



30-025-42819

HOBBS OCD

OCT 01 2015

RECEIVED

COG Operating LLC

Lea County, NM

Pan Head Fee #11H

SHL: 195' FNL, 500' FWL, Sec 11, T17S, R32E, Unit D

PP: 330' FNL, 496.1' FWL, Sec 11, T17S, R32E, Unit D

BHL: 989' FNL, 330' FWL, Sec 14, T17S, R32E, Unit D

Plan: Plan #1

Standard Planning Report

17 August, 2015



OCT 07 2015



TDS
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SHL: 195' FNL, 500' FWL, Sec 11, T17S, R32E, Unit D
Company:	COG Operating LLC	TVD Reference:	KB @ 4186.0usft (United 43)
Project:	Lea County, NM	MD Reference:	KB @ 4186.0usft (United 43)
Site:	Pan Head Fee #11H	North Reference:	Grid
Well:	SHL: 195' FNL, 500' FWL, Sec 11, T17S, R32E, Unit D	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 989' FNL, 330' FWL, Sec 14, T17S, R32E, Unit D		
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 #11H		
Site Position:	From: Map	Northing: 675,513.70 usft Easting: 681,109.40 usft	Latitude: 32° 51' 20.451 N Longitude: 103° 44' 36.820 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.32 °

Well	SHL: 195' FNL, 500' FWL, Sec 11, T17S, R32E, Unit D		
Well Position	+N/-S 0.0 usft +E/-W 0.0 usft	Northing: 675,513.70 usft Easting: 681,109.40 usft	Latitude: 32° 51' 20.451 N Longitude: 103° 44' 36.820 W
Position Uncertainty	0.0 usft	Wellhead Elevation: 0.0 usft	Ground Level: 4,174.0 usft

Wellbore	BHL: 989' FNL, 330' FWL, Sec 14, T17S, R32E, Unit D				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/16/2015	7.28	60.64	48,480

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN		Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	181.27

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
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	181.27	5,850.0	-520.7	-11.6	11.00	11.00	-21.84	181.27	
11,697.1	90.00	181.27	5,850.0	-6,069.2	-134.7	0.00	0.00	0.00	0.00	BHL (PHF #11H/OH F



TDS
Planning Report



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Project:	Lea County, NM	MD Reference:	KB @ 4186.0usft (United 43)
Site:	Pan Head Fee #11H	North Reference:	Grid
Well:	SHL: 195' FNL, 500' FWL, Sec 11, T17S, R32E, Unit D	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 989' FNL, 330' FWL, Sec 14, T17S, R32E, Unit D		
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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Wellbore:	BHL: 989' FNL, 330' FWL, Sec 14, T17S, R32E, Unit D		
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 181.27										
5,350.0	2.30	181.27	5,350.0	-0.4	0.0	0.4	11.00	11.00	0.00	
5,400.0	7.80	181.27	5,399.8	-4.8	-0.1	4.8	11.00	11.00	0.00	
5,450.0	13.30	181.27	5,448.9	-14.0	-0.3	14.0	11.00	11.00	0.00	
5,500.0	18.80	181.27	5,497.0	-27.8	-0.6	27.8	11.00	11.00	0.00	
5,550.0	24.30	181.27	5,543.4	-46.1	-1.0	46.1	11.00	11.00	0.00	
5,600.0	29.80	181.27	5,588.0	-68.9	-1.5	68.9	11.00	11.00	0.00	
5,650.0	35.30	181.27	5,630.1	-95.7	-2.1	95.8	11.00	11.00	0.00	
5,700.0	40.80	181.27	5,669.4	-126.5	-2.8	126.6	11.00	11.00	0.00	
5,750.0	46.30	181.27	5,705.7	-161.0	-3.6	161.0	11.00	11.00	0.00	
5,800.0	51.80	181.27	5,738.4	-198.7	-4.4	198.8	11.00	11.00	0.00	
5,850.0	57.30	181.27	5,767.4	-239.4	-5.3	239.5	11.00	11.00	0.00	
5,900.0	62.80	181.27	5,792.4	-282.7	-6.3	282.8	11.00	11.00	0.00	
5,950.0	68.30	181.27	5,813.1	-328.2	-7.3	328.3	11.00	11.00	0.00	
6,000.0	73.80	181.27	5,829.3	-375.5	-8.3	375.5	11.00	11.00	0.00	
6,050.0	79.30	181.27	5,840.9	-424.0	-9.4	424.2	11.00	11.00	0.00	
6,100.0	84.80	181.27	5,847.8	-473.5	-10.5	473.7	11.00	11.00	0.00	
6,147.3	90.00	181.27	5,850.0	-520.7	-11.6	520.9	11.00	11.00	0.00	
EOC - Start 5549.8 hold at 6147.3 MD										
6,200.0	90.00	181.27	5,850.0	-573.4	-12.7	573.6	0.00	0.00	0.00	
6,300.0	90.00	181.27	5,850.0	-673.4	-14.9	673.6	0.00	0.00	0.00	
6,400.0	90.00	181.27	5,850.0	-773.4	-17.2	773.6	0.00	0.00	0.00	
6,500.0	90.00	181.27	5,850.0	-873.4	-19.4	873.6	0.00	0.00	0.00	
6,600.0	90.00	181.27	5,850.0	-973.3	-21.6	973.6	0.00	0.00	0.00	
6,700.0	90.00	181.27	5,850.0	-1,073.3	-23.8	1,073.6	0.00	0.00	0.00	
6,800.0	90.00	181.27	5,850.0	-1,173.3	-26.0	1,173.6	0.00	0.00	0.00	
6,900.0	90.00	181.27	5,850.0	-1,273.3	-28.3	1,273.6	0.00	0.00	0.00	
7,000.0	90.00	181.27	5,850.0	-1,373.3	-30.5	1,373.6	0.00	0.00	0.00	
7,100.0	90.00	181.27	5,850.0	-1,473.2	-32.7	1,473.6	0.00	0.00	0.00	
7,200.0	90.00	181.27	5,850.0	-1,573.2	-34.9	1,573.6	0.00	0.00	0.00	
7,300.0	90.00	181.27	5,850.0	-1,673.2	-37.1	1,673.6	0.00	0.00	0.00	
7,400.0	90.00	181.27	5,850.0	-1,773.2	-39.4	1,773.6	0.00	0.00	0.00	
7,500.0	90.00	181.27	5,850.0	-1,873.1	-41.6	1,873.6	0.00	0.00	0.00	
7,600.0	90.00	181.27	5,850.0	-1,973.1	-43.8	1,973.6	0.00	0.00	0.00	
7,700.0	90.00	181.27	5,850.0	-2,073.1	-46.0	2,073.6	0.00	0.00	0.00	
7,800.0	90.00	181.27	5,850.0	-2,173.1	-48.2	2,173.6	0.00	0.00	0.00	
7,900.0	90.00	181.27	5,850.0	-2,273.0	-50.4	2,273.6	0.00	0.00	0.00	
8,000.0	90.00	181.27	5,850.0	-2,373.0	-52.7	2,373.6	0.00	0.00	0.00	
8,100.0	90.00	181.27	5,850.0	-2,473.0	-54.9	2,473.6	0.00	0.00	0.00	
8,200.0	90.00	181.27	5,850.0	-2,573.0	-57.1	2,573.6	0.00	0.00	0.00	
8,300.0	90.00	181.27	5,850.0	-2,672.9	-59.3	2,673.6	0.00	0.00	0.00	
8,400.0	90.00	181.27	5,850.0	-2,772.9	-61.5	2,773.6	0.00	0.00	0.00	
8,500.0	90.00	181.27	5,850.0	-2,872.9	-63.8	2,873.6	0.00	0.00	0.00	
8,600.0	90.00	181.27	5,850.0	-2,972.9	-66.0	2,973.6	0.00	0.00	0.00	
8,700.0	90.00	181.27	5,850.0	-3,072.8	-68.2	3,073.6	0.00	0.00	0.00	
8,800.0	90.00	181.27	5,850.0	-3,172.8	-70.4	3,173.6	0.00	0.00	0.00	
8,900.0	90.00	181.27	5,850.0	-3,272.8	-72.6	3,273.6	0.00	0.00	0.00	



TDS
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Wellbore:	BHL: 989' FNL, 330' FWL, Sec 14, T17S, R32E, Unit D		
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)
9,000.0	90.00	181.27	5,850.0	-3,372.8	-74.9	3,373.6	0.00	0.00	0.00
9,100.0	90.00	181.27	5,850.0	-3,472.7	-77.1	3,473.6	0.00	0.00	0.00
9,200.0	90.00	181.27	5,850.0	-3,572.7	-79.3	3,573.6	0.00	0.00	0.00
9,300.0	90.00	181.27	5,850.0	-3,672.7	-81.5	3,673.6	0.00	0.00	0.00
9,400.0	90.00	181.27	5,850.0	-3,772.7	-83.7	3,773.6	0.00	0.00	0.00
9,500.0	90.00	181.27	5,850.0	-3,872.6	-85.9	3,873.6	0.00	0.00	0.00
9,600.0	90.00	181.27	5,850.0	-3,972.6	-88.2	3,973.6	0.00	0.00	0.00
9,700.0	90.00	181.27	5,850.0	-4,072.6	-90.4	4,073.6	0.00	0.00	0.00
9,800.0	90.00	181.27	5,850.0	-4,172.6	-92.6	4,173.6	0.00	0.00	0.00
9,900.0	90.00	181.27	5,850.0	-4,272.5	-94.8	4,273.6	0.00	0.00	0.00
10,000.0	90.00	181.27	5,850.0	-4,372.5	-97.0	4,373.6	0.00	0.00	0.00
10,100.0	90.00	181.27	5,850.0	-4,472.5	-99.3	4,473.6	0.00	0.00	0.00
10,200.0	90.00	181.27	5,850.0	-4,572.5	-101.5	4,573.6	0.00	0.00	0.00
10,300.0	90.00	181.27	5,850.0	-4,672.4	-103.7	4,673.6	0.00	0.00	0.00
10,400.0	90.00	181.27	5,850.0	-4,772.4	-105.9	4,773.6	0.00	0.00	0.00
10,500.0	90.00	181.27	5,850.0	-4,872.4	-108.1	4,873.6	0.00	0.00	0.00
10,600.0	90.00	181.27	5,850.0	-4,972.4	-110.4	4,973.6	0.00	0.00	0.00
10,700.0	90.00	181.27	5,850.0	-5,072.3	-112.6	5,073.6	0.00	0.00	0.00
10,800.0	90.00	181.27	5,850.0	-5,172.3	-114.8	5,173.6	0.00	0.00	0.00
10,900.0	90.00	181.27	5,850.0	-5,272.3	-117.0	5,273.6	0.00	0.00	0.00
11,000.0	90.00	181.27	5,850.0	-5,372.3	-119.2	5,373.6	0.00	0.00	0.00
11,100.0	90.00	181.27	5,850.0	-5,472.2	-121.5	5,473.6	0.00	0.00	0.00
11,200.0	90.00	181.27	5,850.0	-5,572.2	-123.7	5,573.6	0.00	0.00	0.00
11,300.0	90.00	181.27	5,850.0	-5,672.2	-125.9	5,673.6	0.00	0.00	0.00
11,400.0	90.00	181.27	5,850.0	-5,772.2	-128.1	5,773.6	0.00	0.00	0.00
11,500.0	90.00	181.27	5,850.0	-5,872.1	-130.3	5,873.6	0.00	0.00	0.00
11,600.0	90.00	181.27	5,850.0	-5,972.1	-132.5	5,973.6	0.00	0.00	0.00
11,697.1	90.00	181.27	5,850.0	-6,069.2	-134.7	6,070.7	0.00	0.00	0.00
TD at 11697.1									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PP (PHF #11H/OH Plan - hit/miss target - Shape - Point	0.00	0.00	5,679.0	-135.0	-3.0	675,378.70	681,106.40	32° 51' 19.116 N	103° 44' 36.864 W
EOC (PHF #11H/OH Pla - plan hits target center - Point	0.00	0.00	5,850.0	-520.8	-11.6	674,992.93	681,097.84	32° 51' 15.299 N	103° 44' 36.990 W
BHL (PHF #11H/OH Pla - plan hits target center - Point	0.00	0.00	5,850.0	-6,069.2	-134.7	669,444.50	680,974.70	32° 50' 20.405 N	103° 44' 38.796 W

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SHL: 195' FNL, 500' FWL, Sec 11, T17S, R32E, Unit D
Company:	COG Operating LLC	TVD Reference:	KB @ 4186.0usft (United 43)
Project:	Lea County, NM	MD Reference:	KB @ 4186.0usft (United 43)
Site:	Pan Head Fee #11H	North Reference:	Grid
Well:	SHL: 195' FNL, 500' FWL, Sec 11, T17S, R32E, Unit D	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 989' FNL, 330' FWL, Sec 14, T17S, R32E, Unit D		
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 181.27
6,147.3	5,850.0	-520.7	-11.6	EOC - Start 5549.8 hold at 6147.3 MD
11,697.1	5,850.0	-6,069.2	-134.7	TD at 11697.1



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	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	181.27	5850.0	-520.7	-11.6	11.00	181.27	520.9	BHL (PHF #11/HOH Plan #1)
4	11697.1	90.00	181.27	5850.0	-6069.2	-134.7	0.00	6070.7	6070.7	BHL (PHF #11/HOH Plan #1)

WELL DETAILS: SHL: 195' FNL, 500' FWL, Sec 11, T17S, R32E, Unit D
Ground Elevation: 4174.0
RKB Elevation: KB @ 4186.0usft (United 43)
Rig Name: United 43

COG Operating LLC

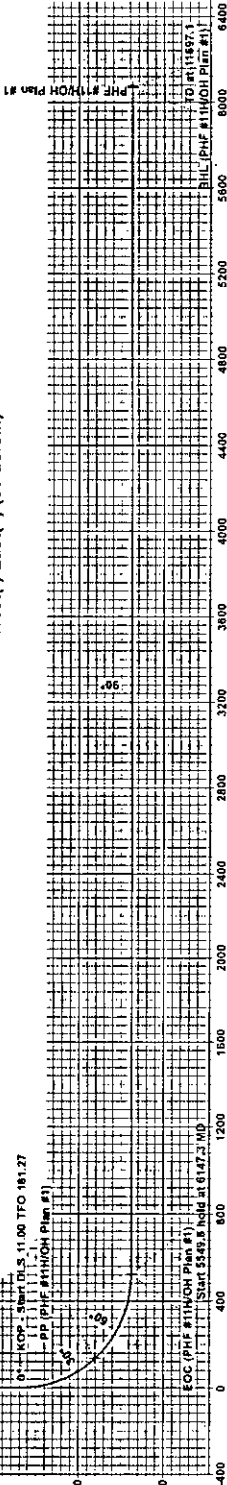
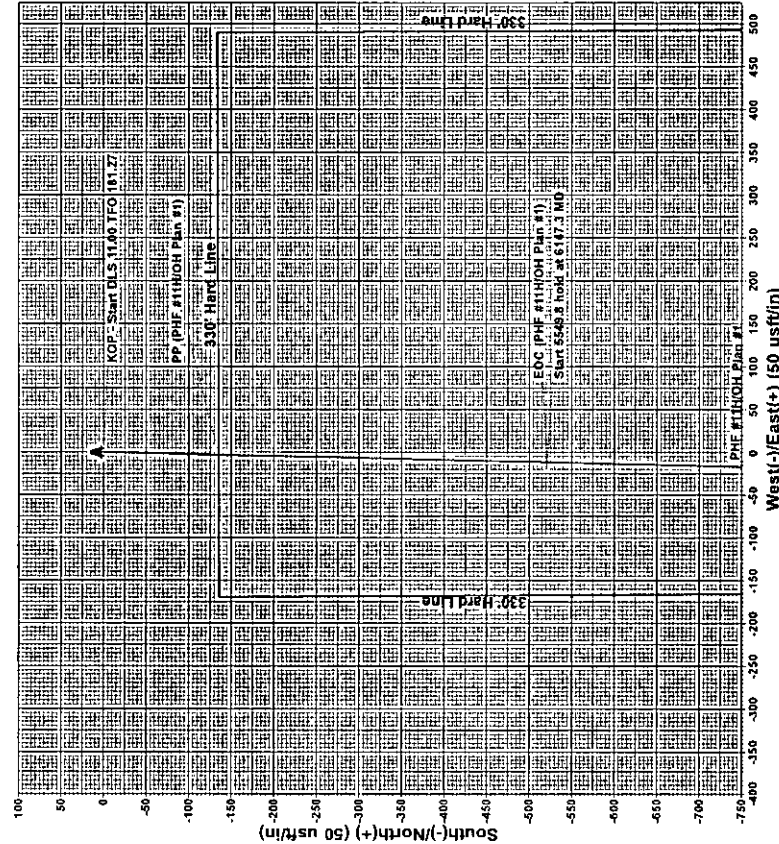
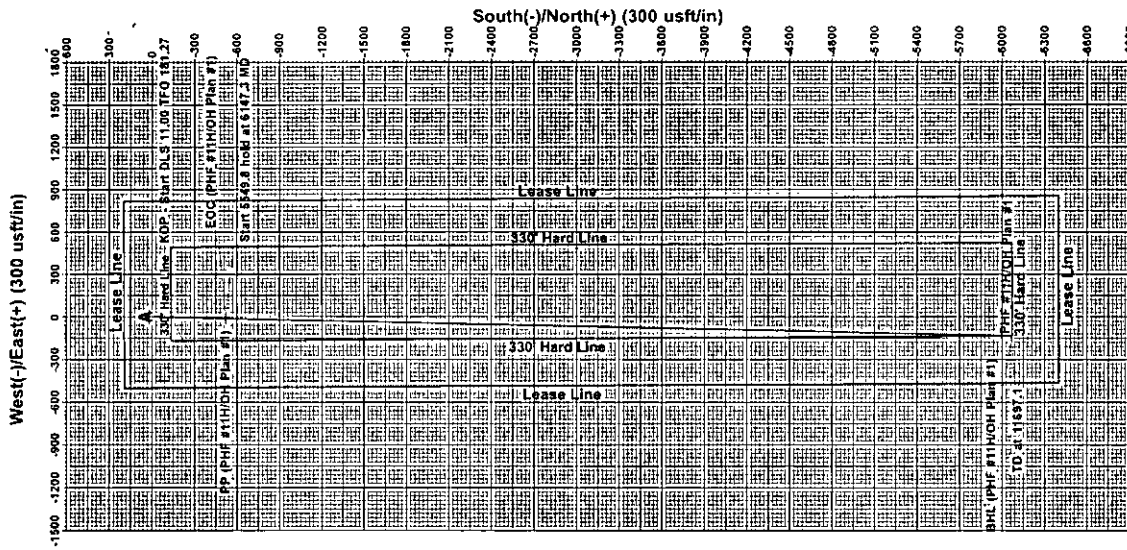
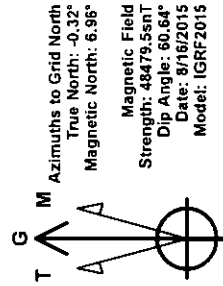
Project: Lea County, NM

Site: Pan Head Fee #11H

Well: SHL: 195' FNL, 500' FWL, Sec 11, T17S, R32E, Unit D

Wallbore: BHL: 999' FNL, 330' FWL, Sec 14, T17S, R32E, Unit D

Plan: Plan #1 (SHL: 195' FNL, 500' FWL, Sec 11, T17S, R32E, Unit D/BHL: 999' FNL, 330' FWL, Sec 14, T17S, R32E, Unit D)



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