

BTA Oil Producers, LLC

Lea County, NM

Mesa Sec 1 & 12, T26S, R32E

Mesa #30H

Wellbore #1

Plan: Design #1

Standard Planning Report

17 March, 2015

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BTA Planning Report

Database: EDM 5000.1 Single User Db
Company: BTA Oil Producers, LLC
Project: Lea County, NM
Site: Mesa Sec 1 & 12, T26S, R32E
Well: Mesa #30H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Mesa #30H
TVD Reference: GL @ 3367.0usft (Original Well Elev)
MD Reference: GL @ 3367.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM, Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site	Mesa Sec 1 & 12, T26S, R32E		
Site Position:		Northing:	388,357.80 usft
From:	Map	Easting:	718,031.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 56.723 N
		Longitude:	103° 37' 46.202 W
		Grid Convergence:	0.37 °

Well	Mesa #30H		
Well Position	+N/-S	4,754.7 usft	Northing: 393,112.30 usft
	+E/-W	2,711.4 usft	Easting: 720,742.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 4' 43.597 N
		Longitude:	103° 37' 14.330 W
		Ground Level:	3,367.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	12/31/2009	7.76
			Dip Angle
			(°)
			60.10
			Field Strength
			(nT)
			48,700

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			179.48

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,947.0	0.00	0.00	8,947.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,847.0	90.00	179.48	9,520.0	-572.9	5.2	10.00	10.00	0.00	179.48	
19,415.8	90.00	179.48	9,520.0	-10,141.3	91.4	0.00	0.00	0.00	0.00	Mesa #30H BHL

BTA

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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
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

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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
5,500.0	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
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
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
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,947.0	0.00	0.00	8,947.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	5.30	179.48	8,999.9	-2.4	0.0	2.4	10.00	10.00	0.00
9,100.0	15.30	179.48	9,098.2	-20.3	0.2	20.3	10.00	10.00	0.00
9,200.0	25.30	179.48	9,191.9	-54.9	0.5	54.9	10.00	10.00	0.00
9,300.0	35.30	179.48	9,278.1	-105.3	0.9	105.3	10.00	10.00	0.00
9,400.0	45.30	179.48	9,354.3	-169.9	1.5	169.9	10.00	10.00	0.00
9,500.0	55.30	179.48	9,418.1	-246.7	2.2	246.7	10.00	10.00	0.00
9,600.0	65.30	179.48	9,467.6	-333.5	3.0	333.5	10.00	10.00	0.00
9,700.0	75.30	179.48	9,501.2	-427.5	3.9	427.5	10.00	10.00	0.00
9,800.0	85.30	179.48	9,518.1	-525.9	4.7	526.0	10.00	10.00	0.00
9,847.0	90.00	179.48	9,520.0	-572.9	5.2	573.0	10.00	10.00	0.00
9,900.0	90.00	179.48	9,520.0	-625.9	5.6	625.9	0.00	0.00	0.00
10,000.0	90.00	179.48	9,520.0	-725.9	6.5	725.9	0.00	0.00	0.00
10,100.0	90.00	179.48	9,520.0	-825.9	7.4	825.9	0.00	0.00	0.00
10,200.0	90.00	179.48	9,520.0	-925.9	8.3	925.9	0.00	0.00	0.00
10,300.0	90.00	179.48	9,520.0	-1,025.9	9.2	1,025.9	0.00	0.00	0.00
10,400.0	90.00	179.48	9,520.0	-1,125.9	10.1	1,125.9	0.00	0.00	0.00
10,500.0	90.00	179.48	9,520.0	-1,225.9	11.0	1,225.9	0.00	0.00	0.00

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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)
10,600.0	90.00	179.48	9,520.0	-1,325.9	12.0	1,325.9	0.00	0.00	0.00
10,700.0	90.00	179.48	9,520.0	-1,425.9	12.9	1,425.9	0.00	0.00	0.00
10,800.0	90.00	179.48	9,520.0	-1,525.9	13.8	1,525.9	0.00	0.00	0.00
10,900.0	90.00	179.48	9,520.0	-1,625.8	14.7	1,625.9	0.00	0.00	0.00
11,000.0	90.00	179.48	9,520.0	-1,725.8	15.6	1,725.9	0.00	0.00	0.00
11,100.0	90.00	179.48	9,520.0	-1,825.8	16.5	1,825.9	0.00	0.00	0.00
11,200.0	90.00	179.48	9,520.0	-1,925.8	17.4	1,925.9	0.00	0.00	0.00
11,300.0	90.00	179.48	9,520.0	-2,025.8	18.3	2,025.9	0.00	0.00	0.00
11,400.0	90.00	179.48	9,520.0	-2,125.8	19.2	2,125.9	0.00	0.00	0.00
11,500.0	90.00	179.48	9,520.0	-2,225.8	20.1	2,225.9	0.00	0.00	0.00
11,600.0	90.00	179.48	9,520.0	-2,325.8	21.0	2,325.9	0.00	0.00	0.00
11,700.0	90.00	179.48	9,520.0	-2,425.8	21.9	2,425.9	0.00	0.00	0.00
11,800.0	90.00	179.48	9,520.0	-2,525.8	22.8	2,525.9	0.00	0.00	0.00
11,900.0	90.00	179.48	9,520.0	-2,625.8	23.7	2,625.9	0.00	0.00	0.00
12,000.0	90.00	179.48	9,520.0	-2,725.8	24.6	2,725.9	0.00	0.00	0.00
12,100.0	90.00	179.48	9,520.0	-2,825.8	25.5	2,825.9	0.00	0.00	0.00
12,200.0	90.00	179.48	9,520.0	-2,925.8	26.4	2,925.9	0.00	0.00	0.00
12,300.0	90.00	179.48	9,520.0	-3,025.8	27.3	3,025.9	0.00	0.00	0.00
12,400.0	90.00	179.48	9,520.0	-3,125.8	28.2	3,125.9	0.00	0.00	0.00
12,500.0	90.00	179.48	9,520.0	-3,225.8	29.1	3,225.9	0.00	0.00	0.00
12,600.0	90.00	179.48	9,520.0	-3,325.8	30.0	3,325.9	0.00	0.00	0.00
12,700.0	90.00	179.48	9,520.0	-3,425.8	30.9	3,425.9	0.00	0.00	0.00
12,800.0	90.00	179.48	9,520.0	-3,525.8	31.8	3,525.9	0.00	0.00	0.00
12,900.0	90.00	179.48	9,520.0	-3,625.8	32.7	3,625.9	0.00	0.00	0.00
13,000.0	90.00	179.48	9,520.0	-3,725.8	33.6	3,725.9	0.00	0.00	0.00
13,100.0	90.00	179.48	9,520.0	-3,825.8	34.5	3,825.9	0.00	0.00	0.00
13,200.0	90.00	179.48	9,520.0	-3,925.8	35.4	3,925.9	0.00	0.00	0.00
13,300.0	90.00	179.48	9,520.0	-4,025.8	36.3	4,025.9	0.00	0.00	0.00
13,400.0	90.00	179.48	9,520.0	-4,125.7	37.2	4,125.9	0.00	0.00	0.00
13,500.0	90.00	179.48	9,520.0	-4,225.7	38.1	4,225.9	0.00	0.00	0.00
13,600.0	90.00	179.48	9,520.0	-4,325.7	39.0	4,325.9	0.00	0.00	0.00
13,700.0	90.00	179.48	9,520.0	-4,425.7	39.9	4,425.9	0.00	0.00	0.00
13,800.0	90.00	179.48	9,520.0	-4,525.7	40.8	4,525.9	0.00	0.00	0.00
13,900.0	90.00	179.48	9,520.0	-4,625.7	41.7	4,625.9	0.00	0.00	0.00
14,000.0	90.00	179.48	9,520.0	-4,725.7	42.6	4,725.9	0.00	0.00	0.00
14,100.0	90.00	179.48	9,520.0	-4,825.7	43.5	4,825.9	0.00	0.00	0.00
14,200.0	90.00	179.48	9,520.0	-4,925.7	44.4	4,925.9	0.00	0.00	0.00
14,300.0	90.00	179.48	9,520.0	-5,025.7	45.3	5,025.9	0.00	0.00	0.00
14,400.0	90.00	179.48	9,520.0	-5,125.7	46.2	5,125.9	0.00	0.00	0.00
14,500.0	90.00	179.48	9,520.0	-5,225.7	47.1	5,225.9	0.00	0.00	0.00
14,600.0	90.00	179.48	9,520.0	-5,325.7	48.0	5,325.9	0.00	0.00	0.00
14,700.0	90.00	179.48	9,520.0	-5,425.7	48.9	5,425.9	0.00	0.00	0.00
14,800.0	90.00	179.48	9,520.0	-5,525.7	49.8	5,525.9	0.00	0.00	0.00
14,900.0	90.00	179.48	9,520.0	-5,625.7	50.7	5,625.9	0.00	0.00	0.00
15,000.0	90.00	179.48	9,520.0	-5,725.7	51.6	5,725.9	0.00	0.00	0.00
15,100.0	90.00	179.48	9,520.0	-5,825.7	52.5	5,825.9	0.00	0.00	0.00
15,200.0	90.00	179.48	9,520.0	-5,925.7	53.4	5,925.9	0.00	0.00	0.00
15,300.0	90.00	179.48	9,520.0	-6,025.7	54.3	6,025.9	0.00	0.00	0.00
15,400.0	90.00	179.48	9,520.0	-6,125.7	55.2	6,125.9	0.00	0.00	0.00
15,500.0	90.00	179.48	9,520.0	-6,225.7	56.1	6,225.9	0.00	0.00	0.00
15,600.0	90.00	179.48	9,520.0	-6,325.7	57.0	6,325.9	0.00	0.00	0.00
15,700.0	90.00	179.48	9,520.0	-6,425.7	57.9	6,425.9	0.00	0.00	0.00
15,800.0	90.00	179.48	9,520.0	-6,525.7	58.8	6,525.9	0.00	0.00	0.00
15,900.0	90.00	179.48	9,520.0	-6,625.6	59.7	6,625.9	0.00	0.00	0.00

BTA

Planning Report

Database: EDM 5000.1 Single User Db
Company: BTA Oil Producers, LLC
Project: Lea County, NM
Site: Mesa Sec 1 & 12, T26S, R32E
Well: Mesa #30H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Mesa #30H
TVD Reference: GL @ 3367.0usft (Original Well Elev)
MD Reference: GL @ 3367.0usft (Original Well Elev)
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)
16,000.0	90.00	179.48	9,520.0	-6,725.6	60.6	6,725.9	0.00	0.00	0.00
16,100.0	90.00	179.48	9,520.0	-6,825.6	61.5	6,825.9	0.00	0.00	0.00
16,200.0	90.00	179.48	9,520.0	-6,925.6	62.4	6,925.9	0.00	0.00	0.00
16,300.0	90.00	179.48	9,520.0	-7,025.6	63.3	7,025.9	0.00	0.00	0.00
16,400.0	90.00	179.48	9,520.0	-7,125.6	64.2	7,125.9	0.00	0.00	0.00
16,500.0	90.00	179.48	9,520.0	-7,225.6	65.1	7,225.9	0.00	0.00	0.00
16,600.0	90.00	179.48	9,520.0	-7,325.6	66.0	7,325.9	0.00	0.00	0.00
16,700.0	90.00	179.48	9,520.0	-7,425.6	66.9	7,425.9	0.00	0.00	0.00
16,800.0	90.00	179.48	9,520.0	-7,525.6	67.8	7,525.9	0.00	0.00	0.00
16,900.0	90.00	179.48	9,520.0	-7,625.6	68.7	7,625.9	0.00	0.00	0.00
17,000.0	90.00	179.48	9,520.0	-7,725.6	69.6	7,725.9	0.00	0.00	0.00
17,100.0	90.00	179.48	9,520.0	-7,825.6	70.5	7,825.9	0.00	0.00	0.00
17,200.0	90.00	179.48	9,520.0	-7,925.6	71.4	7,925.9	0.00	0.00	0.00
17,300.0	90.00	179.48	9,520.0	-8,025.6	72.3	8,025.9	0.00	0.00	0.00
17,400.0	90.00	179.48	9,520.0	-8,125.6	73.2	8,125.9	0.00	0.00	0.00
17,500.0	90.00	179.48	9,520.0	-8,225.6	74.1	8,225.9	0.00	0.00	0.00
17,600.0	90.00	179.48	9,520.0	-8,325.6	75.0	8,325.9	0.00	0.00	0.00
17,700.0	90.00	179.48	9,520.0	-8,425.6	75.9	8,425.9	0.00	0.00	0.00
17,800.0	90.00	179.48	9,520.0	-8,525.6	76.8	8,525.9	0.00	0.00	0.00
17,900.0	90.00	179.48	9,520.0	-8,625.6	77.7	8,625.9	0.00	0.00	0.00
18,000.0	90.00	179.48	9,520.0	-8,725.6	78.6	8,725.9	0.00	0.00	0.00
18,100.0	90.00	179.48	9,520.0	-8,825.6	79.5	8,825.9	0.00	0.00	0.00
18,200.0	90.00	179.48	9,520.0	-8,925.6	80.4	8,925.9	0.00	0.00	0.00
18,300.0	90.00	179.48	9,520.0	-9,025.5	81.3	9,025.9	0.00	0.00	0.00
18,400.0	90.00	179.48	9,520.0	-9,125.5	82.2	9,125.9	0.00	0.00	0.00
18,500.0	90.00	179.48	9,520.0	-9,225.5	83.1	9,225.9	0.00	0.00	0.00
18,600.0	90.00	179.48	9,520.0	-9,325.5	84.1	9,325.9	0.00	0.00	0.00
18,700.0	90.00	179.48	9,520.0	-9,425.5	85.0	9,425.9	0.00	0.00	0.00
18,800.0	90.00	179.48	9,520.0	-9,525.5	85.9	9,525.9	0.00	0.00	0.00
18,900.0	90.00	179.48	9,520.0	-9,625.5	86.8	9,625.9	0.00	0.00	0.00
19,000.0	90.00	179.48	9,520.0	-9,725.5	87.7	9,725.9	0.00	0.00	0.00
19,100.0	90.00	179.48	9,520.0	-9,825.5	88.6	9,825.9	0.00	0.00	0.00
19,200.0	90.00	179.48	9,520.0	-9,925.5	89.5	9,925.9	0.00	0.00	0.00
19,300.0	90.00	179.48	9,520.0	-10,025.5	90.4	10,025.9	0.00	0.00	0.00
19,400.0	90.00	179.48	9,520.0	-10,125.5	91.3	10,125.9	0.00	0.00	0.00
19,415.8	90.00	179.48	9,520.0	-10,141.3	91.4	10,141.7	0.00	0.00	0.00

Mesa #30H BHL

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Mesa #30H BHL	0.00	0.00	9,520.0	-10,141.3	91.4	382,971.40	720,833.70	32° 3' 3.238 N	103° 37' 14.046 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Azimuths to Grid North
 True North: -0.38°
 Magnetic North: 7.38°

Magnetic Field
 Strength: 48700.2snT
 Dip Angle: 60.10°
 Date: 12/31/2009
 Model: IGRF200510

WELL DETAILS: Mesa #30H

	Ground Level:	3367.0		Latitude	Longitude
+N/-S	+E/-W	Northing	Easting		
0.0	0.0	393112.30	720742.30	32° 4' 43.597 N	103° 37' 14.330 W

SITE DETAILS: Mesa Sec 1 & 12, T26S, R32E

Site Centre Northing: 388357.80
 Easting: 718031.00

Positional Uncertainty: 0.0
 Convergence: 0.37
 Local North: Grid

CASING DETAILS

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

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
8947.0	0.00	0.00	8947.0	0.0	0.0	0.00	0.00	0.0	
9847.0	90.00	179.48	9520.0	-572.9	5.2	10.00	179.48	573.0	
19415.8	90.00	179.48	9520.0	-10141.3	91.4	0.00	0.00	10141.7	Mesa #30H BHL

