

OPERATOR'S COPY

Form 3160-S  
(April 2004)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## 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-S (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator COG Operating LLC

3a. Address  
530 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 & 1650' FEL Sec. 33-T19S-R33E  
BHL: 760' FNL & 1650' FEL Sec. 33-T19S-R33EFORM APPROVED  
OM B No. 1004-0137  
Expires March 31, 20075. 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. Com #1

9. API Well No.

36955

10. 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

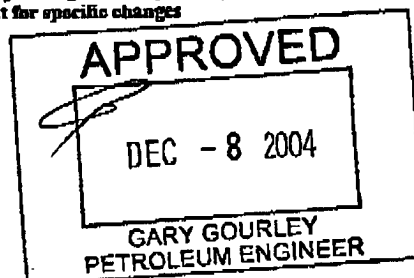
- ☒
- Notice of Intent
- 
- ☐
- Subsequent Report
- 
- ☐
- Final Abandonment Notice

## TYPE OF ACTION

- ☐
- Acidize
- ☐
- Deepen
- ☐
- Production (Start/Resume)
- ☐
- Water Shut-Off
- 
- ☒
- Alter Casing
- ☐
- Fracture Treat
- ☐
- Reclamation
- ☐
- Well Integrity
- 
- ☐
- Casing Repair
- ☐
- New Construction
- ☐
- Recombine
- ☐
- Other
- 
- ☒
- Change Plans
- ☐
- Plug and Abandon
- ☐
- Temporarily Abandon
- 
- ☐
- Convert to Injection
- ☐
- Plug Back
- ☐
- 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 recomple 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.)

Due to R-111-P potash requirements and Intrapid Mining company COG operating LLC respectfully requests changing the hole size, casing size, cement and BOP's for the above captioned well. Please see attachment for specific changes

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

Eric W. Wilson

Title Engineer

Signature

Date 12-7-04

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

Title

Biologist

Date

12/29/04

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)

**COG Operating LLC**  
**Jade Viper "33" Federal Com #1**  
**SL: 495' FNL & 1650' 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: 3556'
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>
24"	0' - 1300'	20"	94&106.5#	Butt	Butt	K55
17 1/2"	1300' - 3200'	13 3/8"	54.5, 61#, 68#	STC/Butt	STC/Butt	J-55/K-55
11"	3200' - 5200'	8 5/8"	32#	8rd	STC	J-55/HCK65
7 7/8"	5200' - 13700'	5-1/2"	17#	8rd	LTC	HCP110

7. Cementing and Setting Depth

20"	Surface	+/-1300'	Set 1300' of 20" 84&106.6# Butt casing. Cement w/ 1100 sx 35:65 Poz:"C" cement + additives followed by 200 sx Class "C" cement + 2% CaCl <sub>2</sub> + .25# floccle. Circulate cement
13 3/8"	Intermediate	+/-3200'	Set 3200' of 13 3/8" 54.5,61#, 68# STC/Butt casing. Cement w/ 1500 sx 50:50 Poz:C light cement + additives followed by 200 sx Class "C" cement + 2% CaCl <sub>2</sub> . 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 <sub>2</sub> . Est TOC @ +/- 3000' (200' into 13 3/8" casing).
5-1/2"	Production	<del>13800'</del> 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 20" casing install 3000# wellhead and annular BOP. Test annular BOP, casing, and manifold with clear fluid to 1350 psi with rig pump. After setting 13 3/8" 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)

@ 5200 Ft.

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

ok -  
Yates  
covered

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'	9.6-9.7	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