

DATE IN 10-5-09	SUSPENSE	ENGINEER Brooks	LOGGED IN 10-5-09	TYPE	PTG-W APP NO. 0927833211
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



C06
MCFed # 33
5846-A

ADMINISTRATIVE APPLICATION CHECKLIST 30-025-39001

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
 [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD
 Check One Only for [B] or [C]
 [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
 [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
 [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☐ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

- [4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Phyllis Edwards

Print or Type Name

Signature

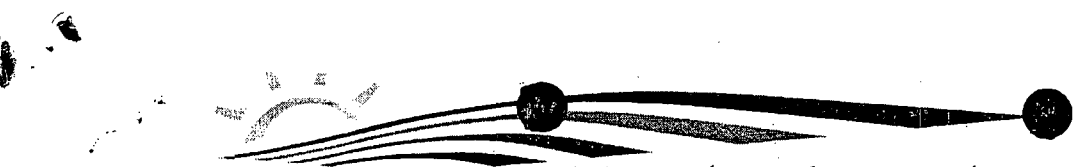
Reg. Analyst

Title

10/1/02

Date

PEdwards@conchoresources.com
e-mail Address



New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division



June 10, 2008
Administrative Order NSL-5846

COG Operating, LLC
Attn: **Ms. Phyllis Edwards**
550 W. Texas Av, Suite 1300
Midland, TX 79701

Dear Ms. Phyllis Edwards

COG's NSL Application: MC Federal Well No. 33

1160' FSL, 1430' FEL, Unit O
Section 21 T17S, R32E, NMPM, Lea County, New Mexico
Maljamar Yeso West Oil Pool (44500)

Reference is made to the following:

- (a) your application (*administrative application reference No. pKVR0813030345*) for a non-standard well location for the subject well that was submitted to the New Mexico Oil Conservation Division ("Division") in Santa Fe, New Mexico on May 8, 2008, and
- (b) the Division's records pertinent to this request.

COG Operating, LLC (COG) has requested authority to drill and complete its MC Federal Well No. 33 at an unorthodox Maljamar; Yeso West oil well location, 1160 feet from the South line and 1430 feet from the East line (Unit O) of Section 21, Township 17 South Range 32 East, N.M.P.M., in Lea County, New Mexico. The SW/4 SE/4 of Section 21 will be dedicated to this well in order to form a standard 40-acre oil spacing unit in the Maljamar; Yeso West Pool (44500). The pool is governed by statewide Rule 104.B (1), which provides for 40-acre units, with well located at least 330 feet from a unit outer boundary. The requested location is less than 330 feet from the unit boundary due to pipeline constrictions.



Administrative Application: NSL-4846
COG Operating, LLC
June 10, 2008
Page 2 of 2

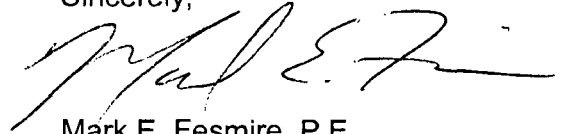
Your application has been duly filed under the provisions of Division Rules 104.F and 1210.A (2)

It is also understood that notice of this application to offsetting operators or owners is unnecessary because COG owns 100% of the working interest in the proposed unit and in the offsetting units towards which this location encroaches.

Pursuant to the authority granted under the provisions of Division Rule 104.F(2), the above-described unorthodox location is hereby approved.

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark E. Fesmire', is written over a horizontal line.

Mark E. Fesmire, P.E.
Division Director

MEF/tw

cc: New Mexico Oil Conservation Division – Hobbs
United States Bureau of Land Management - Carlsbad

District I
1825 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-39001	Pool Code 44500	Pool Name Maljamar; Yeso, West
Property Code 302519	Property Name MC FEDERAL	Well Number 33
OGRO No. 229137	Operator Name COG OPERATING LLC.	Deviation 4029.4'

Surface Location

UL or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
0	21	17 SOUTH	32 EAST, N.M.P.M.		1180'	SOUTH	1430'	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
J	21	17 SOUTH	32 EAST, N.M.P.M.		1664'	SOUTH	1662'	EAST	LEA

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <u>Y. Carrillo</u> 10/01/09 Signature Date Kanicia Carrillo Printed Name
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes or other surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge. <u>15079</u> Date of Survey <u>15079</u> Signature and Seal of Professional Surveyor <u>6/14/2008</u> Certificate Number 15079

WO# 080311WL-e (Rev. A) (KA)

Brooks, David K., EMNRD

From: Phyllis Edwards [PEdwards@conchoresources.com]
Sent: Thursday, October 01, 2009 2:43 PM
To: Brooks, David K., EMNRD
Cc: Robyn Odom
Subject: Request to Amend NSL 5846 for the MC Federal #33
Attachments: MC Federal #33 - Final Survey Report.pdf; M C Federal 33 permit & plat.pdf; 133.pdf

Dear Mr. Brooks,

COG respectfully requests permission to amend NSL 5846 to show the SHL and BHL for the M C Federal 33. COG filed the NSL before we made the decision to drill directionally. Since the Yeso Penetration Point turned out to be non-standard, COG Operating LLC is making this request.

2nd attachment is the Administrative Order NSL 5946 for the vertical M C Federal 33 at 1160 FSL & 1430 FEL, Section 21, T17S, R32E, UL O.

COG drilled this well **directionally** at:
SHL 1160 FSL & 1430 FEL, Section 21, T17S, R32E, UL O
BHL 1664 FSL & 1662 FEL, Section 21, T17S, R32E, UL J

The 1st attachment is the Directional Report which shows that the Yeso Penetration Point is non-standard.

3rd attachment is an updated C-102 listing the SHL and BHL and also shows the Yeso Penetration Point: 1555 FSL & 1595 FEL, Section 21, T17S, R32E, UL J

If you have questions, please contact:

kcastillo@conchoresources.com

Kanicia Castillo

Regulatory Analyst
COG OPERATING LLC
550 W. Texas Avenue, Suite 100
Midland, Texas 79701
p.432.685.4332
f.432.685.4396

Thanks so much for your help !!!

Phyllis Edwards

Regulatory Analyst
COG OPERATING LLC
550 W. Texas Avenue, Suite 100
Midland, TX 79701
432.683.7443
432-683.7441



This inbound email has been scanned for malicious software and transmitted safely to you using Webroot Email Security.



COG Operating LLC

Lea County, NM (NAD27 NME)

MC Federal #33

MC Federal #33

OH

Design: Actual

Standard Survey Report

23 July, 2009



Scientific Drilling



Scientific Drilling
Survey Report



Company: COG Operating LLC
Project: Lea County, NM (NAD27 NME)
Site: MC Federal #33
Well: MC Federal #33
Wellbore: OH
Design: Actual

Local Co-ordinate Reference: Site MC Federal #33
TVD Reference: Ground Elev. @ 4029.40ft (Basic #38)
MD Reference: Ground Elev. @ 4029.40ft (Basic #38)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project: Lea County, NM (NAD27 NME)
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: MC Federal #33

Site Position: Northing: 661,015.20 ft Latitude: 32° 48' 57.375 N
From: Map Easting: 673,994.00 ft Longitude: 103° 46' 1.143 W
Position Uncertainty: 0.00 ft Slot Radius: 0 " Grid Convergence: 0.31 °

Well: MC Federal #33

Well Position: +N/-S 0.00 ft Northing: 661,015.20 ft Latitude: 32° 48' 57.375 N
+E/-W 0.00 ft Easting: 673,994.00 ft Longitude: 103° 46' 1.143 W
Position Uncertainty: 0.00 ft Wellhead Elevation: ft Ground Level: 4,029.40 ft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/07/23	7.94	60.77	49,166

Design: Actual

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	334.97

Survey Program Date: 2009/07/23

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	2,061.21	Gyro Survey (OH)	Keeper	Standard Wireline Keeper ver 1.0.2
2,136.00	7,138.00	MWD Survey (OH)	MWD	MWD - Standard

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	0.12	36.26	100.00	0.08	0.06	0.05	0.12	0.12	0.00
200.00	0.09	141.12	200.00	0.11	0.17	0.02	0.17	-0.03	104.86
300.00	0.12	235.99	300.00	-0.01	0.14	-0.07	0.16	0.03	94.87
400.00	0.21	357.65	400.00	0.11	0.04	0.08	0.29	0.09	121.66
500.00	0.08	168.09	500.00	0.23	0.05	0.19	0.29	-0.13	170.44
600.00	0.17	349.22	600.00	0.30	0.03	0.26	0.25	0.09	-178.87
700.00	0.24	2.08	700.00	0.66	0.01	0.59	0.08	0.07	12.86
800.00	0.26	351.21	800.00	1.09	-0.01	1.00	0.05	0.02	-10.87
900.00	0.34	332.71	900.00	1.58	-0.18	1.51	0.12	0.08	-18.50



Scientific Drilling
Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Site MC Federal #33
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	Ground Elev. @ 4029.40ft (Basic #38)
Site:	MC Federal #33	MD Reference:	Ground Elev. @ 4029.40ft (Basic #38)
Well:	MC Federal #33	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

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)
1,000.00	0.35	359.62	999.99	2.15	-0.32	2.08	0.16	0.01	26.91
1,100.00	0.19	31.30	1,099.99	2.60	-0.24	2.45	0.21	-0.16	31.68
1,200.00	0.02	153.95	1,199.99	2.72	-0.14	2.53	0.20	-0.17	122.65
1,300.00	0.29	101.20	1,299.99	2.66	0.11	2.36	0.28	0.27	-52.75
1,400.00	0.23	182.75	1,399.99	2.41	0.35	2.03	0.34	-0.06	81.55
1,500.00	0.50	110.67	1,499.99	2.05	0.75	1.54	0.48	0.27	-72.08
1,600.00	0.90	114.53	1,599.98	1.57	1.87	0.63	0.40	0.40	3.86
1,700.00	1.07	86.37	1,699.97	1.31	3.52	-0.30	0.51	0.17	-28.16
1,800.00	1.53	78.45	1,799.94	1.63	5.76	-0.96	0.49	0.46	-7.92
1,900.00	1.83	65.83	1,899.90	2.55	8.52	-1.29	0.47	0.30	-12.62
2,000.00	1.97	64.54	1,999.84	3.95	11.53	-1.30	0.15	0.14	-1.29
2,061.21	1.95	62.40	2,061.02	4.88	13.41	-1.25	0.12	-0.03	-3.50
Gyro Tie-in									
2,136.00	1.72	53.95	2,135.77	6.13	15.44	-0.98	0.47	-0.31	-11.30
2,231.00	3.06	24.32	2,230.69	9.28	17.64	0.95	1.87	1.41	-31.19
2,327.00	4.54	13.82	2,326.48	15.31	19.60	5.58	1.70	1.54	-10.94
2,422.00	6.32	357.43	2,421.05	24.18	20.26	13.34	2.47	1.87	-17.25
2,517.00	8.22	341.02	2,515.29	35.83	17.82	24.93	2.94	2.00	-17.27
2,612.00	8.71	332.29	2,609.26	48.62	12.27	38.87	1.45	0.52	-9.19
2,707.00	8.60	333.45	2,703.18	61.34	5.75	53.15	0.22	-0.12	1.22
2,803.00	8.99	331.60	2,798.05	74.36	-1.03	67.81	0.50	0.41	-1.93
2,898.00	9.49	333.18	2,891.82	87.88	-8.09	83.05	0.59	0.53	1.66
2,993.00	9.13	328.18	2,985.57	101.27	-15.60	98.36	0.93	-0.38	-5.26
3,088.00	8.74	331.01	3,079.42	113.99	-23.07	113.05	0.62	-0.41	2.98
3,183.00	9.38	332.86	3,173.23	127.20	-30.10	127.99	0.74	0.67	1.95
3,278.00	9.89	330.30	3,266.89	141.17	-37.68	143.85	0.70	0.54	-2.69
3,374.00	9.44	330.24	3,361.53	155.17	-45.67	159.92	0.47	-0.47	-0.06
3,469.00	9.07	331.74	3,455.29	168.53	-53.08	175.16	0.46	-0.39	1.58
3,564.00	10.13	331.69	3,548.96	182.48	-60.59	190.97	1.12	1.12	-0.05
3,659.00	10.02	331.93	3,642.50	197.12	-68.44	207.57	0.12	-0.12	0.25
3,754.00	9.81	331.94	3,736.08	211.56	-76.14	223.90	0.22	-0.22	0.01
3,849.00	9.82	332.40	3,829.69	225.88	-83.70	240.08	0.08	0.01	0.48
3,945.00	9.80	332.70	3,924.28	240.39	-91.24	256.42	0.06	-0.02	0.31
4,040.00	9.25	327.62	4,017.97	254.03	-99.03	272.07	1.06	-0.58	-5.35
4,135.00	8.87	327.77	4,111.79	266.67	-107.03	286.91	0.40	-0.40	0.16
4,230.00	8.58	329.81	4,205.69	278.99	-114.50	301.23	0.45	-0.31	2.15
4,325.00	9.65	333.00	4,299.49	292.21	-121.68	316.25	1.25	1.13	3.36
4,420.00	9.47	333.55	4,393.17	306.30	-128.77	332.02	0.21	-0.19	0.58
4,516.00	8.64	327.14	4,487.97	319.43	-136.20	347.06	1.36	-0.86	-6.68
4,611.00	8.55	326.11	4,581.91	331.29	-144.01	361.11	0.19	-0.09	-1.08
4,706.00	9.02	330.68	4,675.79	343.64	-151.60	375.51	0.89	0.49	4.81
4,801.00	9.04	330.42	4,769.62	356.63	-158.93	390.38	0.05	0.02	-0.27
4,896.00	9.07	329.70	4,863.43	369.58	-166.39	405.27	0.12	0.03	-0.76



Scientific Drilling
Survey Report



Company: COG Operating LLC
Project: Lea County, NM (NAD27 NME)
Site: MC Federal #33
Well: MC Federal #33
Wellbore: OH
Design: Actual

Local Co-ordinate Reference: Site MC Federal #33
TVD Reference: Ground Elev. @ 4029.40ft (Basic #38)
MD Reference: Ground Elev. @ 4029.40ft (Basic #38)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
4,991.00	8.33	334.72	4,957.34	382.27	-173.11	419.61	1.12	-0.78	5.28
5,086.00	7.02	333.47	5,051.49	393.69	-178.64	432.30	1.39	-1.38	-1.32
5,182.00	4.70	330.70	5,146.98	402.37	-183.18	442.08	2.43	-2.42	-2.89
5,278.00	2.95	342.95	5,242.76	408.16	-185.83	448.45	2.00	-1.82	12.76
5,372.00	3.95	340.73	5,336.59	413.53	-187.61	454.07	1.07	1.06	-2.36
5,435.00	3.82	340.81	5,399.45	417.56	-189.02	458.32	0.21	-0.21	0.13
5,498.00	3.24	324.70	5,462.33	421.00	-190.74	462.16	1.81	-0.92	-25.57
5,595.00	3.67	326.78	5,559.15	425.83	-194.02	467.93	0.46	0.44	2.14
5,690.00	3.56	328.44	5,653.96	430.89	-197.23	473.87	0.16	-0.12	1.75
5,785.00	3.58	327.88	5,748.78	435.91	-200.35	479.74	0.04	0.02	-0.59
5,880.00	3.81	327.95	5,843.58	441.10	-203.60	485.82	0.24	0.24	0.07
5,975.00	2.75	336.10	5,938.43	445.86	-206.20	491.23	1.22	-1.12	8.58
6,070.00	3.38	327.67	6,033.29	450.31	-208.62	496.28	0.81	0.66	-8.87
6,165.00	3.55	326.48	6,128.12	455.13	-211.74	501.97	0.19	0.18	-1.25
6,261.00	3.14	337.03	6,223.95	460.02	-214.41	507.54	0.77	-0.43	10.99
6,354.00	3.07	337.78	6,316.82	464.68	-216.35	512.57	0.09	-0.08	0.81
6,449.00	3.19	337.67	6,411.67	469.48	-218.31	517.75	0.13	0.13	-0.12
6,545.00	3.19	339.70	6,507.53	474.45	-220.26	523.08	0.12	0.00	2.11
6,670.00	3.37	339.57	6,632.32	481.16	-222.74	530.21	0.14	0.14	-0.10
6,733.00	3.23	340.19	6,695.22	484.56	-223.99	533.82	0.23	-0.22	0.98
6,828.00	2.90	333.93	6,790.08	489.24	-225.96	538.89	0.49	-0.35	-6.59
6,923.00	2.85	336.94	6,884.96	493.57	-227.94	543.65	0.17	-0.05	3.17
7,018.00	2.94	337.50	6,979.84	497.99	-229.79	548.45	0.10	0.09	0.59
7,091.00	2.95	335.25	7,052.74	501.43	-231.30	552.20	0.16	0.01	-3.08
MWD Survey									
7,138.00	2.95	335.25	7,099.68	503.63	-232.31	554.62	0.00	0.00	0.00
Projection to Bit									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N-S (ft)	+E-W (ft)	
2,061.21	2,061.02	4.88	13.41	Gyro Tie-in
7,091.00	7,052.74	501.43	-231.30	MWD Survey
7,138.00	7,099.68	503.63	-232.31	Projection to Bit

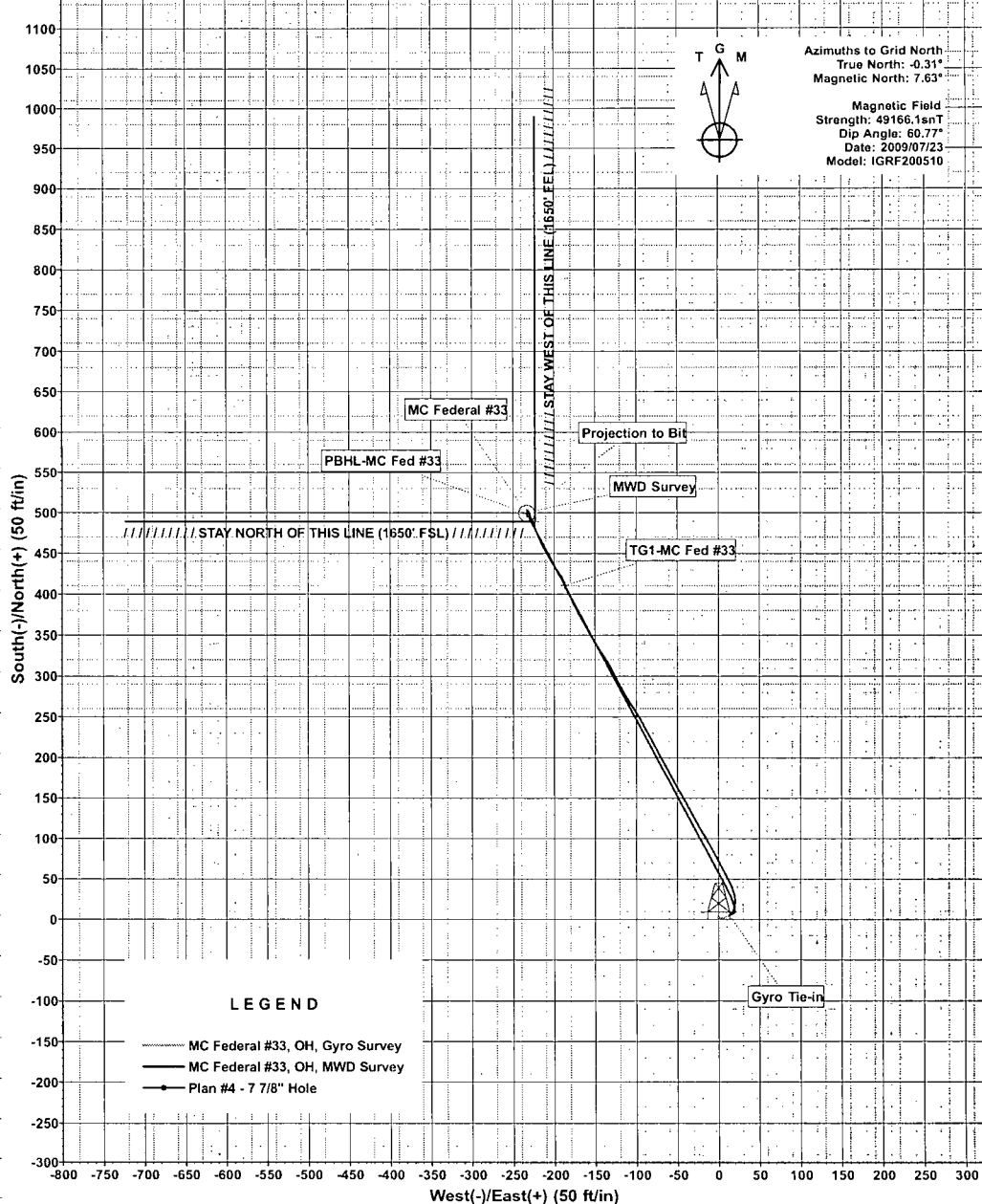
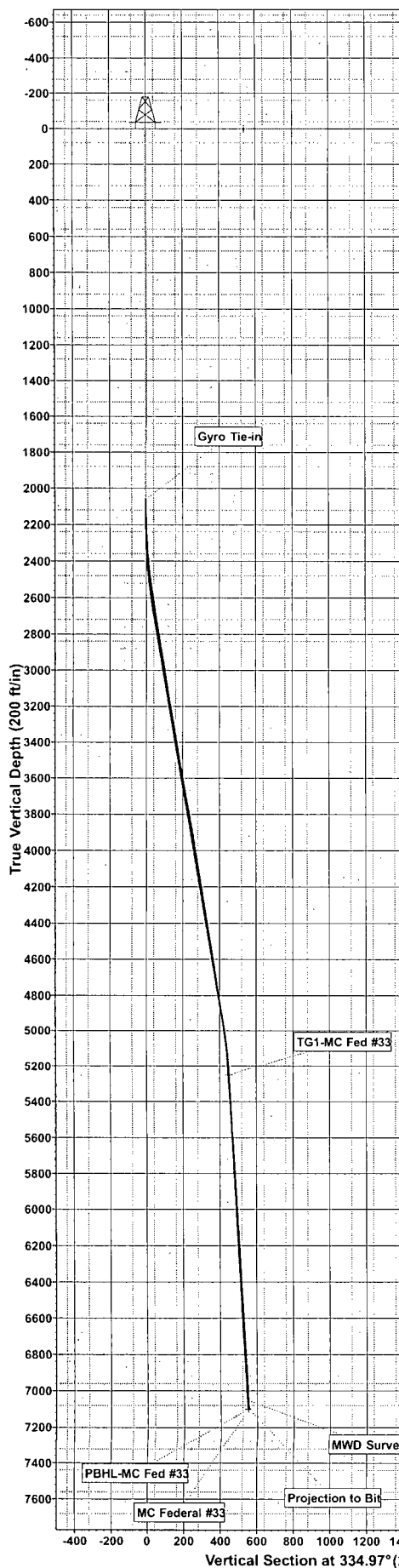
Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling for COG Operating LLC
Site: Lea County, NM (NAD27 NME)
Well: MC Federal #33
Wellbore: OH
Design: Plan #4 - 7 7/8" Hole



Scientific Drilling



Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.63°

Magnetic Field
Strength: 49166.1nT
Dip Angle: 60.77°
Date: 2009/07/23
Model: IGRF200510

LEGEND

- MC Federal #33, OH, Gyro Survey
- MC Federal #33, OH, MWD Survey
- Plan #4 - 7 7/8" Hole

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
East HL-MC Fed #33	0.00	489.40	-223.20	661504.60	673770.80	32°49' 2.230 N	103°46' 3.727 W	Rectangle (Sides: L500.00 W0.00)
South HL-MC Fed #33	0.00	489.40	-223.20	661504.60	673770.80	32°49' 2.230 N	103°46' 3.727 W	Rectangle (Sides: L0.00 W500.00)
TG1-MC Fed #33	5250.00	410.67	-186.81	661425.87	673807.19	32°49' 1.449 N	103°46' 3.306 W	Point
PBHL-MC Fed #33	7100.00	499.40	-233.20	661514.60	673760.80	32°49' 2.329 N	103°46' 3.844 W	Circle (Radius: 10 .00)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSeet	Target
1	2061.21	1.95	62.40	2061.02	4.88	13.41	0.00	0.00	-1.25	
2	2200.00	1.95	62.40	2199.73	7.07	17.59	0.00	0.00	-1.04	
3	2686.22	9.52	332.08	2683.62	46.52	6.07	2.00	-101.77	39.58	
4	4965.08	9.52	332.08	4931.11	379.50	-170.34	0.00	0.00	415.93	
5	5286.08	3.10	332.40	5250.00	410.67	-186.81	2.00	179.85	451.14	TG1-MC Fed #33
6	7138.79	3.10	332.40	7100.00	499.40	-233.20	0.00	0.00	551.16	PBHL-MC Fed #33

WELL DETAILS: MC Federal #33

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	661015.20	673994.00	32°48' 57.375 N	103°46' 1.143 W	

PROJECT DETAILS: Lea County, NM (NAD27 NME)

Plan: Plan #4 - 7 7/8" Hole (MC Federal #33/OH)

Geodetic System: US State Plane 1927 (Exact solution)	Created By: Julio Pina	Date: 23-Jul-09
Datum: NAD 1927 (NADCON CONUS)		
Ellipsoid: Clarke 1866	Checked: _____	Date: _____
Zone: New Mexico East 3001	Reviewed: _____	Date: _____
System Datum: Mean Sea Level	Approved: _____	Date: _____

Brooks, David K., EMNRD

From: Brooks, David K., EMNRD
Sent: Tuesday, October 13, 2009 9:51 AM
To: 'Phyllis Edwards'
Subject: COG Operating - MC Fed #33; NSL Application

Dear Ms. Edwards

This application was issued 10/5/09 as NSL-5846-A.

The signed original will be posted on our website.

Sincerely
David K. Brooks