

B.C. Operating, INC.

Lea County, NM (NAD-27)

Sec 26-T25S-R34E

Dogie Draw 23 Federal 3H

Dogie Draw 23 Federal 3H

Plan: Plan #1

Standard Planning Report

23 April, 2015

HOBBS OCD

MAR 09 2017

RECEIVED



Hawkeye Directional Planning Report



Database: EDM 5000.1 Single User Db
Company: B.C. Operating, INC.
Project: Lea County, NM (NAD-27)
Site: Sec 26-T25S-R34E
Well: Dogie Draw 23 Federal 3H
Wellbore: Dogie Draw 23 Federal 3H
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Dogie Draw 23 Federal 3H
GL 3357' + KB 20' = 3377' @ 3377.00usft
GL 3357' + KB 20' = 3377' @ 3377.00usft
Grid
Minimum Curvature

Project	Lea County, NM (NAD-27)		
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 26-T25S-R34E		
Site Position:	Map	Northing:	404,125.91 usft
From:		Easting:	774,537.61 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32° 6' 28.636 N
		Longitude:	103° 26' 48.077 W
		Grid Convergence:	0.47 °

Well	Dogie Draw 23 Federal 3H		
Well Position	+N/-S	15.37 usft	Northing:
	+E/-W	2,644.03 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 6' 28.572 N
		Longitude:	103° 26' 17.338 W
		Ground Level:	3,357.00 usft

Wellbore	Dogie Draw 23 Federal 3H		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	04/20/15	7.04
			Dip Angle (°)
			60.00
			Field Strength (nT)
			48,176

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction (°)
			359.58

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,677.04	0.00	0.00	11,677.04	0.00	0.00	0.00	0.00	0.00	0.00	
12,577.04	90.00	359.58	12,250.00	572.94	-4.21	10.00	10.00	0.00	359.58	
17,280.51	90.00	359.58	12,250.00	5,276.28	-38.79	0.00	0.00	0.00	0.00	

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Grid
Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Hawkeye Directional

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,600.00	0.00	0.00	0.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,700.00	0.00	0.00	0.00	0.00	0.00	0.00

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Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,800.00	0.00	0.00	10,800.00	0.00	0.00	0.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00
11,000.00	0.00	0.00	11,000.00	0.00	0.00	0.00	0.00	0.00	0.00
11,100.00	0.00	0.00	11,100.00	0.00	0.00	0.00	0.00	0.00	0.00
11,200.00	0.00	0.00	11,200.00	0.00	0.00	0.00	0.00	0.00	0.00
11,300.00	0.00	0.00	11,300.00	0.00	0.00	0.00	0.00	0.00	0.00
11,400.00	0.00	0.00	11,400.00	0.00	0.00	0.00	0.00	0.00	0.00
11,500.00	0.00	0.00	11,500.00	0.00	0.00	0.00	0.00	0.00	0.00
11,600.00	0.00	0.00	11,600.00	0.00	0.00	0.00	0.00	0.00	0.00
11,677.04	0.00	0.00	11,677.04	0.00	0.00	0.00	0.00	0.00	0.00
Start Build at 11677.04' MD - DLS=10.00°/100'									
11,700.00	2.30	359.58	11,699.99	0.46	0.00	0.46	10.00	10.00	0.00
11,800.00	12.30	359.58	11,799.06	13.14	-0.10	13.14	10.00	10.00	0.00
11,900.00	22.30	359.58	11,894.42	42.83	-0.31	42.84	10.00	10.00	0.00
12,000.00	32.30	359.58	11,983.17	88.63	-0.65	88.64	10.00	10.00	0.00
12,100.00	42.30	359.58	12,062.62	149.15	-1.10	149.15	10.00	10.00	0.00
12,200.00	52.30	359.58	12,130.35	222.54	-1.64	222.54	10.00	10.00	0.00
12,300.00	62.30	359.58	12,184.32	306.58	-2.25	306.59	10.00	10.00	0.00
12,400.00	72.30	359.58	12,222.86	398.71	-2.93	398.72	10.00	10.00	0.00
12,500.00	82.30	359.58	12,244.83	496.13	-3.65	496.15	10.00	10.00	0.00
12,574.08	89.70	359.58	12,249.99	569.98	-4.19	570.00	10.00	10.00	0.00
Dogie Draw 23 Federal 3H / FTP									
12,577.04	90.00	359.58	12,250.00	572.94	-4.21	572.96	10.00	10.00	0.00
End Build at 12577.04' MD - Hold Angle=90.00°									
12,600.00	90.00	359.58	12,250.00	595.90	-4.38	595.92	0.00	0.00	0.00
12,700.00	90.00	359.58	12,250.00	695.90	-5.12	695.92	0.00	0.00	0.00
12,800.00	90.00	359.58	12,250.00	795.89	-5.85	795.92	0.00	0.00	0.00
12,900.00	90.00	359.58	12,250.00	895.89	-6.59	895.92	0.00	0.00	0.00
13,000.00	90.00	359.58	12,250.00	995.89	-7.32	995.92	0.00	0.00	0.00
13,100.00	90.00	359.58	12,250.00	1,095.89	-8.06	1,095.92	0.00	0.00	0.00
13,200.00	90.00	359.58	12,250.00	1,195.88	-8.79	1,195.92	0.00	0.00	0.00
13,300.00	90.00	359.58	12,250.00	1,295.88	-9.53	1,295.92	0.00	0.00	0.00
13,400.00	90.00	359.58	12,250.00	1,395.88	-10.26	1,395.92	0.00	0.00	0.00
13,500.00	90.00	359.58	12,250.00	1,495.87	-11.00	1,495.92	0.00	0.00	0.00
13,600.00	90.00	359.58	12,250.00	1,595.87	-11.73	1,595.92	0.00	0.00	0.00
13,700.00	90.00	359.58	12,250.00	1,695.87	-12.47	1,695.92	0.00	0.00	0.00
13,800.00	90.00	359.58	12,250.00	1,795.87	-13.20	1,795.92	0.00	0.00	0.00
13,900.00	90.00	359.58	12,250.00	1,895.86	-13.94	1,895.92	0.00	0.00	0.00
14,000.00	90.00	359.58	12,250.00	1,995.86	-14.67	1,995.92	0.00	0.00	0.00
14,100.00	90.00	359.58	12,250.00	2,095.86	-15.41	2,095.92	0.00	0.00	0.00
14,200.00	90.00	359.58	12,250.00	2,195.86	-16.14	2,195.92	0.00	0.00	0.00
14,300.00	90.00	359.58	12,250.00	2,295.85	-16.88	2,295.92	0.00	0.00	0.00
14,400.00	90.00	359.58	12,250.00	2,395.85	-17.61	2,395.92	0.00	0.00	0.00
14,500.00	90.00	359.58	12,250.00	2,495.85	-18.35	2,495.92	0.00	0.00	0.00
14,600.00	90.00	359.58	12,250.00	2,595.85	-19.08	2,595.92	0.00	0.00	0.00
14,700.00	90.00	359.58	12,250.00	2,695.84	-19.82	2,695.92	0.00	0.00	0.00
14,800.00	90.00	359.58	12,250.00	2,795.84	-20.55	2,795.92	0.00	0.00	0.00
14,900.00	90.00	359.58	12,250.00	2,895.84	-21.29	2,895.92	0.00	0.00	0.00
15,000.00	90.00	359.58	12,250.00	2,995.83	-22.02	2,995.92	0.00	0.00	0.00
15,100.00	90.00	359.58	12,250.00	3,095.83	-22.76	3,095.92	0.00	0.00	0.00
15,200.00	90.00	359.58	12,250.00	3,195.83	-23.50	3,195.92	0.00	0.00	0.00
15,300.00	90.00	359.58	12,250.00	3,295.83	-24.23	3,295.92	0.00	0.00	0.00
15,400.00	90.00	359.58	12,250.00	3,395.82	-24.97	3,395.92	0.00	0.00	0.00

Hawkeye Directional Planning Report



Database: EDM 5000.1 Single User Db
Company: B.C. Operating, INC.
Project: Lea County, NM (NAD-27)
Site: Sec 26-T25S-R34E
Well: Dogie Draw 23 Federal 3H
Wellbore: Dogie Draw 23 Federal 3H
Design: Plan #1

Local Co-ordinate Reference: Well Dogie Draw 23 Federal 3H
TVD Reference: GL 3357' + KB 20' = 3377' @ 3377.00usft
MD Reference: GL 3357' + KB 20' = 3377' @ 3377.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

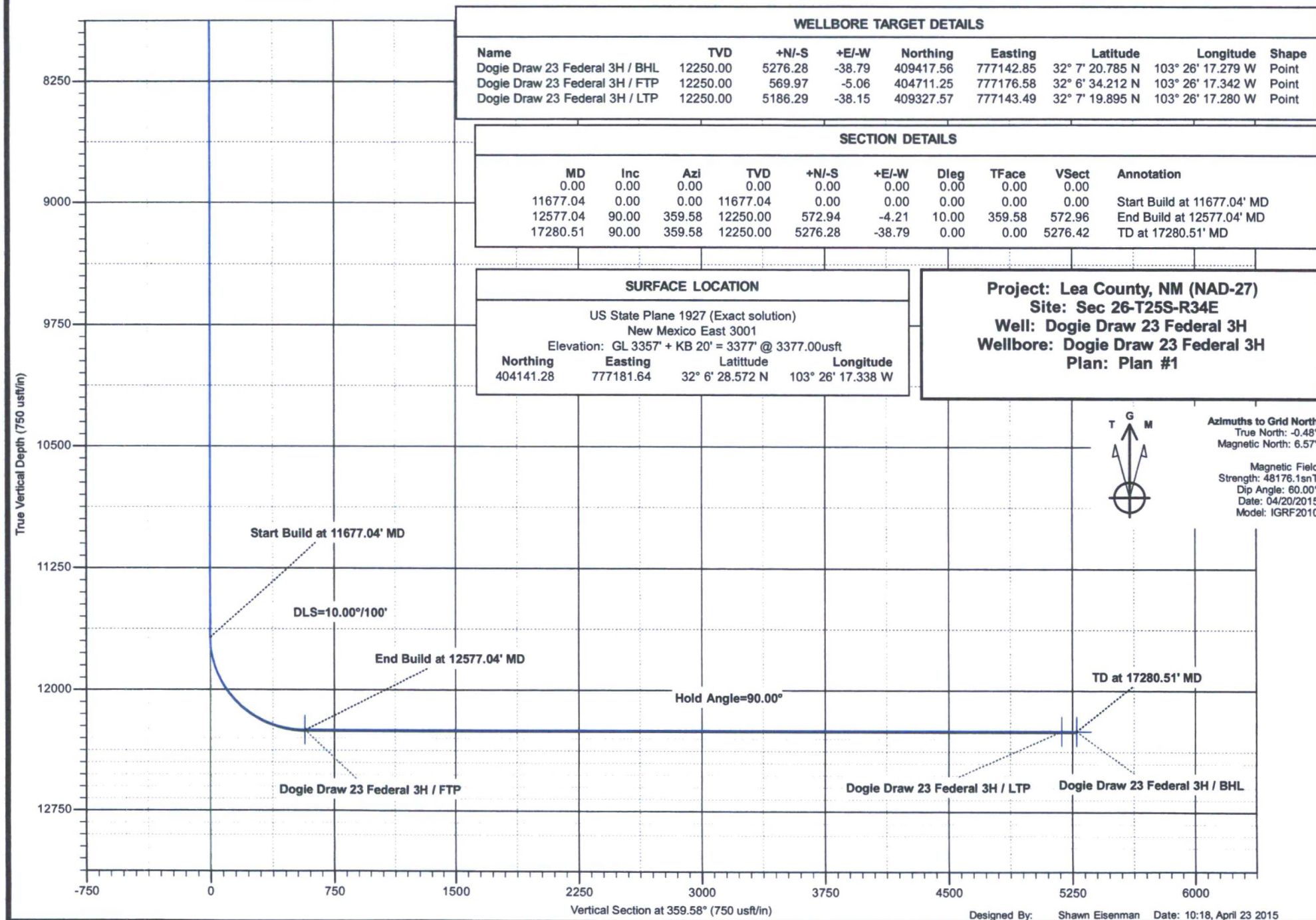
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,500.00	90.00	359.58	12,250.00	3,495.82	-25.70	3,495.92	0.00	0.00	0.00
15,600.00	90.00	359.58	12,250.00	3,595.82	-26.44	3,595.92	0.00	0.00	0.00
15,700.00	90.00	359.58	12,250.00	3,695.82	-27.17	3,695.92	0.00	0.00	0.00
15,800.00	90.00	359.58	12,250.00	3,795.81	-27.91	3,795.92	0.00	0.00	0.00
15,900.00	90.00	359.58	12,250.00	3,895.81	-28.64	3,895.92	0.00	0.00	0.00
16,000.00	90.00	359.58	12,250.00	3,995.81	-29.38	3,995.92	0.00	0.00	0.00
16,100.00	90.00	359.58	12,250.00	4,095.80	-30.11	4,095.92	0.00	0.00	0.00
16,200.00	90.00	359.58	12,250.00	4,195.80	-30.85	4,195.92	0.00	0.00	0.00
16,300.00	90.00	359.58	12,250.00	4,295.80	-31.58	4,295.92	0.00	0.00	0.00
16,400.00	90.00	359.58	12,250.00	4,395.80	-32.32	4,395.92	0.00	0.00	0.00
16,500.00	90.00	359.58	12,250.00	4,495.79	-33.05	4,495.92	0.00	0.00	0.00
16,600.00	90.00	359.58	12,250.00	4,595.79	-33.79	4,595.92	0.00	0.00	0.00
16,700.00	90.00	359.58	12,250.00	4,695.79	-34.52	4,695.92	0.00	0.00	0.00
16,800.00	90.00	359.58	12,250.00	4,795.79	-35.26	4,795.92	0.00	0.00	0.00
16,900.00	90.00	359.58	12,250.00	4,895.78	-35.99	4,895.92	0.00	0.00	0.00
17,000.00	90.00	359.58	12,250.00	4,995.78	-36.73	4,995.92	0.00	0.00	0.00
17,100.00	90.00	359.58	12,250.00	5,095.78	-37.46	5,095.92	0.00	0.00	0.00
17,190.52	90.00	359.58	12,250.00	5,186.29	-38.13	5,186.43	0.00	0.00	0.00
Dogie Draw 23 Federal 3H / LTP									
17,200.00	90.00	359.58	12,250.00	5,195.77	-38.20	5,195.92	0.00	0.00	0.00
17,280.51	90.00	359.58	12,250.00	5,276.28	-38.79	5,276.42	0.00	0.00	0.00
TD at 17280.51' MD - Dogie Draw 23 Federal 3H / BHL									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Dogie Draw 23 Federal 3H	0.00	0.00	12,250.00	5,186.29	-38.15	409,327.57	777,143.49	32° 7' 19.895 N	103° 26' 17.280 W
- plan misses target center by 0.02usft at 17190.52usft MD (12250.00 TVD, 5186.29 N, -38.13 E)									
- Point									
Dogie Draw 23 Federal 3H	0.00	0.00	12,250.00	5,276.28	-38.79	409,417.56	777,142.85	32° 7' 20.785 N	103° 26' 17.279 W
- plan hits target center									
- Point									
Dogie Draw 23 Federal 3H	0.00	0.00	12,250.00	569.97	-5.06	404,711.25	777,176.58	32° 6' 34.212 N	103° 26' 17.342 W
- plan misses target center by 0.87usft at 12574.08usft MD (12249.99 TVD, 569.98 N, -4.19 E)									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
11,677.04	11,677.04	0.00	0.00	Start Build at 11677.04' MD
11,677.04	11,677.04	0.00	0.00	DLS=10.00°/100'
12,577.04	12,250.00	572.94	-4.21	End Build at 12577.04' MD
12,577.04	12,250.00	572.94	-4.21	Hold Angle=90.00°
17,280.51	12,250.00	5,186.29	-38.13	TD at 17280.51' MD



Project: Lea County, NM (NAD-27)
 Site: Sec 26-T25S-R34E
 Well: Dogie Draw 23 Federal 3H
 Wellbore: Dogie Draw 23 Federal 3H
 Plan: Plan #1

SURFACE LOCATION

US State Plane 1927 (Exact solution)
 New Mexico East 3001
 Elevation: GL 3357' + KB 20' = 3377' @ 3377.00usft
 Northing 404141.28 Easting 777181.64 Latitude 32° 6' 28.572 N Longitude 103° 26' 17.338 W

