

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

RECEIVED

JAN 21 2010

NMOCD ARTESIA

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.***SUBMIT IN TRIPLICATE- Other instructions on reverse side.**1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG Operating LLC3a. Address
550 W. Texas Ave., Suite 1300 Midland, TX 797013b. Phone No. (include area code)
432-685-43404. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1845 FNL & 811 FEL, Section 11, T17S, R30E, UL H

5. Lease Serial No

LC 029338E

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
Harvard Federal #159. API Well No.
30-015-3730710. Field and Pool, or Exploratory Area
Loco Hills; Glorieta-Yeso 9671811. County or Parish, State
Eddy County, NM

12. CHECK 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	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other <u>Move location</u>
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 recomplete 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall 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 respectfully requests permission to move this location to:

SHL: 1980 FNL & 565 FEL, Section 11, T17S, R30E, UL H

BHL: 1650 FNL & 990 FEL, Section 11, T17S, R30E, UL H

This request is made due to an electrical line in the way of the original location.

An amended plat and directional plan are attached for your review.

With the new depth the ABO could be penetrated. Operator is not to downhole commingle the ABO and Yeso Formations without approval.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Phyllis A. Edwards

Title Regulatory Analyst

Signature

Phyllis A. Edwards

Date

12/14/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USEApproved by owned often

Title

Date

JAN 15 2010

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

CARLSBAD FIELD OFFICE

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)

72

DISTRICT I
1625 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
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
11885 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-10
Revised October 12, 2008
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37307	Pool Code 96718	Pool Name LOCO HILLS ; GLORIETA YESO
Property Code 302440	Property Name HARVARD FEDERAL	Well Number 15
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3742'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	11	17-S	30-E		1980	NORTH	565	EAST	EDDY

Bottom Hole Location If Different From Surface

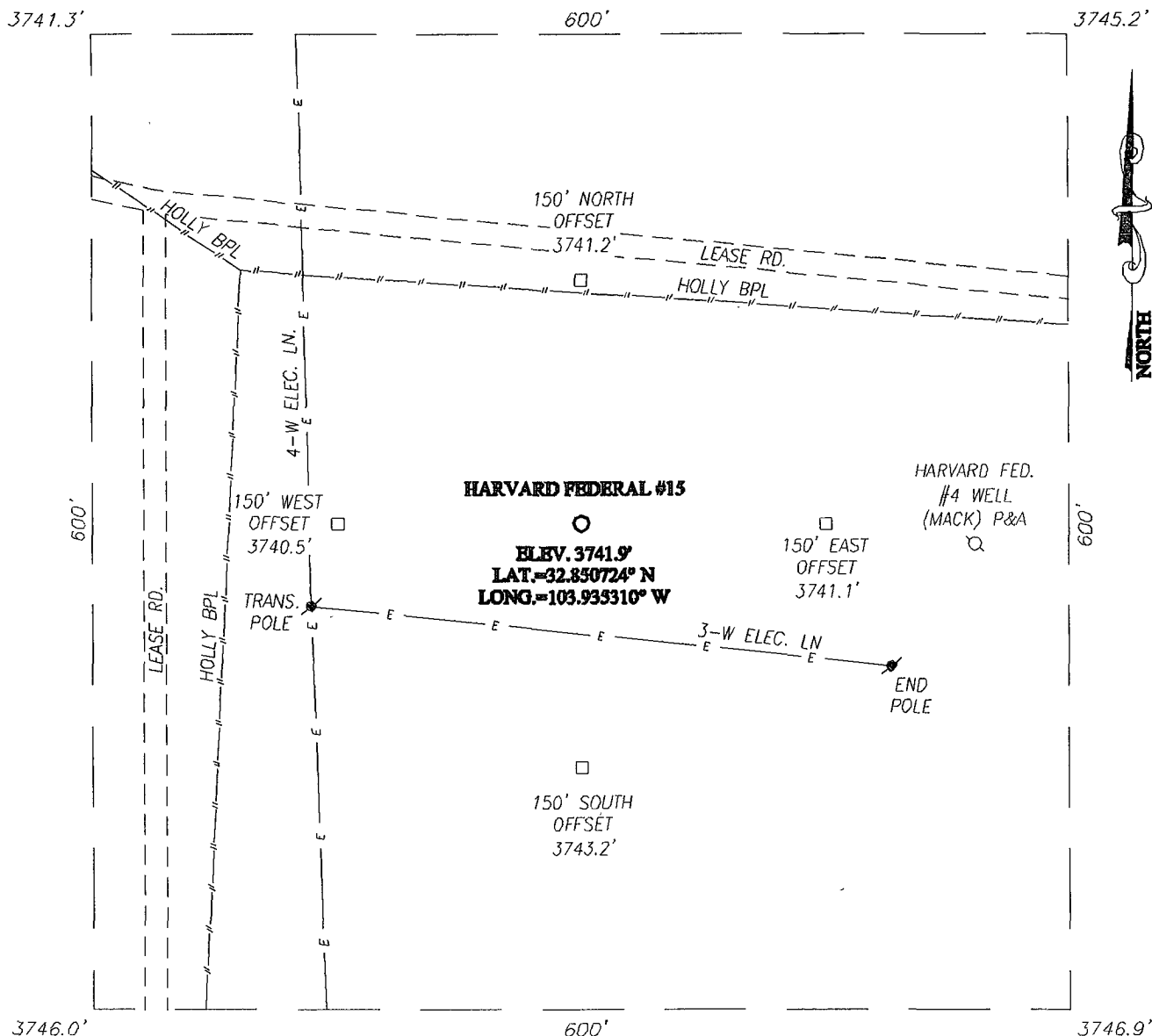
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	11	17-S	30-E		1650	NORTH	990	EAST	EDDY

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

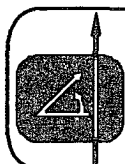
DETAIL GRID. AZ. -307°32'20" HORZ. DIST. -537.2' SEE DETAIL GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=673435.0 N X=622232.9 E LAT.=32.850724° N LONG.=103.935310° W BOTTOM HOLE LOCATION Y=673762.2 N X=621807.0 E	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. 12/9/08 Signature Date PHYLIS A. EDWARDS Printed Name REGULATORY ANALYST SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. RONALD J. EIDSON NOVEMBER 24, 2009 Date Surveyed Signature & Seal of Professional Surveyor RECEIVED 12-09-09 1111 Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239
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SECTION 11, TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

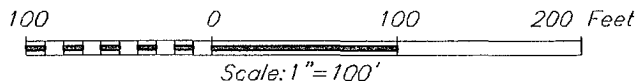
FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #220 (SQUARE LAKE), GO NORTH ON CO. RD. #220 APPROX. 2.5 MILES. TURN LEFT AND GO WEST APPROX. 0.6 MILES. THIS LOCATION STAKE IS APPROX. 150 FEET SOUTH OF LEASE RD.



PROVIDING SURVEYING SERVICES
 SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO
 HOBBS, N.M. 88240
 (575) 393-3117

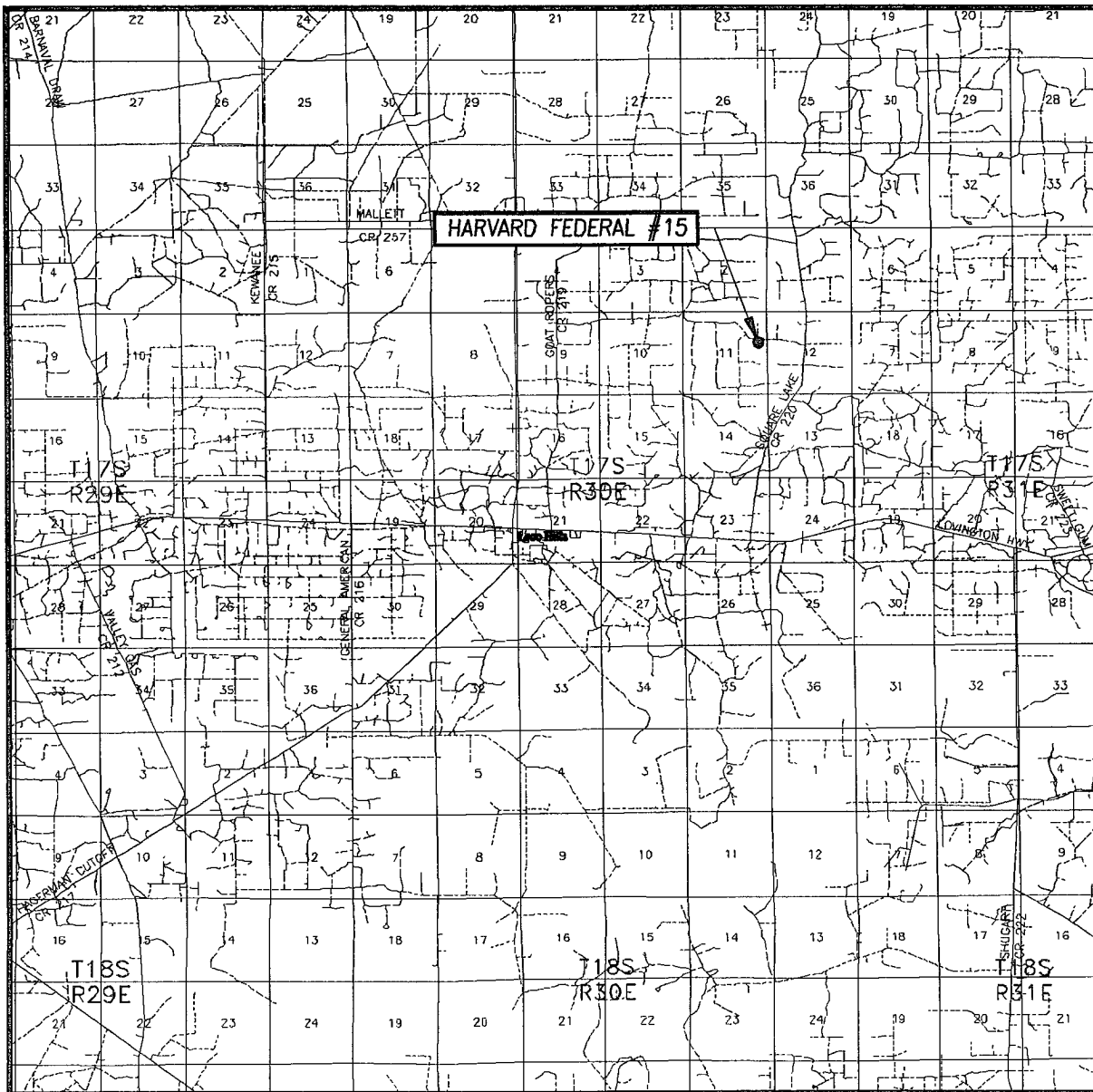


COG OPERATING, LLC

HARVARD FEDERAL #15 WELL
 LOCATED 1980 FEET FROM THE NORTH LINE
 AND 565 FEET FROM THE EAST LINE OF SECTION 11,
 TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 11/24/09	Sheet 1 of 1 Sheets
W.O. Number: 09.11.1111	Dr By: DSS
Date: 12/02/09	09111111
	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC 11 TWP. 17-S RGE. 30-E

SURVEY N.M.P.M.

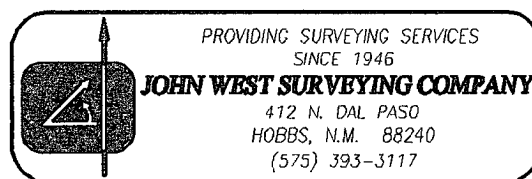
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1980' FNL & 565' FEL

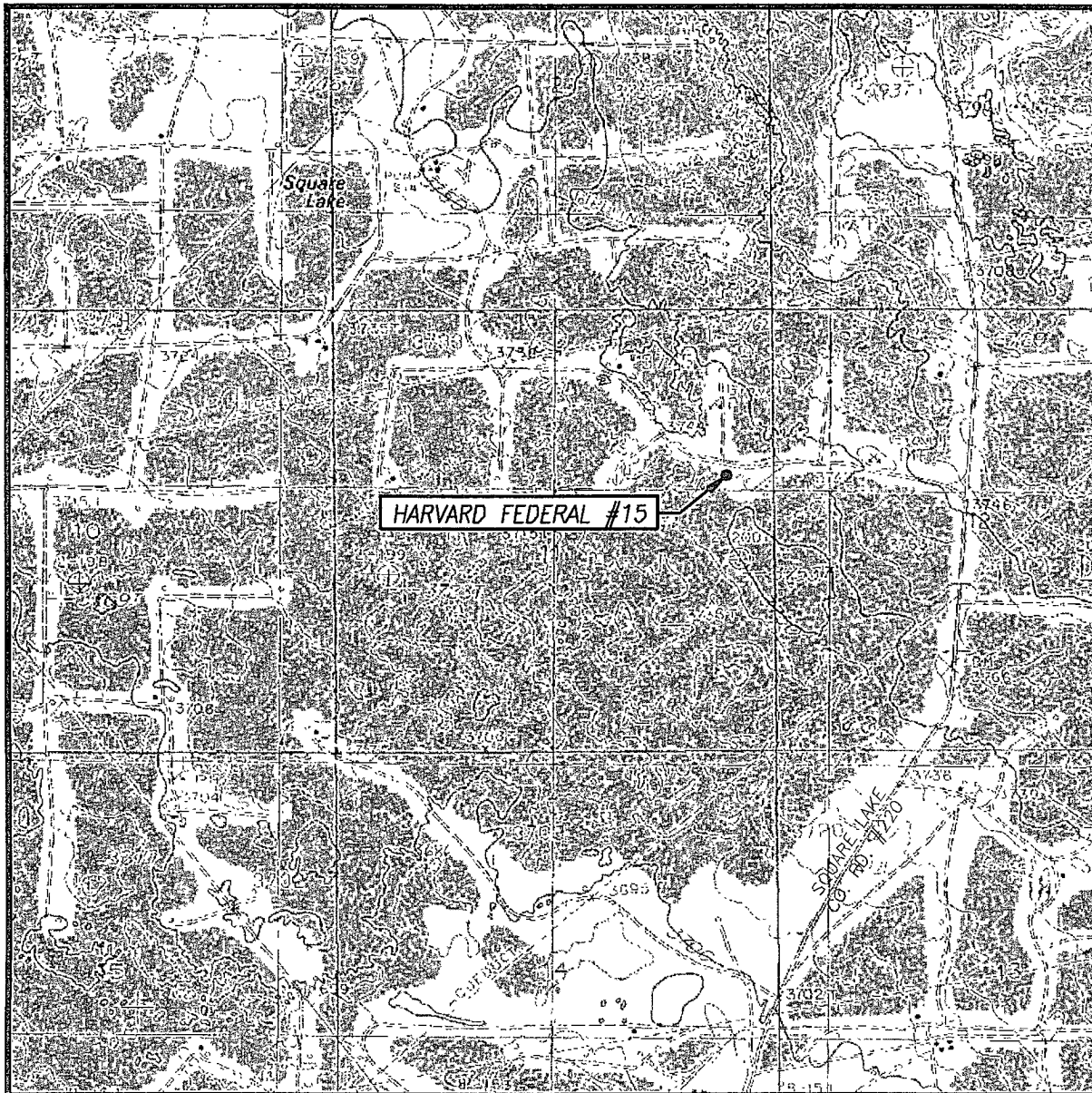
ELEVATION 3742'

OPERATOR COG OPERATING, LLC

LEASE HARVARD FEDERAL



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
LOCO HILLS, N.M. - 10'

SEC. 11 TWP. 17-S RGE. 30-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1980' FNL & 565' FEL

ELEVATION 3742'

OPERATOR COG OPERATING, LLC

LEASE HARVARD FEDERAL

U.S.G.S. TOPOGRAPHIC MAP
LOCO HILLS, N.M.



PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL. PASO
HOBBS, N.M. 88240
(575) 393-3117



COG Operating LLC

Eddy County, NM (NAN27 NME)

Harvard Federal #15

Harvard Federal #15

OH

Plan: Plan #1 - 7-7/8" Hole

SHL = 1980' FNL & 565' FEL

BHL = 1660' FNL & 940' FEL

Top of Paddock 4500' TVD = 1660' FNL & 940' FEL

Standard Planning Report

14 December, 2009



Scientific Drilling



Scientific Drilling
Planning Report



Database:	EDM 5000.1 Single-User.Db	Local Co-ordinate Reference:	Site Harvard Federal #15
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3742.00ft (Rig ?)
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3742.00ft (Rig ?)
Site:	Harvard Federal #15	North Reference:	Grid
Well:	Harvard Federal #15	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 - 7-7/8" Hole		

Project	Eddy County, NM (NAN27 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	Harvard Federal #15		
Site Position:		Northing:	673,435.00 ft
From:	Map	Easting:	622,232.90 ft
Position Uncertainty:	0 00 ft	Slot Radius:	0 "
		Latitude:	32° 51' 2 607 N
		Longitude:	103° 56' 7 114 W
		Grid Convergence:	0 22 °

Well	Harvard Federal #15		
Well Position	+N/-S	0 00 ft	Northing:
	+E/-W	0 00 ft	Easting:
Position Uncertainty	0 00 ft	Wellhead Elevation:	Ground Level:
			3,742.00 ft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	2009/12/14	7 97
			Dip Angle
			60 76
			Field Strength
			49,132

Design	Plan #1 - 7-7/8" Hole		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0 00	0 00	0.00
			Direction
			310 16

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00	0 00	
1,450 00	0 00	0 00	1,450 00	0 00	0 00	0 00	0 00	0 00	0 00	
1,851 40	8.03	310 16	1,850 09	18 11	-21 46	2 00	2 00	0 00	310 16	
4,288 54	8 03	310 16	4,263 35	237 61	-281 58	0 00	0 00	0 00	0 00	
4,526 42	3 27	310 16	4,500 00	252 71	-299 47	2 00	-2 00	0 00	-180 00	PP-HF #15
6,279 27	3 27	310.16	6,250 00	317 20	-375 90	0 00	0 00	0 00	0 00	PBHL-HF #15



Scientific Drilling
Planning Report



Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Site Harvard Federal #15
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3742.00ft (Rig ?)
Project:	Eddy County, NM (NAN27-NME)	MD Reference:	GL Elev @ 3742.00ft (Rig ?)
Site:	Harvard Federal #15	North Reference:	Grid
Well:	Harvard Federal #15	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1: 7-7/8" Hole		

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
North HL-HF #15 - East HL-HF #15									
1,350.00	0.00	0.00	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00
8-5/8" Casing									
1,450.00	0.00	0.00	1,450.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 2.00°/100'									
1,500.00	1.00	310.16	1,500.00	0.28	-0.33	0.44	2.00	2.00	0.00
1,600.00	3.00	310.16	1,599.93	2.53	-3.00	3.93	2.00	2.00	0.00
1,700.00	5.00	310.16	1,699.68	7.03	-8.33	10.90	2.00	2.00	0.00
1,800.00	7.00	310.16	1,799.13	13.77	-16.32	21.35	2.00	2.00	0.00
1,851.40	8.03	310.16	1,850.09	18.11	-21.46	28.08	2.00	2.00	0.00
EOC hold 8.03°									
1,900.00	8.03	310.16	1,898.21	22.48	-26.64	34.86	0.00	0.00	0.00
2,000.00	8.03	310.16	1,997.23	31.49	-37.32	48.83	0.00	0.00	0.00
2,100.00	8.03	310.16	2,096.25	40.50	-47.99	62.79	0.00	0.00	0.00
2,200.00	8.03	310.16	2,195.27	49.50	-58.66	76.76	0.00	0.00	0.00
2,300.00	8.03	310.16	2,294.29	58.51	-69.34	90.73	0.00	0.00	0.00
2,400.00	8.03	310.16	2,393.31	67.52	-80.01	104.69	0.00	0.00	0.00
2,500.00	8.03	310.16	2,492.33	76.52	-90.68	118.66	0.00	0.00	0.00
2,600.00	8.03	310.16	2,591.35	85.53	-101.36	132.62	0.00	0.00	0.00
2,700.00	8.03	310.16	2,690.37	94.54	-112.03	146.59	0.00	0.00	0.00
2,800.00	8.03	310.16	2,789.39	103.54	-122.70	160.55	0.00	0.00	0.00
2,900.00	8.03	310.16	2,888.41	112.55	-133.38	174.52	0.00	0.00	0.00
3,000.00	8.03	310.16	2,987.43	121.56	-144.05	188.49	0.00	0.00	0.00
3,100.00	8.03	310.16	3,086.45	130.56	-154.72	202.45	0.00	0.00	0.00
3,200.00	8.03	310.16	3,185.47	139.57	-165.40	216.42	0.00	0.00	0.00
3,300.00	8.03	310.16	3,284.49	148.58	-176.07	230.38	0.00	0.00	0.00
3,400.00	8.03	310.16	3,383.51	157.58	-186.75	244.35	0.00	0.00	0.00
3,500.00	8.03	310.16	3,482.53	166.59	-197.42	258.31	0.00	0.00	0.00
3,600.00	8.03	310.16	3,581.55	175.60	-208.09	272.28	0.00	0.00	0.00
3,700.00	8.03	310.16	3,680.57	184.60	-218.77	286.25	0.00	0.00	0.00
3,800.00	8.03	310.16	3,779.59	193.61	-229.44	300.21	0.00	0.00	0.00
3,900.00	8.03	310.16	3,878.61	202.62	-240.11	314.18	0.00	0.00	0.00
4,000.00	8.03	310.16	3,977.63	211.62	-250.79	328.14	0.00	0.00	0.00
4,100.00	8.03	310.16	4,076.65	220.63	-261.46	342.11	0.00	0.00	0.00
4,200.00	8.03	310.16	4,175.67	229.64	-272.13	356.07	0.00	0.00	0.00
4,288.54	8.03	310.16	4,263.35	237.61	-281.58	368.44	0.00	0.00	0.00
Start DLS 2.00°/100'									
4,300.00	7.80	310.16	4,274.69	238.63	-282.79	370.02	2.00	-2.00	0.00
4,400.00	5.80	310.16	4,373.99	246.26	-291.84	381.86	2.00	-2.00	0.00
4,500.00	3.80	310.16	4,473.63	251.66	-298.23	390.22	2.00	-2.00	0.00
4,526.42	3.27	310.16	4,500.00	252.71	-299.47	391.85	2.00	-2.00	0.00
EOC hold 3.27° - PP-HF #15									
4,600.00	3.27	310.16	4,573.46	255.42	-302.68	396.05	0.00	0.00	0.00
4,700.00	3.27	310.16	4,673.30	259.10	-307.04	401.75	0.00	0.00	0.00
4,800.00	3.27	310.16	4,773.13	262.77	-311.40	407.46	0.00	0.00	0.00
4,900.00	3.27	310.16	4,872.97	266.45	-315.76	413.16	0.00	0.00	0.00
5,000.00	3.27	310.16	4,972.81	270.13	-320.12	418.87	0.00	0.00	0.00
5,100.00	3.27	310.16	5,072.65	273.81	-324.48	424.57	0.00	0.00	0.00
5,200.00	3.27	310.16	5,172.48	277.49	-328.84	430.28	0.00	0.00	0.00
5,300.00	3.27	310.16	5,272.32	281.17	-333.20	435.98	0.00	0.00	0.00
5,400.00	3.27	310.16	5,372.16	284.85	-337.56	441.69	0.00	0.00	0.00
5,500.00	3.27	310.16	5,471.99	288.53	-341.92	447.39	0.00	0.00	0.00



Scientific Drilling
Planning Report



Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Site Harvard Federal #15
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3742.00ft (Rig ?)
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3742.00ft (Rig ?)
Site:	Harvard Federal #15	North Reference:	Grid
Well:	Harvard Federal #15	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 - 7-7/8" Hole		

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)
5,600.00	3 27	310 16	5,571.83	292.21	-346.28	453.10	0.00	0.00	0.00
5,700.00	3 27	310 16	5,671.67	295.89	-350.64	458.80	0.00	0.00	0.00
5,800.00	3 27	310.16	5,771.51	299.57	-355.00	464.51	0.00	0.00	0.00
5,900.00	3 27	310 16	5,871.34	303.25	-359.36	470.21	0.00	0.00	0.00
6,000.00	3.27	310 16	5,971.18	306.92	-363.72	475.92	0.00	0.00	0.00
6,100.00	3 27	310 16	6,071.02	310.60	-368.08	481.62	0.00	0.00	0.00
6,200.00	3 27	310.16	6,170.85	314.28	-372.44	487.33	0.00	0.00	0.00
6,279.27	3 27	310.16	6,250.00	317.20	-375.90	491.85	0.00	0.00	0.00

PBHL-HF #15

Design Targets

Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
North HL-HF #15		0.00	0.00	0.00	327.20	-425.90	673,762.20	621,807.00	32° 51' 5.861 N	103° 56' 12.093 W
- plan misses target center by 537.08ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)										
- Rectangle (sides W200.00 H0.00 D0.00)										
East HL-HF #15		0.00	0.00	0.00	327.20	-425.90	673,762.20	621,807.00	32° 51' 5.861 N	103° 56' 12.093 W
- plan misses target center by 537.08ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)										
- Rectangle (sides W0.00 H200.00 D0.00)										
PP-HF #15		0.00	0.00	4,500.00	252.71	-299.47	673,687.70	621,933.43	32° 51' 5.119 N	103° 56' 10.614 W
- plan hits target center										
- Point										
PBHL-HF #15		3 27	130 16	6,250.00	317.20	-375.90	673,752.20	621,857.00	32° 51' 5.760 N	103° 56' 11.507 W
- plan hits target center										
- Circle (radius 50.00)										

Casing Points

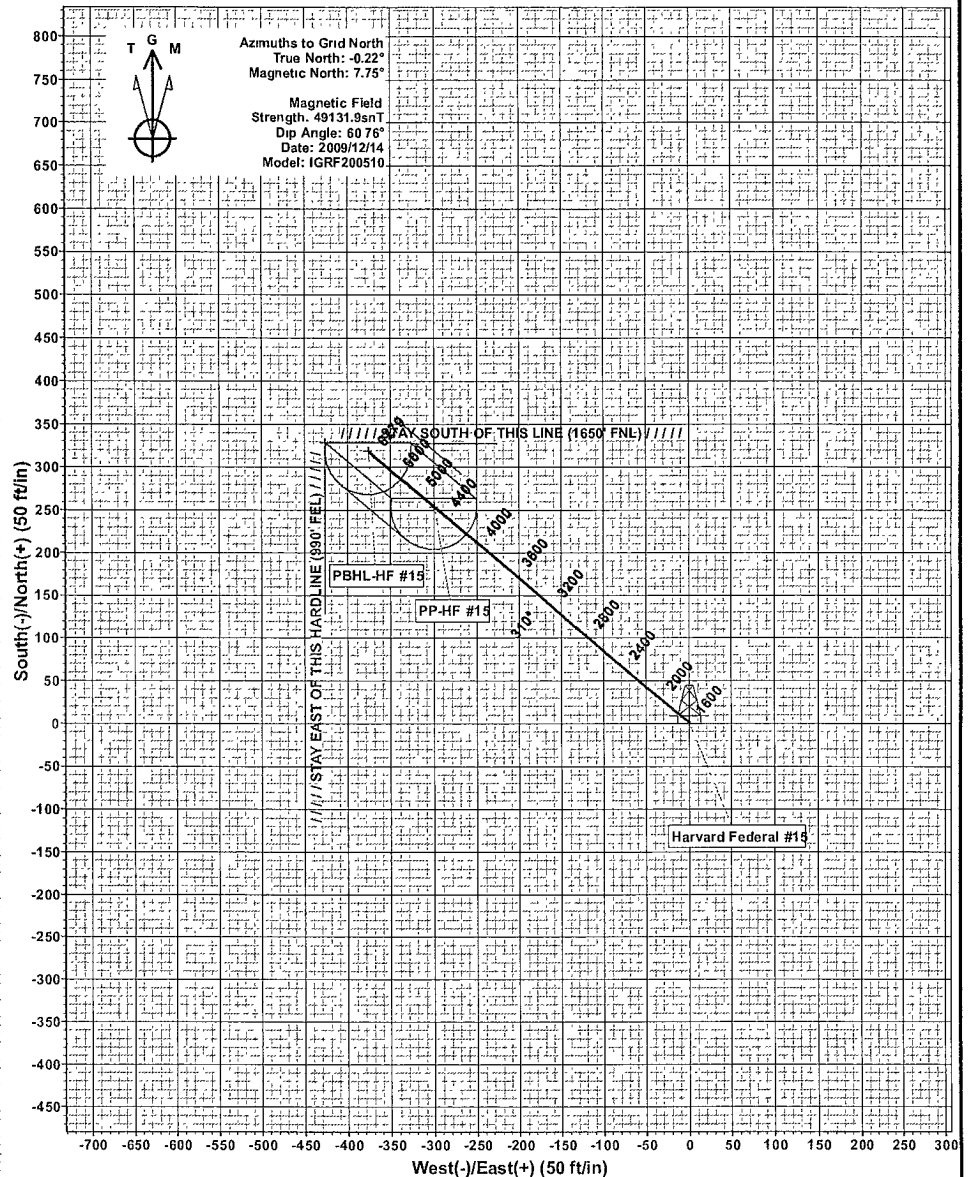
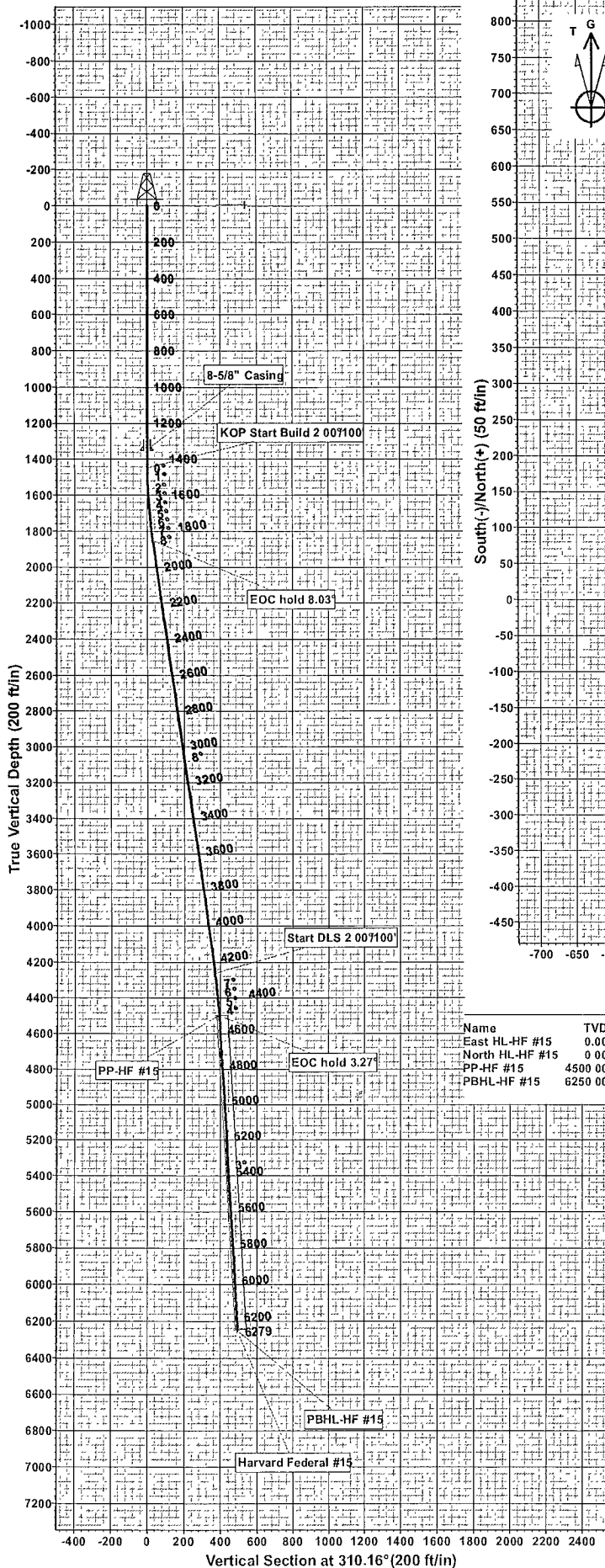
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
1,350.00	1,350.00	8-5/8" Casing	8-5/8	12-1/4

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,450.00	1,450.00	0.00	0.00	KOP Start Build 2.00°/100'
1,851.40	1,850.09	18.11	-21.46	EOC hold 8.03°
4,288.54	4,263.35	237.61	-281.58	Start DLS 2.00°/100'
4,526.42	4,500.00	252.71	-299.47	EOC hold 3.27°



Scientific Drilling for COG Operating LLC
Site: Eddy County, NM (NAN27 NME)
Well: Harvard Federal #15
Wellbore: OH
Design: Plan #1 - 7-7/8" Hole



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
East HL-HF #15	0.00	327.20	-425.90	673762.20	621807.00	32° 51' 5.861 N	103° 56' 12.093 W	Rectangle (Sides: L20 0.00 W0.00)
North HL-HF #15	0.00	327.20	-425.90	673762.20	621807.00	32° 51' 5.861 N	103° 56' 12.093 W	Rectangle (Sides: L0 00 W200.00)
PP-HF #15	4500.00	252.71	-299.47	673687.71	621933.43	32° 51' 5.119 N	103° 56' 10.614 W	Point
PBHL-HF #15	6250.00	317.20	-375.90	673752.20	621857.00	32° 51' 5.760 N	103° 56' 11.507 W	Circle (Radius: 50.00)

ALL AZIMUTHS MUST BE CORRECTED TO GRID
GRID CORRECTIONS MUST BE APPLIED BEFORE PLOTTING
To convert a Magnetic Direction to a Grid Direction, Add 7.75°
To convert a True Direction to a Grid Direction, Subtract 0.22°

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	1450.00	0.00	0.00	1450.00	0.00	0.00	0.00	0.00	0.00	
3	1851.40	8.03	310.16	1850.00	18.11	-21.46	2.00	310.16	28.08	
4	4288.54	8.03	310.16	4263.35	237.61	-281.58	0.00	0.00	368.44	
5	4526.42	3.27	310.16	4500.00	252.71	-299.47	2.00	-180.00	391.85	PP-HF #15
6	6279.27	3.27	310.16	6250.00	317.20	-375.90	0.00	0.00	491.85	PBHL-HF #15

WELL DETAILS: Harvard Federal #15

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude	Slot
0.00	0.00	673435.00	622232.90	32° 51' 2.607 N	103° 56' 7.114 W	

PROJECT DETAILS: Eddy County, NM (NAN27 NME) Plan: Plan #1 - 7-7/8" Hole (Harvard Federal #15/OH)

Geodetic System: US State Plane 1927 (Exact solution)	Created By: Julio Pina	Date: 14-Dec-09
Datum: NAD 1927 (NADCON CONUS)	Checked: _____	Date: _____
Ellipsoid: Clarke 1866	Reviewed: _____	Date: _____
Zone: New Mexico East 3001	Approved: _____	Date: _____
System Datum: Mean Sea Level		