



Pad Name: Groves Farm 34-L Pad
Well Name: GROVES FARM P-34-33HN
Ground Level: 4844.0
SHL Latitude: 40° 31' 48.687 N
SHL Longitude: 104° 38' 34.544 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	2599.4	21.99	116.72	2572.6	-93.7	186.1	2.00	116.72	-180.9	
4	5402.1	21.99	116.72	5171.5	-565.4	1123.5	0.00	0.00	-1091.8	
5	6501.5	0.00	270.80	6244.1	-659.1	1309.6	2.00	180.00	-1272.7	
6	6701.5	0.00	270.80	6444.1	-659.1	1309.6	0.00	0.00	-1272.7	
7	7605.7	90.42	270.80	7017.0	-651.0	732.5	10.00	0.00	-696.8	GF P-34-33HN LP
8	12607.5	90.36	272.67	6983.0	-499.3	-4266.7	0.04	91.78	4287.2	
9	12747.4	90.45	269.88	6982.0	-496.2	-4406.6	2.00	-88.20	4426.7	GF P-34-33HN VP
10	17867.7	90.45	269.88	6942.0	-507.1	-9526.7	0.00	0.00	9540.2	GF P-34-33HN PBHL

DESIGN TARGET DETAILS

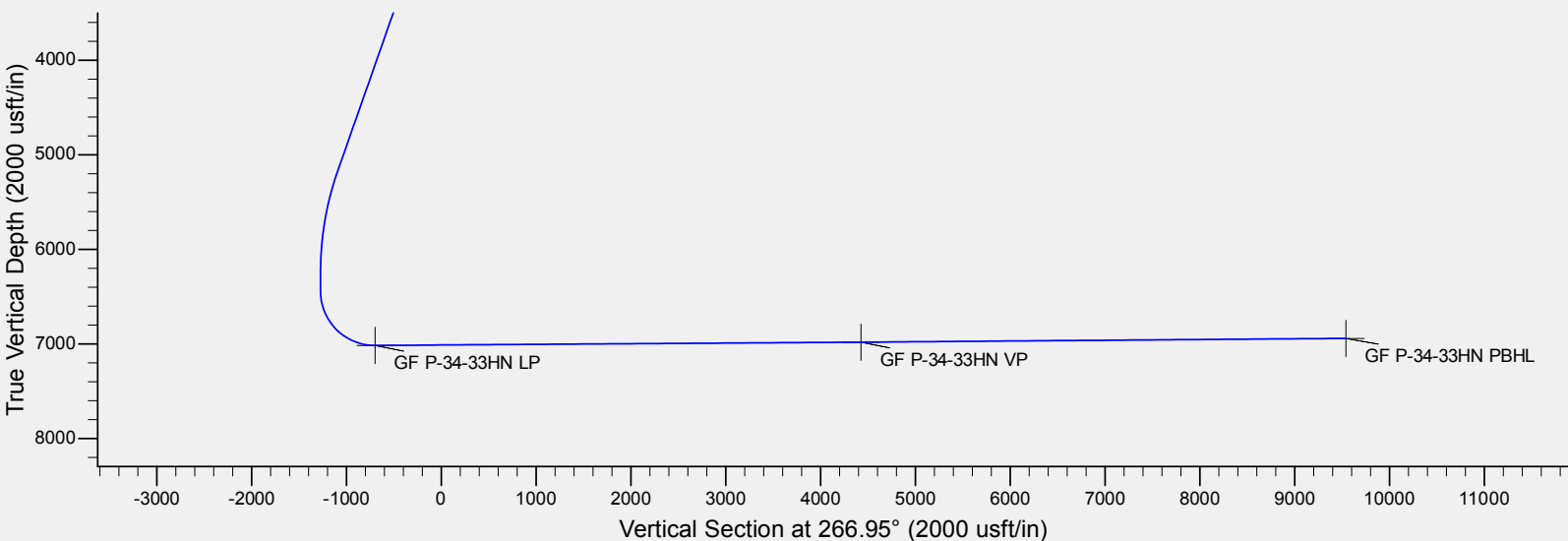
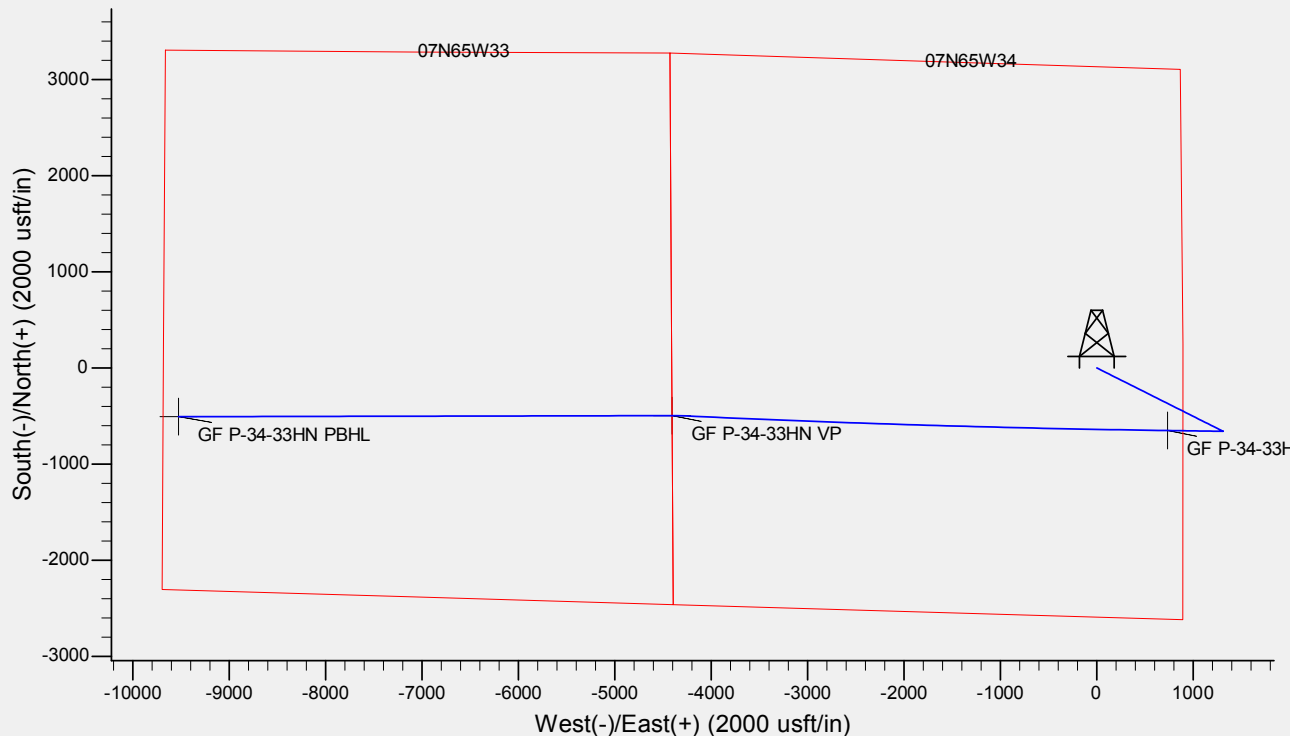
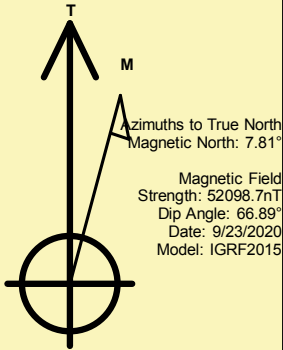
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
GF P-34-33HN LP	7017.0	-651.0	732.5	1436496.73	3238979.77	40° 31' 42.254 N	104° 38' 25.058 W	Point
GF P-34-33HN VP	- plan hits target center 6982.0	-496.2	-4406.6	1436601.91	3233839.47	40° 31' 43.781 N	104° 39' 31.612 W	Point
GF P-34-33HN PBHL	- plan hits target center 6942.0	-507.1	-9526.7	1436541.48	3228719.68	40° 31' 43.658 N	104° 40' 37.920 W	Point

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GROVES FARM P-34-33HN, True North
Vertical (TVD) Reference: KB @ 4867.0usft (Original Well Elev)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: KB @ 4867.0usft (Original Well Elev)
Calculation Method: Minimum Curvature

CASING DETAILS

No casing data is available





BAYSWATER

Bayswater Exploration & Production, LLC

DJ Basin

Groves Farm 34-L Pad

GROVES FARM P-34-33HN

Wellbore #1

Plan: Design #1

Standard Planning Report

26 September, 2020



Database:	EDM	Local Co-ordinate Reference:	Well GROVES FARM P-34-33HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	KB @ 4867.0usft (Original Well Elev)
Project:	DJ Basin	MD Reference:	KB @ 4867.0usft (Original Well Elev)
Site:	Groves Farm 34-L Pad	North Reference:	True
Well:	GROVES FARM P-34-33HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	DJ Basin, DJ Basin		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Groves Farm 34-L Pad				
Site Position:		Northing:	1,437,185.82 usft	Latitude:	40° 31' 49.134 N
From:	Lat/Long	Easting:	3,238,241.98 usft	Longitude:	104° 38' 34.526 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.55 °

Well	GROVES FARM P-34-33HN					
Well Position	+N/-S	-45.2 usft	Northing:	1,437,140.63 usft	Latitude:	40° 31' 48.687 N
	+E/-W	-1.4 usft	Easting:	3,238,241.03 usft	Longitude:	104° 38' 34.544 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	4,844.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/23/2020	7.81	66.89	52,098.74794843

Design	Design #1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	266.95	

Plan Survey Tool Program	Date	9/24/2020			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	17,867.7	Design #1 (Wellbore #1)	MWD	
				OWSG MWD - Standard	



Database:	EDM	Local Co-ordinate Reference:	Well GROVES FARM P-34-33HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	KB @ 4867.0usft (Original Well Elev)
Project:	DJ Basin	MD Reference:	KB @ 4867.0usft (Original Well Elev)
Site:	Groves Farm 34-L Pad	North Reference:	True
Well:	GROVES FARM P-34-33HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,599.4	21.99	116.72	2,572.6	-93.7	186.1	2.00	2.00	0.00	116.72	
5,402.1	21.99	116.72	5,171.5	-565.4	1,123.5	0.00	0.00	0.00	0.00	
6,501.5	0.00	270.80	6,244.1	-659.1	1,309.6	2.00	-2.00	0.00	180.00	
6,701.5	0.00	270.80	6,444.1	-659.1	1,309.6	0.00	0.00	0.00	0.00	
7,605.7	90.42	270.80	7,017.0	-651.0	732.5	10.00	10.00	0.00	0.00	GF P-34-33HN LP
12,607.5	90.36	272.67	6,983.0	-499.3	-4,266.7	0.04	0.00	0.04	91.78	
12,747.4	90.45	269.88	6,982.0	-496.2	-4,406.6	2.00	0.06	-2.00	-88.20	GF P-34-33HN VP
17,867.7	90.45	269.88	6,942.0	-507.1	-9,526.7	0.00	0.00	0.00	0.00	GF P-34-33HN PBHL



Database:	EDM	Local Co-ordinate Reference:	Well GROVES FARM P-34-33HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	KB @ 4867.0usft (Original Well Elev)
Project:	DJ Basin	MD Reference:	KB @ 4867.0usft (Original Well Elev)
Site:	Groves Farm 34-L Pad	North Reference:	True
Well:	GROVES FARM P-34-33HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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
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	2.00	116.72	1,600.0	-0.8	1.6	-1.5	2.00	2.00	0.00
1,700.0	4.00	116.72	1,699.8	-3.1	6.2	-6.1	2.00	2.00	0.00
1,800.0	6.00	116.72	1,799.5	-7.1	14.0	-13.6	2.00	2.00	0.00
1,900.0	8.00	116.72	1,898.7	-12.5	24.9	-24.2	2.00	2.00	0.00
2,000.0	10.00	116.72	1,997.5	-19.6	38.9	-37.8	2.00	2.00	0.00
2,100.0	12.00	116.72	2,095.6	-28.1	55.9	-54.3	2.00	2.00	0.00
2,200.0	14.00	116.72	2,193.1	-38.3	76.0	-73.9	2.00	2.00	0.00
2,300.0	16.00	116.72	2,289.6	-49.9	99.1	-96.3	2.00	2.00	0.00
2,400.0	18.00	116.72	2,385.3	-63.0	125.2	-121.7	2.00	2.00	0.00
2,500.0	20.00	116.72	2,479.8	-77.7	154.3	-150.0	2.00	2.00	0.00
2,599.4	21.99	116.72	2,572.6	-93.7	186.1	-180.9	2.00	2.00	0.00
2,600.0	21.99	116.72	2,573.2	-93.8	186.3	-181.1	0.00	0.00	0.00
2,700.0	21.99	116.72	2,665.9	-110.6	219.8	-213.6	0.00	0.00	0.00
2,800.0	21.99	116.72	2,758.6	-127.4	253.2	-246.1	0.00	0.00	0.00
2,900.0	21.99	116.72	2,851.3	-144.3	286.7	-278.6	0.00	0.00	0.00
3,000.0	21.99	116.72	2,944.1	-161.1	320.1	-311.1	0.00	0.00	0.00
3,100.0	21.99	116.72	3,036.8	-177.9	353.6	-343.6	0.00	0.00	0.00
3,200.0	21.99	116.72	3,129.5	-194.8	387.0	-376.1	0.00	0.00	0.00
3,300.0	21.99	116.72	3,222.3	-211.6	420.4	-408.6	0.00	0.00	0.00
3,400.0	21.99	116.72	3,315.0	-228.4	453.9	-441.1	0.00	0.00	0.00
3,500.0	21.99	116.72	3,407.7	-245.3	487.3	-473.6	0.00	0.00	0.00
3,600.0	21.99	116.72	3,500.4	-262.1	520.8	-506.1	0.00	0.00	0.00
3,700.0	21.99	116.72	3,593.2	-278.9	554.2	-538.6	0.00	0.00	0.00
3,800.0	21.99	116.72	3,685.9	-295.8	587.7	-571.1	0.00	0.00	0.00
3,900.0	21.99	116.72	3,778.6	-312.6	621.1	-603.6	0.00	0.00	0.00
4,000.0	21.99	116.72	3,871.3	-329.4	654.5	-636.1	0.00	0.00	0.00
4,100.0	21.99	116.72	3,964.1	-346.3	688.0	-668.6	0.00	0.00	0.00
4,200.0	21.99	116.72	4,056.8	-363.1	721.4	-701.1	0.00	0.00	0.00
4,300.0	21.99	116.72	4,149.5	-379.9	754.9	-733.6	0.00	0.00	0.00
4,400.0	21.99	116.72	4,242.2	-396.7	788.3	-766.1	0.00	0.00	0.00
4,500.0	21.99	116.72	4,335.0	-413.6	821.8	-798.6	0.00	0.00	0.00
4,600.0	21.99	116.72	4,427.7	-430.4	855.2	-831.1	0.00	0.00	0.00
4,700.0	21.99	116.72	4,520.4	-447.2	888.6	-863.6	0.00	0.00	0.00
4,800.0	21.99	116.72	4,613.2	-464.1	922.1	-896.1	0.00	0.00	0.00
4,900.0	21.99	116.72	4,705.9	-480.9	955.5	-928.6	0.00	0.00	0.00
5,000.0	21.99	116.72	4,798.6	-497.7	989.0	-961.1	0.00	0.00	0.00
5,100.0	21.99	116.72	4,891.3	-514.6	1,022.4	-993.6	0.00	0.00	0.00
5,200.0	21.99	116.72	4,984.1	-531.4	1,055.9	-1,026.1	0.00	0.00	0.00



Database:	EDM	Local Co-ordinate Reference:	Well GROVES FARM P-34-33HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	KB @ 4867.0usft (Original Well Elev)
Project:	DJ Basin	MD Reference:	KB @ 4867.0usft (Original Well Elev)
Site:	Groves Farm 34-L Pad	North Reference:	True
Well:	GROVES FARM P-34-33HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
5,300.0	21.99	116.72	5,076.8	-548.2	1,089.3	-1,058.6	0.00	0.00	0.00
5,400.0	21.99	116.72	5,169.5	-565.1	1,122.7	-1,091.1	0.00	0.00	0.00
5,402.1	21.99	116.72	5,171.5	-565.4	1,123.5	-1,091.8	0.00	0.00	0.00
5,500.0	20.03	116.72	5,262.9	-581.2	1,154.8	-1,122.3	2.00	-2.00	0.00
5,600.0	18.03	116.72	5,357.4	-595.9	1,183.9	-1,150.6	2.00	-2.00	0.00
5,700.0	16.03	116.72	5,453.0	-609.0	1,210.1	-1,176.0	2.00	-2.00	0.00
5,800.0	14.03	116.72	5,549.6	-620.7	1,233.2	-1,198.5	2.00	-2.00	0.00
5,900.0	12.03	116.72	5,647.0	-630.8	1,253.4	-1,218.1	2.00	-2.00	0.00
6,000.0	10.03	116.72	5,745.1	-639.4	1,270.5	-1,234.7	2.00	-2.00	0.00
6,100.0	8.03	116.72	5,843.9	-646.5	1,284.5	-1,248.3	2.00	-2.00	0.00
6,200.0	6.03	116.72	5,943.1	-652.0	1,295.4	-1,258.9	2.00	-2.00	0.00
6,300.0	4.03	116.72	6,042.7	-655.9	1,303.2	-1,266.5	2.00	-2.00	0.00
6,400.0	2.03	116.72	6,142.6	-658.3	1,308.0	-1,271.1	2.00	-2.00	0.00
6,500.0	0.03	116.72	6,242.6	-659.1	1,309.6	-1,272.7	2.00	-2.00	0.00
6,501.5	0.00	270.80	6,244.1	-659.1	1,309.6	-1,272.7	2.00	-2.00	0.00
6,600.0	0.00	0.00	6,342.6	-659.1	1,309.6	-1,272.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,442.6	-659.1	1,309.6	-1,272.7	0.00	0.00	0.00
6,701.5	0.00	270.80	6,444.1	-659.1	1,309.6	-1,272.7	0.00	0.00	0.00
6,800.0	9.85	270.80	6,542.1	-659.0	1,301.1	-1,264.3	10.00	10.00	0.00
6,900.0	19.85	270.80	6,638.6	-658.6	1,275.5	-1,238.7	10.00	10.00	0.00
7,000.0	29.85	270.80	6,729.3	-658.0	1,233.6	-1,196.8	10.00	10.00	0.00
7,100.0	39.85	270.80	6,811.2	-657.2	1,176.5	-1,139.9	10.00	10.00	0.00
7,200.0	49.85	270.80	6,882.0	-656.2	1,106.1	-1,069.6	10.00	10.00	0.00
7,300.0	59.85	270.80	6,939.5	-655.1	1,024.4	-988.1	10.00	10.00	0.00
7,400.0	69.85	270.80	6,982.0	-653.8	934.0	-897.9	10.00	10.00	0.00
7,500.0	79.85	270.80	7,008.1	-652.5	837.6	-801.7	10.00	10.00	0.00
7,600.0	89.85	270.80	7,017.0	-651.1	738.2	-702.5	10.00	10.00	0.00
7,605.7	90.42	270.80	7,017.0	-651.0	732.5	-696.8	10.00	10.00	0.00
GF P-34-33HN LP									
7,700.0	90.42	270.84	7,016.3	-649.6	638.2	-602.7	0.04	0.00	0.04
7,800.0	90.42	270.88	7,015.6	-648.2	538.2	-503.0	0.04	0.00	0.04
7,900.0	90.42	270.91	7,014.9	-646.6	438.2	-403.2	0.04	0.00	0.04
8,000.0	90.41	270.95	7,014.1	-645.0	338.2	-303.4	0.04	0.00	0.04
8,100.0	90.41	270.99	7,013.4	-643.3	238.2	-203.7	0.04	0.00	0.04
8,200.0	90.41	271.03	7,012.7	-641.5	138.2	-104.0	0.04	0.00	0.04
8,300.0	90.41	271.06	7,012.0	-639.7	38.3	-4.2	0.04	0.00	0.04
8,400.0	90.41	271.10	7,011.3	-637.8	-61.7	95.5	0.04	0.00	0.04
8,500.0	90.41	271.14	7,010.5	-635.8	-161.7	195.3	0.04	0.00	0.04
8,600.0	90.41	271.18	7,009.8	-633.8	-261.7	295.0	0.04	0.00	0.04
8,700.0	90.41	271.21	7,009.1	-631.7	-361.6	394.7	0.04	0.00	0.04
8,800.0	90.40	271.25	7,008.4	-629.6	-461.6	494.4	0.04	0.00	0.04
8,900.0	90.40	271.29	7,007.7	-627.4	-561.6	594.1	0.04	0.00	0.04
9,000.0	90.40	271.32	7,007.0	-625.1	-661.6	693.9	0.04	0.00	0.04
9,100.0	90.40	271.36	7,006.3	-622.8	-761.5	793.6	0.04	0.00	0.04
9,200.0	90.40	271.40	7,005.6	-620.3	-861.5	893.3	0.04	0.00	0.04
9,300.0	90.40	271.44	7,004.9	-617.9	-961.5	993.0	0.04	0.00	0.04
9,400.0	90.40	271.47	7,004.2	-615.3	-1,061.4	1,092.6	0.04	0.00	0.04
9,500.0	90.40	271.51	7,003.5	-612.7	-1,161.4	1,192.3	0.04	0.00	0.04
9,600.0	90.40	271.55	7,002.8	-610.1	-1,261.4	1,292.0	0.04	0.00	0.04
9,700.0	90.39	271.59	7,002.1	-607.3	-1,361.3	1,391.7	0.04	0.00	0.04
9,800.0	90.39	271.62	7,001.4	-604.5	-1,461.3	1,491.3	0.04	0.00	0.04
9,900.0	90.39	271.66	7,000.8	-601.7	-1,561.2	1,591.0	0.04	0.00	0.04
10,000.0	90.39	271.70	7,000.1	-598.7	-1,661.2	1,690.7	0.04	0.00	0.04



Database:	EDM	Local Co-ordinate Reference:	Well GROVES FARM P-34-33HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	KB @ 4867.0usft (Original Well Elev)
Project:	DJ Basin	MD Reference:	KB @ 4867.0usft (Original Well Elev)
Site:	Groves Farm 34-L Pad	North Reference:	True
Well:	GROVES FARM P-34-33HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)	
10,100.0	90.39	271.74	6,999.4	-595.7	-1,761.1	1,790.3	0.04	0.00	0.04	
10,200.0	90.39	271.77	6,998.7	-592.7	-1,861.1	1,890.0	0.04	0.00	0.04	
10,300.0	90.39	271.81	6,998.0	-589.5	-1,961.0	1,989.6	0.04	0.00	0.04	
10,400.0	90.39	271.85	6,997.4	-586.3	-2,061.0	2,089.2	0.04	0.00	0.04	
10,500.0	90.39	271.89	6,996.7	-583.1	-2,160.9	2,188.9	0.04	0.00	0.04	
10,600.0	90.38	271.92	6,996.0	-579.8	-2,260.9	2,288.5	0.04	0.00	0.04	
10,700.0	90.38	271.96	6,995.4	-576.4	-2,360.8	2,388.1	0.04	0.00	0.04	
10,800.0	90.38	272.00	6,994.7	-572.9	-2,460.8	2,487.7	0.04	0.00	0.04	
10,900.0	90.38	272.04	6,994.0	-569.4	-2,560.7	2,587.3	0.04	0.00	0.04	
11,000.0	90.38	272.07	6,993.4	-565.8	-2,660.6	2,686.9	0.04	0.00	0.04	
11,100.0	90.38	272.11	6,992.7	-562.2	-2,760.6	2,786.5	0.04	0.00	0.04	
11,200.0	90.38	272.15	6,992.0	-558.5	-2,860.5	2,886.1	0.04	0.00	0.04	
11,300.0	90.38	272.18	6,991.4	-554.7	-2,960.4	2,985.7	0.04	0.00	0.04	
11,400.0	90.37	272.22	6,990.7	-550.8	-3,060.3	3,085.3	0.04	0.00	0.04	
11,500.0	90.37	272.26	6,990.1	-546.9	-3,160.3	3,184.9	0.04	0.00	0.04	
11,600.0	90.37	272.30	6,989.4	-542.9	-3,260.2	3,284.4	0.04	0.00	0.04	
11,700.0	90.37	272.33	6,988.8	-538.9	-3,360.1	3,384.0	0.04	0.00	0.04	
11,800.0	90.37	272.37	6,988.1	-534.8	-3,460.0	3,483.5	0.04	0.00	0.04	
11,900.0	90.37	272.41	6,987.5	-530.6	-3,559.9	3,583.1	0.04	0.00	0.04	
12,000.0	90.37	272.45	6,986.8	-526.4	-3,659.8	3,682.6	0.04	0.00	0.04	
12,100.0	90.37	272.48	6,986.2	-522.1	-3,759.7	3,782.2	0.04	0.00	0.04	
12,200.0	90.37	272.52	6,985.6	-517.7	-3,859.6	3,881.7	0.04	0.00	0.04	
12,300.0	90.36	272.56	6,984.9	-513.3	-3,959.5	3,981.2	0.04	0.00	0.04	
12,400.0	90.36	272.60	6,984.3	-508.8	-4,059.4	4,080.7	0.04	0.00	0.04	
12,500.0	90.36	272.63	6,983.7	-504.2	-4,159.3	4,180.2	0.04	0.00	0.04	
12,600.0	90.36	272.67	6,983.0	-499.6	-4,259.2	4,279.8	0.04	0.00	0.04	
12,607.5	90.36	272.67	6,983.0	-499.3	-4,266.7	4,287.2	0.04	0.00	0.04	
12,700.0	90.42	270.83	6,982.4	-496.4	-4,359.2	4,379.4	2.00	0.06	-2.00	
12,747.4	90.45	269.88	6,982.0	-496.2	-4,406.6	4,426.7	2.00	0.06	-2.00	
GF P-34-33HN VP										
12,800.0	90.45	269.88	6,981.6	-496.3	-4,459.2	4,479.2	0.00	0.00	0.00	
12,900.0	90.45	269.88	6,980.8	-496.5	-4,559.2	4,579.1	0.00	0.00	0.00	
13,000.0	90.45	269.88	6,980.0	-496.7	-4,659.1	4,679.0	0.00	0.00	0.00	
13,100.0	90.45	269.88	6,979.2	-496.9	-4,759.1	4,778.8	0.00	0.00	0.00	
13,200.0	90.45	269.88	6,978.5	-497.1	-4,859.1	4,878.7	0.00	0.00	0.00	
13,300.0	90.45	269.88	6,977.7	-497.3	-4,959.1	4,978.6	0.00	0.00	0.00	
13,400.0	90.45	269.88	6,976.9	-497.5	-5,059.1	5,078.4	0.00	0.00	0.00	
13,500.0	90.45	269.88	6,976.1	-497.8	-5,159.1	5,178.3	0.00	0.00	0.00	
13,600.0	90.45	269.88	6,975.3	-498.0	-5,259.1	5,278.2	0.00	0.00	0.00	
13,700.0	90.45	269.88	6,974.6	-498.2	-5,359.1	5,378.0	0.00	0.00	0.00	
13,800.0	90.45	269.88	6,973.8	-498.4	-5,459.1	5,477.9	0.00	0.00	0.00	
13,900.0	90.45	269.88	6,973.0	-498.6	-5,559.1	5,577.8	0.00	0.00	0.00	
14,000.0	90.45	269.88	6,972.2	-498.8	-5,659.1	5,677.6	0.00	0.00	0.00	
14,100.0	90.45	269.88	6,971.4	-499.0	-5,759.1	5,777.5	0.00	0.00	0.00	
14,200.0	90.45	269.88	6,970.7	-499.3	-5,859.1	5,877.4	0.00	0.00	0.00	
14,300.0	90.45	269.88	6,969.9	-499.5	-5,959.1	5,977.2	0.00	0.00	0.00	
14,400.0	90.45	269.88	6,969.1	-499.7	-6,059.1	6,077.1	0.00	0.00	0.00	
14,500.0	90.45	269.88	6,968.3	-499.9	-6,159.1	6,177.0	0.00	0.00	0.00	
14,600.0	90.45	269.88	6,967.5	-500.1	-6,259.1	6,276.8	0.00	0.00	0.00	
14,700.0	90.45	269.88	6,966.7	-500.3	-6,359.1	6,376.7	0.00	0.00	0.00	
14,800.0	90.45	269.88	6,966.0	-500.5	-6,459.1	6,476.6	0.00	0.00	0.00	
14,900.0	90.45	269.88	6,965.2	-500.7	-6,559.1	6,576.4	0.00	0.00	0.00	
15,000.0	90.45	269.88	6,964.4	-501.0	-6,659.1	6,676.3	0.00	0.00	0.00	
15,100.0	90.45	269.88	6,963.6	-501.2	-6,759.1	6,776.2	0.00	0.00	0.00	



Database:	EDM	Local Co-ordinate Reference:	Well GROVES FARM P-34-33HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	KB @ 4867.0usft (Original Well Elev)
Project:	DJ Basin	MD Reference:	KB @ 4867.0usft (Original Well Elev)
Site:	Groves Farm 34-L Pad	North Reference:	True
Well:	GROVES FARM P-34-33HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)	
15,200.0	90.45	269.88	6,962.8	-501.4	-6,859.1	6,876.0	0.00	0.00	0.00	
15,300.0	90.45	269.88	6,962.1	-501.6	-6,959.1	6,975.9	0.00	0.00	0.00	
15,400.0	90.45	269.88	6,961.3	-501.8	-7,059.1	7,075.8	0.00	0.00	0.00	
15,500.0	90.45	269.88	6,960.5	-502.0	-7,159.1	7,175.6	0.00	0.00	0.00	
15,600.0	90.45	269.88	6,959.7	-502.2	-7,259.1	7,275.5	0.00	0.00	0.00	
15,700.0	90.45	269.88	6,958.9	-502.5	-7,359.1	7,375.4	0.00	0.00	0.00	
15,800.0	90.45	269.88	6,958.2	-502.7	-7,459.1	7,475.2	0.00	0.00	0.00	
15,900.0	90.45	269.88	6,957.4	-502.9	-7,559.1	7,575.1	0.00	0.00	0.00	
16,000.0	90.45	269.88	6,956.6	-503.1	-7,659.0	7,675.0	0.00	0.00	0.00	
16,100.0	90.45	269.88	6,955.8	-503.3	-7,759.0	7,774.8	0.00	0.00	0.00	
16,200.0	90.45	269.88	6,955.0	-503.5	-7,859.0	7,874.7	0.00	0.00	0.00	
16,300.0	90.45	269.88	6,954.2	-503.7	-7,959.0	7,974.6	0.00	0.00	0.00	
16,400.0	90.45	269.88	6,953.5	-504.0	-8,059.0	8,074.4	0.00	0.00	0.00	
16,500.0	90.45	269.88	6,952.7	-504.2	-8,159.0	8,174.3	0.00	0.00	0.00	
16,600.0	90.45	269.88	6,951.9	-504.4	-8,259.0	8,274.2	0.00	0.00	0.00	
16,700.0	90.45	269.88	6,951.1	-504.6	-8,359.0	8,374.0	0.00	0.00	0.00	
16,800.0	90.45	269.88	6,950.3	-504.8	-8,459.0	8,473.9	0.00	0.00	0.00	
16,900.0	90.45	269.88	6,949.6	-505.0	-8,559.0	8,573.8	0.00	0.00	0.00	
17,000.0	90.45	269.88	6,948.8	-505.2	-8,659.0	8,673.6	0.00	0.00	0.00	
17,100.0	90.45	269.88	6,948.0	-505.4	-8,759.0	8,773.5	0.00	0.00	0.00	
17,200.0	90.45	269.88	6,947.2	-505.7	-8,859.0	8,873.4	0.00	0.00	0.00	
17,300.0	90.45	269.88	6,946.4	-505.9	-8,959.0	8,973.2	0.00	0.00	0.00	
17,400.0	90.45	269.88	6,945.7	-506.1	-9,059.0	9,073.1	0.00	0.00	0.00	
17,500.0	90.45	269.88	6,944.9	-506.3	-9,159.0	9,173.0	0.00	0.00	0.00	
17,600.0	90.45	269.88	6,944.1	-506.5	-9,259.0	9,272.8	0.00	0.00	0.00	
17,700.0	90.45	269.88	6,943.3	-506.7	-9,359.0	9,372.7	0.00	0.00	0.00	
17,800.0	90.45	269.88	6,942.5	-506.9	-9,459.0	9,472.6	0.00	0.00	0.00	
17,867.7	90.45	269.88	6,942.0	-507.1	-9,526.7	9,540.2	0.00	0.00	0.00	
GF P-34-33HN PBHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
GF P-34-33HN PBHL - hit/miss target - Shape - Point	0.00	0.00	6,942.0	-507.1	-9,526.7	1,436,541.48	3,228,719.68	40° 31' 43.658 N		104° 40' 37.920 W
GF P-34-33HN VP - plan hits target center - Point	0.00	0.00	6,982.0	-496.2	-4,406.6	1,436,601.91	3,233,839.47	40° 31' 43.781 N		104° 39' 31.612 W
GF P-34-33HN LP - plan hits target center - Point	0.00	0.00	7,017.0	-651.0	732.5	1,436,496.74	3,238,979.77	40° 31' 42.254 N		104° 38' 25.058 W