

HALLIBURTON

Sperry Drilling

END OF WELL REPORT

For

Anadarko Petroleum Corp.

Highway 160 37N-2HZ

Sec. 2-T1N-R66W

Weld County, CO

Job #900754407

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SPERRY-SUN DRILLING SERVICES


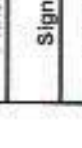
CERTIFIED SURVEY WORK SHEET

OPERATOR: Anadarko Petroleum Corp
 WELL: Hwy 160 37N-2H2
 FIELD: Wattenberg
 RIG: Ensign 132
 LEGALS: Sec 2-T1N-R66W
 COUNTY: Weld
 STATE: Colorado
 CAL. METHOD: Minimum Curvature
 MAG. DECL. APPLIED: 8.55
 VERTICAL SEC. DIR. : 179.780

SSDS Job Number : 900754407
 Start Date of Job : 30-Nov-13
 End Date of Job : 8-Dec-13
 Lead Directional Driller: Omar Dominguez
 Other SSDS DD's : Tim Thomas
 Dan Dietrich
 SSDS MWD Engineers : Matt Busche
 Aleksey Treskov
 Matt Henderson

Main Hole	1st Side Track	2nd Side Track	3rd Side Track	4th Side Track
	Tie On	Tie On	Tie On	Tie On
1138.00 Gyro				
1477.00 MWD				
6883.00 KOP	KOP-ST1	KOP-ST2	KOP-ST3	KOP-ST4
12435.00 MWD	MWD	MWD	MWD	MWD
12480.00 PTB	MWD	MWD	MWD	MWD
	T.D.	T.D.	T.D.	T.D.

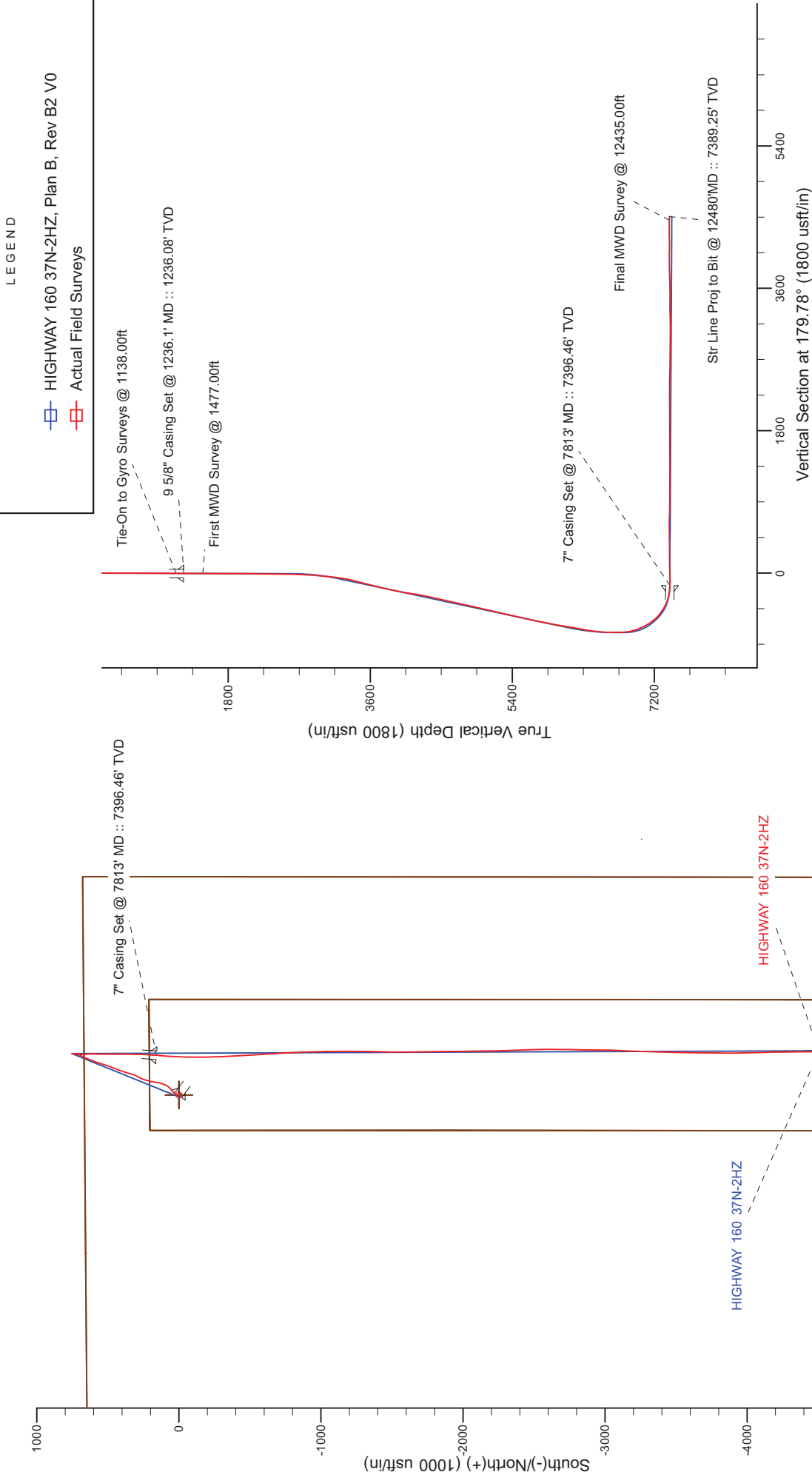
The following personnel listed below, certify the above survey information to be accurate to the their knowledge. :

Print Name : Omar Dominguez
 Sign Name : 
 Print Name : Matt Busche
 Sign Name : 

Print Name : Dan Dietrich
 Sign Name : 
 Print Name : Matt Henderson
 Sign Name : 

Examples of Survey Types:
 Tie On to Surface Casing (Assumed Vertical), Tie On to existing MWD Survey (prior drilled hole)
 Sperry Sun Drilling Services (SSDS) Measurement While Drilling (MWD) Survey's
 Sperry Sun Drilling Services (SSDS) Electronic Survey System (ESS) Survey's
 Gyro Survey's : Provided by third party vendor, or by Sperry Sun Drilling Services (SSDS)
 Single Shot (SS) Survey's : Provided by Sperry Sun Drilling Services (SSDS) or third party vendor.

Project: Weld County, CO (NAD 83)
Site: Sec. 2-T1N-R66W
Well: HIGHWAY 160 37N-2HZ
Wellbore: Plan B
Design: Actual Field Surveys



7" Casing: ~510.54' FNL, ~1253.98' FEL
Lat/Long: 40.085966 N, -104.739319 E
State Planes - CO Northern: 1,275,074.86' N, 3,212,836.43' E
Location: Sec. 2-T1N-R66W

BHL: ~2.41' FSL, ~1225.46' FEL
Lat/Long: 40.073162 N, -104.739232 E
State Planes - CO Northern: 1,270,411.15' N, 3,212,900.76' E
Location: Sec. 2-T1N-R66W

WELL DETAILS: HIGHWAY 160 37N-2HZ
Ground Level: 5102.00
RKB = 13' @ 5115.00usft (Ensign 132)
Design: Actual Field Surveys (HIGHWAY 160 37N-2HZ/Plan B)
Created By: Clint Eshelman
Reviewed: _____
Date: 12/9/2013

Anadarko Petroleum Corp.

Weld County, CO (NAD 83)

Sec. 2-T1N-R66W

HIGHWAY 160 37N-2HZ

Plan B

Design: Actual Field Surveys

Sperry Drilling Services

Standard Report

09 December, 2013

Well Coordinates: 1,274,914.19 N, 3,212,559.52 E (40° 05' 07.91" N, 104° 44' 25.13" W)

Ground Level: 5,102.00 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 HIGHWAY 160 37N-2HZ

RKB = 13' @ 5115.00usft (Ensign 132)

N

True

Dec-Deg - API - US Survey Feet - Custom

HALLIBURTON

Design Report for HIGHWAY 160 37N-2HZ - Actual Field Surveys

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13.00	0.00	0.00	13.00	0.00	0.00	0.00	0.00
113.00	0.39	352.17	113.00	0.34	-0.05	-0.34	0.39
213.00	0.44	337.94	213.00	1.03	-0.24	-1.03	0.11
313.00	0.34	347.83	312.99	1.68	-0.44	-1.68	0.12
413.00	0.28	32.09	412.99	2.17	-0.38	-2.17	0.24
513.00	0.55	35.21	512.99	2.77	0.03	-2.77	0.27
613.00	0.26	20.39	612.99	3.38	0.39	-3.38	0.31
713.00	0.25	9.70	712.99	3.80	0.50	-3.80	0.05
813.00	0.17	297.60	812.99	4.09	0.41	-4.09	0.26
913.00	0.28	292.47	912.99	4.25	0.05	-4.25	0.11
1,013.00	0.17	310.23	1,012.98	4.44	-0.29	-4.44	0.13
1,113.00	0.33	297.89	1,112.98	4.67	-0.66	-4.67	0.17
1,138.00	0.36	283.76	1,137.98	4.72	-0.80	-4.73	0.36
Tie-On to Gyro Surveys @ 1138.00ft							
1,236.10	0.18	306.64	1,236.08	4.89	-1.22	-4.89	0.21
9 5/8" Casing Set @ 1236.1' MD :: 1236.08' TVD							
1,477.00	0.39	64.84	1,476.98	5.47	-0.79	-5.47	0.21
First MWD Survey @ 1477.00ft							
1,572.00	0.42	66.74	1,571.98	5.74	-0.17	-5.74	0.03
1,666.00	0.53	33.59	1,665.97	6.24	0.38	-6.24	0.31
1,760.00	0.49	18.33	1,759.97	6.98	0.75	-6.98	0.15
1,855.00	0.52	22.64	1,854.97	7.77	1.04	-7.76	0.05
1,949.00	0.40	20.72	1,948.96	8.47	1.32	-8.46	0.13
2,043.00	0.52	4.08	2,042.96	9.20	1.47	-9.19	0.19
2,138.00	0.43	34.14	2,137.96	9.93	1.70	-9.92	0.27
2,232.00	0.63	9.29	2,231.95	10.73	1.98	-10.72	0.32
2,358.00	0.74	346.30	2,357.95	12.20	1.90	-12.19	0.23
2,420.00	0.52	348.03	2,419.94	12.87	1.75	-12.86	0.36
2,514.00	0.39	8.87	2,513.94	13.60	1.71	-13.59	0.22
2,608.00	1.73	24.15	2,607.92	15.21	2.34	-15.20	1.44
2,702.00	2.31	30.28	2,701.86	18.14	3.87	-18.13	0.66
2,796.00	4.35	33.15	2,795.70	22.76	6.78	-22.74	2.18
2,890.00	5.43	29.36	2,889.36	29.62	10.91	-29.58	1.20
2,984.00	6.62	47.24	2,982.84	37.18	17.07	-37.11	2.35
3,078.00	8.44	49.99	3,076.03	45.29	26.33	-45.19	1.97
3,173.00	10.95	50.43	3,169.66	55.52	38.63	-55.38	2.64
3,268.00	12.94	43.37	3,262.61	69.01	52.89	-68.80	2.60
3,363.00	16.22	28.77	3,354.57	88.38	66.59	-88.12	5.16
3,458.00	15.37	17.71	3,446.00	112.01	76.81	-111.71	3.29
3,553.00	13.69	14.56	3,537.96	134.89	83.46	-134.56	1.95
3,649.00	14.63	9.96	3,631.04	157.82	88.42	-157.48	1.53
3,744.00	13.11	5.69	3,723.27	180.36	91.56	-180.01	1.93
3,839.00	12.89	13.61	3,815.85	201.38	95.12	-201.02	1.89
3,934.00	12.44	18.72	3,908.54	221.37	100.90	-220.99	1.27
4,027.00	10.83	13.93	3,999.63	239.34	106.22	-238.93	2.02
4,122.00	10.30	23.49	4,093.02	255.80	111.75	-255.37	1.93
4,217.00	9.74	26.83	4,186.57	270.76	118.76	-270.30	0.85
4,313.00	12.38	27.37	4,280.78	287.15	127.16	-286.65	2.75
4,408.00	13.94	24.75	4,373.29	306.58	136.64	-306.06	1.76

Design Report for HIGHWAY 160 37N-2HZ - Actual Field Surveys

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
4,503.00	14.05	16.50	4,465.47	328.03	144.70	-327.48	2.10
4,598.00	12.45	14.12	4,557.94	349.02	150.48	-348.44	1.78
4,693.00	13.20	16.88	4,650.57	369.33	156.12	-368.73	1.02
4,788.00	12.74	17.13	4,743.15	389.72	162.36	-389.10	0.49
4,883.00	13.82	22.61	4,835.61	410.21	169.81	-409.55	1.74
4,979.00	14.28	22.02	4,928.74	431.77	178.65	-431.08	0.50
5,074.00	14.15	20.40	5,020.83	453.52	187.09	-452.79	0.44
5,169.00	12.86	18.37	5,113.20	474.43	194.47	-473.68	1.45
5,264.00	13.47	19.32	5,205.71	494.91	201.47	-494.13	0.68
5,359.00	14.37	19.32	5,297.92	516.47	209.03	-515.67	0.95
5,454.00	13.39	18.04	5,390.14	538.06	216.33	-537.22	1.08
5,549.00	12.91	16.95	5,482.65	558.67	222.84	-557.81	0.57
5,644.00	11.93	16.29	5,575.42	578.25	228.68	-577.36	1.04
5,740.00	12.79	22.38	5,669.20	597.60	235.51	-596.69	1.63
5,835.00	13.58	22.22	5,761.70	617.65	243.73	-616.71	0.83
5,930.00	12.20	21.06	5,854.30	637.34	251.56	-636.37	1.48
6,024.00	11.29	23.67	5,946.33	655.04	258.82	-654.04	1.12
6,119.00	11.37	24.79	6,039.48	672.06	266.48	-671.03	0.25
6,214.00	8.15	26.66	6,133.09	686.58	273.43	-685.52	3.41
6,309.00	11.87	25.45	6,226.63	701.42	280.66	-700.34	3.92
6,404.00	10.90	11.46	6,319.78	719.05	286.64	-717.95	3.07
6,499.00	7.62	5.96	6,413.53	734.12	289.08	-733.01	3.57
6,594.00	4.98	2.78	6,507.95	744.51	289.93	-743.39	2.80
6,690.00	0.99	8.82	6,603.80	749.49	290.26	-748.37	4.16
6,785.00	0.22	111.39	6,698.79	750.24	290.56	-749.12	1.12
6,880.00	0.40	195.26	6,793.79	749.85	290.64	-748.73	0.46
6,928.00	5.80	189.21	6,841.71	747.29	290.21	-746.17	11.25
6,975.00	12.14	188.16	6,888.11	740.05	289.13	-738.93	13.49
7,023.00	17.18	187.18	6,934.53	728.01	287.52	-726.90	10.51
7,070.00	19.98	186.27	6,979.08	713.14	285.78	-712.04	5.99
7,118.00	22.89	183.94	7,023.75	695.67	284.24	-694.58	6.32
7,165.00	26.39	177.96	7,066.47	676.11	283.98	-675.01	9.13
7,213.00	29.95	174.08	7,108.78	653.52	285.60	-652.42	8.34
7,260.00	34.96	178.41	7,148.44	628.37	287.18	-627.26	11.74
7,308.00	38.44	181.74	7,186.92	599.70	287.11	-598.59	8.35
7,355.00	43.27	181.24	7,222.46	568.97	286.32	-567.87	10.30
7,403.00	49.63	179.77	7,255.51	534.20	286.04	-533.10	13.43
7,450.00	54.16	179.67	7,284.51	497.23	286.22	-496.13	9.64
7,498.00	58.65	179.43	7,311.06	457.26	286.54	-456.15	9.36
7,546.00	63.92	179.81	7,334.12	415.18	286.81	-414.07	11.00
7,594.00	66.58	180.16	7,354.21	371.59	286.82	-370.49	5.58
7,641.00	73.05	181.44	7,370.42	327.51	286.20	-326.40	14.00
7,689.00	77.25	181.55	7,382.72	281.13	284.98	-280.04	8.75
7,736.00	82.80	183.03	7,390.86	234.90	283.13	-233.81	12.21
7,776.00	85.77	183.55	7,394.84	195.17	280.85	-194.09	7.54
7,813.00	89.22	184.37	7,396.46	158.30	278.29	-157.23	9.58
7" Casing Set @ 7813' MD :: 7396.46' TVD							
7,823.00	90.15	184.59	7,396.51	148.33	277.51	-147.26	9.58
7,873.00	89.82	184.17	7,396.53	98.48	273.69	-97.43	1.07
7,968.00	91.45	183.21	7,395.47	3.68	267.58	-2.66	1.99
8,063.00	91.79	180.65	7,392.79	-91.22	264.38	92.23	2.72

Design Report for HIGHWAY 160 37N-2HZ - Actual Field Surveys

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
8,158.00	89.78	177.76	7,391.48	-186.18	265.70	187.20	3.71
8,253.00	91.23	178.17	7,390.65	-281.12	269.07	282.15	1.59
8,348.00	90.37	176.63	7,389.32	-376.01	273.38	377.05	1.86
8,443.00	89.54	176.90	7,389.40	-470.85	278.74	471.92	0.92
8,538.00	91.76	177.13	7,388.32	-565.71	283.69	566.80	2.35
8,634.00	87.38	176.56	7,389.04	-661.54	288.97	662.64	4.60
8,729.00	88.98	177.21	7,392.06	-756.35	294.13	757.47	1.82
8,824.00	89.88	177.05	7,393.00	-851.22	298.89	852.36	0.96
8,919.00	89.54	178.33	7,393.48	-946.14	302.72	947.30	1.39
9,014.00	89.69	178.90	7,394.12	-1,041.11	305.01	1,042.28	0.62
9,109.00	89.60	179.84	7,394.71	-1,136.10	306.06	1,137.27	0.99
9,205.00	89.72	180.12	7,395.28	-1,232.10	306.09	1,233.27	0.32
9,300.00	90.15	180.91	7,395.39	-1,327.10	305.24	1,328.26	0.95
9,395.00	89.72	181.95	7,395.49	-1,422.07	302.87	1,423.22	1.18
9,490.00	89.97	180.20	7,395.75	-1,517.05	301.08	1,518.19	1.86
9,585.00	90.22	179.40	7,395.59	-1,612.04	301.42	1,613.19	0.88
9,681.00	90.22	179.31	7,395.22	-1,708.04	302.50	1,709.19	0.09
9,776.00	91.51	179.33	7,393.79	-1,803.02	303.62	1,804.17	1.36
9,871.00	90.77	178.97	7,391.90	-1,897.99	305.03	1,899.14	0.87
9,966.00	90.09	179.49	7,391.19	-1,992.98	306.31	1,994.14	0.90
10,061.00	88.83	179.33	7,392.08	-2,087.96	307.29	2,089.13	1.34
10,156.00	89.91	179.02	7,393.13	-2,182.95	308.66	2,184.12	1.18
10,251.00	90.86	178.42	7,392.49	-2,277.92	310.78	2,279.10	1.18
10,347.00	90.18	178.08	7,391.62	-2,373.87	313.71	2,375.06	0.79
10,442.00	87.75	177.74	7,393.33	-2,468.78	317.17	2,469.98	2.58
10,537.00	87.66	179.33	7,397.14	-2,563.67	319.60	2,564.88	1.68
10,632.00	90.71	180.48	7,398.49	-2,658.65	319.76	2,659.86	3.43
10,727.00	89.85	181.22	7,398.02	-2,753.64	318.35	2,754.84	1.19
10,822.00	89.32	180.89	7,398.71	-2,848.62	316.60	2,849.81	0.66
10,918.00	89.04	180.19	7,400.09	-2,944.60	315.69	2,945.79	0.79
11,013.00	89.69	181.80	7,401.14	-3,039.58	314.04	3,040.76	1.83
11,108.00	91.08	182.68	7,400.50	-3,134.50	310.33	3,135.67	1.73
11,203.00	90.83	182.47	7,398.92	-3,229.39	306.06	3,230.54	0.34
11,298.00	90.40	181.66	7,397.90	-3,324.33	302.64	3,325.46	0.97
11,393.00	90.22	181.48	7,397.38	-3,419.29	300.04	3,420.41	0.27
11,488.00	90.15	180.89	7,397.08	-3,514.27	298.07	3,515.39	0.63
11,583.00	89.82	180.78	7,397.10	-3,609.26	296.69	3,610.37	0.37
11,679.00	91.51	180.83	7,395.99	-3,705.24	295.34	3,706.34	1.76
11,774.00	92.74	180.03	7,392.47	-3,800.17	294.63	3,801.27	1.54
11,869.00	91.23	180.58	7,389.17	-3,895.11	294.12	3,896.21	1.69
11,964.00	89.01	178.69	7,388.98	-3,990.09	294.73	3,991.19	3.07
12,091.00	90.15	177.88	7,389.91	-4,117.03	298.53	4,118.15	1.10
12,154.00	90.80	178.88	7,389.38	-4,180.00	300.31	4,181.12	1.89
12,249.00	89.44	179.21	7,389.19	-4,274.98	301.89	4,276.11	1.47
12,344.00	90.55	179.78	7,389.19	-4,369.98	302.73	4,371.11	1.31
12,435.00	89.69	180.15	7,389.00	-4,460.98	302.79	4,462.11	1.03
Final MWD Survey @ 12435.00ft							
12,480.00	89.69	180.15	7,389.25	-4,505.98	302.67	4,507.11	0.00
Str Line Proj to Bit @ 12480'MD :: 7389.25' TVD							

Design Report for HIGHWAY 160 37N-2HZ - Actual Field Surveys

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,138.00	1,137.98	4.72	-0.80	Tie-On to Gyro Surveys @ 1138.00ft
1,477.00	1,476.98	5.47	-0.79	First MWD Survey @ 1477.00ft
12,435.00	7,389.00	-4,460.98	302.79	Final MWD Survey @ 12435.00ft
12,480.00	7,389.25	-4,505.98	302.67	Str Line Proj to Bit @ 12480'MD :: 7389.25' TVD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	Origin +E/-W (usft)	Start TVD (usft)
User	No Target (Freehand)	179.78	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
13.00	1,138.00	MS Energy Gyros	NS-GYRO-MS
1,477.00	7,823.00	MWD Vertical/Build Surveys	MWD+IFR1+SC
7,873.00	12,435.00	MWD Lateral Surveys	MWD+IFR1+SC

Casing Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,236.10	1,236.08	9 5/8" Casing Set @ 1236.1' MD :: 1236.08' TVD	9-5/8	13-1/2
7,813.00	7,396.46	7" Casing Set @ 7813' MD :: 7396.46' TVD	7	8-3/4

Design Report for HIGHWAY 160 37N-2HZ - Actual Field Surveys**Wellbore Targets**

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
HIGHWAY 160 37N-2H - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	1,274,914.20	3,212,559.52	40.085531	-104.740313
HIGHWAY 160 37N-2H - actual wellpath hits target center - Polygon	0.00	0.00	0.00	0.00	0.00	1,274,914.20	3,212,559.52	40.085531	-104.740313
Point 1				0.00	636.98	-3,753.90	1,275,518.97	3,208,800.44	
Point 2				0.00	657.91	-1,110.68	1,275,562.54	3,211,443.29	
Point 3				0.00	678.77	1,532.39	1,275,606.04	3,214,085.98	
Point 4				0.00	-1,893.37	1,532.00	1,273,034.09	3,214,107.62	
Point 5				0.00	-3,202.37	1,530.22	1,271,725.18	3,214,117.05	
Point 6				0.00	-4,510.76	1,528.17	1,270,416.87	3,214,126.21	
Point 7				0.00	-4,508.41	208.53	1,270,407.91	3,212,806.65	
Point 8				0.00	-4,505.66	-1,110.91	1,270,399.36	3,211,487.29	
Point 9				0.00	-4,503.19	-2,430.37	1,270,390.53	3,210,167.91	
Point 10				0.00	-4,500.60	-3,749.72	1,270,381.81	3,208,848.64	
Point 11				0.00	-1,895.37	-3,734.42	1,272,986.98	3,208,841.62	
Point 12				0.00	636.98	-3,753.90	1,275,518.97	3,208,800.44	
HIGHWAY 160 37N-2H - actual wellpath hits target center - Polygon	0.00	0.00	0.00	0.00	0.00	1,274,914.20	3,212,559.52	40.085531	-104.740313
Point 1				0.00	204.67	-249.10	1,275,116.72	3,212,308.68	
Point 2				0.00	211.94	670.94	1,275,131.87	3,213,228.59	
Point 3				0.00	-3,201.65	669.10	1,271,718.52	3,213,255.99	
Point 4				0.00	-4,969.25	667.05	1,269,951.04	3,213,269.09	
Point 5				0.00	-4,967.47	-252.98	1,269,944.94	3,212,349.11	
Point 6				0.00	-1,894.20	-248.83	1,273,018.01	3,212,326.93	
Point 7				0.00	204.67	-249.10	1,275,116.72	3,212,308.68	
HIGHWAY 160 37N-2H - actual wellpath misses target center by 31.66usft at 12480.00usft MD (7389.25 TVD, -4505.98 N, 302.67 E) - Point	0.00	0.00	7,420.00	-4,507.37	310.07	1,270,409.82	3,212,908.18	40.073158	-104.739205

Directional Difficulty Index

Average Dogleg over Survey:	1.95 °/100usft	Maximum Dogleg over Survey:	14.00 °/100usft at 7,641.00 usft
Net Tortousity applicable to Plans:	0.49 °/100usft	Directional Difficulty Index:	6.397

Audit Info

North Reference Sheet for Sec. 2-T1N-R66W - HIGHWAY 160 37N-2HZ - 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 RKB = 13' @ 5115.00usft (Ensign 132). Northing and Easting are relative to HIGHWAY 160 37N-2HZ

Coordinate System is US State Plane 1983, Colorado Northern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -105.500000°, Longitude Origin:0.000000°, Latitude Origin:40.783333°

False Easting: 3,000,000.00usft, False Northing: 1,000,000.00usft, Scale Reduction: 0.99996098

Grid Coordinates of Well: 1,274,914.19 usft N, 3,212,559.52 usft E

Geographical Coordinates of Well: 40° 05' 07.91" N, 104° 44' 25.13" W

Grid Convergence at Surface is: 0.49°

Based upon Minimum Curvature type calculations, at a Measured Depth of 12,480.00usft
the Bottom Hole Displacement is 4,516.13usft in the Direction of 176.16° (True).

Magnetic Convergence at surface is: -8.05° (14 October 2013, , BGGM2013)

