

Submit 1 Copy To Appropriate District Office
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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

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

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.)		WELL API NO. 30-015-39949
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator COG Operating LLC		6. State Oil & Gas Lease No.
3. Address of Operator One Concho Center - 600 W Illinois Ave Midland, TX 79701		7. Lease Name or Unit Agreement Name Burkett 16 State
4. Well Location Unit Letter D : 330 feet from the NORTH line and 490 feet from the WEST line Section 16 Township 17S Range 31E NMPM County EDDY		8. Well Number 15H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3792'		9. OGRID Number 229137
		10. Pool name or Wildcat Fren; Glorieta Yeso

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 ☐ OTHER: Change TVD ☒	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS ☐ P AND A ☐ CASING/CEMENT JOB ☐ OTHER: ☐
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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.

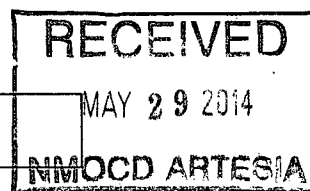
COG Operating LLC proposes to drill a single lateral well and respectfully requests permission to change TVD:

FROM: 6054' TVD ; 9019' MD
TO: 5204' TVD ; 8168' MD -1'

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

Burkett 16 State 15H

15H

Lateral

Plan: Plan #2

Standard Planning Report

07 May, 2014

Section Distances

Sec16,T17S,R31E

SHL - Unit D

330'FNL, 490'FWL

PBHL - Unit B

330'FNL, 1651'FEL

Archer

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well: 15H
Company:	COG OPERATING, LLC	TVD Reference:	3792' GL+14' KB @ 3806' 00usft (Planning)
Project:	Eddy County, NM	MD Reference:	3792' GL+14' KB @ 3806' 00usft (Planning)
Site:	Burkett 16 State 15H	North Reference:	Grid
Well:	15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #2		

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:	Burkett 16 State 15H		
Site Position:		Northing:	669,885.70 usft
From:	Map	Easting:	638,872.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32° 50' 26.82 N
		Longitude:	103° 52' 52.24 W
		Grid Convergence:	0.25 °

Well	15H					
Well Position	+N/-S	0.00 usft	Northing:	669,885.70 usft	Latitude:	32° 50' 26.82 N
	+E/-W	0.00 usft	Easting:	638,872.50 usft	Longitude:	103° 52' 52.24 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,792.00 usft

Wellbore		Lateral			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/7/2014	7.42	60.63	48,661

Design:	Plan #2				
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	89.63	

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,729.21	0.00	0.00	4,729.21	0.00	0.00	0.00	0.00	0.00	0.00	
5,556.48	91.00	92.00	5,250.00	-18.50	529.64	11.00	11.00	0.00	92.00	
5,653.15	91.00	89.10	5,248.32	-19.42	626.28	3.00	0.00	-3.00	-90.00	
8,168.37	91.00	89.10	5,204.47	20.10	3,140.80	0.00	0.00	0.00	0.00	Burkett 16-15H PBHL

Archer

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well: 15H
Company:	GOG OPERATING, LLC	TVD Reference:	3792' GL+14' KB @ 3806' 00usft (Planning)
Project:	Eddy County, NM	MD Reference:	3792' GL+14' KB @ 3806' 00usft (Planning)
Site:	Burkett 16 State 15H	North Reference:	Grid
Well:	15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #2		

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
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,729.21	0.00	0.00	4,729.21	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 11.00									
4,750.00	2.29	92.00	4,749.99	-0.01	0.41	0.41	11.00	11.00	0.00
4,800.00	7.79	92.00	4,799.78	-0.17	4.80	4.80	11.00	11.00	0.00
4,850.00	13.29	92.00	4,848.92	-0.49	13.93	13.93	11.00	11.00	0.00
4,900.00	18.79	92.00	4,896.96	-0.97	27.73	27.73	11.00	11.00	0.00

Archer

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 15H
Company:	COG OPERATING, LLC	TVD Reference:	3792'GL+14'KB @ 3806.00usft (Planning)
Project:	Eddy County, NM	MD Reference:	3792'GL+14'KB @ 3806.00usft (Planning)
Site:	Burkett 16 State 15H	North Reference:	Grid
Well:	15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #2		

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)
4,950.00	24.29	92.00	4,943.45	-1.61	46.07	46.06	11.00	11.00	0.00
5,000.00	29.79	92.00	4,987.97	-2.40	68.78	68.76	11.00	11.00	0.00
5,050.00	35.29	92.00	5,030.10	-3.34	95.64	95.62	11.00	11.00	0.00
5,100.00	40.79	92.00	5,069.47	-4.41	126.42	126.39	11.00	11.00	0.00
5,150.00	46.29	92.00	5,105.70	-5.62	160.83	160.79	11.00	11.00	0.00
5,200.00	51.79	92.00	5,138.47	-6.93	198.55	198.50	11.00	11.00	0.00
5,250.00	57.29	92.00	5,167.46	-8.35	239.23	239.17	11.00	11.00	0.00
5,300.00	62.79	92.00	5,192.43	-9.87	282.50	282.43	11.00	11.00	0.00
5,350.00	68.29	92.00	5,213.12	-11.45	327.97	327.89	11.00	11.00	0.00
5,400.00	73.79	92.00	5,229.37	-13.10	375.21	375.12	11.00	11.00	0.00
5,450.00	79.29	92.00	5,241.00	-14.80	423.79	423.68	11.00	11.00	0.00
5,500.00	84.79	92.00	5,247.93	-16.53	473.26	473.14	11.00	11.00	0.00
5,550.00	90.29	92.00	5,250.07	-18.27	523.16	523.03	11.00	11.00	0.00
5,556.48	91.00	92.00	5,250.00	-18.50	529.64	529.51	11.00	11.00	0.00
Start DLS 3.00 TFO -90.00									
5,600.00	91.00	90.69	5,249.24	-19.52	573.14	573.00	3.00	0.00	-3.00
5,653.15	91.00	89.10	5,248.32	-19.42	626.28	626.14	3.00	0.00	-3.00
Start 2515.22 hold at 5653.15 MD									
5,700.00	91.00	89.10	5,247.50	-18.69	673.11	672.98	0.00	0.00	0.00
5,800.00	91.00	89.10	5,245.76	-17.12	773.09	772.96	0.00	0.00	0.00
5,900.00	91.00	89.10	5,244.01	-15.54	873.06	872.94	0.00	0.00	0.00
6,000.00	91.00	89.10	5,242.27	-13.97	973.03	972.92	0.00	0.00	0.00
6,100.00	91.00	89.10	5,240.53	-12.40	1,073.00	1,072.90	0.00	0.00	0.00
6,200.00	91.00	89.10	5,238.78	-10.83	1,172.98	1,172.88	0.00	0.00	0.00
6,300.00	91.00	89.10	5,237.04	-9.26	1,272.95	1,272.86	0.00	0.00	0.00
6,400.00	91.00	89.10	5,235.30	-7.69	1,372.92	1,372.84	0.00	0.00	0.00
6,500.00	91.00	89.10	5,233.55	-6.12	1,472.89	1,472.82	0.00	0.00	0.00
6,600.00	91.00	89.10	5,231.81	-4.54	1,572.87	1,572.80	0.00	0.00	0.00
6,700.00	91.00	89.10	5,230.07	-2.97	1,672.84	1,672.78	0.00	0.00	0.00
6,800.00	91.00	89.10	5,228.32	-1.40	1,772.81	1,772.77	0.00	0.00	0.00
6,900.00	91.00	89.10	5,226.58	0.17	1,872.78	1,872.75	0.00	0.00	0.00
7,000.00	91.00	89.10	5,224.84	1.74	1,972.76	1,972.73	0.00	0.00	0.00
7,100.00	91.00	89.10	5,223.09	3.31	2,072.73	2,072.71	0.00	0.00	0.00
7,200.00	91.00	89.10	5,221.35	4.88	2,172.70	2,172.69	0.00	0.00	0.00
7,300.00	91.00	89.10	5,219.61	6.45	2,272.67	2,272.67	0.00	0.00	0.00
7,400.00	91.00	89.10	5,217.86	8.03	2,372.65	2,372.65	0.00	0.00	0.00
7,500.00	91.00	89.10	5,216.12	9.60	2,472.62	2,472.63	0.00	0.00	0.00
7,600.00	91.00	89.10	5,214.38	11.17	2,572.59	2,572.61	0.00	0.00	0.00
7,700.00	91.00	89.10	5,212.63	12.74	2,672.56	2,672.59	0.00	0.00	0.00
7,800.00	91.00	89.10	5,210.89	14.31	2,772.53	2,772.57	0.00	0.00	0.00
7,900.00	91.00	89.10	5,209.15	15.88	2,872.51	2,872.55	0.00	0.00	0.00
8,000.00	91.00	89.10	5,207.41	17.45	2,972.48	2,972.53	0.00	0.00	0.00
8,100.00	91.00	89.10	5,205.66	19.03	3,072.45	3,072.51	0.00	0.00	0.00
8,168.37	91.00	89.10	5,204.47	20.10	3,140.80	3,140.86	0.00	0.00	0.00
TD at 8168.37									

Archer

Planning Report

Database:	EDM5000.1 Single User Db	Local Co-ordinate Reference:	Well 15H
Company:	COG OPERATING, LLC	TVD Reference:	3792'GL+14'KB @ 3806.00usft (Planning)
Project:	Eddy County, NM	MD Reference:	3792'GL+14'KB @ 3806.00usft (Planning)
Site:	Burkett 16 State 15H	North Reference:	Grid
Well:	15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #2		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Burkett 16-15H Surface	0.00	0.00	0.00	0.00	0.00	669,885.70	638,872.50	32° 50' 26.82 N	103° 52' 52.24 W
- plan hits target center									
- Point									
Burkett 16-15H PBHL	0.00	0.00	5,204.47	20.10	3,140.80	669,905.80	642,013.30	32° 50' 26.89 N	103° 52' 15.42 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
4,729.21	4,729.21	0.00	0.00	Start Build 11.00
5,556.48	5,250.00	-18.50	529.64	Start DLS 3.00 TFO -90.00
5,653.15	5,248.32	-19.42	626.28	Start 2515.22 hold at 5653.15 MD
8,168.37	5,204.47	20.10	3,140.80	TD at 8168.37

COG OPERATING, LLC

Field: Eddy County, NM
Site: Burkett 16 State 15H
Well: 15H
Wellbore: Lateral
Plan: Plan #2

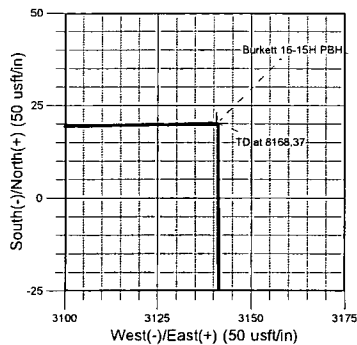


TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
Burkett 16-15H Surface	0.00	0.00	0.00	669885.70	638872.50	32° 50' 26.82 N	103° 52' 52.24 W	Point
Burkett 16-15H PBHL	5204.47	20.10	3140.80	669905.80	642013.30	32° 50' 26.89 N	103° 52' 15.42 W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4729.21	0.00	0.00	4729.21	0.00	0.00	0.00	0.00	0.00	
3	5556.48	91.00	92.00	5250.00	-18.50	529.64	11.00	92.00	529.51	
4	5653.15	91.00	89.10	5248.31	-19.42	626.28	3.00	-90.00	626.14	
5	8168.37	91.00	89.10	5204.47	20.10	3140.80	0.00	0.00	3140.86	Burkett 16-15H PBHL

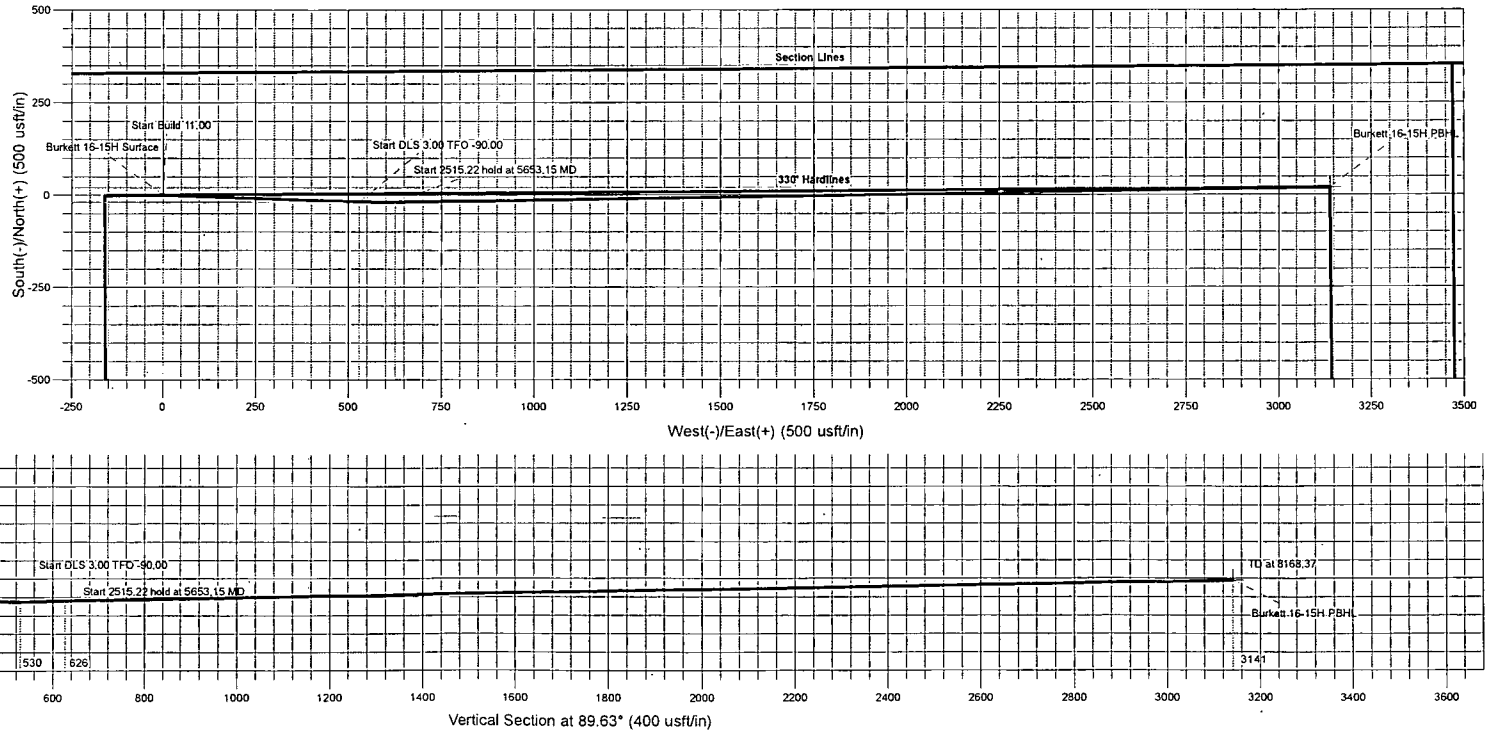
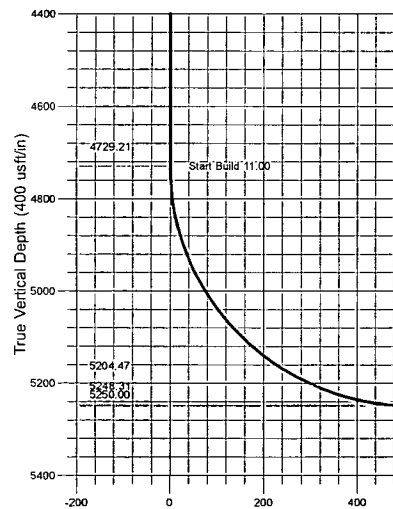
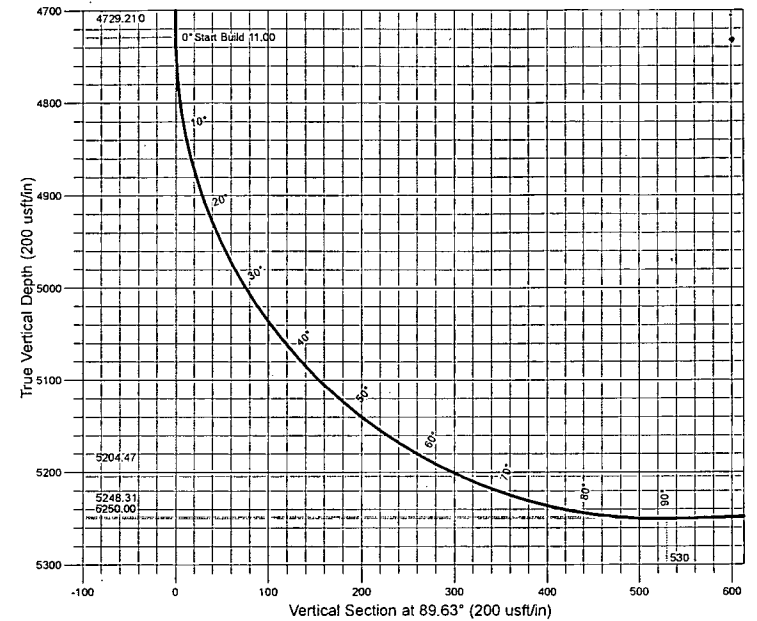


Section Distances

Sec16,T17S,R31E
SHL - Unit D
330°FNL, 490°FWL
PBHL - Unit B
330°FNL, 1651°FEL

Azimuths to Grid North
True North: -0.24°
Magnetic North: 7.17°

Magnetic Field
Strength: 48660.8nT
Dip Angle: 60.63°
Date: 5/7/2014
Model: IGRF2010



Archer

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Design: Plan #2 (15H/Lateral)
Created By: Ivonne Gonzalez
Date: 14:21, May 07 2014