

NOBBS OCD

APR 21 2016

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COG Production LLC

Lea County, NM

Azores Federal

#11H

OH

Plan: Design #1

Standard Planning Report

09 February, 2016

APR 25 2016



Wellplanning Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #11H
Company:	COG Production LLC	TVD Reference:	WELL @ 3509.7usft (Original Well Elev)
Project:	Lea County, NM	MD Reference:	WELL @ 3509.7usft (Original Well Elev)
Site:	Azores Federal	North Reference:	Grid
Well:	#11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #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	Azores Federal		
Site Position:	Map	Northing:	430,370.30 usft
From:		Easting:	698,107.40 usft
Position Uncertainty:	2.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 53.703 N
		Longitude:	103° 41' 34.825 W
		Grid Convergence:	0.34 °

Well	#11H		
Well Position	+N/-S	-409.2 usft	Northing:
	+E/-W	-817.2 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,491.7 usft
			Latitude:
			Longitude:

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	2/9/2016	7.15
			Dip/Angle
			60.02
			Field Strength
			48,037

Design	Design #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			1.35

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	
8,712.5	0.00	0.00	8,712.5	0.0	0.0	0.00	0.00	0.00	0.00	
9,462.6	90.00	1.35	9,190.0	477.4	11.2	12.00	12.00	0.00	1.35	
14,149.9	90.00	1.35	9,190.0	5,163.4	121.7	0.00	0.00	0.00	0.00	PBHL(AF#11H)



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Wellbore:	OH		
Design:	Design #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
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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Wellbore:	OH		
Design:	Design #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)	
5,400.0	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	
8,712.5	0.00	0.00	8,712.5	0.0	0.0	0.0	0.00	0.00	0.00	
KOP - 8712.5 MD, 0.00° INC, 0.00° AZI										
8,725.0	1.50	1.35	8,725.0	0.2	0.0	0.2	12.00	12.00	0.00	
8,750.0	4.50	1.35	8,750.0	1.5	0.0	1.5	12.00	12.00	0.00	
8,775.0	7.50	1.35	8,774.8	4.1	0.1	4.1	12.00	12.00	0.00	
8,800.0	10.50	1.35	8,799.5	8.0	0.2	8.0	12.00	12.00	0.00	
8,825.0	13.50	1.35	8,824.0	13.2	0.3	13.2	12.00	12.00	0.00	
8,850.0	16.50	1.35	8,848.1	19.7	0.5	19.7	12.00	12.00	0.00	
8,875.0	19.50	1.35	8,871.9	27.4	0.6	27.4	12.00	12.00	0.00	
8,900.0	22.50	1.35	8,895.2	36.3	0.9	36.3	12.00	12.00	0.00	
8,925.0	25.50	1.35	8,918.1	46.5	1.1	46.5	12.00	12.00	0.00	
8,950.0	28.50	1.35	8,940.3	57.8	1.4	57.9	12.00	12.00	0.00	
8,975.0	31.50	1.35	8,962.0	70.3	1.7	70.4	12.00	12.00	0.00	
9,000.0	34.50	1.35	8,982.9	83.9	2.0	84.0	12.00	12.00	0.00	
9,025.0	37.50	1.35	9,003.2	98.6	2.3	98.7	12.00	12.00	0.00	
9,050.0	40.50	1.35	9,022.6	114.4	2.7	114.4	12.00	12.00	0.00	
9,075.0	43.50	1.35	9,041.2	131.1	3.1	131.1	12.00	12.00	0.00	
9,100.0	46.50	1.35	9,058.8	148.7	3.5	148.8	12.00	12.00	0.00	
9,125.0	49.50	1.35	9,075.6	167.3	3.9	167.4	12.00	12.00	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)	
9,150.0	52.50	1.35	9,091.3	186.7	4.4	186.8	12.00	12.00	0.00	
9,175.0	55.50	1.35	9,106.0	207.0	4.9	207.0	12.00	12.00	0.00	
9,200.0	58.50	1.35	9,119.6	227.9	5.4	228.0	12.00	12.00	0.00	
9,225.0	61.50	1.35	9,132.1	249.6	5.9	249.6	12.00	12.00	0.00	
9,250.0	64.50	1.35	9,143.5	271.8	6.4	271.9	12.00	12.00	0.00	
9,275.0	67.50	1.35	9,153.6	294.6	6.9	294.7	12.00	12.00	0.00	
9,300.0	70.49	1.35	9,162.6	318.0	7.5	318.1	12.00	12.00	0.00	
9,325.0	73.49	1.35	9,170.3	341.7	8.1	341.8	12.00	12.00	0.00	
9,350.0	76.49	1.35	9,176.8	365.9	8.6	366.0	12.00	12.00	0.00	
9,375.0	79.49	1.35	9,182.0	390.3	9.2	390.4	12.00	12.00	0.00	
9,400.0	82.49	1.35	9,185.9	415.0	9.8	415.1	12.00	12.00	0.00	
9,425.0	85.49	1.35	9,188.5	439.9	10.4	440.0	12.00	12.00	0.00	
9,450.0	88.49	1.35	9,189.8	464.8	11.0	464.9	12.00	12.00	0.00	
9,462.6	90.00	1.35	9,190.0	477.4	11.2	477.5	12.00	12.00	0.00	
EOC- 9462.6 MD, 90.00° INC, 1.35° AZI										
9,500.0	90.00	1.35	9,190.0	514.8	12.1	514.9	0.00	0.00	0.00	
9,600.0	90.00	1.35	9,190.0	614.8	14.5	614.9	0.00	0.00	0.00	
9,700.0	90.00	1.35	9,190.0	714.7	16.8	714.9	0.00	0.00	0.00	
9,800.0	90.00	1.35	9,190.0	814.7	19.2	814.9	0.00	0.00	0.00	
9,900.0	90.00	1.35	9,190.0	914.7	21.6	914.9	0.00	0.00	0.00	
10,000.0	90.00	1.35	9,190.0	1,014.7	23.9	1,014.9	0.00	0.00	0.00	
10,100.0	90.00	1.35	9,190.0	1,114.6	26.3	1,114.9	0.00	0.00	0.00	
10,200.0	90.00	1.35	9,190.0	1,214.6	28.6	1,214.9	0.00	0.00	0.00	
10,300.0	90.00	1.35	9,190.0	1,314.6	31.0	1,314.9	0.00	0.00	0.00	
10,400.0	90.00	1.35	9,190.0	1,414.6	33.3	1,414.9	0.00	0.00	0.00	
10,500.0	90.00	1.35	9,190.0	1,514.5	35.7	1,514.9	0.00	0.00	0.00	
10,600.0	90.00	1.35	9,190.0	1,614.5	38.0	1,614.9	0.00	0.00	0.00	
10,700.0	90.00	1.35	9,190.0	1,714.5	40.4	1,714.9	0.00	0.00	0.00	
10,800.0	90.00	1.35	9,190.0	1,814.4	42.8	1,814.9	0.00	0.00	0.00	
10,900.0	90.00	1.35	9,190.0	1,914.4	45.1	1,914.9	0.00	0.00	0.00	
11,000.0	90.00	1.35	9,190.0	2,014.4	47.5	2,014.9	0.00	0.00	0.00	
11,100.0	90.00	1.35	9,190.0	2,114.4	49.8	2,114.9	0.00	0.00	0.00	
11,200.0	90.00	1.35	9,190.0	2,214.3	52.2	2,214.9	0.00	0.00	0.00	
11,300.0	90.00	1.35	9,190.0	2,314.3	54.5	2,314.9	0.00	0.00	0.00	
11,400.0	90.00	1.35	9,190.0	2,414.3	56.9	2,414.9	0.00	0.00	0.00	
11,500.0	90.00	1.35	9,190.0	2,514.2	59.3	2,514.9	0.00	0.00	0.00	
11,600.0	90.00	1.35	9,190.0	2,614.2	61.6	2,614.9	0.00	0.00	0.00	
11,700.0	90.00	1.35	9,190.0	2,714.2	64.0	2,714.9	0.00	0.00	0.00	
11,800.0	90.00	1.35	9,190.0	2,814.2	66.3	2,814.9	0.00	0.00	0.00	
11,900.0	90.00	1.35	9,190.0	2,914.1	68.7	2,914.9	0.00	0.00	0.00	
12,000.0	90.00	1.35	9,190.0	3,014.1	71.0	3,014.9	0.00	0.00	0.00	
12,100.0	90.00	1.35	9,190.0	3,114.1	73.4	3,114.9	0.00	0.00	0.00	
12,200.0	90.00	1.35	9,190.0	3,214.1	75.7	3,214.9	0.00	0.00	0.00	
12,300.0	90.00	1.35	9,190.0	3,314.0	78.1	3,314.9	0.00	0.00	0.00	
12,400.0	90.00	1.35	9,190.0	3,414.0	80.5	3,414.9	0.00	0.00	0.00	
12,500.0	90.00	1.35	9,190.0	3,514.0	82.8	3,514.9	0.00	0.00	0.00	
12,600.0	90.00	1.35	9,190.0	3,613.9	85.2	3,614.9	0.00	0.00	0.00	
12,700.0	90.00	1.35	9,190.0	3,713.9	87.5	3,714.9	0.00	0.00	0.00	
12,800.0	90.00	1.35	9,190.0	3,813.9	89.9	3,814.9	0.00	0.00	0.00	
12,900.0	90.00	1.35	9,190.0	3,913.9	92.2	3,914.9	0.00	0.00	0.00	
13,000.0	90.00	1.35	9,190.0	4,013.8	94.6	4,014.9	0.00	0.00	0.00	
13,100.0	90.00	1.35	9,190.0	4,113.8	96.9	4,114.9	0.00	0.00	0.00	
13,200.0	90.00	1.35	9,190.0	4,213.8	99.3	4,214.9	0.00	0.00	0.00	
13,300.0	90.00	1.35	9,190.0	4,313.7	101.7	4,314.9	0.00	0.00	0.00	



Wellplanning Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #11H
Company:	COG Production LLC	TVD Reference:	WELL @ 3509.7usft (Original Well Elev)
Project:	Lea County, NM	MD Reference:	WELL @ 3509.7usft (Original Well Elev)
Site:	Azores Federal	North Reference:	Grid
Well:	#11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #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)	
13,400.0	90.00	1.35	9,190.0	4,413.7	104.0	4,414.9	0.00	0.00	0.00	
13,500.0	90.00	1.35	9,190.0	4,513.7	106.4	4,514.9	0.00	0.00	0.00	
13,600.0	90.00	1.35	9,190.0	4,613.7	108.7	4,614.9	0.00	0.00	0.00	
13,700.0	90.00	1.35	9,190.0	4,713.6	111.1	4,714.9	0.00	0.00	0.00	
13,800.0	90.00	1.35	9,190.0	4,813.6	113.4	4,814.9	0.00	0.00	0.00	
13,900.0	90.00	1.35	9,190.0	4,913.6	115.8	4,914.9	0.00	0.00	0.00	
14,000.0	90.00	1.35	9,190.0	5,013.6	118.2	5,014.9	0.00	0.00	0.00	
14,100.0	90.00	1.35	9,190.0	5,113.5	120.5	5,114.9	0.00	0.00	0.00	
14,149.9	90.00	1.35	9,190.0	5,163.4	121.7	5,164.8	0.00	0.00	0.00	
TD at 14149.9 - PBHL(AF#11H)										

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									
PBHL(AF#11H)	0.00	0.00	9,190.0	5,163.4	121.7	435,124.50	697,411.90	32° 11' 40.790 N	103° 41' 42.589 W
- plan hits target center									
- Rectangle (sides W50.0 H5,164.8 D0.0)									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,712.5	8,712.5	0.0	0.0	KOP - 8712.5 'MD, 0.00° INC, 0.00° AZI
9,462.6	9,190.0	477.4	11.2	EOC- 9462.6 'MD, 90.00° INC, 1.35° AZI
14,149.9	9,190.0	5,163.4	121.7	TD at 14149.9



OG Production LLC
Project: Lea County, NM
Site: Azores Federal
Well: #11H
Wellbore: OH
Design #1 (#11H/OH)

WELL DETAILS: #11H

Ground Elevation: 3491.7
RKB Elevation: WELL @ 3509.7usft (Original Well Elev)
Rig Name: Original Well Elev

Northings
429961.10

Easting
697290.20

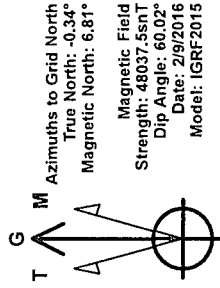
Latitude
32° 10' 49.702 N

Longitude
103° 41' 44.362 W

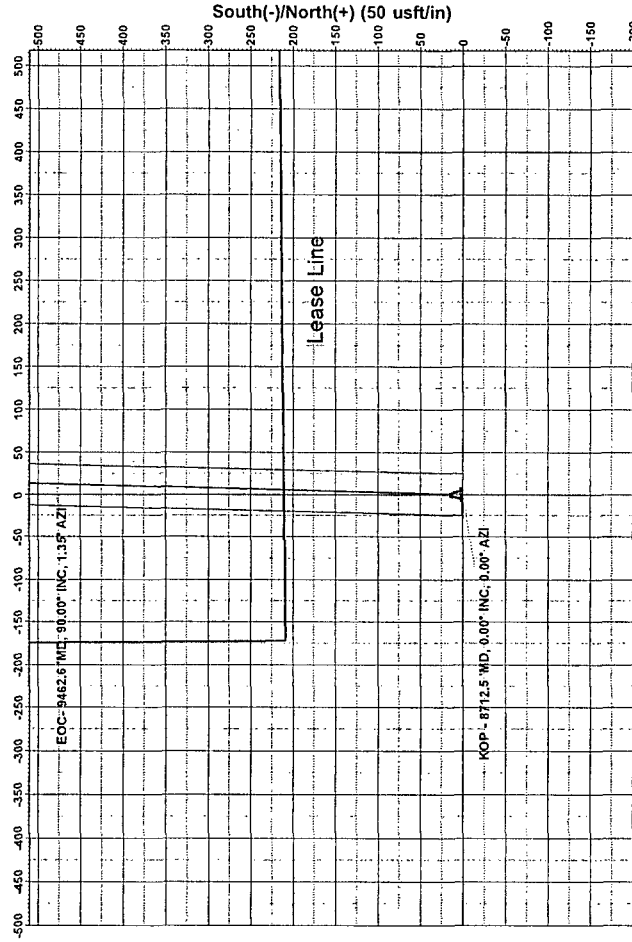
Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	8712.5	0.00	0.00	8712.5	0.0	0.0	0.00	0.00	0.0
3	9462.6	90.00	1.35	9190.0	477.4	11.2	12.00	1.35	477.5
4	14149.9	90.00	1.35	9190.0	5163.4	121.7	0.00	0.00	5164.8

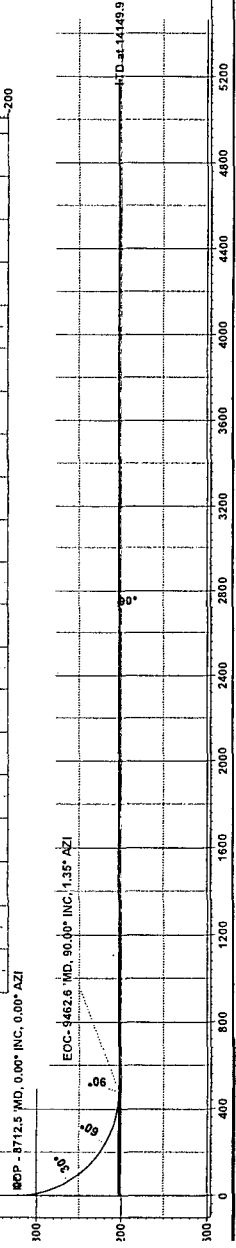
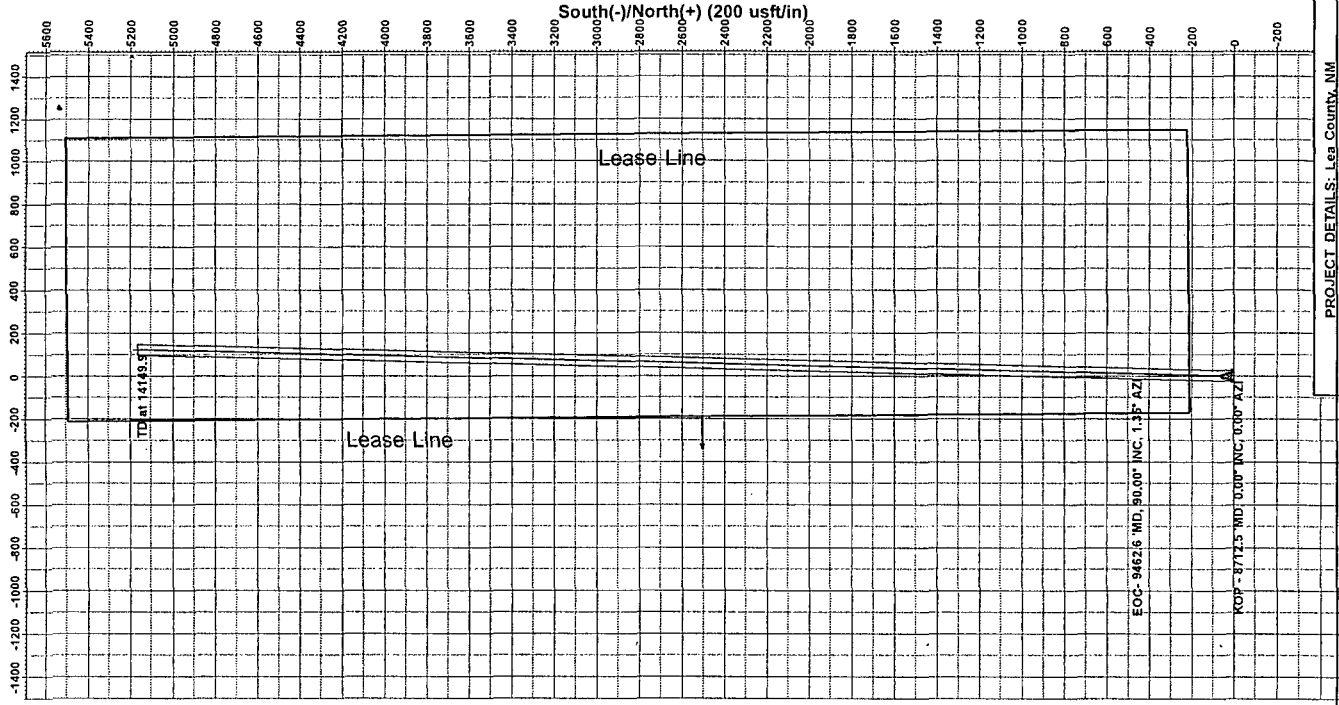
PBHL(AF#11H)



West(-)/East(+) (50 usft/in)



West(-)/East(+) (200 usft/in)



Vertical Section at 1.35° (200 usft/in)



Integrity Directional Services

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