



HOBBS COO

APR 18 2016

RECEIVED

COG Operating LLC

Lea County, NM

Flat Head Federal Com #15H

SHL: 940' FNL, 2440' FEL, Sec 14, T17S, R32E, Unit B

PP: 434' FNL, 2316.4' FEL, Sec 14, T17S, R32E, Unit B

BHL: 330' FNL, 2310' FEL, Sec 11, T17S, R32E, Unit B

Plan: Plan #1

Standard Planning Report

28 May, 2015



APR 22 2016



TDS
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SHL: 940' FNL, 2440' FEL, Sec 14, T17S, R32E, Unit B
Company:	COG Operating LLC	TVD Reference:	KB @ 4100.0usft (United 43)
Project:	Lea County, NM	MD Reference:	KB @ 4100.0usft (United 43)
Site:	Flat Head Federal Com #15H	North Reference:	Grid
Well:	SHL: 940' FNL, 2440' FEL, Sec 14, T17S, R32E, Unit B	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL, 2310' FEL, Sec 11, T17S, R32E, Unit B		
Design:	Plan #1		

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	Flat Head Federal Com #15H		
Site Position:		Northing:	669,493.40 usft
From:	Map	Easting:	683,484.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 50' 20.749 N
		Longitude:	103° 44' 9.380 W
		Grid Convergence:	0.32 °

Well	SHL: 940' FNL, 2440' FEL, Sec 14, T17S, R32E, Unit B		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 50' 20.749 N
		Longitude:	103° 44' 9.380 W
		Ground Level:	4,088.0 usft

Wellbore	BHL: 330' FNL, 2310' FEL, Sec 11, T17S, R32E, Unit B		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	5/21/2015	7.22
			Dip Angle
			60.63
			Field Strength
			48,569

Design	Plan #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
			0.91

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(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	
5,379.1	0.00	0.00	5,379.1	0.0	0.0	0.00	0.00	0.00	0.00	
6,197.3	90.00	13.73	5,900.0	506.0	123.6	11.00	11.00	0.00	13.73	
6,687.9	90.00	359.01	5,900.0	992.2	177.9	3.00	0.00	-3.00	-90.00	
11,592.1	90.00	359.01	5,900.0	5,895.7	93.3	0.00	0.00	0.00	0.00	PBHL (FHFC #15H/O)



TDS
Planning Report



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Company:	COG Operating LLC	TVD Reference:	KB @ 4100.0usft (United 43)
Project:	Lea County, NM	MD Reference:	KB @ 4100.0usft (United 43)
Site:	Flat Head Federal Com #15H	North Reference:	Grid
Well:	SHL: 940' FNL, 2440' FEL, Sec 14, T17S, R32E, Unit B	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL, 2310' FEL, Sec 11, T17S, R32E, Unit B		
Design:	Plan #1		

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



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Planning Report



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Wellbore:	BHL: 330' FNL, 2310' FEL, Sec 11, T17S, R32E, Unit B		
Design:	Plan #1		

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)
5,100.0	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
5,379.1	0.00	0.00	5,379.1	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 11.00									
5,400.0	2.30	13.73	5,400.0	0.4	0.1	0.4	11.00	11.00	0.00
5,450.0	7.80	13.73	5,449.8	4.7	1.1	4.7	11.00	11.00	0.00
5,500.0	13.30	13.73	5,498.9	13.6	3.3	13.6	11.00	11.00	0.00
5,550.0	18.80	13.73	5,547.0	27.0	6.6	27.1	11.00	11.00	0.00
5,600.0	24.30	13.73	5,593.4	44.8	11.0	45.0	11.00	11.00	0.00
5,650.0	29.80	13.73	5,638.0	66.9	16.3	67.2	11.00	11.00	0.00
5,700.0	35.30	13.73	5,680.1	93.0	22.7	93.4	11.00	11.00	0.00
5,750.0	40.80	13.73	5,719.4	123.0	30.0	123.4	11.00	11.00	0.00
5,800.0	46.30	13.73	5,755.7	156.4	38.2	157.0	11.00	11.00	0.00
5,850.0	51.80	13.73	5,788.4	193.1	47.2	193.8	11.00	11.00	0.00
5,900.0	57.30	13.73	5,817.4	232.6	56.8	233.5	11.00	11.00	0.00
5,950.0	62.80	13.73	5,842.4	274.7	67.1	275.7	11.00	11.00	0.00
6,000.0	68.30	13.73	5,863.1	318.9	77.9	320.1	11.00	11.00	0.00
6,050.0	73.80	13.73	5,879.3	364.8	89.1	366.2	11.00	11.00	0.00
6,100.0	79.30	13.73	5,890.9	412.0	100.7	413.6	11.00	11.00	0.00
6,150.0	84.80	13.73	5,897.8	460.1	112.4	461.8	11.00	11.00	0.00
6,197.3	90.00	13.73	5,900.0	506.0	123.6	507.9	11.00	11.00	0.00
EOC/TURN - Start DLS 3.00 TFO -90.00									
6,200.0	90.00	13.65	5,900.0	508.6	124.3	510.5	3.00	0.00	-3.00
6,300.0	90.00	10.65	5,900.0	606.4	145.3	608.6	3.00	0.00	-3.00
6,400.0	90.00	7.65	5,900.0	705.1	161.2	707.6	3.00	0.00	-3.00
6,500.0	90.00	4.65	5,900.0	804.5	171.9	807.1	3.00	0.00	-3.00
6,600.0	90.00	1.65	5,900.0	904.3	177.4	907.0	3.00	0.00	-3.00
6,687.9	90.00	359.01	5,900.0	992.2	177.9	994.9	3.00	0.00	-3.00
END TURN - Start 4904.2 hold at 6687.9 MD									
6,700.0	90.00	359.01	5,900.0	1,004.3	177.7	1,007.0	0.00	0.00	0.00
6,800.0	90.00	359.01	5,900.0	1,104.3	176.0	1,107.0	0.00	0.00	0.00
6,900.0	90.00	359.01	5,900.0	1,204.3	174.3	1,206.9	0.00	0.00	0.00
7,000.0	90.00	359.01	5,900.0	1,304.3	172.5	1,306.9	0.00	0.00	0.00
7,100.0	90.00	359.01	5,900.0	1,404.3	170.8	1,406.8	0.00	0.00	0.00
7,200.0	90.00	359.01	5,900.0	1,504.3	169.1	1,506.7	0.00	0.00	0.00
7,300.0	90.00	359.01	5,900.0	1,604.2	167.4	1,606.7	0.00	0.00	0.00
7,400.0	90.00	359.01	5,900.0	1,704.2	165.6	1,706.6	0.00	0.00	0.00
7,500.0	90.00	359.01	5,900.0	1,804.2	163.9	1,806.6	0.00	0.00	0.00
7,600.0	90.00	359.01	5,900.0	1,904.2	162.2	1,906.5	0.00	0.00	0.00
7,700.0	90.00	359.01	5,900.0	2,004.2	160.5	2,006.5	0.00	0.00	0.00
7,800.0	90.00	359.01	5,900.0	2,104.2	158.7	2,106.4	0.00	0.00	0.00
7,900.0	90.00	359.01	5,900.0	2,204.2	157.0	2,206.4	0.00	0.00	0.00
8,000.0	90.00	359.01	5,900.0	2,304.1	155.3	2,306.3	0.00	0.00	0.00
8,100.0	90.00	359.01	5,900.0	2,404.1	153.6	2,406.3	0.00	0.00	0.00
8,200.0	90.00	359.01	5,900.0	2,504.1	151.8	2,506.2	0.00	0.00	0.00
8,300.0	90.00	359.01	5,900.0	2,604.1	150.1	2,606.1	0.00	0.00	0.00
8,400.0	90.00	359.01	5,900.0	2,704.1	148.4	2,706.1	0.00	0.00	0.00
8,500.0	90.00	359.01	5,900.0	2,804.1	146.7	2,806.0	0.00	0.00	0.00
8,600.0	90.00	359.01	5,900.0	2,904.1	144.9	2,906.0	0.00	0.00	0.00
8,700.0	90.00	359.01	5,900.0	3,004.0	143.2	3,005.9	0.00	0.00	0.00



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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)	
8,800.0	90.00	359.01	5,900.0	3,104.0	141.5	3,105.9	0.00	0.00	0.00	
8,900.0	90.00	359.01	5,900.0	3,204.0	139.7	3,205.8	0.00	0.00	0.00	
9,000.0	90.00	359.01	5,900.0	3,304.0	138.0	3,305.8	0.00	0.00	0.00	
9,100.0	90.00	359.01	5,900.0	3,404.0	136.3	3,405.7	0.00	0.00	0.00	
9,200.0	90.00	359.01	5,900.0	3,504.0	134.6	3,505.7	0.00	0.00	0.00	
9,300.0	90.00	359.01	5,900.0	3,603.9	132.8	3,605.6	0.00	0.00	0.00	
9,400.0	90.00	359.01	5,900.0	3,703.9	131.1	3,705.5	0.00	0.00	0.00	
9,500.0	90.00	359.01	5,900.0	3,803.9	129.4	3,805.5	0.00	0.00	0.00	
9,600.0	90.00	359.01	5,900.0	3,903.9	127.7	3,905.4	0.00	0.00	0.00	
9,700.0	90.00	359.01	5,900.0	4,003.9	125.9	4,005.4	0.00	0.00	0.00	
9,800.0	90.00	359.01	5,900.0	4,103.9	124.2	4,105.3	0.00	0.00	0.00	
9,900.0	90.00	359.01	5,900.0	4,203.9	122.5	4,205.3	0.00	0.00	0.00	
10,000.0	90.00	359.01	5,900.0	4,303.8	120.8	4,305.2	0.00	0.00	0.00	
10,100.0	90.00	359.01	5,900.0	4,403.8	119.0	4,405.2	0.00	0.00	0.00	
10,200.0	90.00	359.01	5,900.0	4,503.8	117.3	4,505.1	0.00	0.00	0.00	
10,300.0	90.00	359.01	5,900.0	4,603.8	115.6	4,605.1	0.00	0.00	0.00	
10,400.0	90.00	359.01	5,900.0	4,703.8	113.9	4,705.0	0.00	0.00	0.00	
10,500.0	90.00	359.01	5,900.0	4,803.8	112.1	4,804.9	0.00	0.00	0.00	
10,600.0	90.00	359.01	5,900.0	4,903.8	110.4	4,904.9	0.00	0.00	0.00	
10,700.0	90.00	359.01	5,900.0	5,003.7	108.7	5,004.8	0.00	0.00	0.00	
10,800.0	90.00	359.01	5,900.0	5,103.7	107.0	5,104.8	0.00	0.00	0.00	
10,900.0	90.00	359.01	5,900.0	5,203.7	105.2	5,204.7	0.00	0.00	0.00	
11,000.0	90.00	359.01	5,900.0	5,303.7	103.5	5,304.7	0.00	0.00	0.00	
11,100.0	90.00	359.01	5,900.0	5,403.7	101.8	5,404.6	0.00	0.00	0.00	
11,200.0	90.00	359.01	5,900.0	5,503.7	100.1	5,504.6	0.00	0.00	0.00	
11,300.0	90.00	359.01	5,900.0	5,603.6	98.3	5,604.5	0.00	0.00	0.00	
11,400.0	90.00	359.01	5,900.0	5,703.6	96.6	5,704.4	0.00	0.00	0.00	
11,500.0	90.00	359.01	5,900.0	5,803.6	94.9	5,804.4	0.00	0.00	0.00	
11,592.1	90.00	359.01	5,900.0	5,895.7	93.3	5,896.4	0.00	0.00	0.00	
TD at 11592.1										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
EOC (FHFC #15H/OH P - hit/miss target center - Shape - Point	0.00	0.00	5,900.0	506.0	123.6	669,999.41	683,607.83	32° 50' 25.749 N	103° 44' 7.898 W
PBHL (FHFC #15H/OH) - plan hits target center - Point	0.00	0.00	5,900.0	5,895.7	93.3	675,389.10	683,577.50	32° 51' 19.081 N	103° 44' 7.896 W



TDS
Planning Report

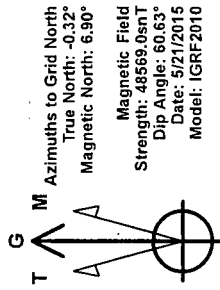


Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SHL: 940' FNL, 2440' FEL, Sec 14, T17S, R32E, Unit B
Company:	COG Operating LLC	TVD Reference:	KB @ 4100.0usft (United 43)
Project:	Lea County, NM	MD Reference:	KB @ 4100.0usft (United 43)
Site:	Flat Head Federal Com #15H	North Reference:	Grid
Well:	SHL: 940' FNL, 2440' FEL, Sec 14, T17S, R32E, Unit B	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL, 2310' FEL, Sec 11, T17S, R32E, Unit B		
Design:	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
5,379.1	5,379.1	0.0	0.0	KOP - Start Build 11.00
6,197.3	5,900.0	506.0	123.6	EOC/TURN - Start DLS 3.00 TFO -90.00
6,687.9	5,900.0	992.2	177.9	END TURN - Start 4904.2 hold at 6687.9 MD
11,592.1	5,900.0	5,895.7	93.3	TD at 11592.1



COG Operating LLC
Project: Lea County, NM
Site: Flat Head Federal Com #15H
Well: SHL: 940' FNL, 2440' FEL, Sec 14, T17S, R32E, Unit B
Wellbore: BHL: 330' FNL, 2310' FEL, Sec 11, T17S, R32E, Unit B
Plan: Plan #1 (SHL: 940' FNL, 2440' FEL, Sec 14, T17S, R32E, Unit B/BHL: 330' FNL, 2310' FEL, Sec 11, T17S, R32E, Unit B)



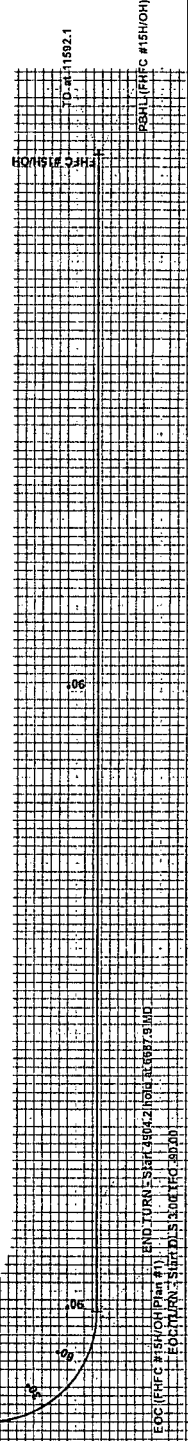
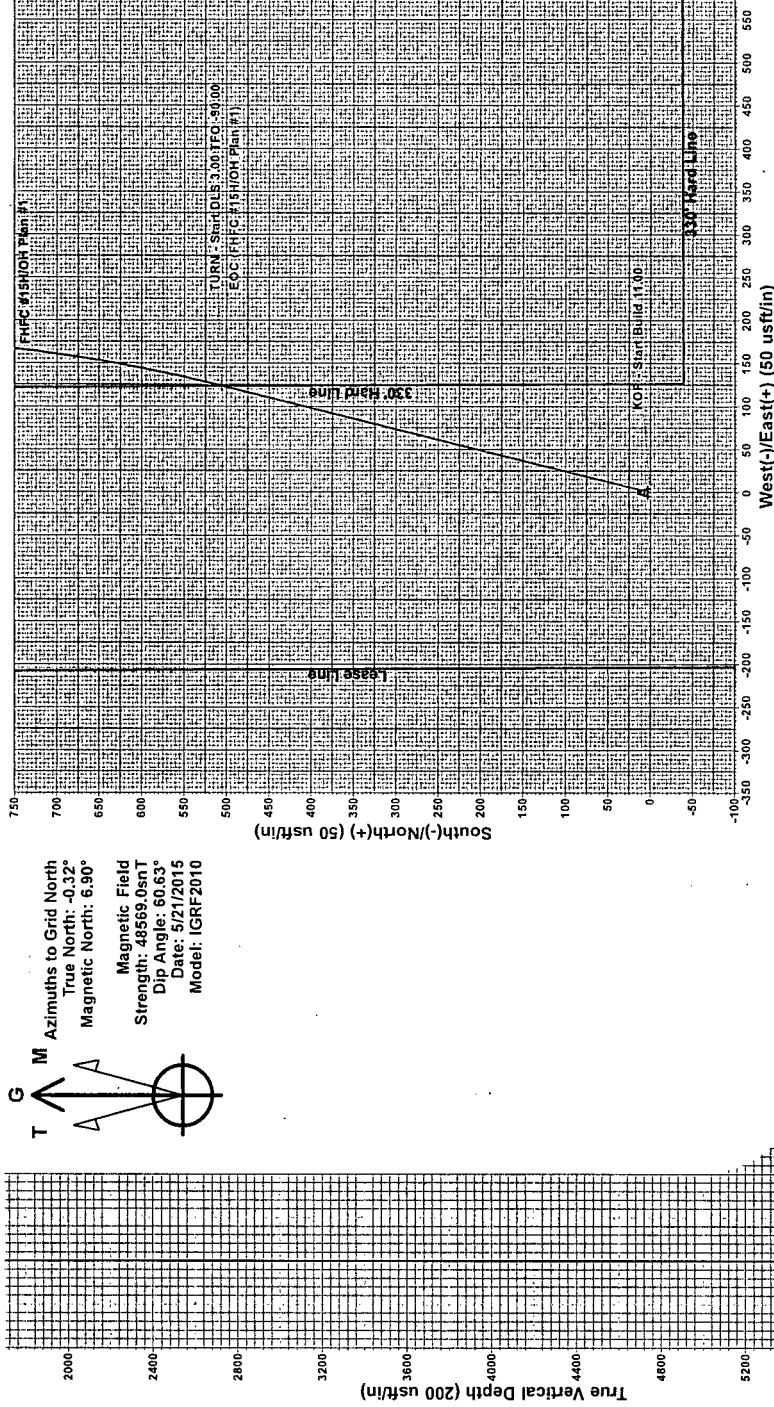
Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0
2	5379.1	0.00	0.00	5379.1	0.0	0.0	0.00	0.00	0.0	0.0
3	6197.3	90.00	13.73	5900.0	506.0	123.6	11.00	13.73	507.9	507.9
4	6687.9	90.00	359.01	5900.0	992.2	177.9	3.00	-90.00	994.9	994.9
5	11592.1	90.00	359.01	5900.0	5895.7	93.3	0.00	0.00	5896.4	5896.4

WELL DETAILS: SHL: 940' FNL, 2440' FEL, Sec 14, T17S, R32E, Unit B

Ground Elevation: 4088.0
RKB Elevation: KB @ 4100.0usft (United 43)
Rig Name: United 43

Northing 669493.40 Easting 683484.20 Latitude 32° 50' 20.749 N Longitude 103° 44' 9.380 W



Vertical Section at 0.91° (200 usft/in)
Terra Directional Services LLC
322 Spring Hill Drive, Suite A300, Spring, Tx 77386
Phone: 432-425-7532

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: Mean Sea Level
Local North: Grid