



Noble Energy, Inc

Weld County, CO (NAD 83)

Sec 29, T6N-R62W (Wells Ranch AE30 Pad)

Wells Ranch AE30-63HNC

Wellbore #1

Design: OH

Standard Survey Report

08 June, 2014



Company:	Noble Energy, Inc	Local Co-ordinate Reference:	Well Wells Ranch AE30-63HNC
Project:	Weld County, CO (NAD 83)	TVD Reference:	Well @ 4776.0usft (H&P 277)
Site:	Sec 29, T6N-R62W (Wells Ranch AE30 Pad)	MD Reference:	Well @ 4776.0usft (H&P 277)
Well:	Wells Ranch AE30-63HNC	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Weld County, CO (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Sec 29, T6N-R62W (Wells Ranch AE30 Pad)				
Site Position:		Northing:	1,410,139.62 usft	Latitude:	40° 27' 12.960 N
From:	Lat/Long	Easting:	3,318,293.89 usft	Longitude:	104° 21' 22.392 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.74 °

Well	Wells Ranch AE30-63HNC					
Well Position	+N/-S	0.0 usft	Northing:	1,410,026.65 usft	Latitude:	40° 27' 11.844 N
	+E/-W	0.0 usft	Easting:	3,318,292.56 usft	Longitude:	104° 21' 22.428 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	0.0 usft	Ground Level:	4,752.0 usft

Wellbore	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/10/2014	8.27	67.06	52,905

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	271.20	

Survey Program		Date 6/8/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
310.0	623.0	Surface (Wellbore #1)	Flexi-Shot	VES Flexi-Shot Tool	
733.0	6,829.0	Intermediate (Wellbore #1)	MWD	MWD - Standard	
6,829.0	12,007.0	Lateral (Wellbore #1)	Sperry - MWD+IFR1+MS_	Fixed:v2:Rockies, crustal dec + 3-axis correction	

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
310.0	0.80	241.13	310.0	-1.0	-1.9	1.9	0.26	0.26	0.00
623.0	0.10	38.23	623.0	-1.9	-3.6	3.6	0.29	-0.22	50.19
First MWD									
733.0	0.70	332.02	733.0	-1.2	-3.9	3.9	0.61	0.55	-60.19
827.0	0.79	331.58	827.0	-0.1	-4.5	4.5	0.10	0.10	-0.47
920.0	0.88	337.56	920.0	1.1	-5.1	5.1	0.13	0.10	6.43
1,014.0	0.79	326.75	1,014.0	2.3	-5.7	5.7	0.19	-0.10	-11.50
1,108.0	0.88	333.08	1,107.9	3.5	-6.4	6.4	0.14	0.10	6.73

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Design: OH

Local Co-ordinate Reference: Well Wells Ranch AE30-63HNC
TVD Reference: Well @ 4776.0usft (H&P 277)
MD Reference: Well @ 4776.0usft (H&P 277)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: 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)
1,203.0	0.88	330.53	1,202.9	4.8	-7.1	7.2	0.04	0.00	-2.68
1,296.0	0.97	332.64	1,295.9	6.1	-7.8	7.9	0.10	0.10	2.27
1,391.0	0.97	331.23	1,390.9	7.5	-8.5	8.7	0.03	0.00	-1.48
1,486.0	0.97	340.81	1,485.9	9.0	-9.2	9.4	0.17	0.00	10.08
1,581.0	0.97	340.99	1,580.9	10.5	-9.7	9.9	0.00	0.00	0.19
1,675.0	1.14	346.08	1,674.9	12.1	-10.2	10.4	0.21	0.18	5.41
1,770.0	1.06	321.21	1,769.8	13.8	-11.0	11.2	0.51	-0.08	-26.18
1,865.0	3.61	338.44	1,864.8	17.2	-12.6	13.0	2.75	2.68	18.14
1,960.0	4.66	343.71	1,959.5	23.7	-14.8	15.3	1.17	1.11	5.55
2,054.0	6.95	343.89	2,053.0	32.8	-17.4	18.1	2.44	2.44	0.19
2,149.0	7.56	338.44	2,147.3	44.2	-21.3	22.3	0.97	0.64	-5.74
2,243.0	8.97	332.55	2,240.3	56.4	-27.0	28.2	1.75	1.50	-6.27
2,338.0	9.67	332.29	2,334.0	70.1	-34.1	35.6	0.74	0.74	-0.27
2,433.0	10.55	338.26	2,427.6	85.2	-41.0	42.8	1.44	0.93	6.28
2,528.0	10.99	338.09	2,520.9	101.7	-47.6	49.8	0.46	0.46	-0.18
2,622.0	11.52	340.64	2,613.1	118.8	-54.1	56.6	0.77	0.56	2.71
2,716.0	10.64	338.53	2,705.3	135.8	-60.4	63.2	1.03	-0.94	-2.24
2,811.0	12.05	335.89	2,798.5	153.0	-67.6	70.8	1.58	1.48	-2.78
2,905.0	12.22	334.22	2,890.4	170.9	-76.0	79.5	0.41	0.18	-1.78
3,000.0	12.57	335.10	2,983.1	189.3	-84.7	88.7	0.42	0.37	0.93
3,094.0	10.73	329.30	3,075.2	206.1	-93.5	97.8	2.32	-1.96	-6.17
3,188.0	8.97	330.00	3,167.8	220.0	-101.6	106.2	1.88	-1.87	0.74
3,283.0	7.30	332.37	3,261.9	231.8	-108.1	112.9	1.79	-1.76	2.49
3,378.0	5.98	332.20	3,356.2	241.5	-113.2	118.3	1.39	-1.39	-0.18
3,472.0	4.22	326.70	3,449.8	248.7	-117.4	122.6	1.94	-1.87	-5.85
3,567.0	4.31	340.37	3,544.6	255.0	-120.5	125.8	1.07	0.09	14.39
3,661.0	3.43	352.94	3,638.4	261.1	-122.1	127.5	1.30	-0.94	13.37
3,756.0	2.55	0.50	3,733.2	266.1	-122.4	127.9	1.01	-0.93	7.96
3,850.0	2.02	345.65	3,827.2	269.8	-122.8	128.4	0.84	-0.56	-15.80
3,945.0	1.49	1.55	3,922.1	272.6	-123.2	128.8	0.75	-0.56	16.74
4,040.0	1.32	8.76	4,017.1	274.9	-123.0	128.7	0.26	-0.18	7.59
4,134.0	1.41	332.11	4,111.1	277.0	-123.3	129.1	0.92	0.10	-38.99
4,228.0	1.41	355.75	4,205.0	279.2	-124.0	129.8	0.61	0.00	25.15
4,322.0	1.58	13.33	4,299.0	281.6	-123.8	129.6	0.52	0.18	18.70
4,417.0	0.88	31.17	4,394.0	283.5	-123.1	129.0	0.83	-0.74	18.78
4,511.0	0.79	45.15	4,488.0	284.6	-122.2	128.2	0.24	-0.10	14.87
4,606.0	0.53	62.02	4,583.0	285.3	-121.4	127.3	0.34	-0.27	17.76
4,700.0	0.26	326.92	4,677.0	285.6	-121.1	127.1	0.65	-0.29	-101.17
4,795.0	0.62	220.75	4,772.0	285.4	-121.6	127.5	0.77	0.38	-111.76
4,889.0	0.79	217.41	4,866.0	284.5	-122.3	128.2	0.19	0.18	-3.55
4,984.0	0.79	221.46	4,961.0	283.5	-123.1	129.0	0.06	0.00	4.26
5,079.0	0.62	218.29	5,055.9	282.6	-123.9	129.8	0.18	-0.18	-3.34
5,174.0	0.79	260.83	5,150.9	282.1	-124.8	130.7	0.56	0.18	44.78



IDS
Survey Report



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5,268.0	0.88	227.61	5,244.9	281.5	-126.0	131.9	0.52	0.10	-35.34
5,363.0	0.79	223.04	5,339.9	280.6	-127.0	132.9	0.12	-0.09	-4.81
5,458.0	2.02	211.08	5,434.9	278.6	-128.3	134.1	1.32	1.29	-12.59
5,553.0	1.85	194.30	5,529.8	275.7	-129.6	135.3	0.62	-0.18	-17.66
5,648.0	1.32	193.95	5,624.8	273.2	-130.2	135.9	0.56	-0.56	-0.37
5,743.0	1.76	173.47	5,719.8	270.7	-130.3	135.9	0.73	0.46	-21.56
5,838.0	1.67	177.30	5,814.7	267.8	-130.1	135.6	0.15	-0.09	4.03
5,930.0	1.93	198.96	5,906.7	265.0	-130.5	136.0	0.79	0.28	23.54
6,025.0	9.50	253.71	6,001.2	261.3	-138.6	144.0	8.98	7.97	57.63
6,072.0	13.72	257.58	6,047.2	259.0	-147.7	153.1	9.13	8.98	8.23
6,119.0	16.80	256.61	6,092.5	256.2	-159.8	165.1	6.58	6.55	-2.06
6,167.0	20.58	259.60	6,138.0	253.1	-174.8	180.1	8.12	7.88	6.23
6,214.0	22.86	262.32	6,181.7	250.4	-192.0	197.2	5.30	4.85	5.79
6,309.0	29.02	260.57	6,267.1	244.2	-233.1	238.1	6.53	6.48	-1.84
6,403.0	36.76	256.26	6,345.9	233.7	-283.0	287.8	8.60	8.23	-4.59
6,498.0	46.17	255.73	6,417.0	218.5	-343.9	348.4	9.91	9.91	-0.56
6,592.0	56.72	258.63	6,475.6	202.3	-415.5	419.7	11.48	11.22	3.09
6,687.0	67.71	259.51	6,519.8	186.5	-497.9	501.7	11.60	11.57	0.93
6,734.0	72.80	261.80	6,535.7	179.3	-541.6	545.2	11.76	10.83	4.87
6,782.0	78.08	264.87	6,547.7	173.9	-587.7	591.2	12.62	11.00	6.40
6,829.0	82.59	268.04	6,555.6	171.1	-633.9	637.4	11.67	9.60	6.74
6,914.0	84.97	268.88	6,564.8	168.8	-718.4	721.8	2.96	2.80	0.98
Actual 7" Csg @ 6914' MD / 6564' TVD / 1238' FSL & 656' FEL Sec 30 - 7"									
7,019.0	87.91	269.90	6,571.3	167.7	-823.2	826.5	2.96	2.80	0.98
7,114.0	87.58	267.39	6,575.1	165.4	-918.0	921.3	2.66	-0.35	-2.64
7,209.0	85.67	265.10	6,580.7	159.2	-1,012.7	1,015.8	3.14	-2.01	-2.41
7,303.0	81.75	261.28	6,591.0	148.2	-1,105.4	1,108.3	5.81	-4.17	-4.06
7,398.0	80.65	262.93	6,605.5	135.3	-1,198.4	1,201.0	2.07	-1.16	1.74
7,492.0	87.86	268.46	6,614.9	128.3	-1,291.6	1,294.0	9.65	7.67	5.88
7,587.0	91.18	269.15	6,615.7	126.3	-1,386.5	1,388.9	3.57	3.49	0.73
7,681.0	91.72	270.68	6,613.3	126.2	-1,480.5	1,482.8	1.73	0.57	1.63
7,775.0	92.94	271.46	6,609.5	127.9	-1,574.4	1,576.7	1.54	1.30	0.83
7,870.0	93.53	275.13	6,604.1	133.4	-1,669.1	1,671.5	3.91	0.62	3.86
7,965.0	90.99	276.07	6,600.4	142.6	-1,763.5	1,766.1	2.85	-2.67	0.99
8,059.0	89.31	275.40	6,600.2	152.0	-1,857.1	1,859.8	1.92	-1.79	-0.71
8,154.0	90.65	275.33	6,600.2	160.9	-1,951.6	1,954.6	1.41	1.41	-0.07
8,248.0	91.40	274.90	6,598.5	169.3	-2,045.3	2,048.3	0.92	0.80	-0.46
8,343.0	92.17	274.06	6,595.5	176.7	-2,139.9	2,143.1	1.20	0.81	-0.88
8,438.0	92.10	272.10	6,592.0	181.8	-2,234.7	2,238.0	2.06	-0.07	-2.06
8,532.0	90.22	269.09	6,590.1	182.8	-2,328.7	2,332.0	3.77	-2.00	-3.20
8,627.0	89.97	267.83	6,589.9	180.2	-2,423.6	2,426.9	1.35	-0.26	-1.33
8,722.0	91.10	267.67	6,589.1	176.5	-2,518.6	2,521.7	1.20	1.19	-0.17
8,816.0	91.77	267.30	6,586.7	172.4	-2,612.4	2,615.5	0.81	0.71	-0.39
8,911.0	89.87	268.21	6,585.3	168.6	-2,707.3	2,710.3	2.22	-2.00	0.96



IDS Survey Report



Company: Noble Energy, Inc
Project: Weld County, CO (NAD 83)
Site: Sec 29, T6N-R62W (Wells Ranch AE30 Pad)
Well: Wells Ranch AE30-63HNC
Wellbore: Wellbore #1
Design: OH

Local Co-ordinate Reference: Well Wells Ranch AE30-63HNC
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MD Reference: Well @ 4776.0usft (H&P 277)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: 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)
9,006.0	88.36	268.74	6,586.8	166.1	-2,802.3	2,805.2	1.68	-1.59	0.56
9,101.0	89.78	268.27	6,588.4	163.6	-2,897.2	2,900.0	1.57	1.49	-0.49
9,290.0	89.76	270.32	6,589.1	161.3	-3,086.2	3,088.9	1.08	-0.01	1.08
9,384.0	89.85	268.87	6,589.4	160.6	-3,180.2	3,182.9	1.55	0.10	-1.54
9,479.0	90.36	267.48	6,589.3	157.6	-3,275.2	3,277.7	1.56	0.54	-1.46
9,574.0	90.30	268.04	6,588.7	153.9	-3,370.1	3,372.6	0.59	-0.06	0.59
9,668.0	89.56	268.48	6,588.8	151.1	-3,464.0	3,466.4	0.92	-0.79	0.47
9,763.0	90.77	267.10	6,588.6	147.4	-3,559.0	3,561.3	1.93	1.27	-1.45
9,857.0	91.76	269.04	6,586.5	144.2	-3,652.9	3,655.1	2.32	1.05	2.06
9,952.0	90.49	270.26	6,584.6	143.6	-3,747.9	3,750.1	1.85	-1.34	1.28
10,047.0	88.41	269.21	6,585.5	143.2	-3,842.9	3,845.0	2.45	-2.19	-1.11
10,141.0	87.31	267.89	6,589.0	140.8	-3,936.8	3,938.8	1.83	-1.17	-1.40
10,236.0	87.88	266.42	6,593.0	136.1	-4,031.5	4,033.5	1.66	0.60	-1.55
10,331.0	87.98	266.79	6,596.5	130.5	-4,126.3	4,128.1	0.40	0.11	0.39
10,425.0	88.89	268.60	6,599.0	126.7	-4,220.2	4,221.9	2.15	0.97	1.93
10,520.0	89.52	268.53	6,600.3	124.3	-4,315.2	4,316.8	0.67	0.66	-0.07
10,614.0	88.98	267.49	6,601.6	121.1	-4,409.1	4,410.7	1.25	-0.57	-1.11
10,709.0	91.11	270.17	6,601.5	119.1	-4,504.1	4,505.6	3.60	2.24	2.82
10,804.0	89.01	270.92	6,601.4	120.0	-4,599.1	4,600.6	2.35	-2.21	0.79
10,898.0	87.94	270.84	6,603.9	121.5	-4,693.0	4,694.5	1.14	-1.14	-0.09
10,993.0	87.35	269.98	6,607.8	122.2	-4,787.9	4,789.4	1.10	-0.62	-0.91
11,087.0	86.60	268.98	6,612.8	121.3	-4,881.8	4,883.3	1.33	-0.80	-1.06
11,182.0	85.47	268.17	6,619.3	119.0	-4,976.5	4,977.9	1.46	-1.19	-0.85
11,277.0	86.94	269.71	6,625.6	117.2	-5,071.3	5,072.6	2.24	1.55	1.62
11,371.0	88.59	270.56	6,629.3	117.4	-5,165.2	5,166.5	1.97	1.76	0.90
11,466.0	88.54	269.75	6,631.7	117.7	-5,260.2	5,261.5	0.85	-0.05	-0.85
11,561.0	88.67	271.41	6,634.0	118.6	-5,355.2	5,356.5	1.75	0.14	1.75
11,656.0	90.13	271.26	6,635.0	120.9	-5,450.1	5,451.5	1.54	1.54	-0.16
11,751.0	88.82	268.68	6,635.8	120.8	-5,545.1	5,546.4	3.05	-1.38	-2.72
11,846.0	92.15	270.77	6,635.0	120.3	-5,640.1	5,641.4	4.14	3.51	2.20
11,937.0	92.79	270.28	6,631.1	121.2	-5,731.0	5,732.3	0.89	0.70	-0.54
Last MWD									
12,007.0	92.79	270.28	6,627.7	121.5	-5,800.9	5,802.2	0.00	0.00	0.00

PTD @ 12007' MD / 6628' TVD / 1340' FSL & 384' FEL Sec 25

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
6,914.0	6,564.8	7"	7	8-3/4

Company:	Noble Energy, Inc	Local Co-ordinate Reference:	Well Wells Ranch AE30-63HNC
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Site:	Sec 29, T6N-R62W (Wells Ranch AE30 Pad)	MD Reference:	Well @ 4776.0usft (H&P 277)
Well:	Wells Ranch AE30-63HNC	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

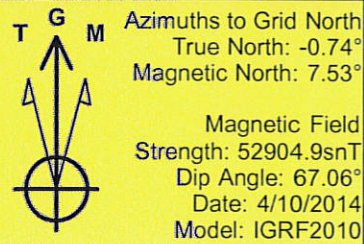
Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
623.0	623.0	-1.9	-3.6	First MWD
6,914.0	6,564.8	168.8	-718.4	Actual 7" Csg @ 6914' MD / 6564' TVD / 1238' FSL & 656' FEL Sec 30
11,937.0	6,631.1	121.2	-5,731.0	Last MWD
12,007.0	6,627.7	121.5	-5,800.9	PTD @ 12007' MD / 6628' TVD / 1340' FSL & 384' FEL Sec 25

Checked By: _____	Approved By: _____	Date: _____
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Weld County, CO (NAD 83) Sec 29, T6N-R62W (Wells Ranch AE30 Pad) Wells Ranch AE30-63HNC H&P 277 Plan #3



SECTION DETAILS

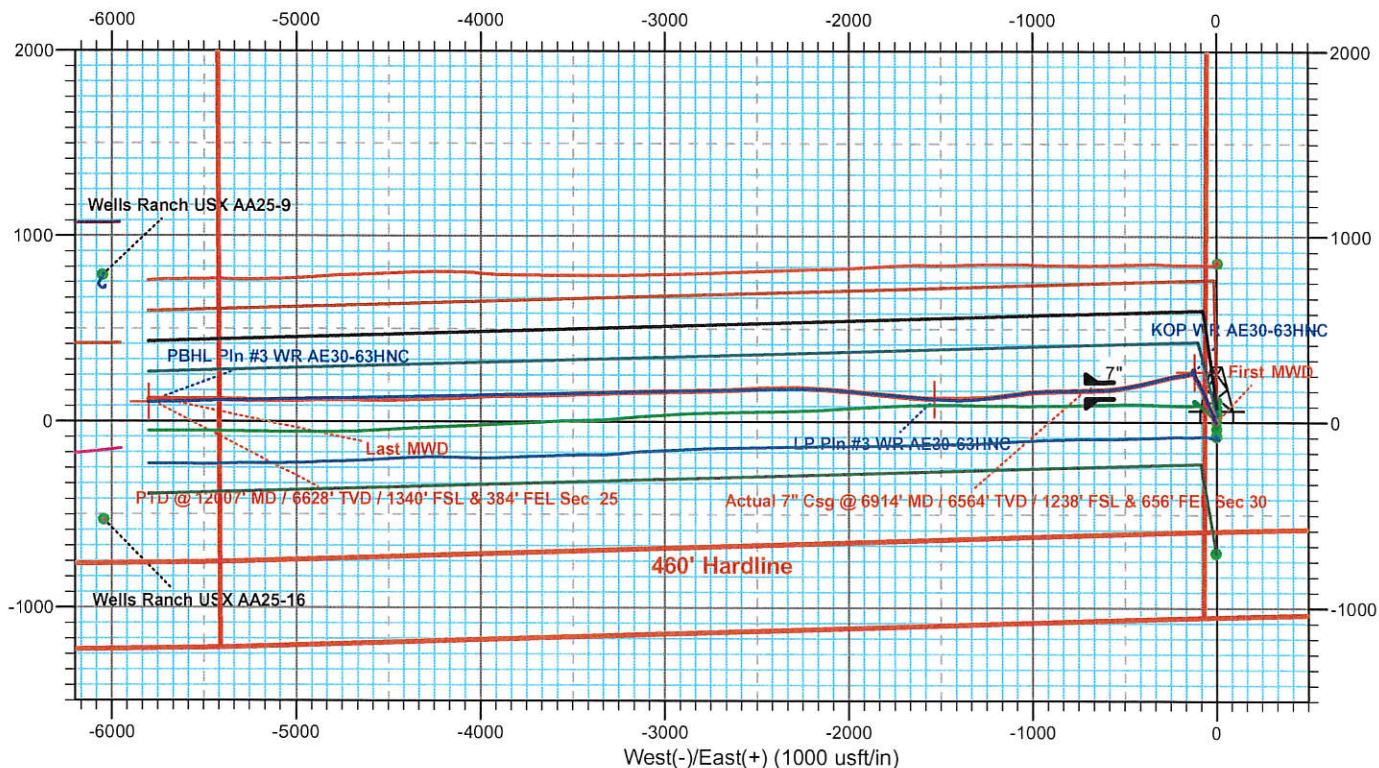
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
7303.0	81.75	261.28	6591.0	148.2	-1105.4	0.00	0.00	1107.9	
7373.0	80.72	260.53	6601.6	137.2	-1173.7	1.81	-144.32	1176.0	
7739.1	92.00	275.00	6625.0	123.3	-1537.3	5.00	52.66	1539.2	
8234.1	92.00	275.00	6607.7	166.4	-2030.1	0.00	0.00	2032.7	
8560.3	90.00	268.79	6602.0	177.2	-2355.9	2.00	-107.78	2358.7	
12006.6	90.00	268.79	6602.0	104.4	-5801.4	0.00	0.00	5802.3	PBHL Pln #3 WR AE30-63HNC

WELL DETAILS: Wells Ranch AE30-63HNC

		Ground Level: 4752.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1410026.65	3318292.56	40° 27' 11.844 N	104° 21' 22.428 W

SITE DETAILS: Sec 29, T6N-R62W (Wells Ranch AE30 Pad)

Site Centre Northing: 1410139.62
Easting: 3318293.89
Positional Uncertainty: 0.0
Convergence: 0.74
Local North: Grid

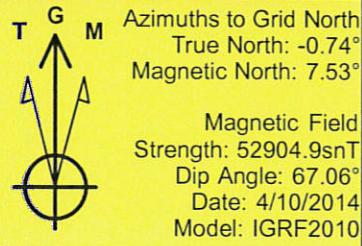


SHL @ 1048' FSL & 65' FWL Sec 29
Actual 7" Csg @ 1238' FSL & 656' FEL Sec 30
BHL @ 1340' FSL & 384' FEL Sec 25





Weld County, CO (NAD 83) Sec 29, T6N-R62W (Wells Ranch AE30 Pad) Wells Ranch AE30-63HNC H&P 277 Plan #3



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
7303.0	81.75	261.28	6591.0	148.2	-1105.4	0.00	0.00	1107.9	
7373.0	80.72	260.53	6601.6	137.2	-1173.7	1.81	-144.32	1176.0	
7739.1	92.00	275.00	6625.0	123.3	-1537.3	5.00	52.66	1539.2	
8234.1	92.00	275.00	6607.7	166.4	-2030.1	0.00	0.00	2032.7	
8560.3	90.00	268.79	6602.0	177.2	-2355.9	2.00	-107.78	2358.7	
12006.6	90.00	268.79	6602.0	104.4	-5801.4	0.00	0.00	5802.3	PBHL Pln #3 WR AE30-63HNC

WELL DETAILS: Wells Ranch AE30-63HNC

+N/-S	+E/-W	Ground Level:	4752.0
0.0	0.0	Northing	Easting
1410026.65	3318292.56	Latitude	Longitude
		40° 27' 11.844 N	104° 21' 22.428 W

SITE DETAILS: Sec 29, T6N-R62W (Wells Ranch AE30 Pad)

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