

HOBBS CCD

APR 21 2016

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COG Production LLC

Lea County, NM (NAD27 NME)

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

Azores Federal #12H

Wellbore #1

Plan: Plan#1

Standard Survey Report

11 March, 2016

APR 22 2016

IDS Survey Report

Company:	COG Production LLC	Local Co-ordinate Reference:	Well Azores Federal #12H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	KB=26' @ 3522.1usft (Scandril Freedom)
Site:	Sec. 29, T 24 S., R 32E	MD Reference:	KB=26' @ 3522.1usft (Scandril Freedom)
Well:	Azores Federal #12H	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	Latitude:	32° 10' 53.799 N
From:	Map	Easting:	696,155.50 usft	Longitude:	103° 41' 57.536 W
Position Uncertainty:	5.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.34 °

Well	Azores Federal #12H					
Well Position	+N/-S	0.0 usft	Northing:	430,368.50 usft	Latitude:	32° 10' 53.799 N
	+E/-W	0.0 usft	Easting:	696,155.50 usft	Longitude:	103° 41' 57.536 W
Position Uncertainty	5.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,496.1 usft	

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

Design	Plan#1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	351.34	

Survey Tool Program	Date 3/11/2016				
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
0.0	13,898.8	Plan#1 (Wellbore #1)	MWD	MWD - Standard	

Planned Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(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	258.06	4,700.0	-0.1	-0.4	0.0	2.00	2.00	0.00
4,800.0	3.00	258.06	4,799.9	-0.8	-3.8	-0.2	2.00	2.00	0.00
4,900.0	5.00	258.06	4,899.7	-2.3	-10.7	-0.6	2.00	2.00	0.00
5,000.0	7.00	258.06	4,999.1	-4.4	-20.9	-1.2	2.00	2.00	0.00
5,100.0	9.00	258.06	5,098.2	-7.3	-34.5	-2.0	2.00	2.00	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)	
5,138.1	9.76	258.06	5,135.8	-8.6	-40.6	-2.4	2.00	2.00	0.00	
Start 3604.0 hold at 5138.1 MD										
5,200.0	9.76	258.06	5,196.7	-10.8	-50.9	-3.0	0.00	0.00	0.00	
5,300.0	9.76	258.06	5,295.3	-14.3	-67.4	-3.9	0.00	0.00	0.00	
5,400.0	9.76	258.06	5,393.8	-17.8	-84.0	-4.9	0.00	0.00	0.00	
5,500.0	9.76	258.06	5,492.4	-21.3	-100.6	-5.9	0.00	0.00	0.00	
5,600.0	9.76	258.06	5,591.0	-24.8	-117.2	-6.9	0.00	0.00	0.00	
5,700.0	9.76	258.06	5,689.5	-28.3	-133.8	-7.8	0.00	0.00	0.00	
5,800.0	9.76	258.06	5,788.1	-31.8	-150.4	-8.8	0.00	0.00	0.00	
5,900.0	9.76	258.06	5,886.6	-35.3	-167.0	-9.8	0.00	0.00	0.00	
6,000.0	9.76	258.06	5,985.2	-38.8	-183.6	-10.7	0.00	0.00	0.00	
6,100.0	9.76	258.06	6,083.7	-42.3	-200.2	-11.7	0.00	0.00	0.00	
6,200.0	9.76	258.06	6,182.3	-45.8	-216.8	-12.7	0.00	0.00	0.00	
6,300.0	9.76	258.06	6,280.8	-49.3	-233.3	-13.6	0.00	0.00	0.00	
6,400.0	9.76	258.06	6,379.4	-52.8	-249.9	-14.6	0.00	0.00	0.00	
6,500.0	9.76	258.06	6,477.9	-56.4	-266.5	-15.6	0.00	0.00	0.00	
6,600.0	9.76	258.06	6,576.5	-59.9	-283.1	-16.6	0.00	0.00	0.00	
6,700.0	9.76	258.06	6,675.0	-63.4	-299.7	-17.5	0.00	0.00	0.00	
6,800.0	9.76	258.06	6,773.6	-66.9	-316.3	-18.5	0.00	0.00	0.00	
6,900.0	9.76	258.06	6,872.1	-70.4	-332.9	-19.5	0.00	0.00	0.00	
7,000.0	9.76	258.06	6,970.7	-73.9	-349.5	-20.4	0.00	0.00	0.00	
7,100.0	9.76	258.06	7,069.2	-77.4	-366.1	-21.4	0.00	0.00	0.00	
7,200.0	9.76	258.06	7,167.8	-80.9	-382.7	-22.4	0.00	0.00	0.00	
7,300.0	9.76	258.06	7,266.3	-84.4	-399.2	-23.4	0.00	0.00	0.00	
7,400.0	9.76	258.06	7,364.9	-87.9	-415.8	-24.3	0.00	0.00	0.00	
7,500.0	9.76	258.06	7,463.4	-91.4	-432.4	-25.3	0.00	0.00	0.00	
7,600.0	9.76	258.06	7,562.0	-94.9	-449.0	-26.3	0.00	0.00	0.00	
7,700.0	9.76	258.06	7,660.5	-98.4	-465.6	-27.2	0.00	0.00	0.00	
7,800.0	9.76	258.06	7,759.1	-102.0	-482.2	-28.2	0.00	0.00	0.00	
7,900.0	9.76	258.06	7,857.6	-105.5	-498.8	-29.2	0.00	0.00	0.00	
8,000.0	9.76	258.06	7,956.2	-109.0	-515.4	-30.1	0.00	0.00	0.00	
8,100.0	9.76	258.06	8,054.7	-112.5	-532.0	-31.1	0.00	0.00	0.00	
8,200.0	9.76	258.06	8,153.3	-116.0	-548.6	-32.1	0.00	0.00	0.00	
8,300.0	9.76	258.06	8,251.9	-119.5	-565.1	-33.1	0.00	0.00	0.00	
8,400.0	9.76	258.06	8,350.4	-123.0	-581.7	-34.0	0.00	0.00	0.00	
8,500.0	9.76	258.06	8,449.0	-126.5	-598.3	-35.0	0.00	0.00	0.00	
8,600.0	9.76	258.06	8,547.5	-130.0	-614.9	-36.0	0.00	0.00	0.00	
8,700.0	9.76	258.06	8,646.1	-133.5	-631.5	-36.9	0.00	0.00	0.00	
8,742.2	9.76	258.06	8,687.6	-135.0	-638.5	-37.3	0.00	0.00	0.00	
Start DLS 12.00 TFO 101.77										
8,800.0	10.74	297.47	8,744.6	-133.5	-648.1	-34.4	12.00	1.69	68.11	
8,900.0	19.37	331.40	8,841.2	-114.6	-664.4	-13.3	12.00	8.63	33.93	
9,000.0	30.34	343.28	8,931.9	-75.7	-679.6	27.5	12.00	10.97	11.89	
9,100.0	41.84	349.16	9,012.6	-18.5	-693.2	86.0	12.00	11.50	5.88	

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9,200.0	53.53	352.85	9,079.8	54.4	-704.5	159.8	12.00	11.69	3.69
9,300.0	65.30	355.56	9,130.6	139.9	-713.1	245.6	12.00	11.77	2.71
9,400.0	77.12	357.79	9,162.8	234.2	-718.5	339.7	12.00	11.81	2.23
9,500.0	88.95	359.82	9,174.9	333.3	-720.5	437.9	12.00	11.83	2.03
9,508.9	90.00	360.00	9,175.0	342.2	-720.5	446.7	12.00	11.83	1.99
Start 4390.1 hold at 9508.9 MD									
9,600.0	90.00	360.00	9,175.0	433.3	-720.5	536.8	0.00	0.00	0.00
9,700.0	90.00	360.00	9,175.0	533.3	-720.5	635.7	0.00	0.00	0.00
9,800.0	90.00	360.00	9,175.0	633.3	-720.6	734.5	0.00	0.00	0.00
9,900.0	90.00	360.00	9,175.0	733.3	-720.6	833.4	0.00	0.00	0.00
10,000.0	90.00	360.00	9,175.0	833.3	-720.6	932.2	0.00	0.00	0.00
10,100.0	90.00	360.00	9,175.0	933.3	-720.6	1,031.1	0.00	0.00	0.00
10,200.0	90.00	360.00	9,175.0	1,033.3	-720.6	1,130.0	0.00	0.00	0.00
10,300.0	90.00	360.00	9,175.0	1,133.3	-720.6	1,228.8	0.00	0.00	0.00
10,400.0	90.00	360.00	9,175.0	1,233.3	-720.6	1,327.7	0.00	0.00	0.00
10,500.0	90.00	360.00	9,175.0	1,333.3	-720.6	1,426.5	0.00	0.00	0.00
10,600.0	90.00	360.00	9,175.0	1,433.3	-720.6	1,525.4	0.00	0.00	0.00
10,700.0	90.00	360.00	9,175.0	1,533.3	-720.6	1,624.3	0.00	0.00	0.00
10,800.0	90.00	360.00	9,175.0	1,633.3	-720.6	1,723.1	0.00	0.00	0.00
10,900.0	90.00	360.00	9,175.0	1,733.3	-720.6	1,822.0	0.00	0.00	0.00
11,000.0	90.00	360.00	9,175.0	1,833.3	-720.6	1,920.8	0.00	0.00	0.00
11,100.0	90.00	360.00	9,175.0	1,933.3	-720.6	2,019.7	0.00	0.00	0.00
11,200.0	90.00	360.00	9,175.0	2,033.3	-720.6	2,118.6	0.00	0.00	0.00
11,300.0	90.00	360.00	9,175.0	2,133.3	-720.6	2,217.4	0.00	0.00	0.00
11,400.0	90.00	360.00	9,175.0	2,233.3	-720.6	2,316.3	0.00	0.00	0.00
11,500.0	90.00	360.00	9,175.0	2,333.3	-720.6	2,415.2	0.00	0.00	0.00
11,600.0	90.00	360.00	9,175.0	2,433.3	-720.6	2,514.0	0.00	0.00	0.00
11,700.0	90.00	360.00	9,175.0	2,533.3	-720.6	2,612.9	0.00	0.00	0.00
11,800.0	90.00	360.00	9,175.0	2,633.3	-720.6	2,711.7	0.00	0.00	0.00
11,900.0	90.00	360.00	9,175.0	2,733.3	-720.6	2,810.6	0.00	0.00	0.00
12,000.0	90.00	360.00	9,175.0	2,833.3	-720.6	2,909.5	0.00	0.00	0.00
12,100.0	90.00	360.00	9,175.0	2,933.3	-720.6	3,008.3	0.00	0.00	0.00
12,200.0	90.00	360.00	9,175.0	3,033.3	-720.6	3,107.2	0.00	0.00	0.00
12,300.0	90.00	360.00	9,175.0	3,133.3	-720.6	3,206.0	0.00	0.00	0.00
12,400.0	90.00	360.00	9,175.0	3,233.3	-720.6	3,304.9	0.00	0.00	0.00
12,500.0	90.00	360.00	9,175.0	3,333.3	-720.6	3,403.8	0.00	0.00	0.00
12,600.0	90.00	360.00	9,175.0	3,433.3	-720.6	3,502.6	0.00	0.00	0.00
12,700.0	90.00	360.00	9,175.0	3,533.3	-720.6	3,601.5	0.00	0.00	0.00
12,800.0	90.00	360.00	9,175.0	3,633.3	-720.6	3,700.3	0.00	0.00	0.00
12,900.0	90.00	360.00	9,175.0	3,733.3	-720.6	3,799.2	0.00	0.00	0.00
13,000.0	90.00	360.00	9,175.0	3,833.3	-720.6	3,898.1	0.00	0.00	0.00
13,100.0	90.00	360.00	9,175.0	3,933.3	-720.6	3,996.9	0.00	0.00	0.00
13,200.0	90.00	360.00	9,175.0	4,033.3	-720.6	4,095.8	0.00	0.00	0.00

IDS Survey Report

Company:	COG Production LLC	Local Co-ordinate Reference:	Well Azores Federal #12H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	KB=26' @ 3522.1usft (Scandril Freedom)
Site:	Sec. 29; T 24 S. R 32E	MD Reference:	KB=26' @ 3522.1usft (Scandril Freedom)
Well:	Azores Federal #12H	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	360.00	9,175.0	4,133.3	-720.6	4,194.6	0.00	0.00	0.00
13,400.0	90.00	360.00	9,175.0	4,233.3	-720.6	4,293.5	0.00	0.00	0.00
13,500.0	90.00	360.00	9,175.0	4,333.3	-720.6	4,392.4	0.00	0.00	0.00
13,600.0	90.00	360.00	9,175.0	4,433.3	-720.6	4,491.2	0.00	0.00	0.00
13,700.0	90.00	360.00	9,175.0	4,533.3	-720.6	4,590.1	0.00	0.00	0.00
13,800.0	90.00	360.00	9,175.0	4,633.3	-720.6	4,688.9	0.00	0.00	0.00
13,899.0	90.00	360.00	9,175.0	4,732.3	-720.6	4,786.8	0.00	0.00	0.00
TD at 13899.0									

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 #12H	0.00	0.00	9,175.0	4,732.3	-720.6	435,100.80	695,434.90	32° 11' 40.671 N	103° 42' 5.597 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
5138	5136	-9	-41	Start 3604.0 hold at 5138.1 MD
8742	8688	-135	-638	Start DLS 12.00 TFO 101.77
9509	9175	342	-721	Start 4390.1 hold at 9508.9 MD
13,899	9175	4732	-721	TD at 13899.0

Checked By: _____	Approved By: _____	Date: _____
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COG Production LLC
Project: Lea County, NM (NAD27 NME)
Site: Sec. 29, T 24 S., R 32 E
Well: Azores Federal #12H
Wellbore: Wellbore #1
Plan: Plan#1 (Azores Federal #12H/Wellbore #1)
Scandriil Freedom

WELL DETAILS: Azores Federal #12H

Ground Elevation: 3496.1
RKB Elevation: KB=26' @ 3522.1usft (Scandriil Freedom)
Rig Name: Scandriil Freedom

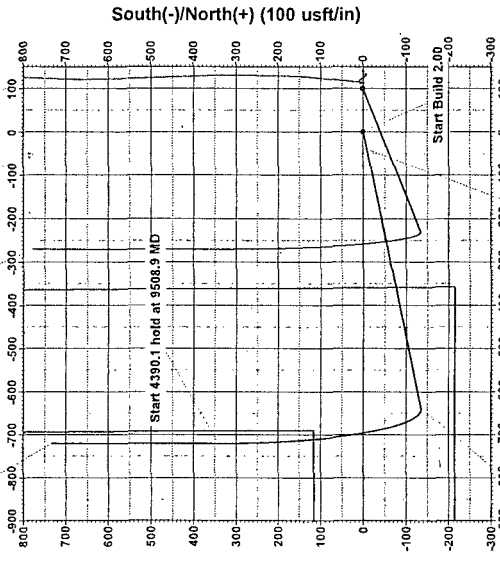
Northing 430368.50 Easting 696155.50 Longitude 103° 41' 57.536 W

Section Details

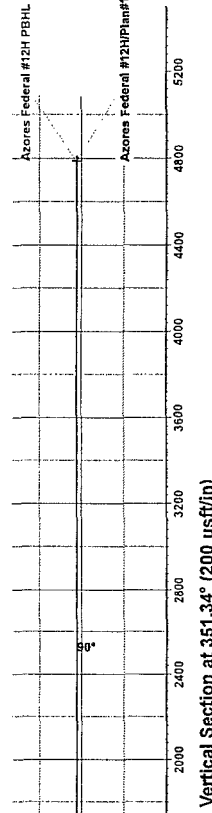
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0
2	4650.0	0.00	0.00	4650.0	0.0	0.0	0.00	0.00	0.0	0.0
3	5138.1	9.76	258.06	5135.8	-8.6	-40.6	2.00	258.06	-2.4	-2.4
4	8742.2	9.76	258.06	8687.6	-135.0	-638.5	0.00	0.00	-37.3	-37.3
5	9508.9	90.00	360.00	9175.0	342.2	-720.5	12.00	101.77	446.7	446.7
6	13899.0	90.00	360.00	9175.0	4732.3	-720.6	0.00	0.00	4786.8	4786.8

Azores Federal #12H PBHL
Azores Federal #12H PBHL

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

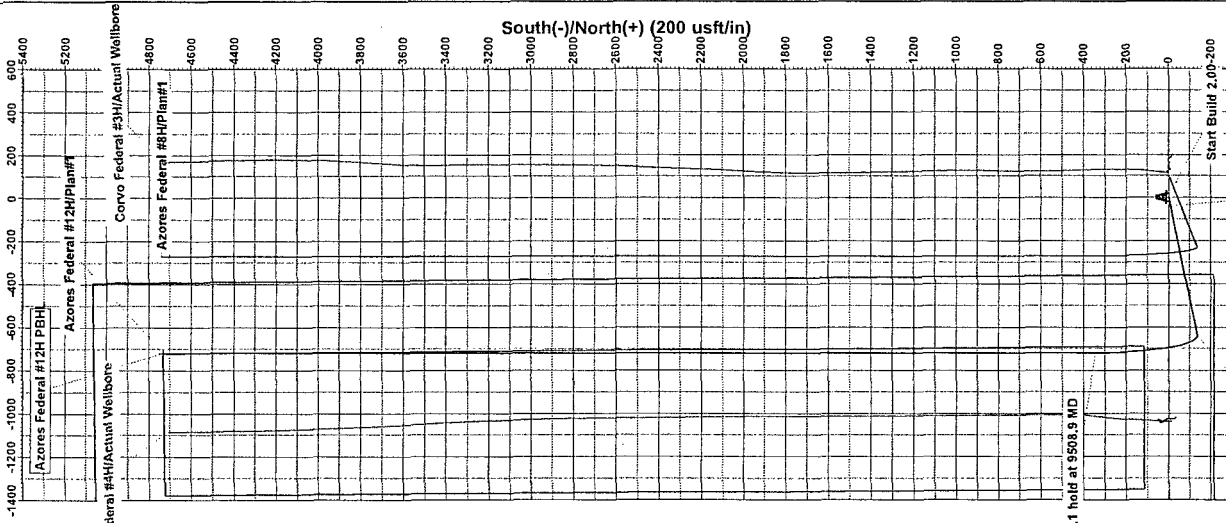


Start DLS 12.00 TFO 101.77
Start 3504.0 hold at 5138.1 MD



Start DLS 12.00 TFO 101.77
Start 3504.0 hold at 5138.1 MD

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



Start DLS 12.00 TFO 101.77
Start 3504.0 hold at 5138.1 MD

Start DLS 12.00 TFO 101.77
Start 3504.0 hold at 5138.1 MD

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

Integrity Directional Services

