



DISTRICT I
1625 N FRENCH DR., HOBBS, NM 58240

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

NOV 12 2008

OCD-ARTESIA

State of New Mexico

Energy, Minerals and Natural Resources Department

CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

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- 36944		Pool Code 96718	Pool Name LOCO HILLS; GLORIETA YESO
Property Code 302483	Property Name ELECTRA FEDERAL		Well Number 32
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 3728'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	10	17-S	30-E		180	NORTH	1350	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
B	10	17-S	30-E		330	NORTH	1650	EAST	EDDY
Dedicated Acres 40		Joint or Infill	Consolidation Code		Order No.				

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

SEE DETAIL 341 FNL 1650 FEL YESO PENETRATION POINT	DETAIL 3728.6' 3728.1 600' 3736.3' 3737.9'	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. <i>Phyllis A. Edwards</i> 11/5/08 Signature Date Regulatory Analyst Printed Name Phyllis A. Edwards
	BOTTOM HOLE LOCATION Y=675057.2 N X=615861.7 E GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=675207.8 N X=616161.2 E LAT.=32.855658° N LONG.=103.955060° W	

Scientific Drilling

Planning Report



Database: EDM 2003 16 Single User Db
Company: COG Operating
Project: Eddy County, NM (NAN27 NME)
Site: Electra Federal #32
Well: Electra Federal #32
Wellbore: OH
Design: Plan #1 -7-7/8" Hole

Local Co-ordinate Reference: Well Electra Federal #32
TVD Reference: Ground Elev @ 3728.00ft (Rig ?)
MD Reference: Ground Elev @ 3728.00ft (Rig ?)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Electra Federal #32			
Site Position:		Northing:	675,207.800 ft	Latitude: 32° 51' 20.370 N
From:	Map	Easting:	616,161.200 ft	Longitude: 103° 57' 18.215 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence: 0.21 °

Well	Electra Federal #32			
Well Position	+N/-S	0.00 ft	Northing: 675,207.800 ft	Latitude: 32° 51' 20.370 N
	+E/-W	0.00 ft	Easting: 616,161.200 ft	Longitude: 103° 57' 18.215 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level: 3,728.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	7/29/2008	(°) 8.14	(°) 60.79	(nT) 49,265

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	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	241.80

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Bulld 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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,884.84	7.70	241.80	1,883.68	-12.20	-22.75	2.00	2.00	0.00	241.80	
4,036.86	7.70	241.80	4,016.32	-148.40	-276.75	0.00	0.00	0.00	0.00	
4,421.70	0.00	0.00	4,400.00	-160.60	-299.50	2.00	-2.00	0.00	180.00	PP-Electra Fed #32
6,021.70	0.00	0.00	6,000.00	-160.60	-299.50	0.00	0.00	0.00	0.00	PBHL-Electra Fed #32

180 FNL & 1350 FEL
 +161
 341 FNL & 1650 FEL
 YESO PENETRATION
 POINT IS
 STANDARD