

Bayswater

**Weld County, CO (NAD 83)
Sec. 26-T7N-R65W-6th P.M.
Booth J-26H**

PAD 9 Permit Plan

Plan: Plan A Rev 2 Proposal - Permit Only

Standard Survey Report

28 March, 2014

Project: Weld County, CO (NAD 83)
 Site: Sec. 26-T7N-R65W-6th P.M.
 Well: Booth J-26H
 Wellbore: PAD 9 Permit Plan
 Design: Plan A Rev 2 Proposal - Permit Only

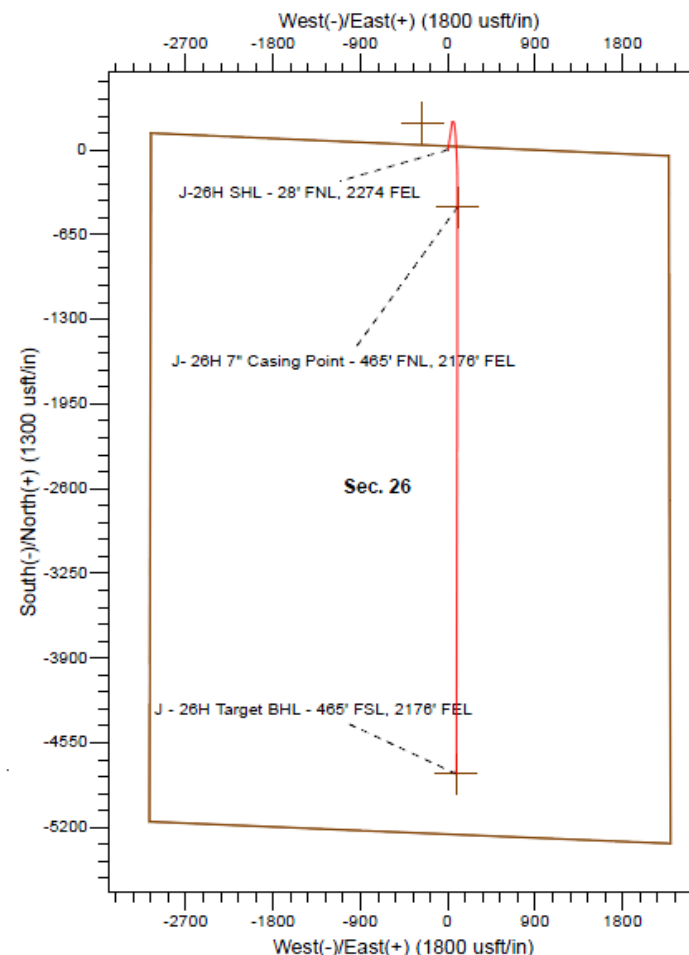
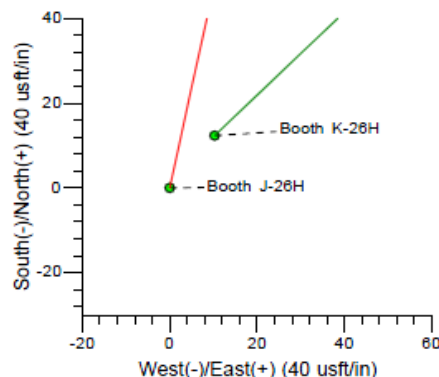
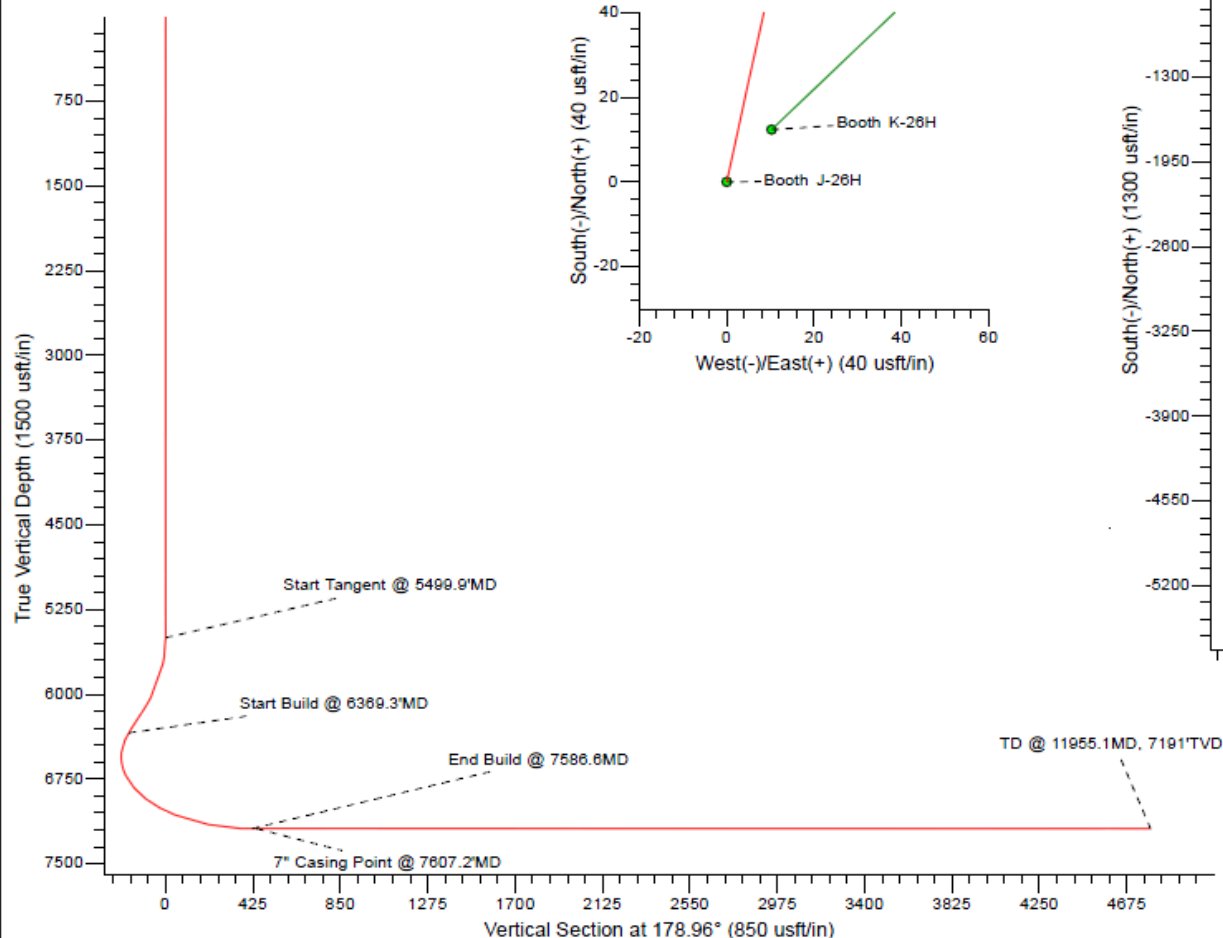
Bayswater

HALLIBURTON

Sperry Drilling

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	5499.9	0.00	0.00	5499.9	0.0	0.0	0.00	0.00	0.0		Start Tangent @ 5499.9MD
3	6166.6	2000	1195	6153.1	112.7	238	3.00	1195	-112.1		
4	6369.3	2000	1195	6343.6	180.5	382	0.00	0.00	-179.5		Start Build @ 6369.3MD
5	7586.6	9000	180.16	7191.0	-419.5	995	9.00	167.48	421.9		End Build @ 7586.6MD
6	7607.2	9000	180.16	7191.0	-440.1	995	0.00	0.00	442.4	J- 26H 7" Casing Point Rev1	7" Casing Point @ 7607.2MD
7	7627.4	9000	179.76	7191.0	-460.3	995	2.00	-90.00	462.7		
8	11955.1	9000	179.76	7191.0	-4788.0	118.0	0.00	0.00	4789.5	J- 26H Target BHL Rev2	TD @ 11955.1MD, 7191.1TVD



WELL DETAILS: Booth J-26H			
Ground Level: 4898.0			
Northing	Easting	Latitude	Longitude
1444999.83	3242105.13	40° 33' 5.972 N	104° 37' 43.504 W

REFERENCE INFORMATION	
Co-ordinate (N/E)	Reference: Well Booth J-26H, True North
Vertical (TVD)	Reference: WELL RKB 16' @ 4912.0usft (Original Well Elev)
Section (VS)	Reference: Slot - (0.0N, 0.0E)
Measured Depth	Reference: WELL RKB 16' @ 4912.0usft (Original Well Elev)
Calculation Method	Minimum Curvature

Survey Report

Company:	Bayswater	Local Co-ordinate Reference:	Well Booth J-26H
Project:	Weld County,CO (NAD 83)	TVD Reference:	WELL RKB 16' @ 4912.0usft (Original Well Elev)
Site:	Sec. 26-T7N-R65W-6th P.M.	MD Reference:	WELL RKB 16' @ 4912.0usft (Original Well Elev)
Well:	Booth J-26H	North Reference:	True
Wellbore:	PAD 9 Permit Plan	Survey Calculation Method:	Minimum Curvature
Design:	Plan A Rev 2 Proposal - Permit Only	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. 26-T7N-R65W-6th P.M.			
Site Position:		Northing:	1,445,201.82 usft	Latitude:	40° 33' 7.996 N
From:	Lat/Long	Easting:	3,241,841.92 usft	Longitude:	104° 37' 46.888 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.56 °

Well	Booth J-26H					
Well Position	+N/-S	0.0 usft	Northing:	1,444,999.64 usft	Latitude:	40° 33' 5.972 N
	+E/-W	0.0 usft	Easting:	3,242,105.14 usft	Longitude:	104° 37' 43.504 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	4,896.0 usft

Wellbore	PAD 9 Permit Plan				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	12/9/2013	8.50	67.10	52,889

Design	Plan A Rev 2 Proposal - Permit Only				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	7,103.0	0.0	0.0	178.59	

Survey Tool Program	Date	3/28/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,955.1	Plan A Rev 2 Proposal - Permit Only (PAD	MWD	Fixed:v2:standard declination	

Planned 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	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	

Survey Report

Company:	Bayswater	Local Co-ordinate Reference:	Well Booth J-26H
Project:	Weld County,CO (NAD 83)	TVD Reference:	WELL RKB 16' @ 4912.0usft (Original Well Elev)
Site:	Sec. 26-T7N-R65W-6th P.M.	MD Reference:	WELL RKB 16' @ 4912.0usft (Original Well Elev)
Well:	Booth J-26H	North Reference:	True
Wellbore:	PAD 9 Permit Plan	Survey Calculation Method:	Minimum Curvature
Design:	Plan A Rev 2 Proposal - Permit Only	Database:	EDM 5000.1 Single User Db

Planned 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)
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Survey Report

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5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,499.9	0.00	0.00	5,499.9	0.0	0.0	0.0	0.00	0.00	0.00
Start Tangent @ 5499.9'MD									
5,500.0	0.00	11.95	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	3.00	11.95	5,600.0	2.6	0.5	-2.6	3.00	3.00	0.00
5,700.0	6.00	11.95	5,699.6	10.2	2.2	-10.2	3.00	3.00	0.00
5,800.0	9.00	11.95	5,798.8	23.0	4.9	-22.9	3.00	3.00	0.00
5,900.0	12.00	11.95	5,897.1	40.8	8.6	-40.6	3.00	3.00	0.00
6,000.0	15.00	11.95	5,994.3	63.7	13.5	-63.3	3.00	3.00	0.00
6,100.0	18.00	11.95	6,090.2	91.5	19.4	-91.0	3.00	3.00	0.00
6,166.6	20.00	11.95	6,153.1	112.7	23.8	-112.1	3.00	3.00	0.00
6,200.0	20.00	11.95	6,184.5	123.9	26.2	-123.2	0.00	0.00	0.00
6,300.0	20.00	11.95	6,278.5	157.3	33.3	-156.5	0.00	0.00	0.00
6,369.3	20.00	11.95	6,343.6	180.5	38.2	-179.5	0.00	0.00	0.00
Start Build @ 6369.3'MD									
6,400.0	17.31	13.96	6,372.7	190.1	40.4	-189.0	9.00	-8.75	6.56
6,500.0	8.88	28.60	6,470.0	211.3	47.7	-210.1	9.00	-8.44	14.64
6,600.0	4.42	105.96	6,569.5	217.1	55.1	-215.6	9.00	-4.46	77.36
6,700.0	11.04	157.77	6,668.6	207.1	62.4	-205.5	9.00	6.63	51.80
6,800.0	19.65	168.14	6,765.0	181.7	69.5	-180.0	9.00	8.61	10.37
6,900.0	28.50	172.29	6,856.2	141.6	76.2	-139.7	9.00	8.84	4.15
7,000.0	37.41	174.58	6,940.0	87.6	82.3	-85.5	9.00	8.91	2.29
7,100.0	46.35	176.09	7,014.4	21.1	87.6	-18.9	9.00	8.94	1.51
7,200.0	55.31	177.21	7,077.5	-56.2	92.1	58.5	9.00	8.96	1.12
7,300.0	64.28	178.11	7,127.8	-142.5	95.6	144.8	9.00	8.97	0.90
7,400.0	73.25	178.88	7,164.0	-235.6	98.0	237.9	9.00	8.97	0.77
7,500.0	82.22	179.58	7,185.2	-333.2	99.3	335.5	9.00	8.97	0.70
7,586.6	90.00	180.16	7,191.0	-419.5	99.5	421.8	9.00	8.98	0.67
End Build @ 7586.6MD									
7,600.0	90.00	180.16	7,191.0	-432.9	99.5	435.2	0.03	0.03	0.00
7,607.2	90.00	180.16	7,191.0	-440.1	99.5	442.4	0.00	0.00	0.00
7" Casing Point @ 7607.2'MD									
7,627.4	90.00	179.76	7,191.0	-460.3	99.5	462.7	2.00	0.00	-2.00
7,700.0	90.00	179.76	7,191.0	-532.9	99.8	535.2	0.00	0.00	0.00
7,800.0	90.00	179.76	7,191.0	-632.9	100.2	635.2	0.00	0.00	0.00
7,900.0	90.00	179.76	7,191.0	-732.9	100.7	735.2	0.00	0.00	0.00
8,000.0	90.00	179.76	7,191.0	-832.9	101.1	835.1	0.00	0.00	0.00
8,100.0	90.00	179.76	7,191.0	-932.9	101.5	935.1	0.00	0.00	0.00
8,200.0	90.00	179.76	7,191.0	-1,032.9	101.9	1,035.1	0.00	0.00	0.00
8,300.0	90.00	179.76	7,191.0	-1,132.9	102.4	1,135.1	0.00	0.00	0.00
8,400.0	90.00	179.76	7,191.0	-1,232.9	102.8	1,235.1	0.00	0.00	0.00
8,500.0	90.00	179.76	7,191.0	-1,332.9	103.2	1,335.0	0.00	0.00	0.00
8,600.0	90.00	179.76	7,191.0	-1,432.9	103.7	1,435.0	0.00	0.00	0.00
8,700.0	90.00	179.76	7,191.0	-1,532.9	104.1	1,535.0	0.00	0.00	0.00

Survey Report

Company:	Bayswater	Local Co-ordinate Reference:	Well Booth J-26H
Project:	Weld County,CO (NAD 83)	TVD Reference:	WELL RKB 16' @ 4912.0usft (Original Well Elev)
Site:	Sec. 26-T7N-R65W-6th P.M.	MD Reference:	WELL RKB 16' @ 4912.0usft (Original Well Elev)
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Wellbore:	PAD 9 Permit Plan	Survey Calculation Method:	Minimum Curvature
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Planned 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)
8,800.0	90.00	179.76	7,191.0	-1,632.9	104.5	1,635.0	0.00	0.00	0.00
8,900.0	90.00	179.76	7,191.0	-1,732.9	104.9	1,734.9	0.00	0.00	0.00
9,000.0	90.00	179.76	7,191.0	-1,832.9	105.4	1,834.9	0.00	0.00	0.00
9,100.0	90.00	179.76	7,191.0	-1,932.9	105.8	1,934.9	0.00	0.00	0.00
9,200.0	90.00	179.76	7,191.0	-2,032.9	106.2	2,034.9	0.00	0.00	0.00
9,300.0	90.00	179.76	7,191.0	-2,132.9	106.7	2,134.9	0.00	0.00	0.00
9,400.0	90.00	179.76	7,191.0	-2,232.9	107.1	2,234.8	0.00	0.00	0.00
9,500.0	90.00	179.76	7,191.0	-2,332.9	107.5	2,334.8	0.00	0.00	0.00
9,600.0	90.00	179.76	7,191.0	-2,432.9	107.9	2,434.8	0.00	0.00	0.00
9,700.0	90.00	179.76	7,191.0	-2,532.9	108.4	2,534.8	0.00	0.00	0.00
9,800.0	90.00	179.76	7,191.0	-2,632.9	108.8	2,634.8	0.00	0.00	0.00
9,900.0	90.00	179.76	7,191.0	-2,732.9	109.2	2,734.7	0.00	0.00	0.00
10,000.0	90.00	179.76	7,191.0	-2,832.9	109.6	2,834.7	0.00	0.00	0.00
10,100.0	90.00	179.76	7,191.0	-2,932.9	110.1	2,934.7	0.00	0.00	0.00
10,200.0	90.00	179.76	7,191.0	-3,032.9	110.5	3,034.7	0.00	0.00	0.00
10,300.0	90.00	179.76	7,191.0	-3,132.9	110.9	3,134.7	0.00	0.00	0.00
10,400.0	90.00	179.76	7,191.0	-3,232.9	111.4	3,234.6	0.00	0.00	0.00
10,500.0	90.00	179.76	7,191.0	-3,332.9	111.8	3,334.6	0.00	0.00	0.00
10,600.0	90.00	179.76	7,191.0	-3,432.9	112.2	3,434.6	0.00	0.00	0.00
10,700.0	90.00	179.76	7,191.0	-3,532.9	112.6	3,534.6	0.00	0.00	0.00
10,800.0	90.00	179.76	7,191.0	-3,632.9	113.1	3,634.6	0.00	0.00	0.00
10,900.0	90.00	179.76	7,191.0	-3,732.9	113.5	3,734.5	0.00	0.00	0.00
11,000.0	90.00	179.76	7,191.0	-3,832.9	113.9	3,834.5	0.00	0.00	0.00
11,100.0	90.00	179.76	7,191.0	-3,932.9	114.3	3,934.5	0.00	0.00	0.00
11,200.0	90.00	179.76	7,191.0	-4,032.9	114.8	4,034.5	0.00	0.00	0.00
11,300.0	90.00	179.76	7,191.0	-4,132.9	115.2	4,134.4	0.00	0.00	0.00
11,400.0	90.00	179.76	7,191.0	-4,232.9	115.6	4,234.4	0.00	0.00	0.00
11,500.0	90.00	179.76	7,191.0	-4,332.9	116.1	4,334.4	0.00	0.00	0.00
11,600.0	90.00	179.76	7,191.0	-4,432.9	116.5	4,434.4	0.00	0.00	0.00
11,700.0	90.00	179.76	7,191.0	-4,532.9	116.9	4,534.4	0.00	0.00	0.00
11,800.0	90.00	179.76	7,191.0	-4,632.9	117.3	4,634.3	0.00	0.00	0.00
11,900.0	90.00	179.76	7,191.0	-4,732.9	117.8	4,734.3	0.00	0.00	0.00
11,955.1	90.00	179.76	7,191.0	-4,788.0	118.0	4,789.4	0.00	0.00	0.00
TD @ 11955.1'MD, 7191'TVD									

Survey Report

Company:	Bayswater	Local Co-ordinate Reference:	Well Booth J-26H
Project:	Weld County, CO (NAD 83)	TVD Reference:	WELL RKB 16' @ 4912.0usft (Original Well Elev)
Site:	Sec. 26-T7N-R65W-6th P.M.	MD Reference:	WELL RKB 16' @ 4912.0usft (Original Well Elev)
Well:	Booth J-26H	North Reference:	True
Wellbore:	PAD 9 Permit Plan	Survey Calculation Method:	Minimum Curvature
Design:	Plan A Rev 2 Proposal - Permit Only	Database:	EDM 5000.1 Single User Db

Design 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
Section Lines #26 Rev 2 - plan misses target center by 331.9usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E) - Polygon	0.00	0.00	0.0	204.8	-261.2	1,445,201.82	3,241,841.92	40° 33' 7.996 N	104° 37' 46.888 W
Point 1		0.0	-76.8	-2,797.6		1,445,097.54	3,239,045.21		
Point 2		0.0	-250.2	2,535.8		1,444,976.54	3,244,380.06		
Point 3		0.0	-2,889.3	2,545.3		1,442,337.67	3,244,415.49		
Point 4		0.0	-5,528.4	2,554.9		1,439,698.79	3,244,451.02		
Point 5		0.0	-5,444.7	-128.9		1,439,756.11	3,241,766.52		
Point 6		0.0	-5,360.9	-2,812.8		1,439,813.54	3,239,081.93		
Point 7		0.0	-76.8	-2,797.6		1,445,097.54	3,239,045.21		
J - 26H Target BHL Rev2 - plan misses target center by 88.0usft at 11955.1usft MD (7191.0 TVD, -4788.0 N, 118.0 E) - Point	0.00	0.00	7,103.0	-4,788.0	118.0	1,440,213.03	3,242,270.17	40° 32' 18.659 N	104° 37' 41.975 W
J- 26H 7" Casing Point F - plan misses target center by 72.0usft at 7607.2usft MD (7191.0 TVD, -440.1 N, 99.5 E) - Point	0.00	0.00	7,119.0	-440.1	99.5	1,444,560.57	3,242,208.94	40° 33' 1.624 N	104° 37' 42.215 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5500	5500	0	0	Start Tangent @ 5499.9'MD
6369	6344	181	38	Start Build @ 6369.3'MD
7587	7191	-419	100	End Build @ 7586.6MD
7607	7191	-440	99	7" Casing Point @ 7607.2'MD
11,955	7191	-4788	118	TD @ 11955.1'MD, 7191'TVD

Checked By: _____ Approved By: _____ Date: _____