

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-40418
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Quimet State Com
8. Well Number 3H
9. OGRID Number 229137
10. Pool name or Wildcat Empire; Glorieta Yeso East 96610

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator

COG Operating LLC

3. Address of Operator

One Concho Center - 600 W Illinois Ave Midland, TX 79701

4. Well Location

Unit Letter **H**: **1800** feet from the **NORTH** line and **150** feet from the **EAST** line
Section **2** Township **17S** Range **29E** NMPM County **EDDY**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3664'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: **Change TVD** ☒

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG Operating LLC respectfully requests permission to change the TVD:

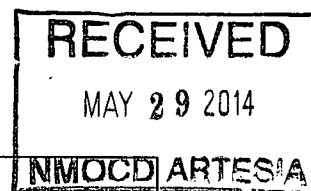
FROM: 5225' TVD ; 9895' MD

TO: 4775' TVD ; 9445' MD

A revised directional plan is attached for your review.

Spud Date:

Rig Release Date:



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE TITLE **Permitting Tech** DATE **05/28/2014**

Type or print name **Kelly J. Holly** E-mail address: **kholly@concho.com** PHONE: **432-685-4384**
For State Use Only

APPROVED BY: TITLE **"Geologist"** DATE **5-29-2014**
Conditions of Approval (if any):

COG OPERATING, LLC

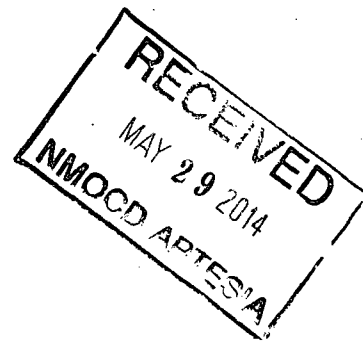
Eddy County, NM

Ouiment State Com 3H

3H

Lateral

Plan: Plan #5



Standard Planning Report

07 May, 2014

Section Distances

Sec2,T17S,R29E

SHL - Lot H

1800'FSL, 150'FEL

PP

1794'FNL, 330'FEL

PBHL - Unit E

1650'FNL, 330'FWL

Archer

Planning Report

Database:	EDM-R5000.1 MULTI	Local Co-ordinate Reference:	Well 3H
Company:	COG OPERATING, LLC	TVD Reference:	3663'GL+14'KB @ 3677.00usft (Planning)
Project:	Eddy County, NM	MD Reference:	3663'GL+14'KB @ 3677.00usft (Planning)
Site:	Ouiment State Com 3H	North Reference:	Grid
Well:	3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #5		

Project:	Eddy 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 Ouiment State Com 3H					
Site Position:		Northing:	678,800.01 usft	Latitude:	32° 51' 56.71 N
From:	Map	Easting:	591,048.20 usft	Longitude:	104° 2' 12.50 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.16 °

Well:	3H					
Well Position	+N/-S	0.00 usft	Northing:	678,800.01 usft	Latitude:	32° 51' 56.71 N
	+E/-W	0.00 usft	Easting:	591,048.20 usft	Longitude:	104° 2' 12.50 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,663.00 usft

Wellbore		Lateral			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/7/2014	7.49	60.63	48,660

Design:		Plan #5		
Audit Notes:				
Version:	Phase:	PROTOTYPE		Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	271.79

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,329.21	0.00	0.00	4,329.21	0.00	0.00	0.00	0.00	0.00	0.00	
5,156.48	91.00	271.79	4,850.00	16.54	-529.70	11.00	11.00	0.00	271.79	
9,445.35	91.00	271.79	4,775.15	150.37	-4,815.83	0.00	0.00	0.00	0.00	Ouiment 3H PBHL

Archer

Planning Report

Database:	EDM R5000.1 MULTI	Local Co-ordinate Reference:	Well: 3H
Company:	COG OPERATING, LLC	TVD Reference:	3663'GL+14'KB @ 3677.00usft (Planning)
Project:	Eddy County NM	MD Reference:	3663'GL+14'KB @ 3677.00usft (Planning)
Site:	Quiment State Corn 3H	North Reference:	Grid
Well:	3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #5		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,329.21	0.00	0.00	4,329.21	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 11.00									
4,350.00	2.29	271.79	4,349.99	0.01	-0.41	0.41	11.00	11.00	0.00
4,400.00	7.79	271.79	4,399.78	0.15	-4.80	4.80	11.00	11.00	0.00
4,450.00	13.29	271.79	4,448.92	0.44	-13.94	13.94	11.00	11.00	0.00
4,500.00	18.79	271.79	4,496.96	0.87	-27.74	27.75	11.00	11.00	0.00
4,550.00	24.29	271.79	4,543.45	1.44	-46.08	46.10	11.00	11.00	0.00
4,600.00	29.79	271.79	4,587.97	2.15	-68.78	68.82	11.00	11.00	0.00
4,650.00	35.29	271.79	4,630.10	2.99	-95.65	95.70	11.00	11.00	0.00
4,700.00	40.79	271.79	4,669.47	3.95	-126.43	126.50	11.00	11.00	0.00

Archer

Planning Report

Database:	EDM-R5000.1-MULTI	Local Co-ordinate Reference:	Well: 3H
Company:	COG OPERATING, LLC	TVD Reference:	3663' GL+14' KB @ 3677.00usft (Planning)
Project:	Eddy County, NM	MD Reference:	3663' GL+14' KB @ 3677.00usft (Planning)
Site:	Quiment State Com 3H	North Reference:	Grid
Well:	3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #5		

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)	
4,750.00	46.29	271.79	4,705.70	5.02	-160.85	160.92	11.00	11.00	0.00	
4,800.00	51.79	271.79	4,738.47	6.20	-198.57	198.67	11.00	11.00	0.00	
4,850.00	57.29	271.79	4,767.46	7.47	-239.26	239.38	11.00	11.00	0.00	
4,900.00	62.79	271.79	4,792.43	8.82	-282.54	282.68	11.00	11.00	0.00	
4,950.00	68.29	271.79	4,813.12	10.24	-328.01	328.17	11.00	11.00	0.00	
5,000.00	73.79	271.79	4,829.37	11.72	-375.26	375.44	11.00	11.00	0.00	
5,050.00	79.29	271.79	4,841.00	13.23	-423.84	424.05	11.00	11.00	0.00	
5,100.00	84.79	271.79	4,847.93	14.78	-473.31	473.54	11.00	11.00	0.00	
5,150.00	90.29	271.79	4,850.07	16.34	-523.22	523.48	11.00	11.00	0.00	
5,156.48	91.00	271.79	4,850.00	16.54	-529.70	529.96	11.00	11.00	0.00	
Start 4288.87 hold at 5156.48 MD										
5,200.00	91.00	271.79	4,849.24	17.90	-573.19	573.47	0.00	0.00	0.00	
5,300.00	91.00	271.79	4,847.50	21.02	-673.13	673.46	0.00	0.00	0.00	
5,400.00	91.00	271.79	4,845.75	24.14	-773.06	773.44	0.00	0.00	0.00	
5,500.00	91.00	271.79	4,844.01	27.26	-873.00	873.43	0.00	0.00	0.00	
5,600.00	91.00	271.79	4,842.26	30.38	-972.94	973.41	0.00	0.00	0.00	
5,700.00	91.00	271.79	4,840.52	33.50	-1,072.87	1,073.40	0.00	0.00	0.00	
5,800.00	91.00	271.79	4,838.77	36.62	-1,172.81	1,173.38	0.00	0.00	0.00	
5,900.00	91.00	271.79	4,837.03	39.74	-1,272.75	1,273.37	0.00	0.00	0.00	
6,000.00	91.00	271.79	4,835.28	42.86	-1,372.68	1,373.35	0.00	0.00	0.00	
6,100.00	91.00	271.79	4,833.53	45.98	-1,472.62	1,473.34	0.00	0.00	0.00	
6,200.00	91.00	271.79	4,831.79	49.10	-1,572.55	1,573.32	0.00	0.00	0.00	
6,300.00	91.00	271.79	4,830.04	52.22	-1,672.49	1,673.30	0.00	0.00	0.00	
6,400.00	91.00	271.79	4,828.30	55.34	-1,772.43	1,773.29	0.00	0.00	0.00	
6,500.00	91.00	271.79	4,826.55	58.46	-1,872.36	1,873.27	0.00	0.00	0.00	
6,600.00	91.00	271.79	4,824.81	61.58	-1,972.30	1,973.26	0.00	0.00	0.00	
6,700.00	91.00	271.79	4,823.06	64.70	-2,072.23	2,073.24	0.00	0.00	0.00	
6,800.00	91.00	271.79	4,821.32	67.82	-2,172.17	2,173.23	0.00	0.00	0.00	
6,900.00	91.00	271.79	4,819.57	70.94	-2,272.11	2,273.21	0.00	0.00	0.00	
7,000.00	91.00	271.79	4,817.83	74.06	-2,372.04	2,373.20	0.00	0.00	0.00	
7,100.00	91.00	271.79	4,816.08	77.19	-2,471.98	2,473.18	0.00	0.00	0.00	
7,200.00	91.00	271.79	4,814.34	80.31	-2,571.91	2,573.17	0.00	0.00	0.00	
7,300.00	91.00	271.79	4,812.59	83.43	-2,671.85	2,673.15	0.00	0.00	0.00	
7,400.00	91.00	271.79	4,810.85	86.55	-2,771.79	2,773.14	0.00	0.00	0.00	
7,500.00	91.00	271.79	4,809.10	89.67	-2,871.72	2,873.12	0.00	0.00	0.00	
7,600.00	91.00	271.79	4,807.36	92.79	-2,971.66	2,973.11	0.00	0.00	0.00	
7,700.00	91.00	271.79	4,805.61	95.91	-3,071.59	3,073.09	0.00	0.00	0.00	
7,800.00	91.00	271.79	4,803.87	99.03	-3,171.53	3,173.08	0.00	0.00	0.00	
7,900.00	91.00	271.79	4,802.12	102.15	-3,271.47	3,273.06	0.00	0.00	0.00	
8,000.00	91.00	271.79	4,800.37	105.27	-3,371.40	3,373.05	0.00	0.00	0.00	
8,100.00	91.00	271.79	4,798.63	108.39	-3,471.34	3,473.03	0.00	0.00	0.00	
8,200.00	91.00	271.79	4,796.88	111.51	-3,571.27	3,573.02	0.00	0.00	0.00	
8,300.00	91.00	271.79	4,795.14	114.63	-3,671.21	3,673.00	0.00	0.00	0.00	
8,400.00	91.00	271.79	4,793.39	117.75	-3,771.15	3,772.98	0.00	0.00	0.00	
8,500.00	91.00	271.79	4,791.65	120.87	-3,871.08	3,872.97	0.00	0.00	0.00	
8,600.00	91.00	271.79	4,789.90	123.99	-3,971.02	3,972.95	0.00	0.00	0.00	
8,700.00	91.00	271.79	4,788.16	127.11	-4,070.96	4,072.94	0.00	0.00	0.00	
8,800.00	91.00	271.79	4,786.41	130.23	-4,170.89	4,172.92	0.00	0.00	0.00	
8,900.00	91.00	271.79	4,784.67	133.35	-4,270.83	4,272.91	0.00	0.00	0.00	
9,000.00	91.00	271.79	4,782.92	136.47	-4,370.76	4,372.89	0.00	0.00	0.00	
9,100.00	91.00	271.79	4,781.18	139.59	-4,470.70	4,472.88	0.00	0.00	0.00	
9,200.00	91.00	271.79	4,779.43	142.71	-4,570.64	4,572.86	0.00	0.00	0.00	
9,300.00	91.00	271.79	4,777.69	145.83	-4,670.57	4,672.85	0.00	0.00	0.00	

Archer

Planning Report

Database:	EDM:R5000.1:MULTI	Local Co-ordinate Reference:	Well: 3H
Company:	COG OPERATING, LLC	TVD Reference:	3663 GL+14 KB @ 3677.00usft (Planning)
Project:	Eddy County, NM	MD Reference:	3663 GL+14 KB @ 3677.00usft (Planning)
Site:	Ouiment, State Com 3H	North Reference:	Grid
Well:	3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #5		

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)
9,400.00	91.00	271.79	4,775.94	148.95	-4,770.51	4,772.83	0.00	0.00	0.00
9,445.35	91.00	271.79	4,775.15	150.37	-4,815.83	4,818.18	0.00	0.00	0.00
TD at 9445.35									

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									
Ouiment 3H Surface	0.00	0.00	0.00	0.00	0.00	678,800.01	591,048.20	32° 51' 56.71 N	104° 2' 12.50 W
- plan hits target center									
- Point									
Ouiment 3H PP	0.00	0.00	0.00	5.62	-180.01	678,805.63	590,868.19	32° 51' 56.77 N	104° 2' 14.61 W
- plan misses target center by 180.10usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Ouiment 3H PBHL	0.00	0.00	4,775.15	150.37	-4,815.83	678,950.38	586,232.37	32° 51' 58.33 N	104° 3' 8.96 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,329.21	4,329.21	0.00	0.00	Start Build 11.00
5,156.48	4,850.00	16.54	-529.70	Start 4288.87 hold at 5156.48 MD
9,445.35	4,775.15	150.37	-4,815.83	TD at 9445.35

COG OPERATING, LLC

Field: Eddy County, NM
 Site: Ouiment State Corn 3H
 Well: 3H
 Wellbore: Lateral
 Plan: Plan #5

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Ouiment 3H PP	0.00	5.62	-180.01	678805.63	590868.19	32° 51' 56.77 N	104° 2' 14.61 W	Point
Ouiment 3H Surface	0.00	0.00	0.00	678800.01	591048.20	32° 51' 56.71 N	104° 2' 12.50 W	Point
Ouiment 3H PBHL	4775.15	150.37	-4815.83	678950.38	586232.37	32° 51' 58.33 N	104° 3' 8.96 W	Point



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4329.21	0.00	0.00	4329.21	0.00	0.00	0.00	0.00	0.00	
3	5156.48	91.00	271.79	4850.00	16.54	-529.70	11.00	271.79	529.96	
4	9445.35	91.00	271.79	4775.15	150.37	-4815.83	0.00	0.00	4818.18	Ouiment 3H PBHL

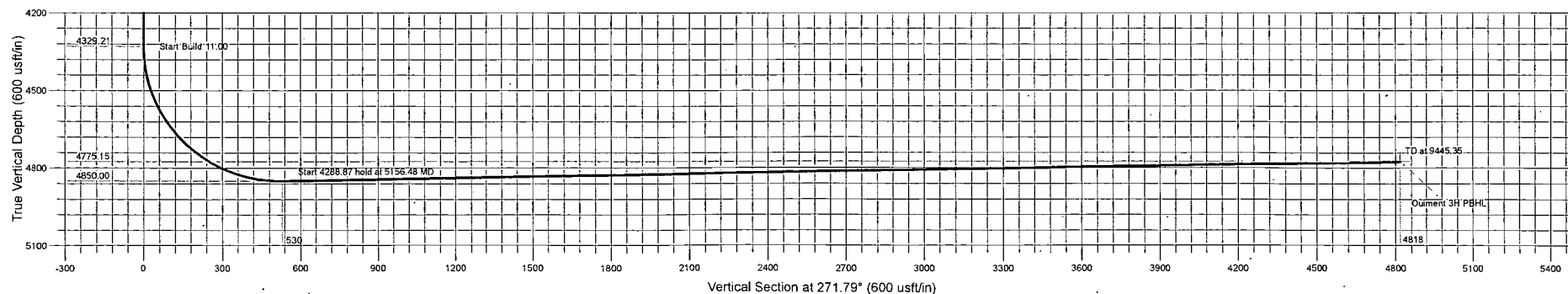
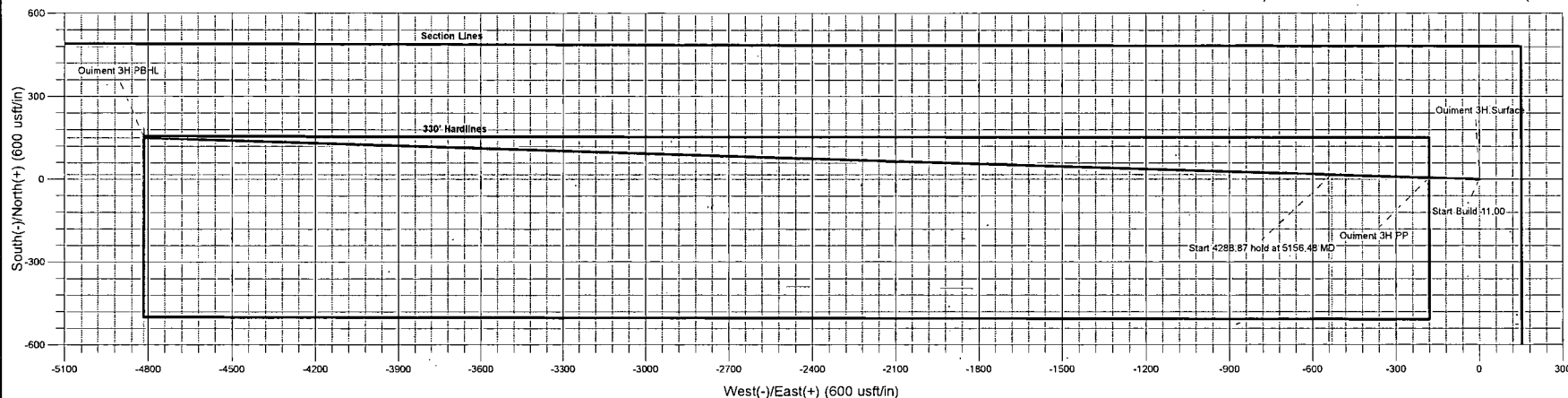
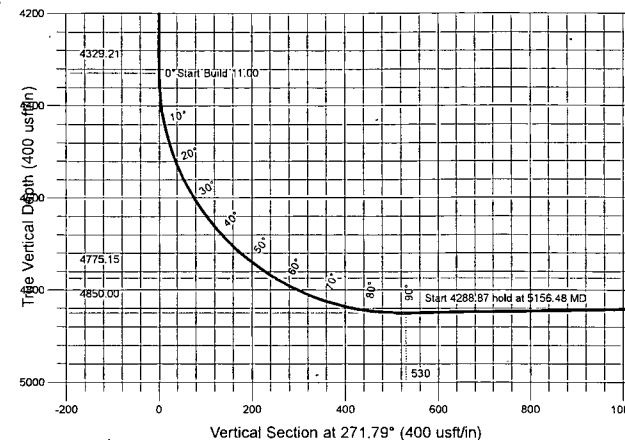
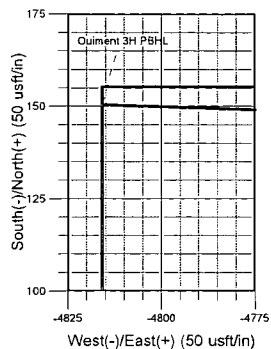
Section Distances

Sec2, T17S, R29E
 SHL - Lot H
 1800'FNL, 150'FEL
 PP
 1794'FNL, 330'FEL
 PBHL - Unit E
 1650'FNL, 330'FWL



Azimuths to Grid North
 True North: -0.16°
 Magnetic North: 7.33°

Magnetic Field
 Strength: 48659.6snT
 Dip Angle: 60.63°
 Date: 5/7/2014
 Model: IGRF2010



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Design: Plan #5 (3H/Lateral)
 Created By: Ivonne Gonzalez
 Date: 11:34, May 07 2014