

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. 30-015-39494
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Maple State
8. Well Number 10
9. OGRID Number 229137
10. Pool name or Wildcat Red Lake; Glorieta, Yeso, Northeast

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 C-101) FOR SUCH PROPOSALS)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator COG Operating LLC	
3. Address of Operator 550 W. Texas Ave., Suite 100 Midland, TX 79701	
4. Well Location Unit Letter E : 2420 feet from the North line and 330 feet from the West line Section 30 Township 17S Range 28E NMPM County EDDY	
11. Elevation (Show whether DR, RKB, RT, GR, etc) 3567' GR	
Pit or Below-grade Tank Application ☐ or Closure ☐	
Pit type _____ Depth to Groundwater 110' Distance from nearest fresh water well 1000' Distance from nearest surface water 1000'	
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: ADD BHL ☒		OTHER: ☐	

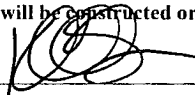
COG Operating LLC respectfully requests permission to change this well from Vertical to Directional:

SHL: 2420 FNL & 330 FWL, Section 30, T17S, R28E, UL E

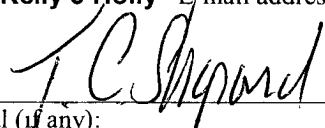
BHL: 2310 FNL & 330 FWL, Section 30, T17S, R28E, UL E

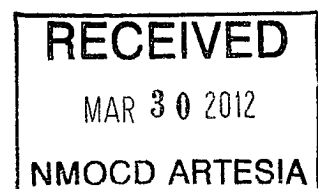
An amended plat and Directional Plan are attached for your review.

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  TITLE Permitting Tech DATE 03/29/2012

Type or print name **Kelly J Holly** E-mail address: **kholly@concho.com** Telephone No. **432-685-4384**
For State Use Only

APPROVED BY:  TITLE Geologist DATE 3/30/2012
Conditions of Approval (if any): _____



DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax. (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax. (575) 748-9720
DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax. (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-39494	Pool Code 96836	Pool Name Red Lake; Glorieta Yeso, Northeast
Property Code 302518	Property Name MAPLE STATE	Well Number 10
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3567'

Surface Location

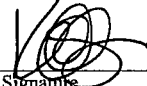
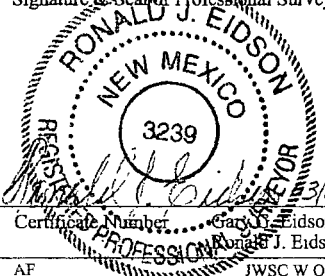
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	30	17-S	28-E		2420	NORTH	330	WEST	EDDY

Bottom Hole Location If Different From Surface

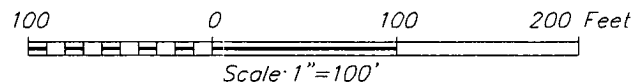
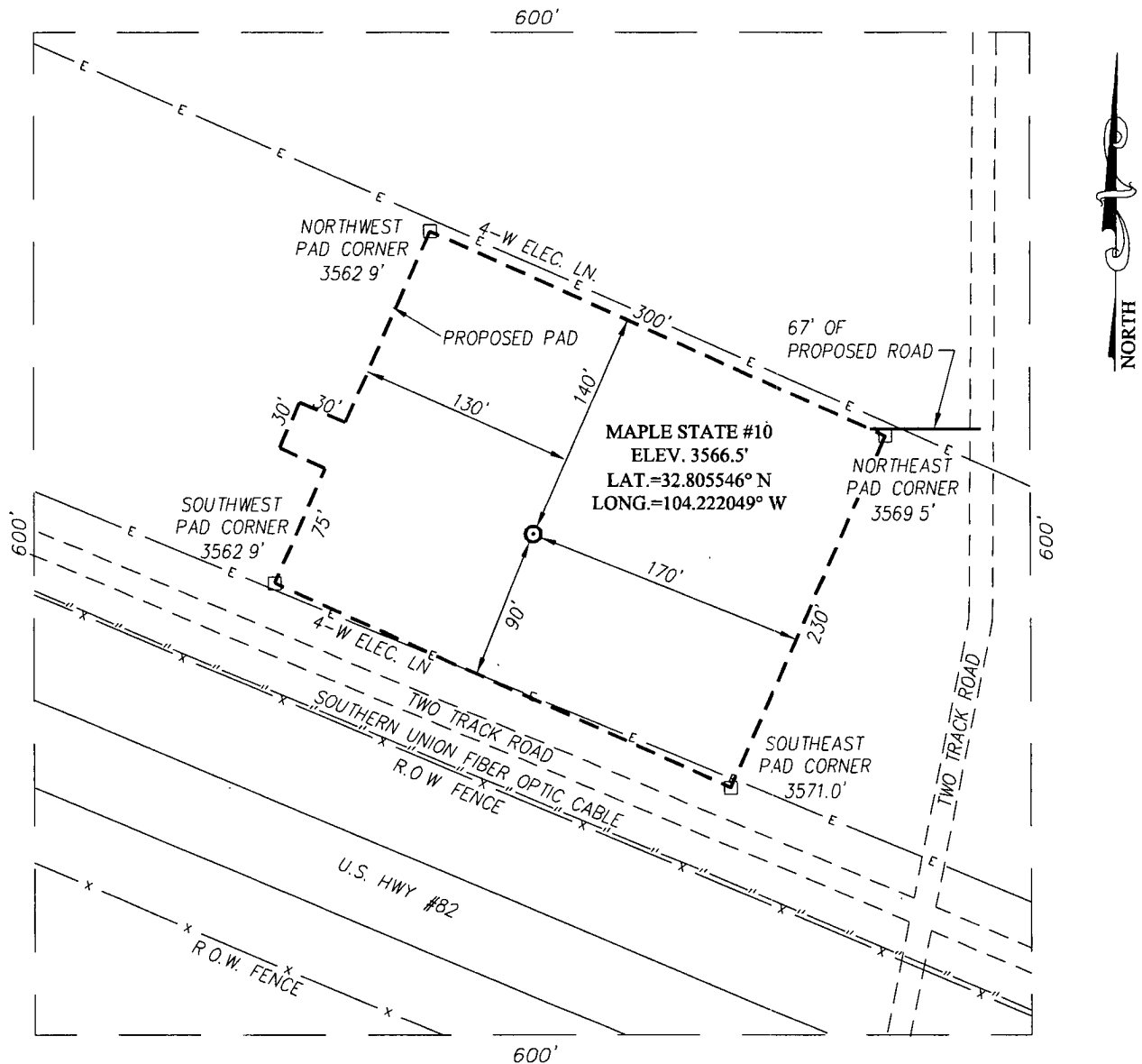
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	30	17-S	28-E		2310	NORTH	330	WEST	EDDY

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

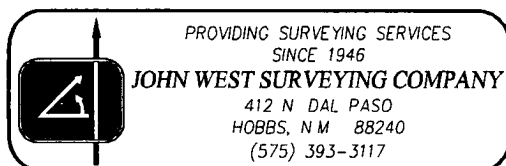
Estimated Completed Interval: 2300 FNL + 330 FNL CORNER COORDINATES TABLE (A) - Y=657882.7 N, X=533855.8 E (B) - Y=657893.1 N, X=535212.9 E (C) - Y=656562.0 N, X=533864.1 E (D) - Y=656571.8 N, X=535217.4 E	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the 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.  3-29-12 Signature Date Kelly J. Holly Printed Name kholly@concho.com E-mail Address 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. JULY 20, 2011 Date of Survey Signature & Seal of Professional Surveyor:  Certificate Number: Ronald J. Eidson 12641 AP JWSC W O 12.13.0506
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SECTION 30, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF US HWY #82 AND CO RD #205 (TV TOWER ROAD) GO NORTHWEST ALONG U.S. HWY #82 APPROX. 1.0 MILE. THIS LOCATION STAKE IS APPROX 200 FEET NORTH

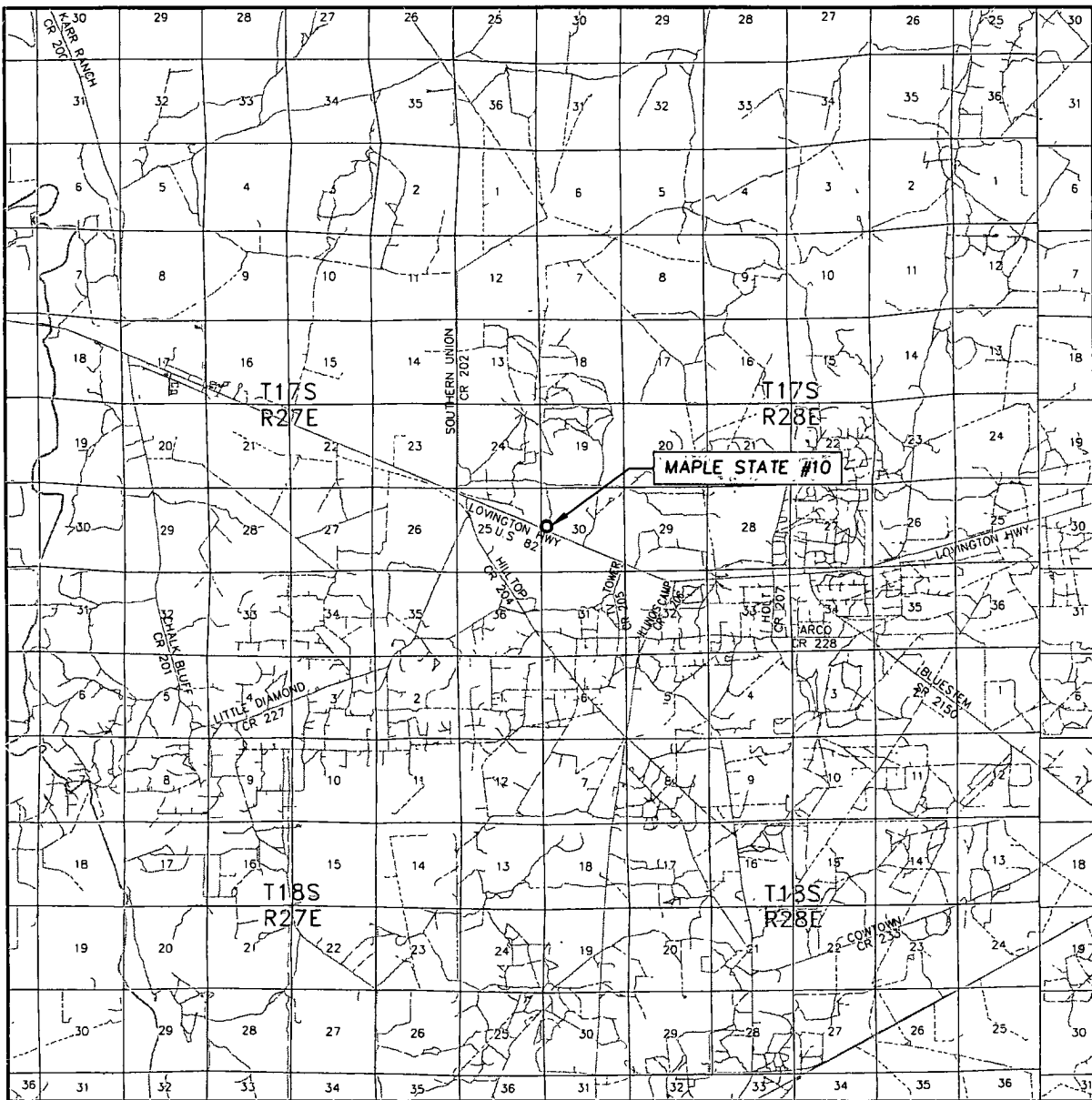


COG OPERATING, LLC

MAPLE STATE #10
LOCATED 2420 FEET FROM THE NORTH LINE
AND 330 FEET FROM THE WEST LINE OF SECTION 30,
TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

Survey Date. 7/20/11	Sheet 1 of 1 Sheets
W.O. Number: 11 11.0809	Dr By. LA
Date: 8/4/11	11110809
	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 30 TWP. 17-S RGE 28-E

SURVEY N.M.P.M

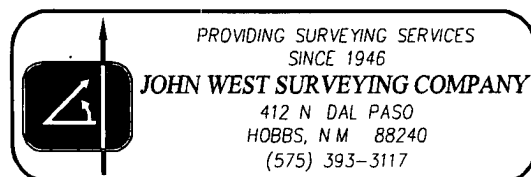
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 2420' FNL & 330' FWL

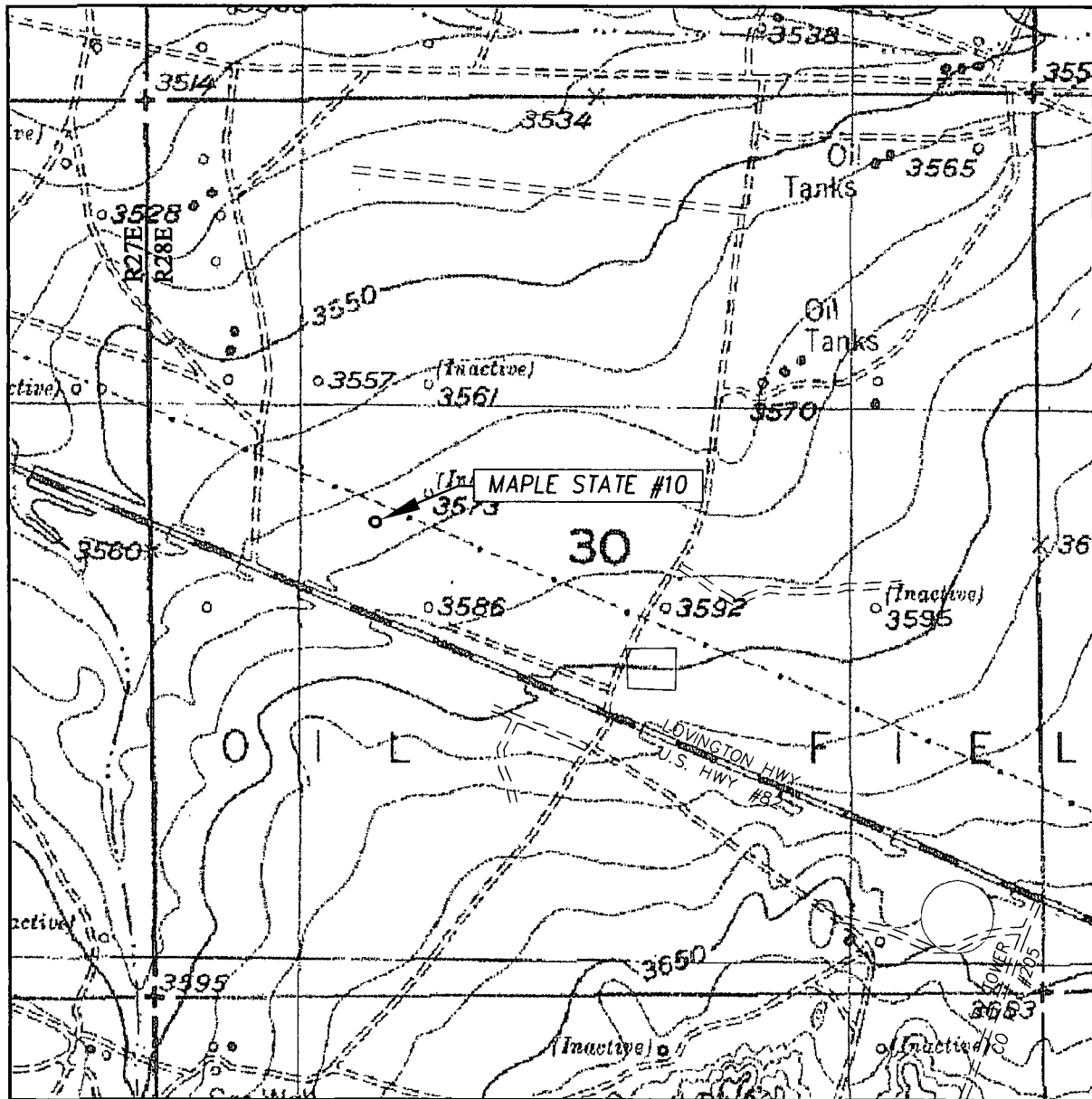
ELEVATION 3567'

OPERATOR COG OPERATING, LLC

LEASE MAPLE STATE



LOCATION VERIFICATION MAP



SCALE: 1" = 1000'

CONTOUR INTERVAL:
RED LAKE, N.M. - 10'

SEC 30 TWP. 17-S RGE 28-E

SURVEY N.M.P.M

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 2420' FNL & 330' FWL

ELEVATION 3567'

OPERATOR COG OPERATING, LLC

LEASE MAPLE STATE

U.S.G.S. TOPOGRAPHIC MAP
RED LAKE, 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)

Maple State #10

Maple State #10

OH

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

SHL = 2420' FNL & 330' FWL

BHL = 2300' FNL & 380' FWL

Paddock Top = 2300' FNL & 380' FWL @ 3250' TVD

Standard Planning Report

27 March, 2012





Scientific Drilling International, Inc.
Planning Report



Database:	EDM 5000 1-Single User Db	Local Co-ordinate Reference:	Site Maple State #10
Company:	COG Operating LLC	TVD Reference:	GL @ 3567 00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3567 00usft
Site:	Maple State #10	North Reference:	Grid
Well:	Maple State #10	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	Maple State #10		
Site Position:		Northing:	656,786 70 usft
From:	Map	Easting:	534,192 70 usft
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 48' 19 966 N
		Longitude:	104° 13' 19 375 W
		Grid Convergence:	0 06 °

Well	Maple State #10		
Well Position	+N/-S	0 00 usft	Northing:
	+E/-W	0 00 usft	Easting:
Position Uncertainty	0 00 usft	Wellhead Elevation:	Ground Level:
			3,567 00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	03/27/12	7 83
			Dip Angle
			(°)
			60 59
			Field Strength
			(nT)
			48,814

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
	(usft)	(usft)	(usft)
	0.00	0 00	0 00
			Direction
			(°)
			22 31

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	
1,100 00	0 00	0 00	1,100 00	0 00	0 00	0 00	0 00	0 00	0 00	
1,289 07	3 78	22 31	1,288 93	5 77	2 37	2 00	2.00	0 00	22 31	
3,065 07	3 78	22.31	3,061 07	114 13	46 83	0 00	0 00	0 00	0 00	
3,254 14	0.00	0 00	3,250 00	119 90	49 20	2 00	-2 00	0 00	180 00	T1-Maple State #10
4,804 14	0 00	0 00	4,800 00	119 90	49 20	0 00	0 00	0 00	0 00	PBHL-Maple State #1



Scientific Drilling International, Inc.

Planning Report



Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Site Maple State #10
Company:	COG Operating LLC	TVD Reference:	GL @ 3567 00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3567 00usft
Site:	Maple State #10	North Reference:	Grid
Well:	Maple State #10	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 - 7-7/8" Hole		

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
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8-5/8" Casing									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 2.00°/100'									
1,200.00	2.00	22.31	1,199.98	1.61	0.66	1.75	2.00	2.00	0.00
1,289.07	3.78	22.31	1,288.93	5.77	2.37	6.24	2.00	2.00	0.00
Hold 3.78°									
1,300.00	3.78	22.31	1,299.84	6.44	2.64	6.96	0.00	0.00	0.00
1,400.00	3.78	22.31	1,399.62	12.54	5.14	13.55	0.00	0.00	0.00
1,500.00	3.78	22.31	1,499.40	18.64	7.65	20.15	0.00	0.00	0.00
1,600.00	3.78	22.31	1,599.19	24.74	10.15	26.74	0.00	0.00	0.00
1,700.00	3.78	22.31	1,698.97	30.84	12.66	33.34	0.00	0.00	0.00
1,800.00	3.78	22.31	1,798.75	36.94	15.16	39.93	0.00	0.00	0.00
1,900.00	3.78	22.31	1,898.53	43.04	17.66	46.53	0.00	0.00	0.00
2,000.00	3.78	22.31	1,998.32	49.15	20.17	53.12	0.00	0.00	0.00
2,100.00	3.78	22.31	2,098.10	55.25	22.67	59.72	0.00	0.00	0.00
2,200.00	3.78	22.31	2,197.88	61.35	25.17	66.31	0.00	0.00	0.00
2,300.00	3.78	22.31	2,297.66	67.45	27.68	72.91	0.00	0.00	0.00
2,400.00	3.78	22.31	2,397.44	73.55	30.18	79.50	0.00	0.00	0.00
2,500.00	3.78	22.31	2,497.23	79.65	32.68	86.10	0.00	0.00	0.00
2,600.00	3.78	22.31	2,597.01	85.75	35.19	92.69	0.00	0.00	0.00
2,700.00	3.78	22.31	2,696.79	91.86	37.69	99.29	0.00	0.00	0.00
2,800.00	3.78	22.31	2,796.57	97.96	40.20	105.88	0.00	0.00	0.00
2,900.00	3.78	22.31	2,896.36	104.06	42.70	112.48	0.00	0.00	0.00
3,000.00	3.78	22.31	2,996.14	110.16	45.20	119.07	0.00	0.00	0.00
3,065.07	3.78	22.31	3,061.07	114.13	46.83	123.36	0.00	0.00	0.00
Start Drop 2.00°/100'									
3,100.00	3.08	22.31	3,095.93	116.06	47.63	125.46	2.00	-2.00	0.00
3,200.00	1.08	22.31	3,195.86	119.43	49.01	129.09	2.00	-2.00	0.00
3,254.14	0.00	0.00	3,250.00	119.90	49.20	129.60	2.00	-2.00	0.00
Hold 0.00° - Top of Paddock - T1-Maple State #10									
4,804.14	0.00	0.00	4,800.00	119.90	49.20	129.60	0.00	0.00	0.00
PBHL-Maple State #10									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
T1-Maple State #10	0.00	0.00	3,250.00	119.90	49.20	656,906.60	534,241.90	32° 48' 21.152 N	104° 13' 18.797 W
- plan hits target center									
- Point									
PBHL-Maple State #10	0.00	0.00	4,800.00	119.90	49.20	656,906.60	534,241.90	32° 48' 21.152 N	104° 13' 18.797 W
- plan hits target center									
- Circle (radius 50.00)									



Scientific Drilling International, Inc.

Planning Report



Database:	EDM 5000 1.Single User.Db	Local Co-ordinate Reference:	Site Maple State #10
Company:	COG Operating LLC	TVD Reference:	GL @ 3567 00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3567 00usft
Site:	Maple State #10	North Reference:	Grid
Well:	Maple State #10	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 - 7-7/8" Hole		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,000 00	1,000.00	8-5/8" Casing	8-5/8	12-1/4	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,254 14	3,250.00	Top of Paddock		0.00	

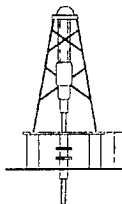
Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)		
1,100 00	1,100 00	0 00	0 00	KOP Start Build 2 00°/100'	
1,289 07	1,288 93	5 77	2 37	Hold 3.78°	
3,065 07	3,061 07	114 13	46 83	Start Drop 2 00°/100'	
3,254 14	3,250 00	119 90	49 20	Hold 0 00°	



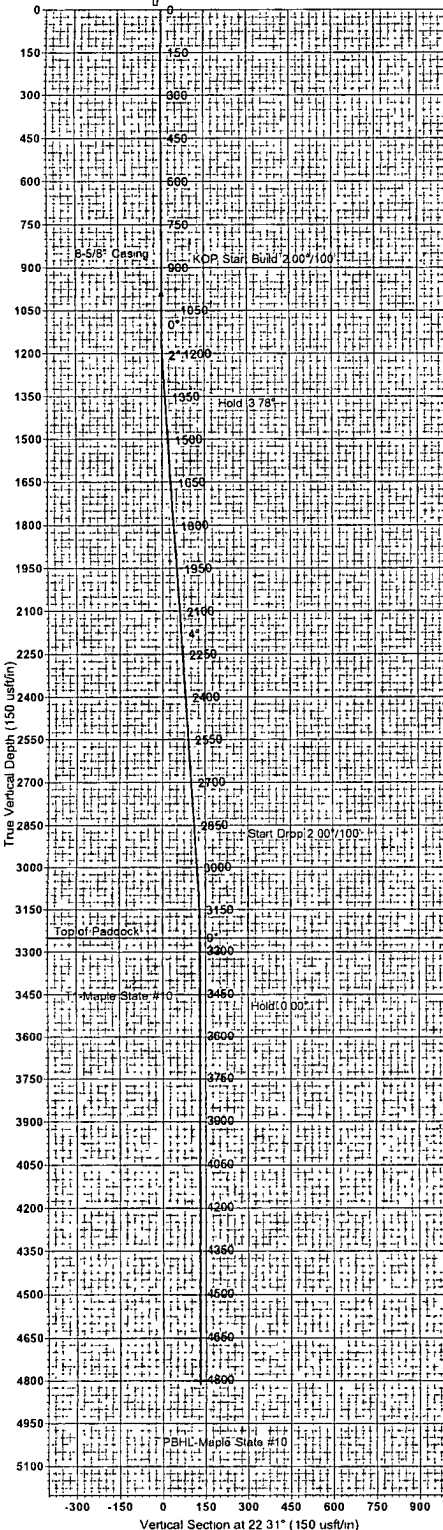
Azimuths to Grid North
True North: -0.00°
Magnetic North: 7.77°
Magnetic Field
Strength: 48814.4nT
Dip Angle: 60.50°
Date: 03/27/2012
Model: IGRF-2010

To convert Magnetic North to Grid: Add 7.77°
To convert True North to Grid: Subtract 0.00°

Maple State #10
Eddy County, NM (NAN27 NME)
Northing: (Y) 656786.70
Easting: (X) 534192.70
Plan #1 - 7-7/8" Hole



GL 3567.00



WELL DETAILS Maple State #10						
	Ground Level	3567.00				
+N-S	+E-W	Northing	Existing	Latitude	Longitude	Slot
0.00	0.00	656786.70	534192.70	32° 48' 19.966 N	104° 13' 19.375 W	

SECTION DETAILS										
Sec	MD	Inc	Act	TVD	+N-S	+E-W	Diag	TFace	VSeal	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
3	1289.07	3.78	22.31	1288.93	5.77	2.37	2.00	22.31	6.24	
4	3055.07	3.78	22.31	3051.07	114.13	40.83	0.00	0.00	123.38	
5	3254.14	0.00	0.00	3250.00	110.00	40.20	2.00	180.00	129.60	T1-Maple State #10
8	4804.14	0.00	0.00	4800.00	110.00	40.20	0.00	0.00	129.60	PBHL-Maple State #10

DESIGN TARGET DETAILS									
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape	
T1-Maple State #10	3250.00	110.00	40.20	656908.60	534241.0032° 48' 21.152 N	104° 13' 18.797 W	Point		
PBHL-Maple State #10	4800.00	110.00	40.20	656908.60	534241.0032° 48' 21.152 N	104° 13' 18.797 W	Circle (Radius 50.00)		

SITE DETAILS Maple State #10				
Site Centre Northing	656786.70			
Easting	534192.70			
Positional Uncertainty	0.00			
Convergence	0.05			
Local North Grid				

PROJECT DETAILS: Eddy County, NM (NAN27 NME)				
Geoid System	US State Plane 1927 (Exact solution)			
Datum	NAD 1927 (NADCON CONUS)			
Ellipsoid	Clarke 1866			
Zone Name	New Mexico East 3001			
Local Origin	Site Maple State #10 Grid North			
Latitude	32° 48' 19.966 N			
Longitude	104° 13' 19.375 W			
Grid East	534192.70			
Grid North	656786.70			
Scale Factor	1.000			
Geographic Model	IGRF-2010			
Sample Date	2/7/2012			
Magnetic Declination	7.83°			
Dip Angle from Horizontal	60.50°			
Magnetic Field Strength	48814			
To convert Magnetic North to Grid: Add 7.77°				
To convert Magnetic North to True North: Add 7.83° East				
To convert True North to Grid: Subtract 0.00°				

FORMATION TOP DETAILS					
TVDPath	MDPath	Formation	DipAngle	DipDir	
3250.00	3254.14	Top of Padlock	0.00		

CASING DETAILS			
TVD	MD	Name	Size
1000.00	1000.00	8-5/8" Casing	9-5/8"

