

30-025-42818



HOBBS OCD

OCT 01 2015

RECEIVED

COG Operating LLC

Lea County, NM

Pan Head Fee #13H

SHL: 245' FNL, 1770' FWL, Sec 11, T17S, R32E, Unit C

PP: 330' FNL, 1768.3' FWL, Sec 11, T17S, R32E, Unit C

EOC: 765.9' FNL, 1749.5' FWL, Sec 11, T17S, R32E, Unit C

BHL: 986' FNL, 1648' FWL, Sec 14, T17S, R32E, Unit C

Plan: Plan #1

Standard Planning Report

11 August, 2015



OCT 07 2015



TDS
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SHL: 245' FNL, 1770' FWL, Sec 11, T17S, R32E, Unit C
Company:	COG Operating LLC	TVD Reference:	KB @ 4169.0usft (United 43)
Project:	Lea County, NM	MD Reference:	KB @ 4169.0usft (United 43)
Site:	Pan Head Fee #13H	North Reference:	Grid
Well:	SHL: 245' FNL, 1770' FWL, Sec 11, T17S, R32E, Unit C	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 986' FNL, 1648' FWL, Sec 14, T17S, R32E, Unit C		
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	Pan Head Fee #13H		
Site Position:	Map	Northing:	675,469.00 usft
From:		Easting:	682,379.70 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 51' 19.939 N
		Longitude:	103° 44' 21.932 W
		Grid Convergence:	0.32 °

Well	SHL: 245' FNL, 1770' FWL, Sec 11, T17S, R32E, Unit C		
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° 51' 19.939 N
		Longitude:	103° 44' 21.932 W
		Ground Level:	4,157.0 usft

Wellbore	BHL: 986' FNL, 1648' FWL, Sec 14, T17S, R32E, Unit C		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	8/11/2015	7.28
			Dip Angle
			60.64
			Field Strength
			48,481

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
			Direction
			(°)
			180.83

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	
5,329.1	0.00	0.00	5,329.1	0.0	0.0	0.00	0.00	0.00	0.00	
6,147.3	90.00	180.83	5,850.0	-520.8	-7.5	11.00	11.00	-21.90	180.83	
11,649.6	90.00	180.83	5,850.0	-6,022.6	-87.2	0.00	0.00	0.00	0.00	BHL (PHF #13H/OH)



TDS
Planning Report



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Project:	Lea County, NM	MD Reference:	KB @ 4169.0usft (United 43)
Site:	Pan Head Fee #13H	North Reference:	Grid
Well:	SHL: 245' FNL, 1770' FWL, Sec 11, T17S, R32E, Unit C	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 986' FNL, 1648' FWL, Sec 14, T17S, R32E, Unit C		
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



TDS
Planning Report



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Site:	Pan Head Fee #13H	North Reference:	Grid
Well:	SHL: 245' FNL, 1770' FWL, Sec 11, T17S, R32E, Unit C	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 986' FNL, 1648' FWL, Sec 14, T17S, R32E, Unit C		
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
5,329.1	0.00	0.00	5,329.1	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start DLS 11.00 TFO 180.83									
5,350.0	2.30	180.83	5,350.0	-0.4	0.0	0.4	11.00	11.00	0.00
5,400.0	7.80	180.83	5,399.8	-4.8	-0.1	4.8	11.00	11.00	0.00
5,450.0	13.30	180.83	5,448.9	-14.0	-0.2	14.0	11.00	11.00	0.00
5,500.0	18.80	180.83	5,497.0	-27.8	-0.4	27.8	11.00	11.00	0.00
5,550.0	24.30	180.83	5,543.4	-46.1	-0.7	46.1	11.00	11.00	0.00
5,600.0	29.80	180.83	5,588.0	-68.9	-1.0	68.9	11.00	11.00	0.00
5,650.0	35.30	180.83	5,630.1	-95.8	-1.4	95.8	11.00	11.00	0.00
5,700.0	40.80	180.83	5,669.4	-126.6	-1.8	126.6	11.00	11.00	0.00
5,750.0	46.30	180.83	5,705.7	-161.0	-2.3	161.0	11.00	11.00	0.00
5,800.0	51.80	180.83	5,738.4	-198.7	-2.9	198.8	11.00	11.00	0.00
5,850.0	57.30	180.83	5,767.4	-239.4	-3.5	239.5	11.00	11.00	0.00
5,900.0	62.80	180.83	5,792.4	-282.7	-4.1	282.8	11.00	11.00	0.00
5,950.0	68.30	180.83	5,813.1	-328.2	-4.8	328.3	11.00	11.00	0.00
6,000.0	73.80	180.83	5,829.3	-375.5	-5.4	375.5	11.00	11.00	0.00
6,050.0	79.30	180.83	5,840.9	-424.1	-6.1	424.2	11.00	11.00	0.00
6,100.0	84.80	180.83	5,847.8	-473.6	-6.9	473.7	11.00	11.00	0.00
6,147.3	90.00	180.83	5,850.0	-520.8	-7.5	520.9	11.00	11.00	0.00
EOC - Start 5502.4 hold at 6147.3 MD									
6,200.0	90.00	180.83	5,850.0	-573.5	-8.3	573.6	0.00	0.00	0.00
6,300.0	90.00	180.83	5,850.0	-673.5	-9.8	673.6	0.00	0.00	0.00
6,400.0	90.00	180.83	5,850.0	-773.5	-11.2	773.6	0.00	0.00	0.00
6,500.0	90.00	180.83	5,850.0	-873.5	-12.6	873.6	0.00	0.00	0.00
6,600.0	90.00	180.83	5,850.0	-973.5	-14.1	973.6	0.00	0.00	0.00
6,700.0	90.00	180.83	5,850.0	-1,073.5	-15.5	1,073.6	0.00	0.00	0.00
6,800.0	90.00	180.83	5,850.0	-1,173.5	-17.0	1,173.6	0.00	0.00	0.00
6,900.0	90.00	180.83	5,850.0	-1,273.5	-18.4	1,273.6	0.00	0.00	0.00
7,000.0	90.00	180.83	5,850.0	-1,373.4	-19.9	1,373.6	0.00	0.00	0.00
7,100.0	90.00	180.83	5,850.0	-1,473.4	-21.3	1,473.6	0.00	0.00	0.00
7,200.0	90.00	180.83	5,850.0	-1,573.4	-22.8	1,573.6	0.00	0.00	0.00
7,300.0	90.00	180.83	5,850.0	-1,673.4	-24.2	1,673.6	0.00	0.00	0.00
7,400.0	90.00	180.83	5,850.0	-1,773.4	-25.7	1,773.6	0.00	0.00	0.00
7,500.0	90.00	180.83	5,850.0	-1,873.4	-27.1	1,873.6	0.00	0.00	0.00
7,600.0	90.00	180.83	5,850.0	-1,973.4	-28.6	1,973.6	0.00	0.00	0.00
7,700.0	90.00	180.83	5,850.0	-2,073.4	-30.0	2,073.6	0.00	0.00	0.00
7,800.0	90.00	180.83	5,850.0	-2,173.4	-31.5	2,173.6	0.00	0.00	0.00
7,900.0	90.00	180.83	5,850.0	-2,273.4	-32.9	2,273.6	0.00	0.00	0.00
8,000.0	90.00	180.83	5,850.0	-2,373.3	-34.4	2,373.6	0.00	0.00	0.00
8,100.0	90.00	180.83	5,850.0	-2,473.3	-35.8	2,473.6	0.00	0.00	0.00
8,200.0	90.00	180.83	5,850.0	-2,573.3	-37.3	2,573.6	0.00	0.00	0.00
8,300.0	90.00	180.83	5,850.0	-2,673.3	-38.7	2,673.6	0.00	0.00	0.00
8,400.0	90.00	180.83	5,850.0	-2,773.3	-40.2	2,773.6	0.00	0.00	0.00
8,500.0	90.00	180.83	5,850.0	-2,873.3	-41.6	2,873.6	0.00	0.00	0.00
8,600.0	90.00	180.83	5,850.0	-2,973.3	-43.0	2,973.6	0.00	0.00	0.00
8,700.0	90.00	180.83	5,850.0	-3,073.3	-44.5	3,073.6	0.00	0.00	0.00
8,800.0	90.00	180.83	5,850.0	-3,173.3	-45.9	3,173.6	0.00	0.00	0.00
8,900.0	90.00	180.83	5,850.0	-3,273.2	-47.4	3,273.6	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)
9,000.0	90.00	180.83	5,850.0	-3,373.2	-48.8	3,373.6	0.00	0.00	0.00
9,100.0	90.00	180.83	5,850.0	-3,473.2	-50.3	3,473.6	0.00	0.00	0.00
9,200.0	90.00	180.83	5,850.0	-3,573.2	-51.7	3,573.6	0.00	0.00	0.00
9,300.0	90.00	180.83	5,850.0	-3,673.2	-53.2	3,673.6	0.00	0.00	0.00
9,400.0	90.00	180.83	5,850.0	-3,773.2	-54.6	3,773.6	0.00	0.00	0.00
9,500.0	90.00	180.83	5,850.0	-3,873.2	-56.1	3,873.6	0.00	0.00	0.00
9,600.0	90.00	180.83	5,850.0	-3,973.2	-57.5	3,973.6	0.00	0.00	0.00
9,700.0	90.00	180.83	5,850.0	-4,073.2	-59.0	4,073.6	0.00	0.00	0.00
9,800.0	90.00	180.83	5,850.0	-4,173.2	-60.4	4,173.6	0.00	0.00	0.00
9,900.0	90.00	180.83	5,850.0	-4,273.1	-61.9	4,273.6	0.00	0.00	0.00
10,000.0	90.00	180.83	5,850.0	-4,373.1	-63.3	4,373.6	0.00	0.00	0.00
10,100.0	90.00	180.83	5,850.0	-4,473.1	-64.8	4,473.6	0.00	0.00	0.00
10,200.0	90.00	180.83	5,850.0	-4,573.1	-66.2	4,573.6	0.00	0.00	0.00
10,300.0	90.00	180.83	5,850.0	-4,673.1	-67.7	4,673.6	0.00	0.00	0.00
10,400.0	90.00	180.83	5,850.0	-4,773.1	-69.1	4,773.6	0.00	0.00	0.00
10,500.0	90.00	180.83	5,850.0	-4,873.1	-70.6	4,873.6	0.00	0.00	0.00
10,600.0	90.00	180.83	5,850.0	-4,973.1	-72.0	4,973.6	0.00	0.00	0.00
10,700.0	90.00	180.83	5,850.0	-5,073.1	-73.5	5,073.6	0.00	0.00	0.00
10,800.0	90.00	180.83	5,850.0	-5,173.0	-74.9	5,173.6	0.00	0.00	0.00
10,900.0	90.00	180.83	5,850.0	-5,273.0	-76.3	5,273.6	0.00	0.00	0.00
11,000.0	90.00	180.83	5,850.0	-5,373.0	-77.8	5,373.6	0.00	0.00	0.00
11,100.0	90.00	180.83	5,850.0	-5,473.0	-79.2	5,473.6	0.00	0.00	0.00
11,200.0	90.00	180.83	5,850.0	-5,573.0	-80.7	5,573.6	0.00	0.00	0.00
11,300.0	90.00	180.83	5,850.0	-5,673.0	-82.1	5,673.6	0.00	0.00	0.00
11,400.0	90.00	180.83	5,850.0	-5,773.0	-83.6	5,773.6	0.00	0.00	0.00
11,500.0	90.00	180.83	5,850.0	-5,873.0	-85.0	5,873.6	0.00	0.00	0.00
11,600.0	90.00	180.83	5,850.0	-5,973.0	-86.5	5,973.6	0.00	0.00	0.00
11,649.6	90.00	180.83	5,850.0	-6,022.6	-87.2	6,023.2	0.00	0.00	0.00
TD at 11649.6									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PP (PHF #31H/OH Plan - hit/miss target - Shape - Point	0.00	0.00	5,614.3	-85.0	-1.2	675,384.00	682,378.46	32° 51' 19.098 N	103° 44' 21.952 W
EOC (PHF #13H/OH Plan - plan hits target center - Point	0.00	0.00	5,850.0	-520.8	-7.5	674,948.16	682,372.15	32° 51' 14.785 N	103° 44' 22.054 W
BHL (PHF #13H/OH Plan - plan hits target center - Point	0.00	0.00	5,850.0	-6,022.6	-87.2	669,446.40	682,292.50	32° 50' 20.351 N	103° 44' 23.351 W



TDS
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SHL: 245' FNL, 1770' FWL, Sec 11, T17S, R32E, Unit C
Company:	COG Operating LLC	TVD Reference:	KB @ 4169.0usft (United 43)
Project:	Lea County, NM	MD Reference:	KB @ 4169.0usft (United 43)
Site:	Pan Head Fee #13H	North Reference:	Grid
Well:	SHL: 245' FNL, 1770' FWL, Sec 11, T17S, R32E, Unit C	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 986' FNL, 1648' FWL, Sec 14, T17S, R32E, Unit C		
Design:	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,329.1	5,329.1	0.0	0.0	KOP - Start DLS 11.00 TFO 180.83
6,147.3	5,850.0	-520.8	-7.5	EOC - Start 5502.4 hold at 6147.3 MD
11,649.6	5,850.0	-6,022.6	-87.2	TD at 11649.6



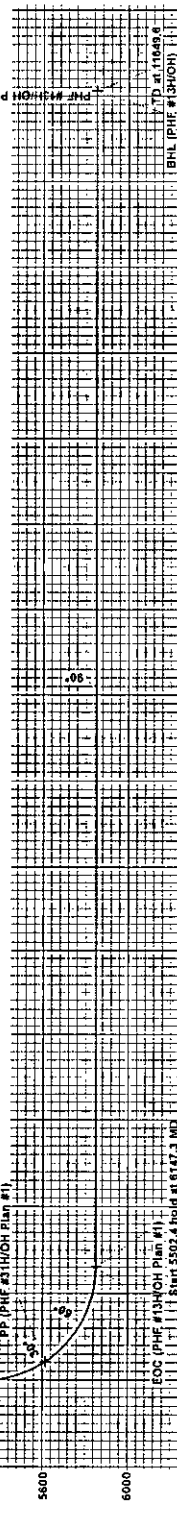
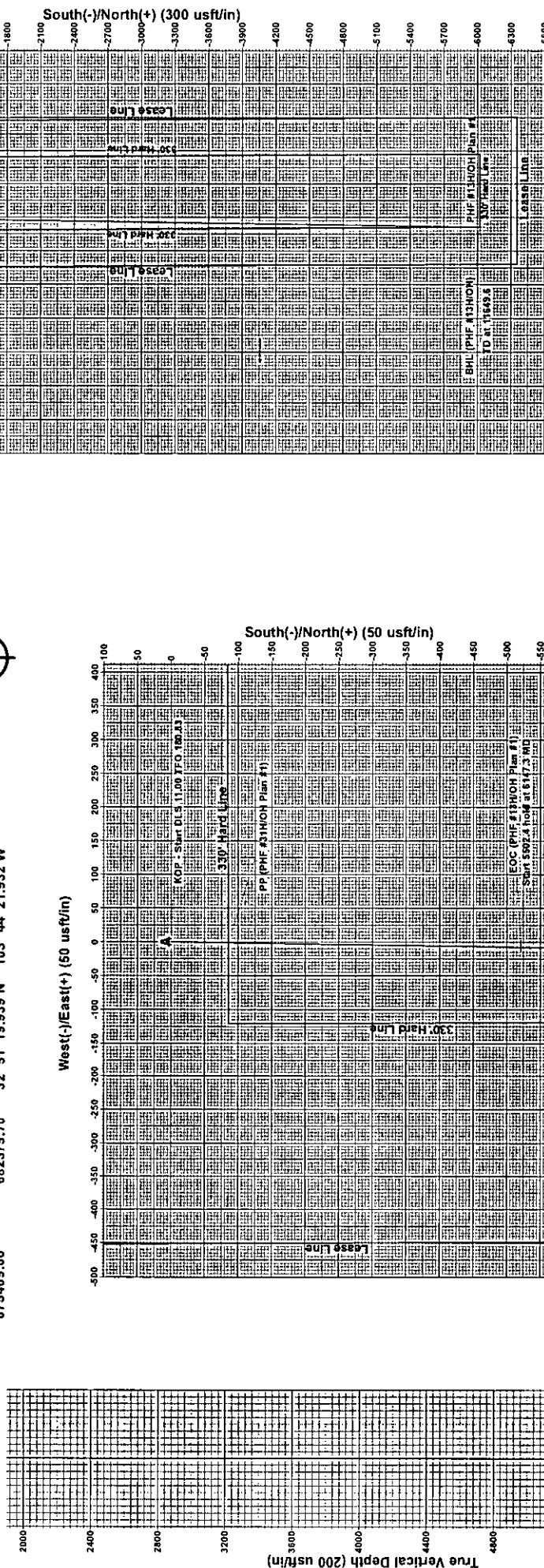
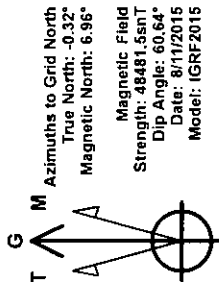
Section Details

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	5329.1	0.00	0.00	5329.1	0.0	0.0	0.00	0.00	0.0	0.0
3	6147.3	90.00	180.83	5850.0	-520.8	-7.5	11.00	180.83	520.9	0.0
4	11649.6	90.00	180.83	5850.0	-6022.6	-87.2	0.00	0.00	6023.2	BHL (PHF #13H/OH)

COG Operating LLC
Project: Lea County, NM
Site: Pan Head Fee #13H
Well: SHL: 245' FNL, 1770' FNL, Sec 11, T17S, R32E, Unit C
Wellbore: BHL: 986' FNL, 1648' FNL, Sec 14, T17S, R32E, Unit C
Plan: Plan #1 (SHL: 245' FNL, 1770' FNL, Sec 11, T17S, R32E, Unit C/BHL: 986' FNL, 1648' FNL, Sec 14, T17S, R32E, Unit C)

Ground Elevation: 4157.0
RKB Elevation: KB @ 4169.0usft (United 43)

Northing 675469.00
Easting 682379.70
Latitude 32° 51' 19.939 N
Longitude 103° 44' 21.932 W



Vertical Section at 180.83° (200 usf/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 (East solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid