

HOBBS OCD
MAY 05 2016
RECEIVED

COG Production LLC

Lea County, NM (NAD27 NME)

Sec. 29, T 24 S. , R 32E

Azores Federal #8H

Wellbore #1

Plan: Plan#1

Standard Survey Report

11 March, 2016

MAY 10 2016

IDS
Survey Report

Company:	COG Production LLC	Local Co-ordinate Reference:	Well Azores Federal #8H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	KB=26' @ 3520.8usft (Scandril Freedom)
Site:	Sec. 29, T 24 S., R 32E	MD Reference:	KB=26' @ 3520.8usft (Scandril Freedom)
Well:	Azores Federal #8H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM (NAD27 NME)		
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. 29, T 24 S., R 32E		
Site Position:		Northing:	430,368.50 usft
From:	Map	Easting:	696,155.50 usft
Position Uncertainty:	5.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 53.799 N
		Longitude:	103° 41' 57.536 W
		Grid Convergence:	0.34 °

Well	Azores Federal #8H		
Well Position	+N/-S	0.0 usft	Northing: 430,369.50 usft
	+E/-W	0.0 usft	Easting: 696,255.50 usft
Position Uncertainty	5.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 10' 53.804 N
		Longitude:	103° 41' 56.373 W
		Ground Level:	3,494.8 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	3/11/2016	7.15
			Dip Angle
			60.02
			Field Strength
			48,029

Design	Plan#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
			355.53

Survey Tool Program	Date 3/11/2016		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
0.0	13,859.8	Plan#1 (Wellbore #1)	MWD
			Description
			MWD - Standard

Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/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

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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)
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
4,650.0	0.00	0.00	4,650.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
4,700.0	1.00	247.72	4,700.0	-0.2	-0.4	-0.1	2.00	2.00	0.00
4,800.0	3.00	247.72	4,799.9	-1.5	-3.6	-1.2	2.00	2.00	0.00
4,900.0	5.00	247.72	4,899.7	-4.1	-10.1	-3.3	2.00	2.00	0.00
4,910.7	5.21	247.72	4,910.3	-4.5	-11.0	-3.6	2.00	2.00	0.00
Start 3788.1 hold at 4910.7 MD									

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1	Database:	EDM 5000.1 Single User Db

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)	
5,000.0	5.21	247.72	4,999.3	-7.6	-18.5	-6.1	0.00	0.00	0.00	
5,100.0	5.21	247.72	5,098.9	-11.0	-26.9	-8.9	0.00	0.00	0.00	
5,200.0	5.21	247.72	5,198.4	-14.5	-35.3	-11.7	0.00	0.00	0.00	
5,300.0	5.21	247.72	5,298.0	-17.9	-43.7	-14.4	0.00	0.00	0.00	
5,400.0	5.21	247.72	5,397.6	-21.4	-52.1	-17.2	0.00	0.00	0.00	
5,500.0	5.21	247.72	5,497.2	-24.8	-60.5	-20.0	0.00	0.00	0.00	
5,600.0	5.21	247.72	5,596.8	-28.2	-68.9	-22.8	0.00	0.00	0.00	
5,700.0	5.21	247.72	5,696.4	-31.7	-77.3	-25.6	0.00	0.00	0.00	
5,800.0	5.21	247.72	5,796.0	-35.1	-85.7	-28.3	0.00	0.00	0.00	
5,900.0	5.21	247.72	5,895.5	-38.6	-94.2	-31.1	0.00	0.00	0.00	
6,000.0	5.21	247.72	5,995.1	-42.0	-102.6	-33.9	0.00	0.00	0.00	
6,100.0	5.21	247.72	6,094.7	-45.5	-111.0	-36.7	0.00	0.00	0.00	
6,200.0	5.21	247.72	6,194.3	-48.9	-119.4	-39.4	0.00	0.00	0.00	
6,300.0	5.21	247.72	6,293.9	-52.4	-127.8	-42.2	0.00	0.00	0.00	
6,400.0	5.21	247.72	6,393.5	-55.8	-136.2	-45.0	0.00	0.00	0.00	
6,500.0	5.21	247.72	6,493.1	-59.2	-144.6	-47.8	0.00	0.00	0.00	
6,600.0	5.21	247.72	6,592.7	-62.7	-153.0	-50.6	0.00	0.00	0.00	
6,700.0	5.21	247.72	6,692.2	-66.1	-161.4	-53.3	0.00	0.00	0.00	
6,800.0	5.21	247.72	6,791.8	-69.6	-169.8	-56.1	0.00	0.00	0.00	
6,900.0	5.21	247.72	6,891.4	-73.0	-178.2	-58.9	0.00	0.00	0.00	
7,000.0	5.21	247.72	6,991.0	-76.5	-186.7	-61.7	0.00	0.00	0.00	
7,100.0	5.21	247.72	7,090.6	-79.9	-195.1	-64.5	0.00	0.00	0.00	
7,200.0	5.21	247.72	7,190.2	-83.4	-203.5	-67.2	0.00	0.00	0.00	
7,300.0	5.21	247.72	7,289.8	-86.8	-211.9	-70.0	0.00	0.00	0.00	
7,400.0	5.21	247.72	7,389.3	-90.3	-220.3	-72.8	0.00	0.00	0.00	
7,500.0	5.21	247.72	7,488.9	-93.7	-228.7	-75.6	0.00	0.00	0.00	
7,600.0	5.21	247.72	7,588.5	-97.1	-237.1	-78.3	0.00	0.00	0.00	
7,700.0	5.21	247.72	7,688.1	-100.6	-245.5	-81.1	0.00	0.00	0.00	
7,800.0	5.21	247.72	7,787.7	-104.0	-253.9	-83.9	0.00	0.00	0.00	
7,900.0	5.21	247.72	7,887.3	-107.5	-262.3	-86.7	0.00	0.00	0.00	
8,000.0	5.21	247.72	7,986.9	-110.9	-270.7	-89.5	0.00	0.00	0.00	
8,100.0	5.21	247.72	8,086.4	-114.4	-279.1	-92.2	0.00	0.00	0.00	
8,200.0	5.21	247.72	8,186.0	-117.8	-287.6	-95.0	0.00	0.00	0.00	
8,300.0	5.21	247.72	8,285.6	-121.3	-296.0	-97.8	0.00	0.00	0.00	
8,400.0	5.21	247.72	8,385.2	-124.7	-304.4	-100.6	0.00	0.00	0.00	
8,500.0	5.21	247.72	8,484.8	-128.1	-312.8	-103.4	0.00	0.00	0.00	
8,600.0	5.21	247.72	8,584.4	-131.6	-321.2	-106.1	0.00	0.00	0.00	
8,698.8	5.21	247.72	8,682.8	-135.0	-329.5	-108.9	0.00	0.00	0.00	
Start DLS 12.00 TFO 112.20										
8,700.0	5.16	249.16	8,684.0	-135.0	-329.6	-108.9	12.00	-4.39	123.49	
8,800.0	11.24	334.87	8,783.2	-127.8	-338.0	-101.0	12.00	6.08	85.70	
8,900.0	22.66	348.34	8,878.7	-100.0	-346.0	-72.7	12.00	11.42	13.47	
9,000.0	34.46	352.94	8,966.4	-52.9	-353.4	-25.1	12.00	11.80	4.60	
9,100.0	46.36	355.39	9,042.4	11.5	-359.9	39.5	12.00	11.90	2.45	

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9,200.0	58.29	357.01	9,103.4	90.3	-365.0	118.5	12.00	11.93	1.63	
9,300.0	70.24	358.27	9,146.7	180.2	-368.6	208.4	12.00	11.95	1.25	
9,400.0	82.19	359.34	9,170.5	277.1	-370.7	305.2	12.00	11.95	1.07	
9,465.3	90.00	0.00	9,175.0	342.2	-371.0	370.1	12.00	11.96	1.02	
Start 4394.5 hold at 9465.3 MD										
9,500.0	90.00	0.00	9,175.0	376.9	-371.0	404.7	0.00	0.00	0.00	
9,600.0	90.00	0.00	9,175.0	476.9	-371.0	504.4	0.00	0.00	0.00	
9,700.0	90.00	0.00	9,175.0	576.9	-371.0	604.1	0.00	0.00	0.00	
9,800.0	90.00	0.00	9,175.0	676.9	-371.0	703.8	0.00	0.00	0.00	
9,900.0	90.00	0.00	9,175.0	776.9	-371.0	803.5	0.00	0.00	0.00	
10,000.0	90.00	0.00	9,175.0	876.9	-371.0	903.2	0.00	0.00	0.00	
10,100.0	90.00	0.00	9,175.0	976.9	-371.0	1,002.9	0.00	0.00	0.00	
10,200.0	90.00	0.00	9,175.0	1,076.9	-371.0	1,102.6	0.00	0.00	0.00	
10,300.0	90.00	0.00	9,175.0	1,176.9	-371.0	1,202.3	0.00	0.00	0.00	
10,400.0	90.00	0.00	9,175.0	1,276.9	-371.0	1,301.9	0.00	0.00	0.00	
10,500.0	90.00	0.00	9,175.0	1,376.9	-370.9	1,401.6	0.00	0.00	0.00	
10,600.0	90.00	0.00	9,175.0	1,476.9	-370.9	1,501.3	0.00	0.00	0.00	
10,700.0	90.00	0.00	9,175.0	1,576.9	-370.9	1,601.0	0.00	0.00	0.00	
10,800.0	90.00	0.00	9,175.0	1,676.9	-370.9	1,700.7	0.00	0.00	0.00	
10,900.0	90.00	0.00	9,175.0	1,776.9	-370.9	1,800.4	0.00	0.00	0.00	
11,000.0	90.00	0.00	9,175.0	1,876.9	-370.9	1,900.1	0.00	0.00	0.00	
11,100.0	90.00	0.00	9,175.0	1,976.9	-370.9	1,999.8	0.00	0.00	0.00	
11,200.0	90.00	0.00	9,175.0	2,076.9	-370.9	2,099.5	0.00	0.00	0.00	
11,300.0	90.00	0.00	9,175.0	2,176.9	-370.9	2,199.2	0.00	0.00	0.00	
11,400.0	90.00	0.00	9,175.0	2,276.9	-370.9	2,298.9	0.00	0.00	0.00	
11,500.0	90.00	0.00	9,175.0	2,376.9	-370.9	2,398.6	0.00	0.00	0.00	
11,600.0	90.00	0.00	9,175.0	2,476.9	-370.9	2,498.3	0.00	0.00	0.00	
11,700.0	90.00	0.00	9,175.0	2,576.9	-370.9	2,598.0	0.00	0.00	0.00	
11,800.0	90.00	0.00	9,175.0	2,676.9	-370.9	2,697.7	0.00	0.00	0.00	
11,900.0	90.00	0.00	9,175.0	2,776.9	-370.8	2,797.4	0.00	0.00	0.00	
12,000.0	90.00	0.00	9,175.0	2,876.9	-370.8	2,897.1	0.00	0.00	0.00	
12,100.0	90.00	0.00	9,175.0	2,976.9	-370.8	2,996.8	0.00	0.00	0.00	
12,200.0	90.00	0.00	9,175.0	3,076.9	-370.8	3,096.4	0.00	0.00	0.00	
12,300.0	90.00	0.00	9,175.0	3,176.9	-370.8	3,196.1	0.00	0.00	0.00	
12,400.0	90.00	0.00	9,175.0	3,276.9	-370.8	3,295.8	0.00	0.00	0.00	
12,500.0	90.00	0.00	9,175.0	3,376.9	-370.8	3,395.5	0.00	0.00	0.00	
12,600.0	90.00	0.00	9,175.0	3,476.9	-370.8	3,495.2	0.00	0.00	0.00	
12,700.0	90.00	0.00	9,175.0	3,576.9	-370.8	3,594.9	0.00	0.00	0.00	
12,800.0	90.00	0.00	9,175.0	3,676.9	-370.8	3,694.6	0.00	0.00	0.00	
12,900.0	90.00	0.00	9,175.0	3,776.9	-370.8	3,794.3	0.00	0.00	0.00	
13,000.0	90.00	0.00	9,175.0	3,876.9	-370.8	3,894.0	0.00	0.00	0.00	
13,100.0	90.00	0.00	9,175.0	3,976.9	-370.8	3,993.7	0.00	0.00	0.00	
13,200.0	90.00	0.00	9,175.0	4,076.9	-370.7	4,093.4	0.00	0.00	0.00	

IDS Survey Report

Company:	COG Production LLC	Local Co-ordinate Reference:	Well Azores Federal #8H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	KB=26' @ 3520.8usft (Scandriil Freedom)
Site:	Sec. 29, T 24 S., R 32E	MD Reference:	KB=26' @ 3520.8usft (Scandriil Freedom)
Well:	Azores Federal #8H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1	Database:	EDM 5000.1 Single User Db

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)
13,300.0	90.00	0.00	9,175.0	4,176.9	-370.7	4,193.1	0.00	0.00	0.00
13,400.0	90.00	0.00	9,175.0	4,276.9	-370.7	4,292.8	0.00	0.00	0.00
13,500.0	90.00	0.00	9,175.0	4,376.9	-370.7	4,392.5	0.00	0.00	0.00
13,600.0	90.00	0.00	9,175.0	4,476.9	-370.7	4,492.2	0.00	0.00	0.00
13,700.0	90.00	0.00	9,175.0	4,576.9	-370.7	4,591.9	0.00	0.00	0.00
13,800.0	90.00	0.00	9,175.0	4,676.9	-370.7	4,691.6	0.00	0.00	0.00
13,859.8	90.00	0.00	9,175.0	4,736.7	-370.7	4,751.2	0.00	0.00	0.00
TD at 13859.8									

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									
Azores Federal #8H F	0.00	0.00	9,175.0	4,736.7	-370.7	435,106.20	695,884.80	32° 11' 40.699 N	103° 42' 0.361 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4650	4650	0	0	Start Build 2.00
4911	4910	-4	-11	Start 3788.1 hold at 4910.7 MD
8699	8683	-135	-329	Start DLS 12.00 TFO 112.20
9465	9175	342	-371	Start 4394.5 hold at 9465.3 MD
13,860	9175	4737	-371	TD at 13859.8

Checked By: _____ Approved By: _____ Date: _____



COG Production LLC
Project: Lea County, NM (NAD27 NME)
Site: Sec. 29, T 24 S., R 32 E
Well: Azores Federal #8H
Wellbore: Wellbore #1
Plan: Plan#1 (Azores Federal #8H/Wellbore #1)
Scandrill Freedom

WELL DETAILS: Azores Federal #8H

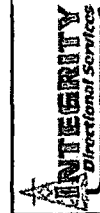
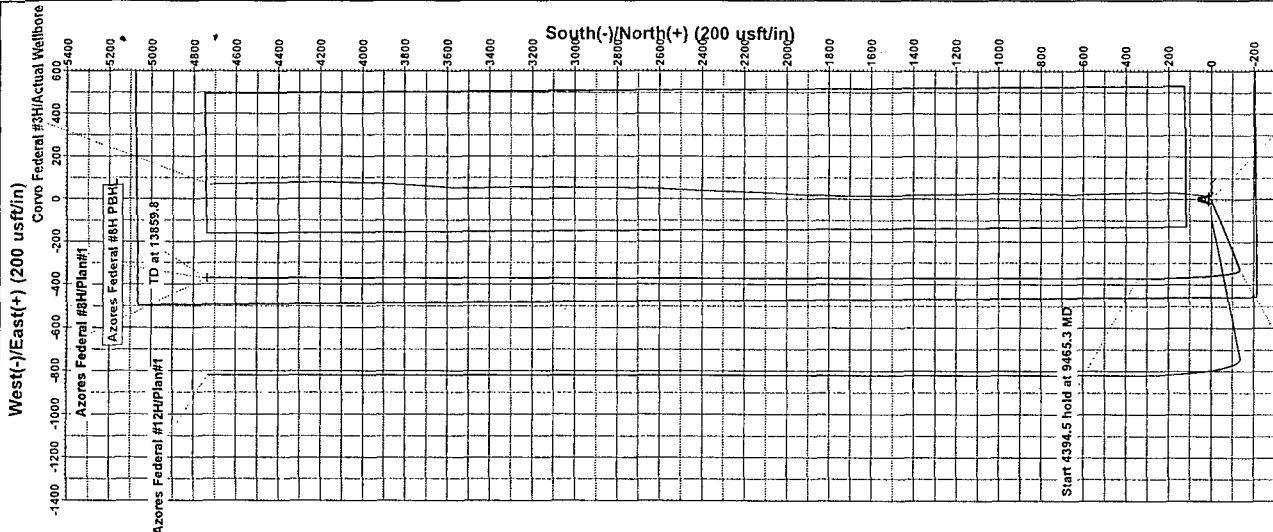
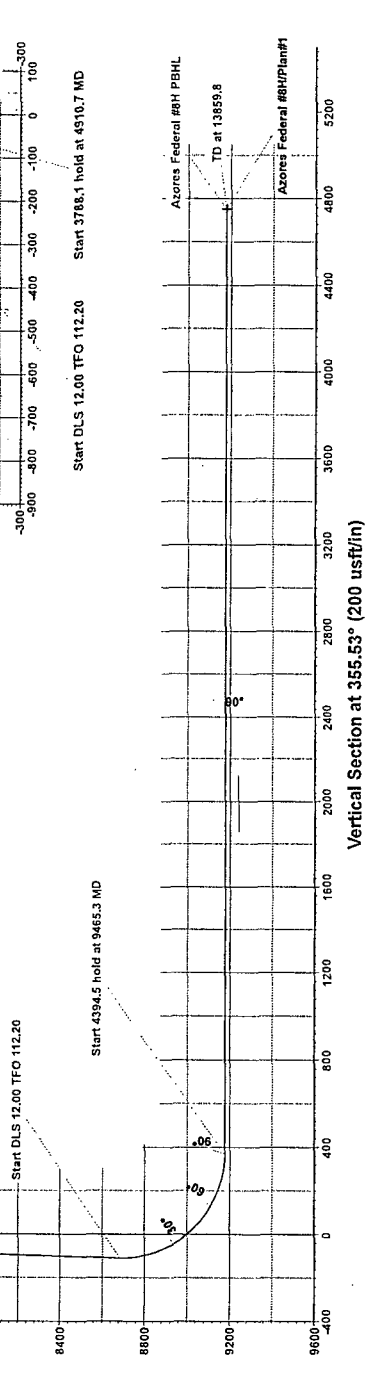
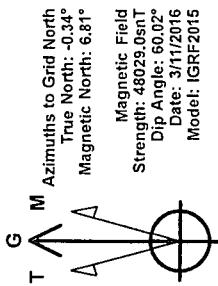
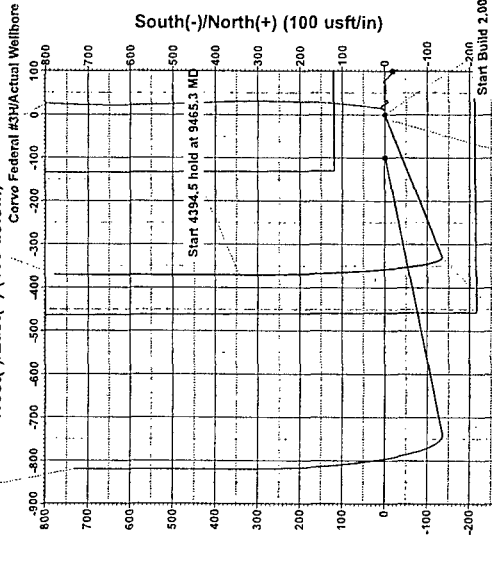
Ground Elevation: 3494.8
RKB Elevation: KB=26' @ 3520.8usft (Scandrill Freedom)
Rig Name: Scandrill Freedom

Northing 430369.50
Easting 696255.50
Latitude 32° 10' 53.804 N
Longitude 103° 41' 56.373 W

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0
2	4650.0	0.00	0.00	4650.0	0.0	0.0	0.00	0.00	0.0	0.0
3	4910.7	5.21	247.72	4910.3	-4.5	-11.0	2.00	247.72	-3.6	-3.6
4	8698.8	5.21	247.72	8682.8	-135.0	-329.5	0.00	0.00	-108.9	-108.9
5	9465.3	90.00	0.00	9175.0	342.2	-371.0	12.00	112.20	370.1	Azores Federal #8H PBHL
6	13859.8	90.00	0.00	9175.0	4736.7	-370.7	0.00	0.00	4751.2	Azores Federal #8H PBHL

Azores Federal #12H/Plan#1
West(-)/East(+) (100 usft/in)



Integrity Directional Services

PROJECT DETAILS: Lea County, NM (NAD27 NME)
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