

HOBBS OCD

Submit 1 Copy To Appropriate District Office

State of New Mexico

Form C-103

October 13, 2009

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

MAY 02 2013

Energy, Minerals and Natural Resources

RECEIVED

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-025-40352

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Pygmy 27 State

8. Well Number

1H

9. OGRID Number

229137

10. Pool name or Wildcat

WC-025 G-06 S213323D; Bone Spring

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

2208 W. Main Street, Artesia, NM 88210

4. Well Location

Unit Letter D : 330 feet from the North line and 190 feet from the West lineSection 27 Township 21S Range 33E NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc)

3706.2' GL

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐ CHANGE PLANS ☐PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐DOWNHOLE COMMINGLE ☐

OTHER:

SHL, BHL and Drilling Program Changes

☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐ P AND A ☐CASING/CEMENT JOB ☐

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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG Operating LLC respectfully requests approval for the following SHL and BHL change to the original APD.

* From: SHL: 660' FNL & 480' FWL*
BHL: 660' FNL & 330' FEL

* To: SHL: 330' FNL & 190' FWL*
BHL: 380' FNL & 330' FEL*

Drilling Program

See attached.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Mayte Reyes

TITLE: Regulatory Analyst

DATE: 5/02/2013

Type or print name: Mayte Reyes

E-mail address: mreyes1@conchoresources.com

PHONE: (575) 748-6945

For State Use Only

APPROVED BY:

TITLE

Petroleum Engineer

DATE

Conditions of Approval (if any):

MAY 03 2013

HOBBS OCD

MAY 02 2013

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 333-6161 Fax: (505) 333-6722

DISTRICT II
1501 W. GRAND AVENUE, ARTESIA, NM 86210
Phone: (505) 746-1853 Fax: (505) 746-9722

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
11885 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
11885 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

one copy to appropriate

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-40352	Pool Code 97929	Pool Name WC-025 G-06 S213323D; Bone Spring
Property Code 310282	Property Name PYGMY 27 STATE	Well Number 1H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3706.2'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	21-S	33-E		330	NORTH	190	WEST	LEA

Bottom Hole Location If Different From Surface

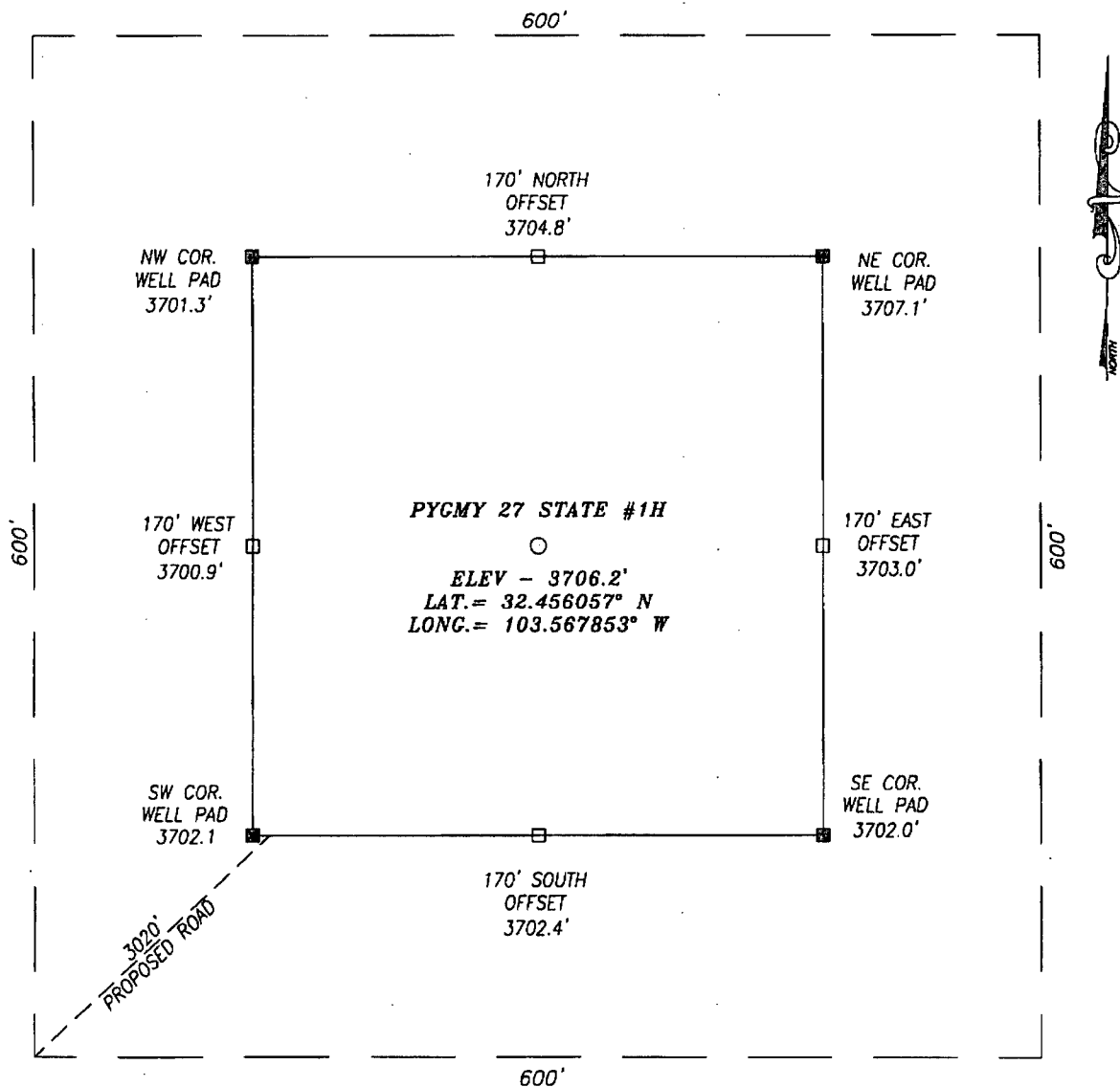
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	21-S	33-E		380	NORTH	330	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

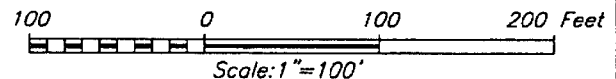
<p>330'</p> <p>190'</p> <p>S.L.</p> <p>Y=530802.3 N X=735923.0 E</p>	<p>GRID AZ. 90°16'56"</p> <p>HORZ. DIST. = 4.885.0</p>	<p>380'</p> <p>B.H.</p> <p>330'</p> <p>Y=530831.5 N X=741225.6 E</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best 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.</p> <p><i>Melanie Barker</i> 5/2/2013 Signature Date <i>Melanie Barker</i> Printed Name mbarker@concho.com E-mail Address</p>
<p>Y=529483.5 N X=735934.3 E</p>	<p>NAD 27 SURFACE LOCATION Y=530473.5 N X=736115.8 E LAT.=32.456057° N LONG.=103.567853° W</p>	<p>NAD 27 PROPOSED BOTTOM HOLE LOCATION Y=530449.9 N X=740898.7 E LAT.=32.455897° N LONG.=103.552349° W</p>	<p>Y=529511.9 N X=741236.2 E</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>FEBRUARY 15, 2013 Date of Survey</p> <p>Signature & Seal of Professional Surveyor</p> <p><i>Chad L. HARCROW</i> 2/25/13 Certificate No. CHAD HARCROW 17777 W.O. # 13-45 DRAWN BY: VD</p>

SECTION 27, TOWNSHIP 21 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

HEADING EAST ON HWY 176 TURN RIGHT (SOUTHWEST) ON CALICHE ROAD APPROX. 0.5 MILE PAST MILE MARKER 14. FOLLOW CALICHE ROAD FOR APPROX. 3.8 MILES AND TURN RIGHT (WEST) GO APPROX. 4.8 MILES AND TURN RIGHT (NORTHWEST) ONTO DELAWARE BASIN ROAD. GO 0.4 MILES AND WELL IS APPROX. 3270 FEET NORTHEAST.



HARCROW SURVEYING, LLC

1107 WATSON, ARTESIA, N.M. 88210
PH: (575) 513-2570 FAX: (575) 746-2158
chad_harcrow77@yahoo.com



COG OPERATING, LLC

PYGMY 27 STATE #1H WELL
LOCATED 330 FEET FROM THE NORTH LINE
AND 190 FEET FROM THE WEST LINE OF SECTION 27,
TOWNSHIP 21 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

SURVEY DATE: 2/15/2013

PAGE: 1 OF 1

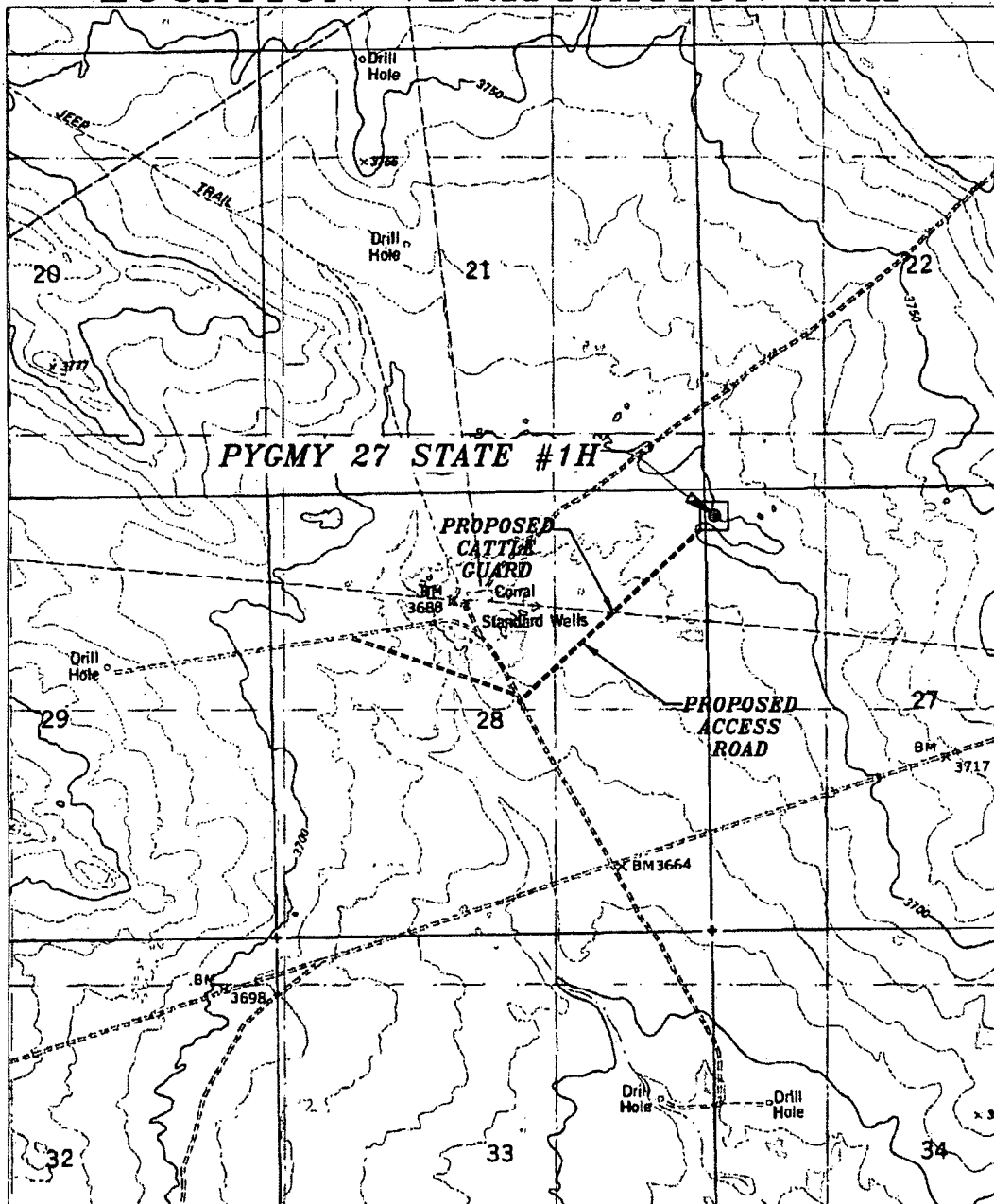
DRAFTING DATE: 02/18/2013

APPROVED BY: CH

DRAWN BY: VD

FILE: 13-45

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 27 TWP. 21-S RGE. 33-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 330' FNL & 190' FWL

ELEVATION 3706.2'

OPERATOR COG OPERATING, LLC

LEASE PYGMY 27 STATE

U.S.G.S. TOPOGRAPHIC MAP

GRAMA RIDGE, N.M.

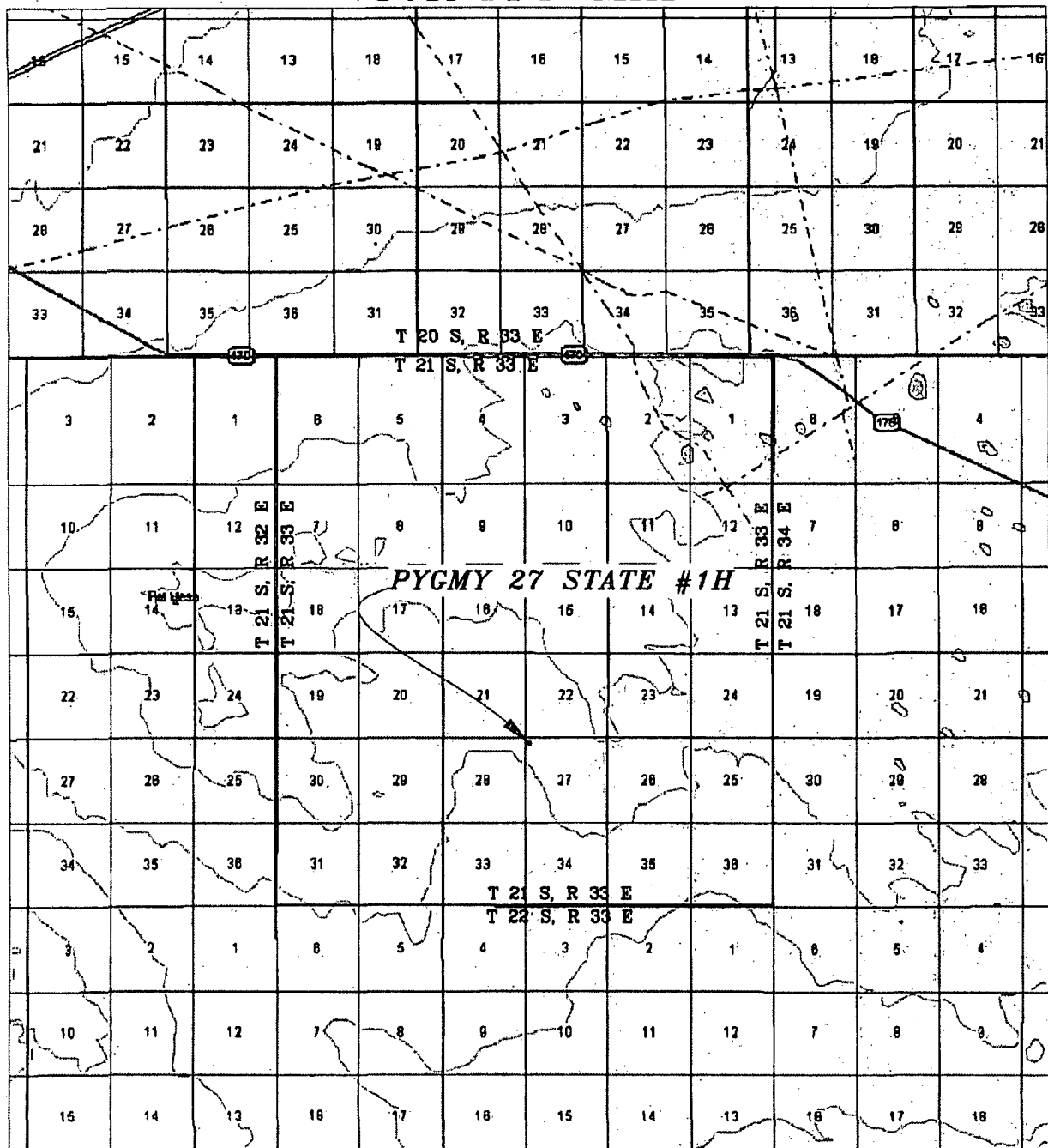
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COG OPERATING, LLC

SURVEY DATE: FEB. 15, 2013	PAGE: 1 OF 1
DRAFTING DATE: FEB. 19, 2013	
APPROVED BY: CH	DRAWN BY: DDSI FILE: 13-45

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 27 TWP. 21-S RGE. 33-E
 SURVEY N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 330' FNL & 190' FWL
 ELEVATION 3706.2'
 OPERATOR COG OPERATING, LLC
 LEASE PYGMY 27 STATE

HARCROW SURVEYING, LLC
 1107 WATSON, ARTESIA N.M. 88210
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 chad_harcrow77@yahoo.com



COG OPERATING, LLC

SURVEY DATE: FEB. 15, 2013	PAGE: 1 OF 1
DRAFTING DATE: FEB. 19, 2013	
APPROVED BY: CH	DRAWN BY: DDSI FILE: 13-045

Pygmy 27 State 1H

Casing and Cement

<u>String</u>	<u>Hole Size</u>	<u>Csg OD</u>	<u>PPF</u>	<u>Depth</u>	<u>Sx Cement</u>	<u>TOC</u>
Surface	17-1/2"	13-3/8"	54.5#	1800'	1060	0'
Intermediate	12-1/4"	9-5/8"	36#/40#	5600'	640/1445	0'
Pilot Hole Plug 1	7-7/8"	-	-	12150'	100	11890'
Pilot Hole Plug 2	7-7/8"	-	-	11100'	340	10200'
Production	7-7/8"	5-1/2"	17#	15538'	1675	5300'

Well Plan

Drill 17-1/2" hole to ~1800' w/ fresh water spud mud. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage. Will use 1" tubing and Class C w/ 2% CaCl₂ to cement to surface, if necessary.

Drill 12-1/4" hole to ~5600' with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5/8" 36# J55 & 40# N80 BTC casing to TD with a DV tool placed ~ 100' above the Reef. Plan to circulate cement on both stages.

Drill 7-7/8" pilot hole to 12150', log and plug back with 100 sx cement plug f/ 11890' – 12150' and 340 sx cement plug f/ 10200' – 11100'.

Drill 7-7/8" curve and lateral to 15538' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement to 5300' (300' overlap) in one stage.

Well Control

After setting 13-3/8" casing and installing 3000 psi casing head, NU Hydril 2000 psi annular BOP. Test annular to 1000 psi and other BOP equipment to 2000 with clear fluid using 3rd party testers.

After setting 9-5/8" casing and installing 5000 psi casing spool, NU Shaeffer 5000 psi double ram BOP and Hydril 5000 psi annular BOP. Test annular to 2500 psi and other BOP equipment to 5000 with clear fluid using 3rd party testers.