

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

Carlsbad Field Office
OCD Artesia

5. Lease Serial No.
NMNM0557370
6. If Tribal, Name of Tribe or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. EAGLE 26 FEDERAL COM 15H
2. Name of Operator COG OPERATING LLC Contact: ROBYN RUSSELL E-Mail: rrussell@concho.com		9. API Well No. 30-015-43855-00-X1
3a. Address 600 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-685-4385	10. Field and Pool or Exploratory Area RED LAKE
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 25 T17S R27E NWSW 2096FSL 221FWL		11. County or Parish, State EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

COG Operating LLC respectfully requests to change the TVD of this well as follows:

FROM: 3430'TVD; 8448'MD; EOC: 3470'TVD
TO: 3330'TVD; 8348'MD; EOC: 3370'TVD

Attached is the revised directional plan.

- All previous COA still apply. Additional COA is not required.

NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 30 2017

14. I hereby certify that the foregoing is true and correct. Electronic Submission #369089 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 03/08/2017 (17PP0368SE)		RECEIVED	
Name (Printed/Typed) ROBYN RUSSELL	Title REGULATORY ANALYST		
Signature (Electronic Submission)	Date 03/08/2017		
THIS SPACE FOR FEDERAL OR STATE OFFICE USE			
Approved By <u>Mustafa Haguer</u>		Title PETROLEUM ENGINEER	Date <u>5/24/2017</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office <u>CFO</u>	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.			

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****



NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 30 2017

RECEIVED

COG Operating LLC

Eddy County, NM (NAD-27 2015)

Eagle 26 Federal Com #15H

SHL: 2096' FSL, 221' FWL, Sec 25, T17S, R27E, Unit L

PP: 2116' FSL, 330' FEL, Sec 26, T17S, R27E, Unit I

BHL: 2289' FSL, 330' FWL, Sec 26, T17S, R27E, Unit L

Target Center Line: 3375' KB TVD @ 0.00' Vertical Section

Plan: Design #2

Standard Planning Report

25 July, 2016





TDS
Planning Report



Database: EDM 5000.1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAD-27 2015)
Site: Eagle 26 Federal Com #15H
Well: SHL: 2096' FSL, 221' FWL, Sec 25, T17S, R27E, Unit L
Wellbore: BHL: 2289' FSL, 330' FWL, Sec 26, T17S, R27E, Unit L
Design: Design #2

Local Co-ordinate Reference: Well SHL: 2096' FSL, 221' FWL, Sec 25, T17S, R27E, Unit L
TVD Reference: KB @ 3593.00usft (Silver Oak 3)
MD Reference: KB @ 3593.00usft (Silver Oak 3)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, NM (NAD-27 2015)		
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		Eagle 26 Federal Com #15H			
Site Position:		Northing:	656,052.90 usft	Latitude:	32° 48' 12.756 N
From:	Map	Easting:	528,802.10 usft	Longitude:	104° 14' 22.542 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.05 °

Well	SHL: 2096' FSL, 221' FWL, Sec 25, T17S, R27E, Unit L					
Well Position	+N/-S	0.00 usft	Northing:	656,052.90 usft	Latitude:	32° 48' 12.756 N
	+E/-W	0.00 usft	Easting:	528,802.10 usft	Longitude:	104° 14' 22.542 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft	Ground Level:	3,575.00 usft

Wellbore	BHL: 2289' FSL, 330' FWL, Sec 26, T17S, R27E, Unit L				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/29/2016	7.44	60.50	48,334

Design	Design #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	273.08

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	
2,849.56	0.00	0.00	2,849.56	0.00	0.00	0.00	0.00	0.00	0.00	
3,672.29	90.50	273.08	3,370.41	28.20	-524.66	11.00	11.00	-10.57	273.08	
8,348.04	90.50	273.08	3,329.61	279.10	-5,193.50	0.00	0.00	0.00	0.00	PBHL (E26FC #15H/L)



TDS
Planning Report



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MD Reference: KB @ 3593.00usft (Silver Oak 3)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
2,849.56	0.00	0.00	2,849.56	0.00	0.00	0.00	0.00	0.00	0.00
Start DLS 11.00 TFO 273.08									
2,900.00	5.55	273.08	2,899.92	0.13	-2.44	2.44	11.00	11.00	0.00
2,950.00	11.05	273.08	2,949.38	0.52	-9.64	9.65	11.00	11.00	0.00
3,000.00	16.55	273.08	2,997.92	1.16	-21.54	21.57	11.00	11.00	0.00
3,050.00	22.05	273.08	3,045.09	2.04	-38.04	38.09	11.00	11.00	0.00
3,100.00	27.55	273.08	3,090.46	3.17	-58.97	59.06	11.00	11.00	0.00
3,150.00	33.05	273.08	3,133.62	4.52	-84.15	84.27	11.00	11.00	0.00
3,200.00	38.55	273.08	3,174.15	6.09	-113.34	113.51	11.00	11.00	0.00
3,250.00	44.05	273.08	3,211.70	7.86	-146.28	146.49	11.00	11.00	0.00
3,300.00	49.55	273.08	3,245.92	9.82	-182.66	182.93	11.00	11.00	0.00
3,350.00	55.05	273.08	3,276.48	11.94	-222.15	222.47	11.00	11.00	0.00
3,400.00	60.55	273.08	3,303.12	14.21	-264.38	264.76	11.00	11.00	0.00
3,450.00	66.05	273.08	3,325.58	16.60	-308.97	309.42	11.00	11.00	0.00
3,500.00	71.55	273.08	3,343.65	19.10	-355.50	356.01	11.00	11.00	0.00
3,550.00	77.05	273.08	3,357.18	21.69	-403.55	404.13	11.00	11.00	0.00
3,600.00	82.55	273.08	3,366.03	24.33	-452.67	453.32	11.00	11.00	0.00
3,650.00	88.05	273.08	3,370.13	27.00	-502.41	503.13	11.00	11.00	0.00
3,672.29	90.50	273.08	3,370.41	28.20	-524.66	525.42	11.00	11.00	0.00
Start 4675.76 hold at 3672.29 MD									
3,700.00	90.50	273.08	3,370.17	29.68	-552.33	553.13	0.00	0.00	0.00
3,800.00	90.50	273.08	3,369.30	35.05	-652.18	653.12	0.00	0.00	0.00



TDS
Planning Report



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Site: Eagle 26 Federal Com #15H
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MD Reference: KB @ 3593.00usft (Silver Oak 3)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
3,900.00	90.50	273.08	3,368.42	40.41	-752.04	753.12	0.00	0.00	0.00
4,000.00	90.50	273.08	3,367.55	45.78	-851.89	853.12	0.00	0.00	0.00
4,100.00	90.50	273.08	3,366.68	51.15	-951.74	953.11	0.00	0.00	0.00
4,200.00	90.50	273.08	3,365.81	56.51	-1,051.59	1,053.11	0.00	0.00	0.00
4,300.00	90.50	273.08	3,364.93	61.88	-1,151.44	1,153.10	0.00	0.00	0.00
4,400.00	90.50	273.08	3,364.06	67.24	-1,251.30	1,253.10	0.00	0.00	0.00
4,500.00	90.50	273.08	3,363.19	72.61	-1,351.15	1,353.10	0.00	0.00	0.00
4,600.00	90.50	273.08	3,362.32	77.98	-1,451.00	1,453.09	0.00	0.00	0.00
4,700.00	90.50	273.08	3,361.44	83.34	-1,550.85	1,553.09	0.00	0.00	0.00
4,800.00	90.50	273.08	3,360.57	88.71	-1,650.70	1,653.09	0.00	0.00	0.00
4,900.00	90.50	273.08	3,359.70	94.08	-1,750.56	1,753.08	0.00	0.00	0.00
5,000.00	90.50	273.08	3,358.83	99.44	-1,850.41	1,853.08	0.00	0.00	0.00
5,100.00	90.50	273.08	3,357.95	104.81	-1,950.26	1,953.07	0.00	0.00	0.00
5,200.00	90.50	273.08	3,357.08	110.17	-2,050.11	2,053.07	0.00	0.00	0.00
5,300.00	90.50	273.08	3,356.21	115.54	-2,149.96	2,153.07	0.00	0.00	0.00
5,400.00	90.50	273.08	3,355.33	120.91	-2,249.82	2,253.06	0.00	0.00	0.00
5,500.00	90.50	273.08	3,354.46	126.27	-2,349.67	2,353.06	0.00	0.00	0.00
5,600.00	90.50	273.08	3,353.59	131.64	-2,449.52	2,453.06	0.00	0.00	0.00
5,700.00	90.50	273.08	3,352.72	137.00	-2,549.37	2,553.05	0.00	0.00	0.00
5,800.00	90.50	273.08	3,351.84	142.37	-2,649.23	2,653.05	0.00	0.00	0.00
5,900.00	90.50	273.08	3,350.97	147.74	-2,749.08	2,753.04	0.00	0.00	0.00
6,000.00	90.50	273.08	3,350.10	153.10	-2,848.93	2,853.04	0.00	0.00	0.00
6,100.00	90.50	273.08	3,349.23	158.47	-2,948.78	2,953.04	0.00	0.00	0.00
6,200.00	90.50	273.08	3,348.35	163.83	-3,048.63	3,053.03	0.00	0.00	0.00
6,300.00	90.50	273.08	3,347.48	169.20	-3,148.49	3,153.03	0.00	0.00	0.00
6,400.00	90.50	273.08	3,346.61	174.57	-3,248.34	3,253.03	0.00	0.00	0.00
6,500.00	90.50	273.08	3,345.74	179.93	-3,348.19	3,353.02	0.00	0.00	0.00
6,600.00	90.50	273.08	3,344.86	185.30	-3,448.04	3,453.02	0.00	0.00	0.00
6,700.00	90.50	273.08	3,343.99	190.66	-3,547.89	3,553.01	0.00	0.00	0.00
6,800.00	90.50	273.08	3,343.12	196.03	-3,647.75	3,653.01	0.00	0.00	0.00
6,900.00	90.50	273.08	3,342.25	201.40	-3,747.60	3,753.01	0.00	0.00	0.00
7,000.00	90.50	273.08	3,341.37	206.76	-3,847.45	3,853.00	0.00	0.00	0.00
7,100.00	90.50	273.08	3,340.50	212.13	-3,947.30	3,953.00	0.00	0.00	0.00
7,200.00	90.50	273.08	3,339.63	217.50	-4,047.15	4,052.99	0.00	0.00	0.00
7,300.00	90.50	273.08	3,338.76	222.86	-4,147.01	4,152.99	0.00	0.00	0.00
7,400.00	90.50	273.08	3,337.88	228.23	-4,246.86	4,252.99	0.00	0.00	0.00
7,500.00	90.50	273.08	3,337.01	233.59	-4,346.71	4,352.98	0.00	0.00	0.00
7,600.00	90.50	273.08	3,336.14	238.96	-4,446.56	4,452.98	0.00	0.00	0.00
7,700.00	90.50	273.08	3,335.26	244.33	-4,546.42	4,552.98	0.00	0.00	0.00
7,800.00	90.50	273.08	3,334.39	249.69	-4,646.27	4,652.97	0.00	0.00	0.00
7,900.00	90.50	273.08	3,333.52	255.06	-4,746.12	4,752.97	0.00	0.00	0.00
8,000.00	90.50	273.08	3,332.65	260.42	-4,845.97	4,852.96	0.00	0.00	0.00
8,100.00	90.50	273.08	3,331.77	265.79	-4,945.82	4,952.96	0.00	0.00	0.00
8,200.00	90.50	273.08	3,330.90	271.16	-5,045.68	5,052.96	0.00	0.00	0.00
8,300.00	90.50	273.08	3,330.03	276.52	-5,145.53	5,152.95	0.00	0.00	0.00
8,348.04	90.50	273.08	3,329.61	279.10	-5,193.50	5,200.99	0.00	0.00	0.00

TD at 8348.04



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Site: Eagle 26 Federal Com #15H
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Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (E26FC #15H/L1 D - plan hits target center - Point	0.00	0.00	2,849.56	0.00	0.00	656,052.90	528,802.10	32° 48' 12.756 N	104° 14' 22.542 W
PBHL (E26FC #15H/L1) - plan hits target center - Point	0.00	0.01	3,329.61	279.10	-5,193.50	656,332.00	523,608.60	32° 48' 15.560 N	104° 15' 23.389 W
PP (E26FC #15H/L1 De: - plan hits target center - Point	0.00	0.00	3,370.18	29.61	-551.05	656,082.52	528,251.05	32° 48' 13.054 N	104° 14' 28.998 W
EOC (E26FC #15H/L1 D - plan hits target center - Point	0.00	0.00	3,370.41	28.20	-524.66	656,081.10	528,277.44	32° 48' 13.040 N	104° 14' 28.689 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,849.56	2,849.56	0.00	0.00	Start DLS 11.00 TFO 273.08
3,672.29	3,370.41	28.20	-524.66	Start 4675.76 hold at 3672.29 MD
8,348.04	3,329.61	279.10	-5,193.50	TD at 8348.04



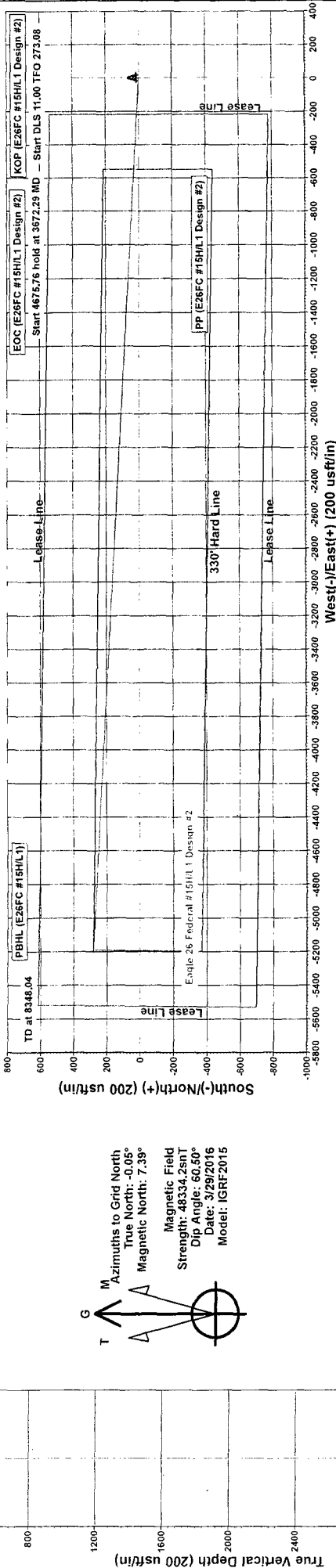
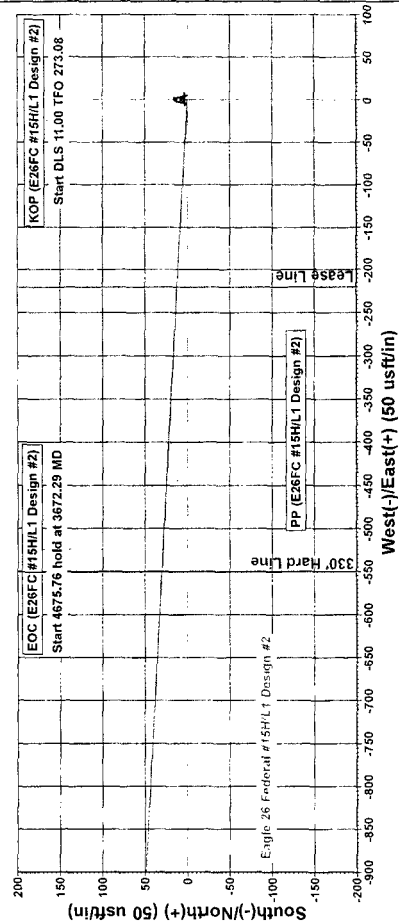
Project: Eddy County, NM (NAD-27 2015)

Site: Eagle 26 Federal Com #15H

Well: SHL: 2096' FSL, 221' FWL, Sec 25, T17S, R27E, Unit L
Wellbore: BHL: 2289' FSL, 330' FWL, Sec 26, T17S, R27E, Unit L

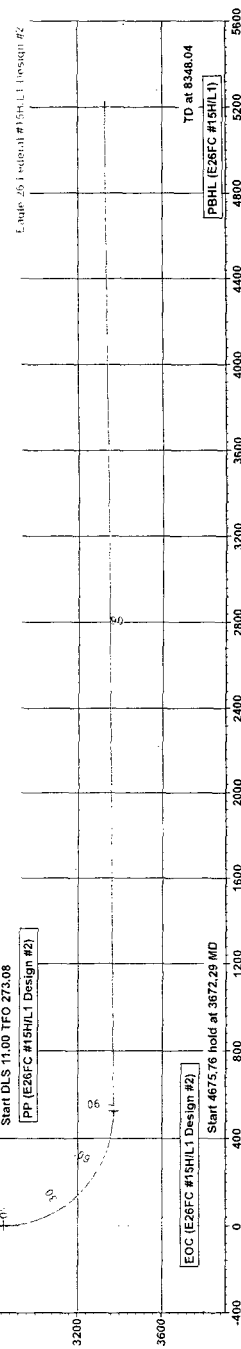
wellbore. BHL: 2289' FSL, 330' FWL, Sec 26, T17S, R27E, Unit L
Plan: Design #2 (SHL: 2096' FSL, 221' FWL, Sec 25, T17S, R27E, Unit L/BHL: 2289' FSL, 330' FWL, Sec 26, T17S, R27E, Unit L)

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	2849.56	0.00	0.00	2849.56	0.00	0.00	0.00	0.00	0.00	
3	3672.29	90.50	273.08	3370.41	28.20	-524.66	11.00	273.08	525.42	
4	8348.04	90.50	273.08	3329.61	279.10	-5193.50	0.00	0.00	5200.99	PBHL



Ground Elevation:: 3575.00
RKB Elevation: KB @ 3593.00usft (Silver Oak 3)

Northings	Easting	Latitude	Longitude
656052.90	528802.10	32° 48' 12.756 N	104° 14' 22.542 W



PROJECT DETAILS: Eddy County, NM (NAD-27 2015)
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

Vertical Section at 273.08° (200 usft/in)

Terra Directional Services LLC

Delta Directional Services LLC
3705 South County Road 1210, Midland, TX 79706

Phone: 432-618-1210

