

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007**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 Ste 1300 Midland TX 797013b. Phone No. (include area code)
432-683-7443

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SL: 495' FNL & 1600' FEL Sec33-T19S-R33E
BHL: 760' FNL & 1650' FEL Sec33-T19S-R33E

Unit B

5. Lease Serial No.

NM-94099

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Jade Viper 33 Fed Comm #1Y

9. API Well No.

37085
30-025-3695510. Field and Pool, or Exploratory Area
Gem Morrow Gas

11. County or Parish, State

Lea County, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Skid rig
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recompleat 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 Operating LLC has P&A'd the Jade Viper 33 Federal Com #1 well due to a casing collapse and unsuccessful fishing job. COG plans on skidding the rig 50' east, utilize the same pad and drill the Jade Viper 33 Federal Com 1Y. The casing setting depths will remain the same. The hole size and casing sizes will change due to availability and cost. Please see the attached program for specific change

OPER. OGRID NO. 229137
PROPERTY NO. 34416
POOL CODE 77370
EFF. DATE 2/9/05
API NO. 30-025-37085RECEIVED
HOBBS
OCD

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

Erick W. Nelson

Title Sr. Operations Engineer

Signature

Date

1-29-05

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by (ORIG. SGD) DAVID R. GLASS

PETROLEUM ENGINEER

Date

FEB 04 2005

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

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)

KZ

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I

1828 N. FRANCH DR., BOBBY, NM 88410

DISTRICT II

1901 W. GRAND AVENUE, ARIZONA, NM 88210

DISTRICT III

1000 Rio Brases Rd., Astec, NM 87410

DISTRICT IV

1820 S. ST. FRANCIS DR., SANTA FE, NM 87506

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-36955	Pool Code 77370	Pool Name Gem Morrow
Property Code 34416	Property Name JADE VIPER 33 FEDERAL COM	Well Number 1Y
OGRID No. 229137	Operator Name COG OPERATING LLC	Elevation 3555'

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	33	19--S	33-E		495	NORTH	1600	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
Dedicated Acres 320	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

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=590822.8 N X=705983.2 E</p> <p>LAT.=32°37'20.98" N LONG.=103°39'51.51" W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature Agent</p> <p>Printed Name HODD</p> <p>Title 02/09/05</p> <p>Date</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>JANUARY 26, 2005</p> <p>Date Surveyed JR</p> <p>Signature & Seal of Professional Surveyor RONALD J. EIDSON</p> <p>Certificate No. 3239 RONALD J. EIDSON 12441 3239</p>
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COG Operating LLC
 Jade Viper "33" Federal Com #1Y
 SL: 495' FNL & 1600' FEL
 BHL: 760' FNL & 1650' FEL
 Sec.33-T19S, R33E
 Lea County, NM

1. Well Plan

Drill and complete a 13700' MD Morrow Test

2. Ground Elevation above Sea Level: 3555'

3. Proposed drilling depth: TVD: 13,700' MD: 13700'

4. Estimated tops of geological markers:

Rustler anhydrite	1300'
Yates	3190'
Delaware	5250'
Bone Spring	8070'
Wolfcamp	11000'
Penn Shale	11500'
Strawn	12100'
Atoka	12300'
Morrow Lime	12700'

5. Possible mineral bearing formations:

Delaware	Oil
Bone Spring	Oil
Wolfcamp	Oil/Gas
Atoka	Gas
Morrow	Gas

6. Casing Program

<u>Hole size</u>	<u>Interval</u>	<u>OD of Casing</u>	<u>Weight</u>	<u>Thread</u>	<u>Collar</u>	<u>Grade</u>
18 1/2"	0' – 1300'	16"	84#	Butt	Butt	K55
14 3/4"	1300' – 3200'	11 3/4"	65#/60#	Butt	Butt	HCQ-125/N80
10 5/8"	3200'- 5200'	8 5/8"	32#	8rd	LTC	J-55/HCK55
7 7/8"	5200' – 13700'	5-1/2"	17#	8rd	LTC	HCP110

7. Cementing and Setting Depth

16"	Surface	+/-1300'	Set 1300' of 16" 84# K-55 Butt casing. Cement w/ 500 sx 35:65 Poz:"C" cement + additives followed by 200 sx Class "C" cement + 2% CaCl ₂ + .25# flocele. Circulate cement
11 3/4"	Intermediate	+/-3200'	Set 3200' of 11 3/4" 65#/60# HCQ-125/N-80 Butt casing. Cement w/ 1700 sx Class "C" cement + additives followed by 200 sx Class "C" cement + 2% CaCl ₂ . Circulate cement.
8 5/8"	Intermediate	+/-5200'	Set 5200' 8 5/8" 32# J-55/HCK-55 LTC casing. Cement w/ 300 sx Class "C" light + additives followed by 200 sx Class "C" + 1% CaCl ₂ . Est TOC @ +/- 3000'(200' into 11 3/4" casing).
5-1/2"	Production	13700'	Set 5-1/2" 17# P110 LTC casing. Cement w/ 550 sx 50:50 Poz:H cement + additives followed by 700 sx Class H light cement plus additives. Est TOC @ +/- 5000'. (200' into 8 5/8" casing)

8. Pressure Control Equipment: After setting 16" casing install 3000# wellhead and annular BOP. Test annular BOP, casing, and manifold with clear fluid to 1350 psi with rig pump. After setting 11 3/4" casing and installing 5000# wellhead and 5000# double ram BOP. Test BOP, casing, and manifold with clear fluid to 1350 psi with rig pump. **(Higher pressure wellhead and BOP are only being used due to availability)**

After setting 8-5/8" casing and installing 5000 psi casing spool, NU 5M Double ram BOP and 5M annular BOP. Test Double ram BOP and choke assembly to 5000# and annular to 3000# with independent tester.

9. Proposed Mud Circulating System

Interval	Mud Wt.	Visc.	FL	Type Mud System
0'- 1300'	8.4-9.2	28-35	NC	Fresh water native mud w/ paper for seepage and sweeps. Circ Steel Pits
1300'- 3200'	10.0-10.2	28-30	NC	Brine mud w/ lime for PH and paper for seepage and sweeps. Circ Reserve Pits
3200'- 5200'	8.4-8.6	28-30	NC	Fresh water w/ LCM for seepage and loss of returns in the Capitan Reef . Circ Reserve Pits
5200' – 9000'	8.4 – 9.0	NC	NC	Drill section with fresh water/Cut Brine. Have MW 9.0 by 9000'. Circulate the reserve utilizing periodic sweeps of paper as needed for seepage control

9000' – 11000'	9.0 – 9.5	NC	NC	Increase weight with brine additions and utilize periodic sweeps of paper as needed for seepage control. Have MW 9.5 by 11,000' or top of Wolfcamp. Circulate reserve pits.
11,000'- 11500'	9.5-9.6	29-30	30	Drill section w/ cut brine circulating the reserve. Drop fluid loss to 30cc w/ starch. Utilize periodic sweeps of paper as needed for seepage control
11500' – 12200'	9.5-9.7	31-32	20	Drill section w/ cut brine circulating the reserve. Drop fluid loss to 20 cc w/ starch.
12200'- 12700'	9.7-9.8	38-40	15	Return to steel pits and Mud up w/ XCD Polymer and Starch. Reduce fluid loss to 15cc and increase Vis to 38-40. Maintain properties to TD
12700'- 13700'	9.7-9.8	38-40	<8	Reduce fluid loss to 8cc keep Vis at 38-40. Maintain properties to TD