
4,024.0	4.70	34.90	4,015.7	170.1	170.6	133.6	2.04	1.52	
4,115.0	4.40	51.90	4,106.4	175.3	175.5	137.7	1.51	-0.33	
4,206.0	3.70	49.10	4,197.2	179.4	180.4	140.7	0.80	-0.77	
4,297.0	3.40	46.30	4,288.0	183.2	184.6	143.6	0.38	-0.33	
4,388.0	2.30	7.50	4,378.9	186.9	186.8	146.8	2.37	-1.21	
4,479.0	3.20	24.60	4,469.8	191.0	188.1	150.6	1.33	0.99	
4,570.0	4.00	55.90	4,560.6	195.1	191.8	153.9	2.29	0.88	
4,661.0	3.50	58.80	4,651.4	198.3	196.8	156.1	0.59	-0.55	
4,753.0	4.00	44.00	4,743.2	202.1	201.4	158.9	1.18	0.54	
4,844.0	3.20	45.20	4,834.0	206.1	205.4	162.1	0.88	-0.88	
4,936.0	2.40	49.10	4,925.9	209.2	208.7	164.5	0.89	-0.87	
5,027.0	2.10	53.30	5,016.9	211.4	211.5	166.1	0.38	-0.33	
5,119.0	0.50	89.70	5,108.8	212.4	213.2	166.8	1.87	-1.74	
5,210.0	5.70	13.00	5,199.7	216.9	214.6	170.8	6.16	5.71	
5,240.0	10.20	13.30	5,229.4	220.9	215.6	174.6	15.00	15.00	
5,271.0	13.90	11.00	5,259.7	227.2	216.9	180.5	12.03	11.94	
5,301.0	17.10	5.00	5,288.6	235.2	218.0	188.1	11.92	10.67	
5,331.0	19.10	3.50	5,317.1	244.5	218.7	197.1	6.84	6.67	
5,362.0	22.30	5.20	5,346.1	255.4	219.5	207.6	10.50	10.32	
5,393.0	25.80	7.50	5,374.4	267.9	220.9	219.7	11.69	11.29	
5,423.0	28.10	9.60	5,401.2	281.4	223.0	232.4	8.30	7.67	
5,453.0	31.00	8.90	5,427.3	296.0	225.3	246.3	9.73	9.67	

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Design:	SURVEYS	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
5,484.0	34.30	6.00	5,453.4	312.5	227.5	262.1	11.78	10.65	
5,514.0	37.70	5.60	5,477.6	330.1	229.3	279.0	11.36	11.33	
5,545.0	40.10	3.90	5,501.7	349.5	230.9	297.7	8.47	7.74	
5,575.0	43.40	2.10	5,524.1	369.4	231.9	317.1	11.70	11.00	
5,605.0	45.80	3.10	5,545.5	390.5	232.9	337.5	8.34	8.00	
5,636.0	49.70	4.60	5,566.3	413.4	234.4	359.7	13.08	12.58	
5,666.0	52.30	6.00	5,585.2	436.6	236.6	382.0	9.39	8.67	
5,697.0	56.10	7.90	5,603.3	461.5	239.6	405.9	13.23	12.26	
5,728.0	58.60	8.80	5,620.1	487.3	243.4	430.5	8.43	8.06	
5,758.0	61.80	9.20	5,635.0	513.1	247.5	454.9	10.73	10.67	
5,788.0	65.60	9.40	5,648.3	539.6	251.8	480.1	12.68	12.67	
5,819.0	69.70	9.40	5,660.0	567.9	256.5	506.9	13.23	13.23	
5,849.0	73.90	9.20	5,669.4	596.0	261.1	533.6	14.01	14.00	
5,880.0	78.10	9.60	5,676.9	625.7	266.0	561.7	13.61	13.55	
5,910.0	82.50	8.90	5,682.0	654.8	270.8	589.4	14.85	14.67	
5,940.0	85.70	9.50	5,685.0	684.3	275.6	617.4	10.85	10.67	
5,971.0	89.10	9.40	5,686.4	714.8	280.6	646.3	10.97	10.97	
6,002.0	90.00	9.10	5,686.7	745.4	285.6	675.4	3.06	2.90	
6,032.0	90.90	8.30	5,686.5	775.1	290.2	703.6	4.01	3.00	
6,054.0	91.40	8.00	5,686.0	796.9	293.3	724.3	2.65	2.27	
6,090.0	91.90	7.34	5,685.0	832.5	298.1	758.3	2.30	1.38	7" Csg - 7"
6,141.0	92.60	6.40	5,683.0	883.1	304.2	806.8	2.30	1.38	
6,236.0	90.50	5.90	5,680.4	977.5	314.3	897.4	2.27	-2.21	
6,331.0	90.50	4.80	5,679.6	1,072.1	323.2	988.4	1.16	0.00	
6,426.0	88.70	3.90	5,680.2	1,166.8	330.4	1,079.9	2.12	-1.89	
6,520.0	88.10	4.30	5,682.9	1,260.5	337.1	1,170.5	0.77	-0.64	
6,615.0	88.10	2.60	5,686.0	1,355.3	342.8	1,262.4	1.79	0.00	
6,688.0	88.70	3.10	5,688.1	1,428.2	346.5	1,333.1	1.07	0.82	
6,783.0	89.30	3.10	5,689.7	1,523.0	351.6	1,425.2	0.63	0.63	
6,878.0	88.80	2.50	5,691.3	1,617.9	356.2	1,517.3	0.82	-0.53	
6,973.0	89.50	0.70	5,692.7	1,712.9	358.9	1,609.9	2.03	0.74	
7,068.0	90.50	3.00	5,692.7	1,807.8	362.0	1,702.4	2.64	1.05	
7,162.0	89.50	3.70	5,692.7	1,901.6	367.5	1,793.4	1.30	-1.06	
7,257.0	89.50	5.10	5,693.5	1,996.4	374.7	1,884.9	1.47	0.00	
7,352.0	90.40	5.30	5,693.6	2,091.0	383.4	1,976.0	0.97	0.95	
7,447.0	88.70	1.00	5,694.4	2,185.8	388.6	2,067.9	4.87	-1.79	
7,542.0	88.00	1.00	5,697.1	2,280.7	390.2	2,160.7	0.74	-0.74	
7,637.0	88.90	359.50	5,699.7	2,375.7	390.6	2,253.8	1.84	0.95	
7,731.0	90.40	359.10	5,700.2	2,469.7	389.5	2,346.2	1.65	1.60	
7,826.0	90.20	357.90	5,699.7	2,564.7	387.0	2,439.8	1.28	-0.21	
7,921.0	89.20	357.80	5,700.2	2,659.6	383.4	2,533.6	1.06	-1.05	
8,015.0	90.60	358.40	5,700.4	2,753.5	380.3	2,626.4	1.62	1.49	
8,110.0	90.90	359.80	5,699.2	2,848.5	378.8	2,719.8	1.51	0.32	
8,205.0	89.40	357.30	5,698.9	2,943.5	376.4	2,813.4	3.07	-1.58	
8,300.0	90.90	357.80	5,698.7	3,038.4	372.4	2,907.3	1.66	1.58	
8,395.0	90.00	358.10	5,697.9	3,133.3	369.0	3,001.1	1.00	-0.95	
8,489.0	90.00	0.60	5,697.9	3,227.3	367.9	3,093.5	2.66	0.00	
8,581.0	89.30	0.90	5,698.5	3,319.3	369.1	3,183.4	0.83	-0.76	
8,673.0	88.90	1.60	5,699.9	3,411.3	371.1	3,273.3	0.88	-0.43	
8,764.0	88.90	1.10	5,701.7	3,502.2	373.3	3,362.0	0.55	0.00	
8,856.0	90.80	1.60	5,701.9	3,594.2	375.4	3,451.8	2.14	2.07	
8,948.0	90.70	1.70	5,700.7	3,686.1	378.1	3,541.5	0.15	-0.11	
9,039.0	90.90	2.80	5,699.4	3,777.1	381.6	3,630.0	1.23	0.22	

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Well:	Razor #27I-2216B	North Reference:	True
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	SURVEYS	Database:	USA EDM 5000 Multi Users DB

Survey									
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9,130.0	88.90	359.90	5,699.6	3,868.0	383.8	3,718.8	3.87	-2.20	
9,221.0	87.40	359.30	5,702.5	3,959.0	383.2	3,808.1	1.78	-1.65	
9,313.0	88.90	357.40	5,705.5	4,050.9	380.5	3,898.7	2.63	1.63	
9,405.0	89.00	356.30	5,707.2	4,142.7	375.5	3,989.8	1.20	0.11	
9,496.0	91.20	359.00	5,707.0	4,233.6	371.7	4,079.7	3.83	2.42	
9,588.0	90.70	359.00	5,705.5	4,325.6	370.1	4,170.2	0.54	-0.54	
9,680.0	89.80	359.60	5,705.1	4,417.6	369.0	4,260.7	1.18	-0.98	
9,771.0	88.60	0.30	5,706.4	4,508.6	368.9	4,349.9	1.53	-1.32	
9,862.0	87.40	1.50	5,709.5	4,599.5	370.3	4,438.8	1.86	-1.32	
9,953.0	90.20	0.50	5,711.5	4,690.5	371.9	4,527.7	3.27	3.08	
10,045.0	91.00	359.20	5,710.5	4,782.5	371.7	4,618.0	1.66	0.87	
10,158.0	90.70	0.20	5,708.8	4,895.4	371.1	4,728.9	0.92	-0.27	
10,249.0	91.30	0.20	5,707.2	4,986.4	371.4	4,818.1	0.66	0.66	
10,340.0	90.90	0.60	5,705.5	5,077.4	372.1	4,907.2	0.62	-0.44	
10,431.0	91.30	0.30	5,703.7	5,168.4	372.8	4,996.3	0.55	0.44	
10,523.0	91.40	0.20	5,701.6	5,260.4	373.2	5,086.4	0.15	0.11	
10,614.0	90.40	1.30	5,700.1	5,351.3	374.4	5,175.4	1.63	-1.10	
10,706.0	89.30	0.60	5,700.4	5,443.3	375.9	5,265.3	1.42	-1.20	
10,798.0	89.70	3.70	5,701.2	5,535.2	379.3	5,354.8	3.40	0.43	
10,890.0	89.50	2.90	5,701.8	5,627.1	384.6	5,443.8	0.90	-0.22	
10,981.0	89.30	1.30	5,702.8	5,718.0	388.0	5,532.4	1.77	-0.22	
11,073.0	87.60	359.30	5,705.3	5,810.0	388.4	5,622.5	2.85	-1.85	
11,164.0	88.30	359.30	5,708.5	5,900.9	387.3	5,711.9	0.77	0.77	
11,256.0	87.00	359.50	5,712.3	5,992.8	386.4	5,802.2	1.43	-1.41	
11,348.0	91.00	358.00	5,713.9	6,084.8	384.4	5,892.8	4.64	4.35	
11,440.0	90.90	357.60	5,712.4	6,176.7	380.8	5,983.6	0.45	-0.11	
11,531.0	90.40	357.30	5,711.3	6,267.6	376.8	6,073.6	0.64	-0.55	
11,622.0	90.20	357.40	5,710.9	6,358.5	372.6	6,163.5	0.25	-0.22	
11,713.0	90.50	357.60	5,710.3	6,449.4	368.6	6,253.5	0.40	0.33	
11,804.0	91.30	0.00	5,708.9	6,540.4	366.7	6,343.1	2.78	0.88	
11,895.0	91.40	359.60	5,706.7	6,631.3	366.4	6,432.4	0.45	0.11	
11,986.0	89.60	356.60	5,705.9	6,722.3	363.4	6,522.1	3.84	-1.98	
12,077.0	90.20	358.10	5,706.1	6,813.2	359.2	6,612.1	1.77	0.66	
12,169.0	91.50	357.20	5,704.7	6,905.1	355.4	6,703.0	1.72	1.41	
12,260.0	96.50	359.40	5,698.4	6,995.8	352.7	6,792.5	6.00	5.49	
12,352.0	102.90	8.20	5,682.9	7,086.2	358.6	6,879.9	11.71	6.96	Last Cathedral Survey @ 12352' MD
12,432.0	102.90	8.20	5,665.0	7,163.3	369.7	6,953.5	0.00	0.00	Projection to Bit @ 12432' MD

Company:	Whiting Petroleum Corporation	Local Co-ordinate Reference:	Well Razor #27I-2216B
Project:	Weld County, CO	TVD Reference:	HZ @ 4773.3ft
Site:	S27-T10N-R58W	MD Reference:	HZ @ 4773.3ft
Well:	Razor #27I-2216B	North Reference:	True
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	SURVEYS	Database:	USA EDM 5000 Multi Users DB

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
2216B BHL P7 (100' FNI)	0.00	0.00	5,715.0	8,200.6	375.3	1,549,947.45	3,458,585.56	40.831214	-103.842822
- survey misses target center by 1038.5ft at 12432.0ft MD (5665.0 TVD, 7163.3 N, 369.7 E)									
- Point									
2216B Tgt	0.00	0.00	5,736.3	7,700.7	385.2	1,549,447.85	3,458,604.86	40.829842	-103.842786
- survey misses target center by 542.4ft at 12432.0ft MD (5665.0 TVD, 7163.3 N, 369.7 E)									
- Point									
2216B TGT 2000 VS	0.00	0.00	5,692.0	1,984.9	375.3	1,543,732.81	3,458,701.61	40.814154	-103.842822
- survey misses target center by 2.1ft at 7245.6ft MD (5693.4 TVD, 1985.0 N, 373.7 E)									
- Point									
2216B Tgt P4	0.00	0.00	5,693.0	7,700.7	385.2	1,549,447.85	3,458,604.86	40.829842	-103.842786
- survey misses target center by 538.4ft at 12432.0ft MD (5665.0 TVD, 7163.3 N, 369.7 E)									
- Point									
2216B BHL	0.00	0.00	5,736.3	8,200.6	375.3	1,549,947.45	3,458,585.56	40.831214	-103.842822
- survey misses target center by 1039.8ft at 12432.0ft MD (5665.0 TVD, 7163.3 N, 369.7 E)									
- Point									
2216B TGT 3300 VS	0.00	0.00	5,700.0	3,286.3	375.3	1,545,033.99	3,458,677.31	40.817726	-103.842822
- survey misses target center by 6.9ft at 8548.1ft MD (5698.1 TVD, 3286.4 N, 368.6 E)									
- Point									
2216B BHL P6	0.00	0.00	5,700.0	8,200.6	375.3	1,549,947.45	3,458,585.56	40.831214	-103.842822
- survey misses target center by 1037.9ft at 12432.0ft MD (5665.0 TVD, 7163.3 N, 369.7 E)									
- Point									
2216B TGT 810 VS	0.00	0.00	5,686.0	8,200.6	375.3	1,549,947.45	3,458,585.56	40.831214	-103.842822
- survey misses target center by 1037.5ft at 12432.0ft MD (5665.0 TVD, 7163.3 N, 369.7 E)									
- Point									
2216B Tgt P5	0.00	0.00	5,700.0	7,700.7	385.2	1,549,447.85	3,458,604.86	40.829842	-103.842786
- survey misses target center by 538.8ft at 12432.0ft MD (5665.0 TVD, 7163.3 N, 369.7 E)									
- Point									

Casing Points					
Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter
(ft)	(ft)		Name	(in)	(in)
6,090.0	5,685.0	7"		0.000	0.000

Survey Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W	Comment	
(ft)	(ft)	(ft)	(ft)		
6,090.0	5,685.0	832.5	298.1	7" Csg	
12,352.0	5,682.9	7,086.2	358.6	Last Cathedral Survey @ 12352' MD	
12,432.0	5,665.0	7,163.3	369.7	Projection to Bit @ 12432' MD	

Checked By: _____	Approved By: _____	Date: _____
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