

BTA Oil Producers, LLC

Lea County, NM

Vaca Draw Sec 10, T25S, R33E

Vaca Draw 9418 10 Federal #6H

Wellbore #1

Plan: Design #1

HOBBS OCD

FEB 20 2017

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Standard Planning Report - Geographic

25 August, 2016

Database: EDM 5000.1 Single User Db
 Company: BTA Oil Producers, LLC
 Project: Lea County, NM
 Site: Vaca Draw Sec 10, T25S, R33E
 Well: Vaca Draw 9418 10 Federal #6H
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well Vaca Draw 9418 10 Federal #6H
 TVD Reference: GL @ 3422.0usft
 MD Reference: GL @ 3422.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Project: Lea County, NM, Lea County, NM

Map System: US State Plane 1927 (Exact solution)
 Geo Datum: NAD 1927 (NADCON CONUS)
 Map Zone: New Mexico East 3001

System Datum: Ground Level

Using geodetic scale factor

Site: Vaca Draw Sec 10, T25S, R33E

Site Position: Northing: 419,754.20 usft Latitude: 32° 9' 6.035 N
 From: Map Easting: 738,410.70 usft Longitude: 103° 33' 46.774 W
 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence: 0.41°

Well: Vaca Draw 9418 10 Federal #6H

Well Position: +N/-S 0.0 usft Northing: 419,767.40 usft Latitude: 32° 9' 6.068 N
 +E/-W 0.0 usft Easting: 739,783.90 usft Longitude: 103° 33' 30.801 W
 Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,422.0 usft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.74	60.18	48,751

Design: Design #1

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	181.48

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	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,882.0	0.00	0.00	8,882.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,782.0	90.00	181.48	9,455.0	-572.8	-14.8	10.00	10.00	0.00	181.48	
14,257.5	90.00	181.48	9,455.0	-5,046.7	-130.8	0.00	0.00	0.00	0.00	Vaca Draw #6H BHL

BTA
Planning Report - Geographic

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Local Co-ordinate Reference: Well Vaca Draw 9418 10 Federal #6H
TVD Reference: GL @ 3422.0usft
MD Reference: GL @ 3422.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
100.0	0.00	0.00	100.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
200.0	0.00	0.00	200.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
300.0	0.00	0.00	300.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
400.0	0.00	0.00	400.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
500.0	0.00	0.00	500.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
600.0	0.00	0.00	600.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
700.0	0.00	0.00	700.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
800.0	0.00	0.00	800.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
900.0	0.00	0.00	900.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
3,200.0	0.00	0.00	3,200.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
3,300.0	0.00	0.00	3,300.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
3,400.0	0.00	0.00	3,400.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
3,500.0	0.00	0.00	3,500.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
3,600.0	0.00	0.00	3,600.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
3,700.0	0.00	0.00	3,700.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
3,800.0	0.00	0.00	3,800.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
3,900.0	0.00	0.00	3,900.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
4,100.0	0.00	0.00	4,100.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
4,300.0	0.00	0.00	4,300.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
4,400.0	0.00	0.00	4,400.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
4,500.0	0.00	0.00	4,500.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
4,600.0	0.00	0.00	4,600.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
4,700.0	0.00	0.00	4,700.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
4,800.0	0.00	0.00	4,800.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
4,900.0	0.00	0.00	4,900.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
5,000.0	0.00	0.00	5,000.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
5,100.0	0.00	0.00	5,100.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
5,200.0	0.00	0.00	5,200.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
5,300.0	0.00	0.00	5,300.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
5,400.0	0.00	0.00	5,400.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vortical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,500.0	0.00	0.00	5,500.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
5,600.0	0.00	0.00	5,600.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
5,700.0	0.00	0.00	5,700.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
5,800.0	0.00	0.00	5,800.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
5,900.0	0.00	0.00	5,900.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
6,000.0	0.00	0.00	6,000.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
6,100.0	0.00	0.00	6,100.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
6,200.0	0.00	0.00	6,200.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
6,300.0	0.00	0.00	6,300.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
6,400.0	0.00	0.00	6,400.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
6,500.0	0.00	0.00	6,500.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
6,600.0	0.00	0.00	6,600.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
6,700.0	0.00	0.00	6,700.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
6,800.0	0.00	0.00	6,800.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
6,900.0	0.00	0.00	6,900.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
7,000.0	0.00	0.00	7,000.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
7,100.0	0.00	0.00	7,100.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
7,200.0	0.00	0.00	7,200.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
7,300.0	0.00	0.00	7,300.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
7,400.0	0.00	0.00	7,400.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
7,500.0	0.00	0.00	7,500.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
7,600.0	0.00	0.00	7,600.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
7,700.0	0.00	0.00	7,700.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
7,800.0	0.00	0.00	7,800.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
7,900.0	0.00	0.00	7,900.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
8,000.0	0.00	0.00	8,000.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
8,100.0	0.00	0.00	8,100.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
8,200.0	0.00	0.00	8,200.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
8,300.0	0.00	0.00	8,300.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
8,400.0	0.00	0.00	8,400.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
8,500.0	0.00	0.00	8,500.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
8,600.0	0.00	0.00	8,600.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
8,700.0	0.00	0.00	8,700.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
8,800.0	0.00	0.00	8,800.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
8,882.0	0.00	0.00	8,882.0	0.0	0.0	419,767.40	739,783.90	32° 9' 6.068 N	103° 33' 30.801 W
8,900.0	1.80	181.48	8,900.0	-0.3	0.0	419,767.12	739,783.89	32° 9' 6.065 N	103° 33' 30.801 W
9,000.0	11.80	181.48	8,999.2	-12.1	-0.3	419,755.30	739,783.58	32° 9' 5.948 N	103° 33' 30.805 W
9,100.0	21.80	181.48	9,094.8	-40.9	-1.1	419,726.46	739,782.84	32° 9' 5.663 N	103° 33' 30.816 W
9,200.0	31.80	181.48	9,183.9	-86.0	-2.2	419,681.45	739,781.67	32° 9' 5.218 N	103° 33' 30.834 W
9,300.0	41.80	181.48	9,263.9	-145.8	-3.8	419,621.65	739,780.12	32° 9' 4.626 N	103° 33' 30.857 W
9,400.0	51.80	181.48	9,332.3	-218.5	-5.7	419,548.88	739,778.23	32° 9' 3.906 N	103° 33' 30.885 W
9,500.0	61.80	181.48	9,387.0	-302.1	-7.8	419,465.34	739,776.07	32° 9' 3.080 N	103° 33' 30.917 W
9,600.0	71.80	181.48	9,426.3	-393.8	-10.2	419,373.58	739,773.69	32° 9' 2.172 N	103° 33' 30.952 W
9,700.0	81.80	181.48	9,449.1	-491.0	-12.7	419,276.38	739,771.17	32° 9' 1.210 N	103° 33' 30.990 W
9,782.0	90.00	181.48	9,455.0	-572.8	-14.8	419,194.65	739,769.05	32° 9' 0.401 N	103° 33' 31.021 W
9,800.0	90.00	181.48	9,455.0	-590.7	-15.3	419,176.70	739,768.59	32° 9' 0.224 N	103° 33' 31.028 W
9,900.0	90.00	181.48	9,455.0	-690.7	-17.9	419,076.73	739,766.00	32° 8' 59.235 N	103° 33' 31.067 W
10,000.0	90.00	181.48	9,455.0	-790.7	-20.5	418,976.77	739,763.40	32° 8' 58.246 N	103° 33' 31.105 W
10,100.0	90.00	181.48	9,455.0	-890.6	-23.1	418,876.81	739,760.81	32° 8' 57.257 N	103° 33' 31.144 W
10,200.0	90.00	181.48	9,455.0	-990.6	-25.7	418,776.84	739,758.22	32° 8' 56.268 N	103° 33' 31.182 W
10,300.0	90.00	181.48	9,455.0	-1,090.5	-28.3	418,676.88	739,755.63	32° 8' 55.279 N	103° 33' 31.221 W
10,400.0	90.00	181.48	9,455.0	-1,190.5	-30.9	418,576.91	739,753.04	32° 8' 54.290 N	103° 33' 31.259 W
10,500.0	90.00	181.48	9,455.0	-1,290.5	-33.4	418,476.95	739,750.45	32° 8' 53.301 N	103° 33' 31.298 W
10,600.0	90.00	181.48	9,455.0	-1,390.4	-36.0	418,376.99	739,747.86	32° 8' 52.312 N	103° 33' 31.336 W
10,700.0	90.00	181.48	9,455.0	-1,490.4	-38.6	418,277.02	739,745.27	32° 8' 51.323 N	103° 33' 31.375 W

BTA

Planning Report - Geographic

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 Company: BTA Oil Producers, LLC
 Project: Lea County, NM
 Site: Vaca Draw Sec 10, T25S, R33E
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 Wellbore: Wellbore #1
 Design: Design #1

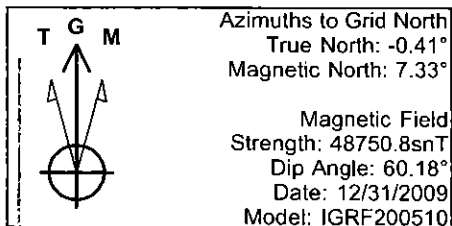
Local Co-ordinate Reference: Well Vaca Draw 9418 10 Federal #6H
 TVD Reference: GL @ 3422.0usft
 MD Reference: GL @ 3422.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,800.0	90.00	181.48	9,455.0	-1,590.4	-41.2	418,177.06	739,742.68	32° 8' 50.334 N	103° 33' 31.413 W
10,900.0	90.00	181.48	9,455.0	-1,690.3	-43.8	418,077.09	739,740.09	32° 8' 49.345 N	103° 33' 31.452 W
11,000.0	90.00	181.48	9,455.0	-1,790.3	-46.4	417,977.13	739,737.50	32° 8' 48.356 N	103° 33' 31.490 W
11,100.0	90.00	181.48	9,455.0	-1,890.3	-49.0	417,877.17	739,734.90	32° 8' 47.367 N	103° 33' 31.529 W
11,200.0	90.00	181.48	9,455.0	-1,990.2	-51.6	417,777.20	739,732.31	32° 8' 46.378 N	103° 33' 31.567 W
11,300.0	90.00	181.48	9,455.0	-2,090.2	-54.2	417,677.24	739,729.72	32° 8' 45.388 N	103° 33' 31.606 W
11,400.0	90.00	181.48	9,455.0	-2,190.2	-56.8	417,577.27	739,727.13	32° 8' 44.399 N	103° 33' 31.644 W
11,500.0	90.00	181.48	9,455.0	-2,290.1	-59.4	417,477.31	739,724.54	32° 8' 43.410 N	103° 33' 31.683 W
11,600.0	90.00	181.48	9,455.0	-2,390.1	-61.9	417,377.35	739,721.95	32° 8' 42.421 N	103° 33' 31.721 W
11,700.0	90.00	181.48	9,455.0	-2,490.1	-64.5	417,277.38	739,719.36	32° 8' 41.432 N	103° 33' 31.760 W
11,800.0	90.00	181.48	9,455.0	-2,590.0	-67.1	417,177.42	739,716.77	32° 8' 40.443 N	103° 33' 31.798 W
11,900.0	90.00	181.48	9,455.0	-2,690.0	-69.7	417,077.45	739,714.18	32° 8' 39.454 N	103° 33' 31.837 W
12,000.0	90.00	181.48	9,455.0	-2,790.0	-72.3	416,977.49	739,711.59	32° 8' 38.465 N	103° 33' 31.875 W
12,100.0	90.00	181.48	9,455.0	-2,889.9	-74.9	416,877.53	739,709.00	32° 8' 37.476 N	103° 33' 31.914 W
12,200.0	90.00	181.48	9,455.0	-2,989.9	-77.5	416,777.56	739,706.40	32° 8' 36.487 N	103° 33' 31.952 W
12,300.0	90.00	181.48	9,455.0	-3,089.9	-80.1	416,677.60	739,703.81	32° 8' 35.498 N	103° 33' 31.991 W
12,400.0	90.00	181.48	9,455.0	-3,189.8	-82.7	416,577.63	739,701.22	32° 8' 34.509 N	103° 33' 32.029 W
12,500.0	90.00	181.48	9,455.0	-3,289.8	-85.3	416,477.67	739,698.63	32° 8' 33.520 N	103° 33' 32.068 W
12,600.0	90.00	181.48	9,455.0	-3,389.8	-87.9	416,377.71	739,696.04	32° 8' 32.531 N	103° 33' 32.106 W
12,700.0	90.00	181.48	9,455.0	-3,489.7	-90.4	416,277.74	739,693.45	32° 8' 31.542 N	103° 33' 32.145 W
12,800.0	90.00	181.48	9,455.0	-3,589.7	-93.0	416,177.78	739,690.86	32° 8' 30.553 N	103° 33' 32.183 W
12,900.0	90.00	181.48	9,455.0	-3,689.7	-95.6	416,077.82	739,688.27	32° 8' 29.564 N	103° 33' 32.222 W
13,000.0	90.00	181.48	9,455.0	-3,789.6	-98.2	415,977.85	739,685.68	32° 8' 28.575 N	103° 33' 32.260 W
13,100.0	90.00	181.48	9,455.0	-3,889.6	-100.8	415,877.89	739,683.09	32° 8' 27.586 N	103° 33' 32.299 W
13,200.0	90.00	181.48	9,455.0	-3,989.6	-103.4	415,777.92	739,680.50	32° 8' 26.597 N	103° 33' 32.337 W
13,300.0	90.00	181.48	9,455.0	-4,089.5	-106.0	415,677.96	739,677.90	32° 8' 25.608 N	103° 33' 32.376 W
13,400.0	90.00	181.48	9,455.0	-4,189.5	-108.6	415,578.00	739,675.31	32° 8' 24.619 N	103° 33' 32.414 W
13,500.0	90.00	181.48	9,455.0	-4,289.5	-111.2	415,478.03	739,672.72	32° 8' 23.630 N	103° 33' 32.453 W
13,600.0	90.00	181.48	9,455.0	-4,389.4	-113.8	415,378.07	739,670.13	32° 8' 22.641 N	103° 33' 32.491 W
13,700.0	90.00	181.48	9,455.0	-4,489.4	-116.4	415,278.10	739,667.54	32° 8' 21.652 N	103° 33' 32.529 W
13,800.0	90.00	181.48	9,455.0	-4,589.4	-118.9	415,178.14	739,664.95	32° 8' 20.663 N	103° 33' 32.568 W
13,900.0	90.00	181.48	9,455.0	-4,689.3	-121.5	415,078.18	739,662.36	32° 8' 19.674 N	103° 33' 32.606 W
14,000.0	90.00	181.48	9,455.0	-4,789.3	-124.1	414,978.21	739,659.77	32° 8' 18.685 N	103° 33' 32.645 W
14,100.0	90.00	181.48	9,455.0	-4,889.3	-126.7	414,878.25	739,657.18	32° 8' 17.696 N	103° 33' 32.683 W
14,200.0	90.00	181.48	9,455.0	-4,989.2	-129.3	414,778.28	739,654.59	32° 8' 16.707 N	103° 33' 32.722 W
14,257.5	90.00	181.48	9,455.0	-5,046.7	-130.8	414,720.80	739,653.10	32° 8' 16.138 N	103° 33' 32.744 W

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
Vaca Draw #6H BHL - plan hits target center - Point	0.00	0.00	9,455.0	-5,046.7	-130.8	414,720.80	739,653.10	32° 8' 16.138 N	103° 33' 32.744 W



WELL DETAILS: Vaca Draw 9418 10 Federal #6H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	419767.40	739783.90	32° 9' 6.068 N	103° 33' 30.801 W

SITE DETAILS: Vaca Draw Sec 10, T25S, R33E	
Site Centre Northing:	419754.20
Easting:	738410.70
Positional Uncertainty:	0.0
Convergence:	0.41
Local North:	Grid

BTA Oil Producers, LLC

PROJECT DETAILS: Lea County, NM	
Geodetic System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	New Mexico East 3001
System Datum:	Ground Level

CASING DETAILS	

