

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

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

WELL API NO. 30-015-34487
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.

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 FOR SUCH PROPOSALS.)		7. Lease Name or Unit Agreement Name COLUMBIA 33 FEE No. 1H
1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐		8. Well Number 1H
2. Name of Operator EOG Resources, Inc		9. OGRID Number 7377
3. Address of Operator P.O. Box 2267 Midland, Texas 79702		10. Pool name or Wildcat EAGLE CREEK; Wolfcamp Gas
4. Well Location Unit Letter: I: 1880 feet from the South line and 660 feet from the East line Section 33 Township 16S Range 24E NMPM County: Eddy		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3417		
Pit or Below-grade Tank Application ☐ or Closure ☐		
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____		
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☒	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER: ☐		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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

AMEND CASING PROGRAM, CEMENT PROGRAM & MUD PROGRAM. See Exhibit "A" attached hereto.

Said Application Permit to Drill to expire on 12/27/2006. EOG respectfully requests an extension for one (1) additional year.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Donny D. Glanton TITLE: Lease Operations Rep DATE 12/8/2006

Type or print name E-mail address: donny_glanton@eogresources.com Telephone No. (432) 686-3642

For State Use Only

BRYAN G. ARANT

DEC 14 2006

APPROVED BY: DISTRICT II GEOLOGIST TITLE DATE

Conditions of Approval (if any):

Permit Information:

Well Name: Columbia 33 Fee #1H

Revised 12/6/06

Location:

SL 1880' FSL & 660' FEL, Section 33, T-16-S, R-24-E, Eddy Co., N.M.

BHL 1880' FSL & 660' FWL, Section 33, T-16-S, R-24-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	900'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,695'	7-7/8"	5 1/2"	17 #	N-80	Surface

Cement Program:

Depth	No. Sacks	Slurries:
900'	150	Lead: Premium Plus + 2% CaCl ₂ + 3% Econolite + 1/4 pps Flocele
	175	Tail: Premium Plus + 2% CaCl ₂ + 1/4 pps Flocele
8,695'	400	Lead: Interfill C + 1/4 pps Flocele
	300	Tail: Premium Cement + 100% Acid Soluble Additive + 0.6% Halad®-344 + 0.8% Econolite + 0.2% HR-55

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 900'	Fresh - Gel	8.6-8.8	28-34	N/c
900' - 4,600'	Cut Brine	8.8-9.2	28-34	N/c
4,600' - 5,400'	Cut Brine	8.8-9.2	28-34	10-15
4,400' - 8,695'	Polymer (Lateral)	9.0-9.4	40-45	10-20

EOG RESOURCES INC.

Planning Report

Database: EDM
Company: EOG - Midland (3)
Project: Thames
Site: Columbia 33 Fee #1H
Well: Columbia 33 Fee #1H
Wellbore: Columbia 33 Fee #1H
Design: Plan #1

Local Co-ordinate Reference: Site Columbia 33 Fee #1H
TVD Reference: WELL @ 3732.00ft (Original Well Elev)
MD Reference: WELL @ 3732.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project: Thames
Map System: US State Plane 1927 (Exact solution) **System Datum:** Ground Level
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

Site: Columbia 33 Fee #1H
Site Position: **Northing:** 682,836.00 ft **Latitude:** 32° 52' 36.986 N
From: Map **Easting:** 422,106.80 ft **Longitude:** 104° 35' 13.380 W
Position Uncertainty: 0.00 ft **Slot Radius:** " **Grid Convergence:** -0.14 °

Well: Columbia 33 Fee #1H
Well Position: **+N/-S** 0.00 ft **Northing:** 682,836.00 ft **Latitude:** 32° 52' 36.986 N
+E/-W 0.00 ft **Easting:** 422,106.80 ft **Longitude:** 104° 35' 13.380 W
Position Uncertainty: 0.00 ft **Wellhead Elevation:** ft **Ground Level:** 3,714.00 ft

Wellbore: Columbia 33 Fee #1H
Magnetics: **Model Name:** IGRF2005 **Sample Date:** 12/5/2006 **Declination (°):** 8.62 **Dip Angle (°):** 60.70 **Field Strength (nT):** 49,300

Design: Plan #1
Audit Notes:
Version: **Phase:** PROTOTYPE **Tie On Depth:** 0.00
Vertical Section: **Depth From (TVD) (ft):** 0.00 **+N/-S (ft):** 0.00 **+E/-W (ft):** 0.00 **Direction (°):** 269.85

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,418.00	0.00	0.00	4,418.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,175.12	90.00	269.84	4,900.00	-1.35	-482.00	11.89	11.89	0.00	269.84	
6,693.12	90.00	269.84	4,900.00	-5.59	-1,999.99	0.00	0.00	0.00	0.00	
6,760.10	92.01	269.85	4,898.83	-5.77	-2,066.95	3.00	3.00	0.02	0.31	
8,694.44	92.01	269.85	4,831.01	-10.80	-4,000.09	0.00	0.00	0.00	0.00	
8,694.74	92.00	269.85	4,831.00	-10.80	-4,000.40	3.00	-2.99	-0.27	-174.90	BHL (Columbia #1)

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TVD Reference: WELL @ 3732.00ft (Original Well Elev)
MD Reference: WELL @ 3732.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
4,418.00	0.00	0.00	4,418.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	9.75	269.84	4,499.61	-0.02	-6.96	6.96	11.89	11.89	0.00
4,600.00	21.63	269.84	4,595.71	-0.09	-33.95	33.95	11.89	11.89	0.00
4,700.00	33.52	269.84	4,684.19	-0.22	-80.17	80.17	11.89	11.89	0.00
4,800.00	45.41	269.84	4,761.25	-0.40	-143.61	143.61	11.89	11.89	0.00
4,900.00	57.30	269.84	4,823.59	-0.62	-221.57	221.57	11.89	11.89	0.00
5,000.00	69.18	269.84	4,868.53	-0.87	-310.70	310.70	11.89	11.89	0.00
5,100.00	81.07	269.84	4,894.16	-1.14	-407.18	407.18	11.89	11.89	0.00
5,175.12	90.00	269.84	4,900.00	-1.35	-482.00	482.00	11.89	11.89	0.00

EOG RESOURCES INC.

Planning Report

Database: EDM
Company: EOG - Midland (3)
Project: Thames
Site: Columbia 33 Fee #1H
Well: Columbia 33 Fee #1H
Wellbore: Columbia 33 Fee #1H
Design: Plan #1

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MD Reference: WELL @ 3732.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.00	90.00	269.84	4,900.00	-1.42	-506.87	506.88	0.00	0.00	0.00
5,300.00	90.00	269.84	4,900.00	-1.69	-606.87	606.88	0.00	0.00	0.00
5,400.00	90.00	269.84	4,900.00	-1.97	-706.87	706.88	0.00	0.00	0.00
5,500.00	90.00	269.84	4,900.00	-2.25	-806.87	806.88	0.00	0.00	0.00
5,600.00	90.00	269.84	4,900.00	-2.53	-906.87	906.88	0.00	0.00	0.00
5,700.00	90.00	269.84	4,900.00	-2.81	-1,006.87	1,006.88	0.00	0.00	0.00
5,800.00	90.00	269.84	4,900.00	-3.09	-1,106.87	1,106.88	0.00	0.00	0.00
5,900.00	90.00	269.84	4,900.00	-3.37	-1,206.87	1,206.88	0.00	0.00	0.00
6,000.00	90.00	269.84	4,900.00	-3.65	-1,306.87	1,306.88	0.00	0.00	0.00
6,100.00	90.00	269.84	4,900.00	-3.93	-1,406.87	1,406.88	0.00	0.00	0.00
6,200.00	90.00	269.84	4,900.00	-4.21	-1,506.87	1,506.88	0.00	0.00	0.00
6,300.00	90.00	269.84	4,900.00	-4.49	-1,606.87	1,606.88	0.00	0.00	0.00
6,400.00	90.00	269.84	4,900.00	-4.77	-1,706.87	1,706.88	0.00	0.00	0.00
6,500.00	90.00	269.84	4,900.00	-5.05	-1,806.87	1,806.88	0.00	0.00	0.00
6,600.00	90.00	269.84	4,900.00	-5.32	-1,906.87	1,906.88	0.00	0.00	0.00
6,693.12	90.00	269.84	4,900.00	-5.59	-1,999.99	2,000.00	0.00	0.00	0.00
6,700.00	90.21	269.84	4,899.99	-5.60	-2,006.87	2,006.88	3.00	3.00	0.02
6,760.10	92.01	269.85	4,898.83	-5.77	-2,066.95	2,066.96	3.00	3.00	0.02
6,800.00	92.01	269.85	4,897.43	-5.87	-2,106.83	2,106.84	0.00	0.00	0.00
6,900.00	92.01	269.85	4,893.92	-6.13	-2,206.77	2,206.78	0.00	0.00	0.00
7,000.00	92.01	269.85	4,890.42	-6.39	-2,306.71	2,306.71	0.00	0.00	0.00
7,100.00	92.01	269.85	4,886.91	-6.65	-2,406.64	2,406.65	0.00	0.00	0.00
7,200.00	92.01	269.85	4,883.40	-6.91	-2,506.58	2,506.59	0.00	0.00	0.00
7,300.00	92.01	269.85	4,879.90	-7.17	-2,606.52	2,606.53	0.00	0.00	0.00
7,400.00	92.01	269.85	4,876.39	-7.43	-2,706.46	2,706.47	0.00	0.00	0.00
7,500.00	92.01	269.85	4,872.89	-7.69	-2,806.40	2,806.41	0.00	0.00	0.00
7,600.00	92.01	269.85	4,869.38	-7.95	-2,906.34	2,906.35	0.00	0.00	0.00
7,700.00	92.01	269.85	4,865.87	-8.21	-3,006.27	3,006.28	0.00	0.00	0.00
7,800.00	92.01	269.85	4,862.37	-8.47	-3,106.21	3,106.22	0.00	0.00	0.00
7,900.00	92.01	269.85	4,858.86	-8.73	-3,206.15	3,206.16	0.00	0.00	0.00
8,000.00	92.01	269.85	4,855.36	-8.99	-3,306.09	3,306.10	0.00	0.00	0.00
8,100.00	92.01	269.85	4,851.85	-9.25	-3,406.03	3,406.04	0.00	0.00	0.00
8,200.00	92.01	269.85	4,848.34	-9.51	-3,505.96	3,505.98	0.00	0.00	0.00
8,300.00	92.01	269.85	4,844.84	-9.77	-3,605.90	3,605.92	0.00	0.00	0.00
8,400.00	92.01	269.85	4,841.33	-10.03	-3,705.84	3,705.85	0.00	0.00	0.00
8,500.00	92.01	269.85	4,837.83	-10.29	-3,805.78	3,805.79	0.00	0.00	0.00
8,600.00	92.01	269.85	4,834.32	-10.55	-3,905.72	3,905.73	0.00	0.00	0.00
8,694.44	92.01	269.85	4,831.01	-10.80	-4,000.09	4,000.11	0.00	0.00	0.00
8,694.74	92.00	269.85	4,831.00	-10.80	-4,000.40	4,000.41	3.00	-2.99	-0.27

Targets

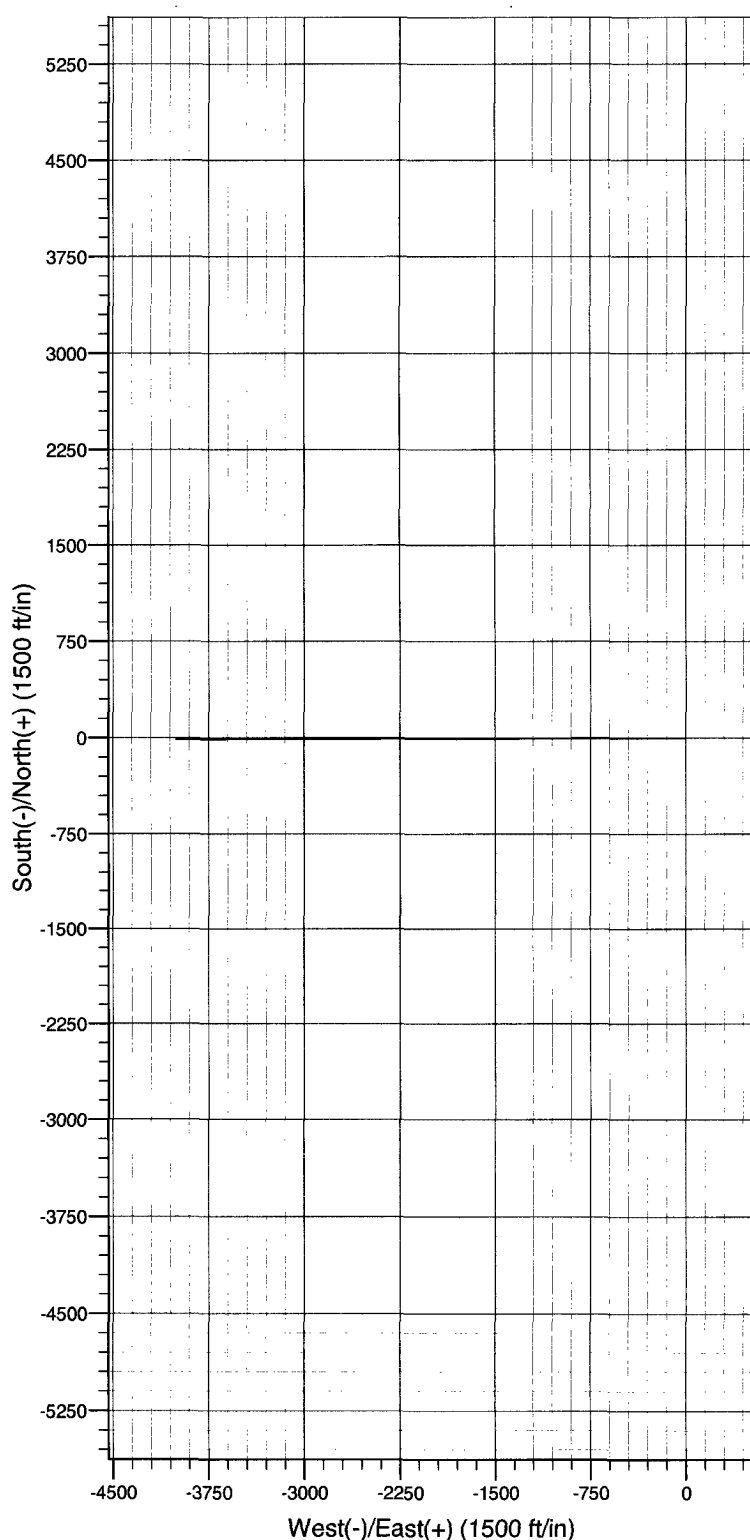
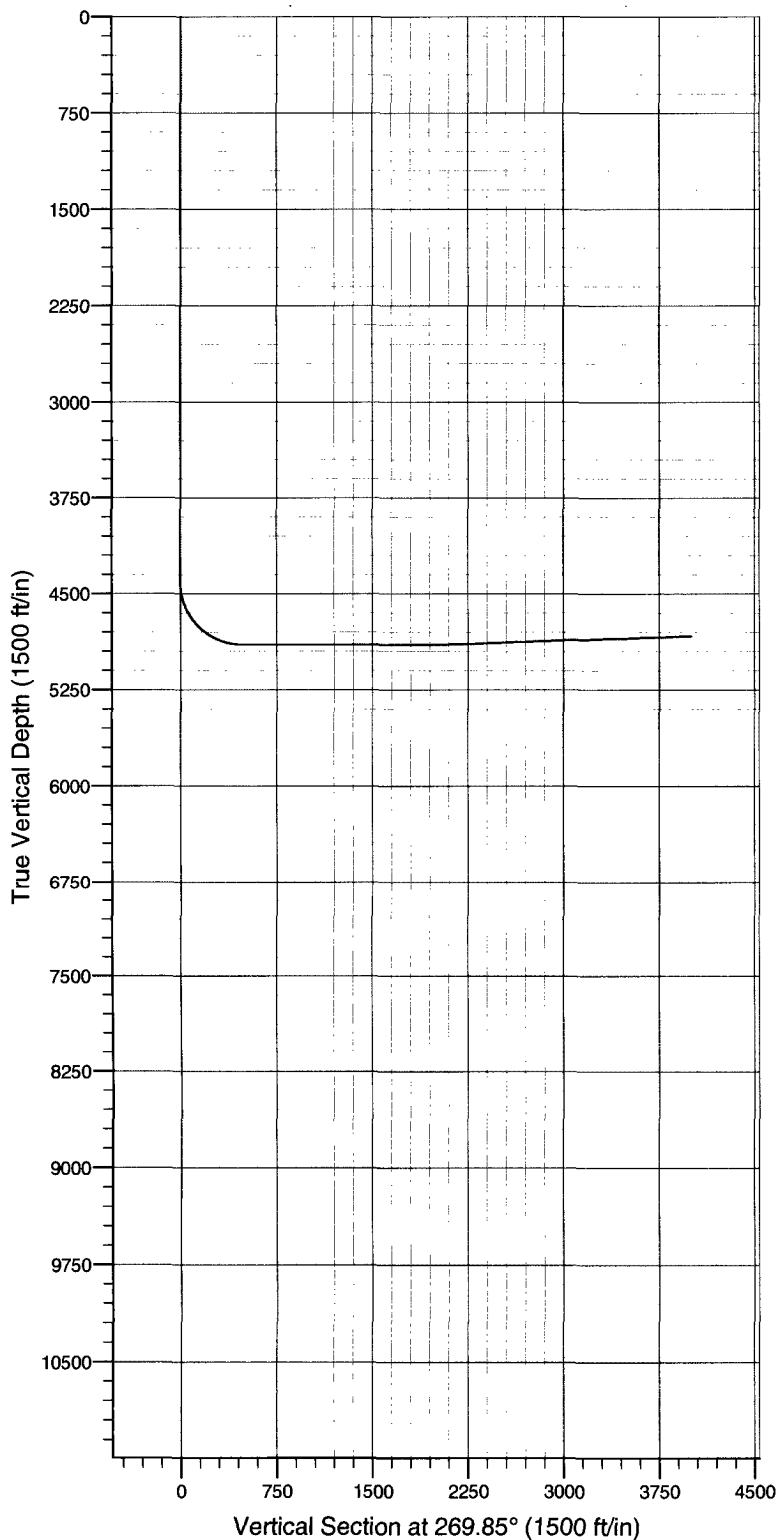
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL (Columbia #1)	0.00	0.00	4,831.00	-10.80	-4,000.40	682,825.20	418,106.40	32° 52' 36.781 N	104° 36' 0.288 W
- plan hits target									
- Point									

WELL DETAILS: Columbia 33 Fee #1H

+N/-S	+E/-W	Northing	Ground Level:	3714.00		
0.00	0.00	682836.00	Easting	422106.80	Latitude	Longitude
					32° 52' 36.986 N	104° 35' 13.380 W
						Slot

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4418.00	0.00	0.00	4418.00	0.00	0.00	0.00	0.00	0.00	
5175.12	90.00	269.84	4900.00	-1.35	-482.00	11.89	269.84	482.00	
6693.12	90.00	269.84	4900.00	-5.59	-1999.99	0.00	0.00	2000.00	
6760.10	92.01	269.85	4898.83	-5.77	-2066.95	3.00	0.31	2066.96	
8694.44	92.01	269.85	4831.01	-10.80	-4000.09	0.00	0.00	4000.11	
8694.74	92.00	269.85	4831.00	-10.80	-4000.40	3.00	-174.90	4000.41	BHL (Columbia #1)



Permit Information:

ORIGINAL

Well Name: Columbia 33 Fee #1H

Location:

SL 1880' FSL & 660' FEL, Section 33, T-16-S, R-24-E, Eddy Co., N.M.

BHL 1880' FSL & 660' FWL, Section 33, T-16-S, R-24-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	900'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,834'	7-7/8"	4 1/2"	11.6/ 13.5 #	P-110	Surface

Cement Program:

Depth	No. Sacks	Slurries:
900'	150	Lead: Premium Plus + 2% CaCl ₂ + 3% Econolite + 1/4 pps Flocele
	175	Tail: Premium Plus + 2% CaCl ₂ + 1/4 pps Flocele
8,834'	500	Lead: Interfill C + 1/4 pps Flocele
	400	Tail: Premium Cement + 100% Acid Soluble Additive + 0.6% Halad®-344 + 0.8% Econolite + 0.2% HR-55

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 900'	Fresh - Gel	8.6-8.8	28-34	N/c
900' - 4,600'	Cut Brine	8.8-9.2	28-34	N/c
4,600' - 5,400'	Cut Brine	8.8-9.2	28-34	10-15
4,400' - 8,834'	Polymer (Lateral)	9.0-9.4	40-45	10-20