

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 283-8181 Fax: (505) 283-0720

DISTRICT II

511 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-8178 Fax: (505) 748-0720

DISTRICT III

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

DISTRICT IV

1820 E. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462State 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

FEB 26 2014 □ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-40968	Pool Code 97962	Pool Name WC-025 G-07 S213450N, Bone Spring
Property Code 39678	Property Name OSPREY 20 STATE COM	Well Number 1H
GRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3756.5

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	20	21-S	34-E		190	NORTH	660	EAST	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
P	29	21-S	34-E		330	SOUTH	380	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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>NAD 27 SURFACE LOCATION Y=536090.7 N X=761598.0 E LAT.=32.470967° N LONG.=103.485103° W</p>	<p>Y=536273.5 N X=760937.1 E</p>	<p>Y=536288.0 N X=762256.4 E</p>	<p>190 S.L.T. 660°</p>
<p>NAD 27 PROPOSED BOTTOM HOLE LOCATION Y=526055.1 N X=761964.6 E LAT.=32.443375° N LONG.=103.484174° W</p>	<p>Y=525713.3 N X=761026.4 E</p>	<p>Y=525729.9 N X=762347.4 E</p>	<p>180 B.H.O. 330</p>

SECTION 20
SECTION 29


HORZ. DIST. 10,042.3
GRID AZ. 177°54'29"

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.

Melanie J. Parker 2/26/14
Signature Date
Printed Name
mparker@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.

JANUARY 8, 2014
Date of Survey
Signature & Seal of Professional Surveyor



CHAD L. HARCROW
NEW MEXICO
17777
LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 1/16/14
Certificate No. CHAD HARCROW 17777
W.O. # 14-17 DRAWN BY: SP

FEB 26 2014

Osprey 20 State Com 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#	1870'	1095	0'
Intermediate	12-1/4"	9-5/8"	40	5750'	2195	0'
Pilot Hole Plug	8-3/4"	-	-	12150'	480	11100'
Production	8-3/4"	5-1/2"	17#	21672'	3755	5450'

Well Plan

Drill 17-1/2" hole to ~1870' 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 ~5750' with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5/8" 40# L80 BTC casing to TD with a DV tool placed ~ 100' above the Reef. Plan to circulate cement on both stages.

Drill 8-3/4" pilot hole to 12150', log and plug back with 480 sx cement plug f/ 11100' – 12150'.

Drill 8-3/4" curve and lateral to 21672' with cut brine. Run 5-1/2" 17# P110 Tenaris TXP casing to TD and cement to 5450' (300' overlap) in one stage.

Well Control

After setting 13-3/8" casing and installing 3000 psi casing head, NU 13-5/8" 5000 psi T3 Energy Services annular BOP. Test annular and casing to 1000 psi and other BOP equipment to 2000 psi with clear fluid using 3rd party testers.

After setting 9-5/8" casing and installing 5000 psi casing spool, NU 13-5/8" 5000 psi T3 Energy Services double ram BOP and 13-5/8" 5000 psi T3 Energy Services annular BOP. Test annular to 2500 psi and other BOP equipment to 5000 psi with clear fluid using 3rd party testers.