

Mewbourne Oil Co
Eddy County, New Mexico
Sec 3-20S-29E
Sharps 3 Fed Com #2H New SHL

Wellbore #1

Plan: Design #3

DDC Well Planning Report

16 February, 2012

SL: 400 FSL & 150 FEL
LP: 400 FSL & 627 FEL
BHL: 400 FSL & 330 FWL

Oil Conservation Division
Case No. 11
Exhibit No. 11

DDC
The DIRECTIONAL DRILLING COMPANY

DDC

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Sharps 3 Fed Com #2H New SHL
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3337.0usft (Patterson UTI #47)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3337.0usft (Patterson UTI #47)
Site:	Sec 3-20S-29E	North Reference:	Grid
Well:	Sharps 3 Fed Com #2H New SHL	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Project	Eddy County, New Mexico		
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 3-20S-29E		
Site Position:		Northing:	580,736.70 usft
From:	Map	Easting:	585,955.21 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 35' 46.466 N
		Longitude:	104° 3' 15.239 W
		Grid Convergence:	0.15 °

Well:	Sharps 3 Fed Com #2H New SHL		
Well Position	+N/-S	0.0 usft	Northing: 580,736.70 usft
	+E/-W	0.0 usft	Easting: 585,955.21 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 35' 46.466 N
			Longitude: 104° 3' 15.239 W
			Ground Level: 3,319.0 usft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/27/2011	7.79	60.44	48,751

Design	Design #3		
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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	269.95

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	
7,664.6	0.00	0.00	7,664.6	0.0	0.0	0.00	0.00	0.00	0.00	
8,421.2	90.79	269.95	8,142.0	-0.4	-484.1	12.00	12.00	-11.90	269.95	
12,758.2	90.79	269.95	8,082.0	-4.2	-4,820.6	0.00	0.00	0.00	0.00	PBHL Sharps 3 Fec

DDC

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Site:	Sec 3-20S-29E	North Reference:	Grid
Well:	Sharps 3 Fed Com #2H New SHL	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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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Site:	Sec 3-20S-29E	North Reference:	Grid
Well:	Sharps 3 Fed Com #2H New SHL	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)
5,400.0	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
Build 12°/100' @ 7665' MD									
7,664.6	0.00	0.00	7,664.6	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	4.25	269.95	7,700.0	0.0	-1.3	1.3	12.00	12.00	0.00
7,800.0	16.25	269.95	7,798.2	0.0	-19.1	19.1	12.00	12.00	0.00
7,900.0	28.25	269.95	7,890.6	0.0	-56.9	56.9	12.00	12.00	0.00
8,000.0	40.25	269.95	7,973.1	-0.1	-113.0	113.0	12.00	12.00	0.00
8,100.0	52.25	269.95	8,042.1	-0.2	-185.1	185.1	12.00	12.00	0.00
8,200.0	64.25	269.95	8,094.6	-0.2	-270.0	270.0	12.00	12.00	0.00
8,300.0	76.25	269.95	8,128.4	-0.3	-364.0	364.0	12.00	12.00	0.00
8,400.0	88.25	269.95	8,141.8	-0.4	-462.9	462.9	12.00	12.00	0.00
EOB @ 8421' MD / 90.79° Inc / 269.95° Azm / 8142' TVD									
8,421.2	90.79	269.95	8,142.0	-0.4	-484.1	484.1	12.00	12.00	0.00
8,500.0	90.79	269.95	8,140.9	-0.5	-562.9	562.9	0.00	0.00	0.00
8,600.0	90.79	269.95	8,139.5	-0.6	-662.8	662.8	0.00	0.00	0.00
8,700.0	90.79	269.95	8,138.2	-0.7	-762.8	762.8	0.00	0.00	0.00
8,800.0	90.79	269.95	8,136.8	-0.8	-862.8	862.8	0.00	0.00	0.00
8,900.0	90.79	269.95	8,135.4	-0.8	-962.8	962.8	0.00	0.00	0.00
9,000.0	90.79	269.95	8,134.0	-0.9	-1,062.8	1,062.8	0.00	0.00	0.00
9,100.0	90.79	269.95	8,132.6	-1.0	-1,162.8	1,162.8	0.00	0.00	0.00
9,200.0	90.79	269.95	8,131.2	-1.1	-1,262.8	1,262.8	0.00	0.00	0.00
9,300.0	90.79	269.95	8,129.9	-1.2	-1,362.8	1,362.8	0.00	0.00	0.00
9,400.0	90.79	269.95	8,128.5	-1.3	-1,462.8	1,462.8	0.00	0.00	0.00
9,500.0	90.79	269.95	8,127.1	-1.4	-1,562.8	1,562.8	0.00	0.00	0.00
9,600.0	90.79	269.95	8,125.7	-1.4	-1,662.8	1,662.8	0.00	0.00	0.00
9,700.0	90.79	269.95	8,124.3	-1.5	-1,762.7	1,762.7	0.00	0.00	0.00
9,800.0	90.79	269.95	8,122.9	-1.6	-1,862.7	1,862.7	0.00	0.00	0.00
9,900.0	90.79	269.95	8,121.6	-1.7	-1,962.7	1,962.7	0.00	0.00	0.00
10,000.0	90.79	269.95	8,120.2	-1.8	-2,062.7	2,062.7	0.00	0.00	0.00
10,100.0	90.79	269.95	8,118.8	-1.9	-2,162.7	2,162.7	0.00	0.00	0.00
10,200.0	90.79	269.95	8,117.4	-2.0	-2,262.7	2,262.7	0.00	0.00	0.00

DDC

Well Planning Report



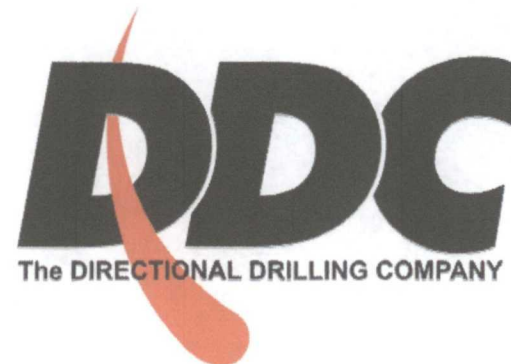
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Wellbore:	Wellbore #1		
Design:	Design #3		

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)
10,300.0	90.79	269.95	8,116.0	-2.1	-2,362.7	2,362.7	0.00	0.00	0.00
10,400.0	90.79	269.95	8,114.6	-2.1	-2,462.7	2,462.7	0.00	0.00	0.00
10,500.0	90.79	269.95	8,113.3	-2.2	-2,562.7	2,562.7	0.00	0.00	0.00
10,600.0	90.79	269.95	8,111.9	-2.3	-2,662.7	2,662.7	0.00	0.00	0.00
10,700.0	90.79	269.95	8,110.5	-2.4	-2,762.6	2,762.6	0.00	0.00	0.00
10,800.0	90.79	269.95	8,109.1	-2.5	-2,862.6	2,862.6	0.00	0.00	0.00
10,900.0	90.79	269.95	8,107.7	-2.6	-2,962.6	2,962.6	0.00	0.00	0.00
11,000.0	90.79	269.95	8,106.3	-2.7	-3,062.6	3,062.6	0.00	0.00	0.00
11,100.0	90.79	269.95	8,104.9	-2.8	-3,162.6	3,162.6	0.00	0.00	0.00
11,200.0	90.79	269.95	8,103.6	-2.8	-3,262.6	3,262.6	0.00	0.00	0.00
11,300.0	90.79	269.95	8,102.2	-2.9	-3,362.6	3,362.6	0.00	0.00	0.00
11,400.0	90.79	269.95	8,100.8	-3.0	-3,462.6	3,462.6	0.00	0.00	0.00
11,500.0	90.79	269.95	8,099.4	-3.1	-3,562.6	3,562.6	0.00	0.00	0.00
11,600.0	90.79	269.95	8,098.0	-3.2	-3,662.6	3,662.6	0.00	0.00	0.00
11,700.0	90.79	269.95	8,096.6	-3.3	-3,762.5	3,762.6	0.00	0.00	0.00
11,800.0	90.79	269.95	8,095.3	-3.4	-3,862.5	3,862.5	0.00	0.00	0.00
11,900.0	90.79	269.95	8,093.9	-3.5	-3,962.5	3,962.5	0.00	0.00	0.00
12,000.0	90.79	269.95	8,092.5	-3.5	-4,062.5	4,062.5	0.00	0.00	0.00
12,100.0	90.79	269.95	8,091.1	-3.6	-4,162.5	4,162.5	0.00	0.00	0.00
12,200.0	90.79	269.95	8,089.7	-3.7	-4,262.5	4,262.5	0.00	0.00	0.00
12,300.0	90.79	269.95	8,088.3	-3.8	-4,362.5	4,362.5	0.00	0.00	0.00
12,400.0	90.79	269.95	8,087.0	-3.9	-4,462.5	4,462.5	0.00	0.00	0.00
12,500.0	90.79	269.95	8,085.6	-4.0	-4,562.5	4,562.5	0.00	0.00	0.00
12,600.0	90.79	269.95	8,084.2	-4.1	-4,662.5	4,662.5	0.00	0.00	0.00
12,700.0	90.79	269.95	8,082.8	-4.1	-4,762.5	4,762.5	0.00	0.00	0.00
TD @ 12758' MD / 8082' TVD									
12,758.2	90.79	269.95	8,082.0	-4.2	-4,820.6	4,820.6	0.00	0.00	0.00

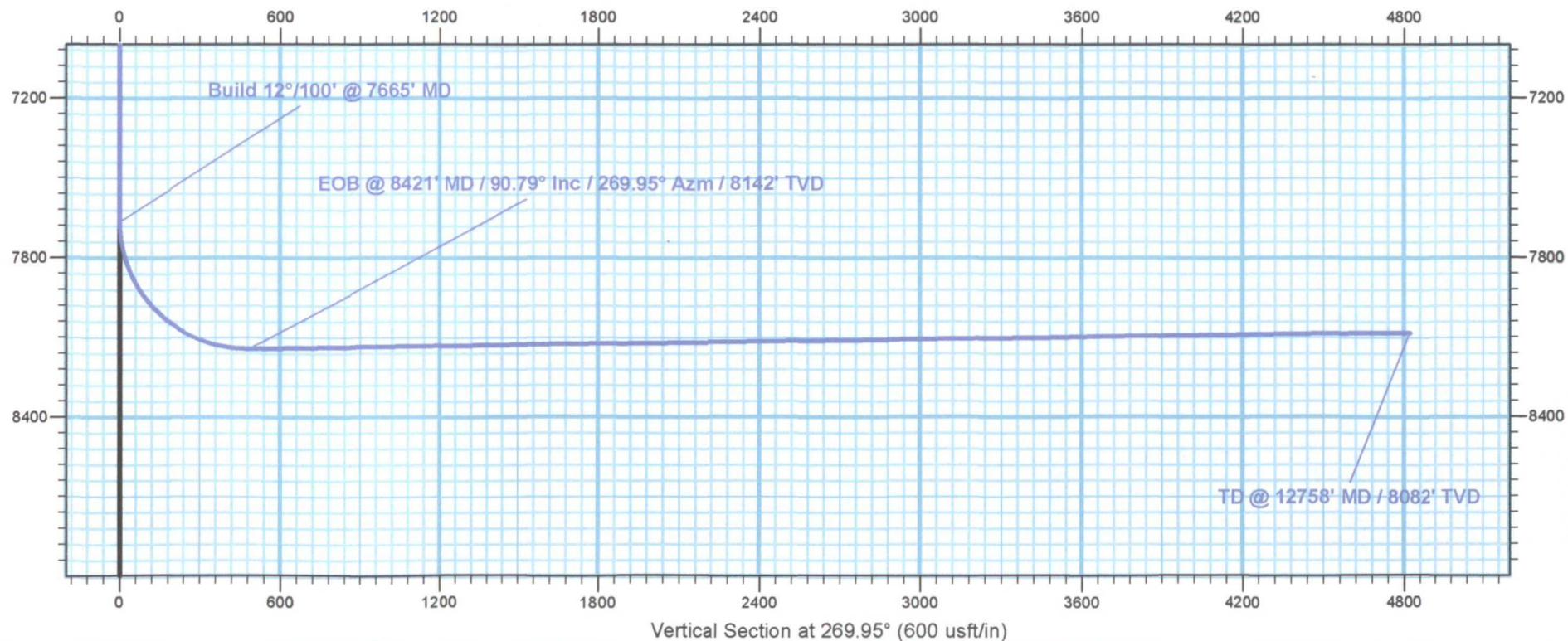
Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target									
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL Sharps 3 Fed C	0.00	0.00	8,082.0	-4.2	-4,820.6	580,732.50	581,134.61	32° 35' 46.546 N	104° 4' 11.588 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,664.6	7,664.6	0.0	0.0	Build 12°/100' @ 7665' MD
8,421.2	8,142.0	-0.4	-484.1	EOB @ 8421' MD / 90.79° Inc / 269.95° Azm / 8142' TVD
12,758.2	8,082.0	-4.2	-4,820.6	TD @ 12758' MD / 8082' TVD

Mewbourne Oil Company



Eddy County, New Mexico
Sharps 3 Fed Com #2H New SHL
Quote 110609



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