

HOBBS OCD

OCT 27 2016

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BTA Oil Producers, LLC

Lea County, NM

Sec 34, T25S,R33E

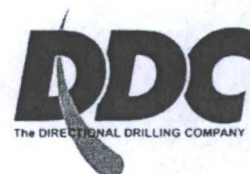
Rojo E 7811JV-P Federal #4H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

14 September, 2015



HP Well Planning Report



Database: Compass
Company: BTA Oil Producers, LLC
Project: Lea County, NM
Site: Sec 34, T25S,R33E
Well: Rojo E 7811 JVP Federal #4H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Rojo E7811 JVP Federal COM #4H
TVD Reference: WELL @ 3344.0usft (Scandril Freedom)
MD Reference: WELL @ 3344.0usft (Scandril Freedom)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 34, T25S,R33E			
Site Position:		Northing:	393,591.20 usft	Latitude: 32° 4' 47.220 N
From: Map		Easting:	737,200.10 usft	Longitude: 103° 34' 3.017 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.41 °

Well	Rojo E7811 JVP Federal COM #4H			
Well Position	+N/-S	0.0 usft	Northing:	393,591.20 usft
	+E/-W	0.0 usft	Easting:	737,200.10 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	0.0 usft
			Ground Level:	3,318.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/9/2015	7.13	59.95	48,035

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	0.63	

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	
8,891.5	0.00	0.00	8,891.5	0.0	0.0	0.00	0.00	0.00	0.00	
9,643.3	90.22	18.00	9,369.0	455.8	148.1	12.00	12.00	0.00	18.00	
10,337.4	90.22	357.18	9,366.3	1,140.0	239.3	3.00	0.00	-3.00	-89.97	
14,097.2	90.22	357.18	9,352.0	4,895.3	54.2	0.00	0.00	0.00	0.00	PBHL Rojo E Fedei

HP Well Planning Report



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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)
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
RUSTLER									
930.0	0.00	0.00	930.0	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
TOS									
1,275.0	0.00	0.00	1,275.0	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

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BOS									
4,847.0	0.00	0.00	4,847.0	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
LMAR									
4,964.0	0.00	0.00	4,964.0	0.0	0.0	0.0	0.00	0.00	0.00
BLCN									
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
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
CYCN									
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
BYCN									
7,516.0	0.00	0.00	7,516.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 12°/100'									
8,891.5	0.00	0.00	8,891.5	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	1.02	18.00	8,900.0	0.1	0.0	0.1	12.00	12.00	0.00
9,000.0	13.02	18.00	8,999.1	11.7	3.8	11.7	12.00	12.00	0.00
BONE SPRG									

HP Well Planning Report



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9,030.9	16.73	18.00	9,028.9	19.2	6.2	19.3	12.00	12.00	0.00
U AVALON SH									
9,096.0	24.54	18.00	9,089.8	41.0	13.3	41.2	12.00	12.00	0.00
9,100.0	25.02	18.00	9,093.4	42.6	13.8	42.8	12.00	12.00	0.00
9,200.0	37.02	18.00	9,179.0	91.5	29.7	91.9	12.00	12.00	0.00
9,300.0	49.02	18.00	9,252.0	156.3	50.8	156.9	12.00	12.00	0.00
9,400.0	61.02	18.00	9,309.2	234.1	76.1	234.9	12.00	12.00	0.00
9,500.0	73.02	18.00	9,348.2	321.5	104.5	322.6	12.00	12.00	0.00
9,600.0	85.02	18.00	9,367.2	414.7	134.7	416.1	12.00	12.00	0.00
EOB @ 90.22° Inc / 18° Azm / 9369° TVD									
9,643.3	90.22	18.00	9,369.0	455.8	148.1	457.5	12.00	12.00	0.00
9,700.0	90.22	16.30	9,368.7	510.0	164.8	511.8	3.00	0.00	-3.00
9,800.0	90.22	13.30	9,368.4	606.7	190.4	608.7	3.00	0.00	-3.00
9,900.0	90.22	10.30	9,368.0	704.5	210.8	706.8	3.00	0.00	-3.00
10,000.0	90.22	7.30	9,367.6	803.3	226.1	805.8	3.00	0.00	-3.00
10,100.0	90.22	4.30	9,367.2	902.8	236.2	905.4	3.00	0.00	-3.00
10,200.0	90.22	1.30	9,366.8	1,002.7	241.1	1,005.3	3.00	0.00	-3.00
10,300.0	90.22	358.30	9,366.4	1,102.7	240.7	1,105.3	3.00	0.00	-3.00
EOT @ 357.18° Azm									
10,337.4	90.22	357.18	9,366.3	1,140.0	239.3	1,142.6	3.00	0.00	-3.00
10,400.0	90.22	357.18	9,366.0	1,202.6	236.2	1,205.1	0.00	0.00	0.00
10,500.0	90.22	357.18	9,365.7	1,302.4	231.3	1,304.9	0.00	0.00	0.00
10,600.0	90.22	357.18	9,365.3	1,402.3	226.3	1,404.7	0.00	0.00	0.00
10,700.0	90.22	357.18	9,364.9	1,502.2	221.4	1,504.6	0.00	0.00	0.00
10,800.0	90.22	357.18	9,364.5	1,602.1	216.5	1,604.4	0.00	0.00	0.00
10,900.0	90.22	357.18	9,364.1	1,702.0	211.6	1,704.2	0.00	0.00	0.00
11,000.0	90.22	357.18	9,363.8	1,801.8	206.7	1,804.0	0.00	0.00	0.00
11,100.0	90.22	357.18	9,363.4	1,901.7	201.7	1,903.8	0.00	0.00	0.00
11,200.0	90.22	357.18	9,363.0	2,001.6	196.8	2,003.6	0.00	0.00	0.00
11,300.0	90.22	357.18	9,362.6	2,101.5	191.9	2,103.5	0.00	0.00	0.00
11,400.0	90.22	357.18	9,362.2	2,201.3	187.0	2,203.3	0.00	0.00	0.00
11,500.0	90.22	357.18	9,361.9	2,301.2	182.0	2,303.1	0.00	0.00	0.00
11,600.0	90.22	357.18	9,361.5	2,401.1	177.1	2,402.9	0.00	0.00	0.00
11,700.0	90.22	357.18	9,361.1	2,501.0	172.2	2,502.7	0.00	0.00	0.00
11,800.0	90.22	357.18	9,360.7	2,600.9	167.3	2,602.6	0.00	0.00	0.00
11,900.0	90.22	357.18	9,360.3	2,700.7	162.4	2,702.4	0.00	0.00	0.00
12,000.0	90.22	357.18	9,360.0	2,800.6	157.4	2,802.2	0.00	0.00	0.00
12,100.0	90.22	357.18	9,359.6	2,900.5	152.5	2,902.0	0.00	0.00	0.00
12,200.0	90.22	357.18	9,359.2	3,000.4	147.6	3,001.8	0.00	0.00	0.00
12,300.0	90.22	357.18	9,358.8	3,100.2	142.7	3,101.6	0.00	0.00	0.00
12,400.0	90.22	357.18	9,358.4	3,200.1	137.7	3,201.5	0.00	0.00	0.00
12,500.0	90.22	357.18	9,358.1	3,300.0	132.8	3,301.3	0.00	0.00	0.00
12,600.0	90.22	357.18	9,357.7	3,399.9	127.9	3,401.1	0.00	0.00	0.00
12,700.0	90.22	357.18	9,357.3	3,499.8	123.0	3,500.9	0.00	0.00	0.00
12,800.0	90.22	357.18	9,356.9	3,599.6	118.1	3,600.7	0.00	0.00	0.00
12,900.0	90.22	357.18	9,356.5	3,699.5	113.1	3,700.5	0.00	0.00	0.00
13,000.0	90.22	357.18	9,356.2	3,799.4	108.2	3,800.4	0.00	0.00	0.00
13,100.0	90.22	357.18	9,355.8	3,899.3	103.3	3,900.2	0.00	0.00	0.00
13,200.0	90.22	357.18	9,355.4	3,999.2	98.4	4,000.0	0.00	0.00	0.00
13,300.0	90.22	357.18	9,355.0	4,099.0	93.4	4,099.8	0.00	0.00	0.00
13,400.0	90.22	357.18	9,354.6	4,198.9	88.5	4,199.6	0.00	0.00	0.00
13,500.0	90.22	357.18	9,354.3	4,298.8	83.6	4,299.4	0.00	0.00	0.00
13,600.0	90.22	357.18	9,353.9	4,398.7	78.7	4,399.3	0.00	0.00	0.00

HP Well Planning Report



Database: Compass
Company: BTA Oil Producers, LLC
Project: Lea County, NM
Site: Sec 34, T25S,R33E
Well: Rojo E 7811 JVP Federal #4H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Rojo E7811 JVP Federal COM #4H
TVD Reference: WELL @ 3344.0usft (Scandril Freedom)
MD Reference: WELL @ 3344.0usft (Scandril Freedom)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
13,700.0	90.22	357.18	9,353.5	4,498.5	73.8	4,499.1	0.00	0.00	0.00
13,800.0	90.22	357.18	9,353.1	4,598.4	68.8	4,598.9	0.00	0.00	0.00
13,900.0	90.22	357.18	9,352.7	4,698.3	63.9	4,698.7	0.00	0.00	0.00
14,000.0	90.22	357.18	9,352.4	4,798.2	59.0	4,798.5	0.00	0.00	0.00
TD @ 14097' MD / 9352' TVD									
14,097.2	90.22	357.18	9,352.0	4,895.3	54.2	4,895.6	0.00	0.00	0.00

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
PBHL Rojo E Federal	0.00	0.00	9,352.0	4,895.3	54.2	398,486.50	737,254.30	32° 5' 35.659 N	103° 34' 1.983 W
- plan hits target center									
- Point									

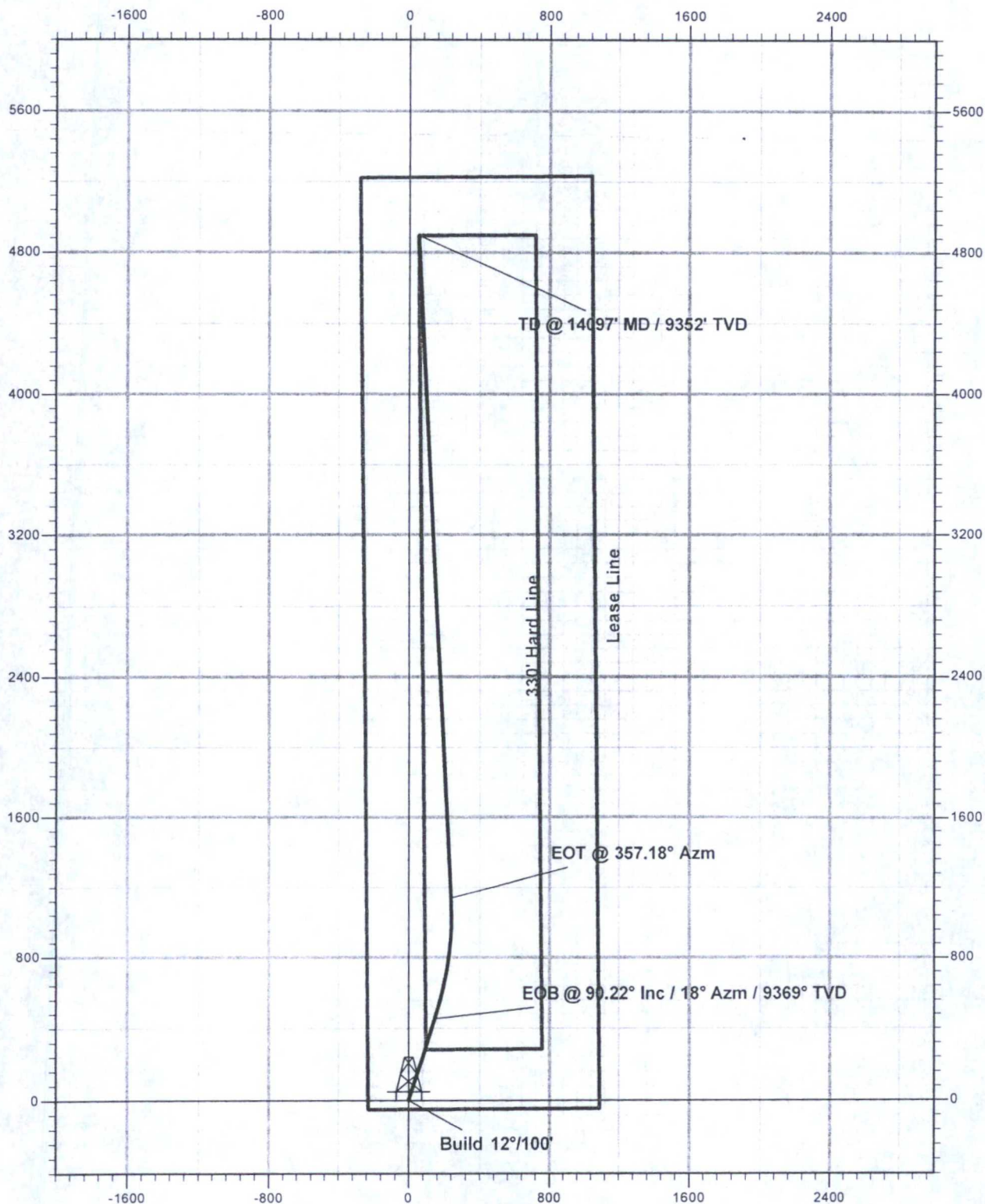
Formations

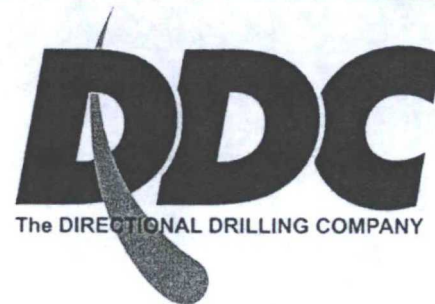
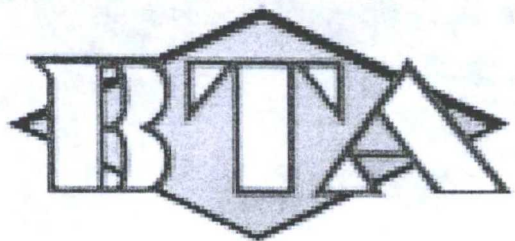
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
930.0	930.0	RUSTLER		-0.22	0.63
1,275.0	1,275.0	TOS		-0.22	0.63
4,847.0	4,847.0	BOS		-0.22	0.63
4,964.0	4,964.0	LMAR		-0.22	0.63
5,000.0	5,000.0	BLCN		-0.22	0.63
6,000.0	6,000.0	CYCN		-0.22	0.63
7,516.0	7,516.0	BYCN		-0.22	0.63
9,030.9	9,028.9	BONE SPRG		-0.22	0.63
9,096.0	9,089.8	U AVALON SH		-0.22	0.63

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,891.5	8,891.5	0.0	0.0	Build 12°/100'
9,643.3	9,369.0	455.8	148.1	EOB @ 90.22° Inc / 18° Azm / 9369° TVD
10,337.4	9,366.3	1,140.0	239.3	EOT @ 357.18° Azm
14,097.2	9,352.0	4,895.3	54.2	TD @ 14097' MD / 9352' TVD

Lea County, NM
Rojo E 7811 JV-P Federal #4H
Design #1

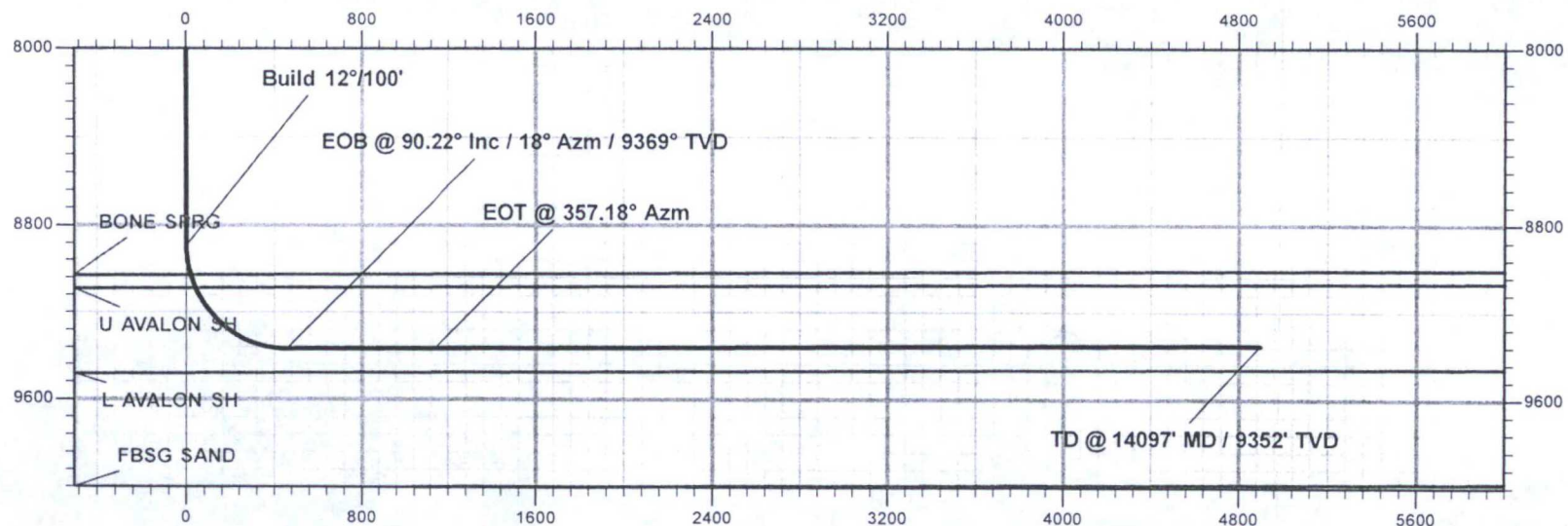




Lea County, NM

Rojo E 7811 JV-P Federal #4H

Design #1



Vertical Section at 0.63° (800 usft/in)