

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM 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

☐

Other

2. Name of Operator

Marbob Energy Corporation

3a. Address

PO Box 227, Artesia, NM 88211-0227

3b. Phone No. (include area code)

505-748-3303

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

1095 FSL 430 FWL, Sec. 7-T20S-R30E, Lot 4

5. Lease Serial No.

NMNM112273

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Collinsoscopy Federal #1

9. API Well No.

30-015-33758

10. Field and Pool, or Exploratory Area

Burton Flat; Strawn, East (Gas)

11. County or Parish, State

Eddy Co., 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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input checked="" 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 recompleat 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.)

Marbob Energy Corporation proposes to perforate, acidize w/ NE Fe 7 1/2% HCl acid, test and possibly frac the following Delaware zones: (Procedure and wellbore schematics attached)

Set CIBP + 35' cmt @ 10375'. Set CIBP + 35' cmt @ 9800' (top of Wolfcamp). Set CIBP + 35' cmt @ 7800'.

Delaware 1 6172' - 6200' (20 shots) 1000 gal acid

If permanently abandoned, set CIBP + 35' cmt @ 6150' (required plug for top of Bone Spring per Wesley Ingram with BLM).

Plug back methods will be determined based on results of previous zone(s).

Delaware 2 5942' - 6023' (28 shots) 1500 gal acid

Delaware 3 5751' - 5760' (20 shots) 500 gal acid

Delaware 4 4862' - 4870' (18 shots) 500 gal acid

Delaware 5 3500' - 3508' (18 shots) 500 gal acid

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

Diana J. Briggs

Title Production Analyst

Signature

Date

09/13/2007

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**Approved by **/S/ DAVID R. GLASS**

PETROLEUM ENGINEER

Date

SEP 20 2007

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 USC 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)

Revised 10 Sept 07

Collinsoscopy Fed 1  
M-7-20s-30e  
Eddy Co., NM  
Recompletion Procedure 3  
26 Oct 05

**Basic Data:**

20" @ 315' Circ. Cmt.  
13-3/8" @ 1783' Circ. Cmt.  
8-5/8" @ 3425' Circ. Cmt.  
5-1/2" @ 12400' DV @ 9969' TOC 2000' TS  
5.5"/17ppf/M95-110/LTC Burst=10640 psi, 8512 psi at 80% Nom. ID=4.892" Drift ID=4.767"  
2.375"/4.7ppf/L80/EUE Burst=11200 psi, 8960 psi at 80% Nom ID=1.995" Drift ID=1.901"  
Collapse=11780 psi, 9424 at 80%  
Tensile=104,300 lb with no safety factor

**Objective:** Recomplete well to the Delaware. It is possible that the GR/CCL will be off depth to the open hole log so the perms may have to be corrected to the cased hole log.

Note: If any Delaware zones are to be permanently abandoned, we are required to set CIBP + 35' cement at 6150' above the Delaware 1 zone (per conversation with Mr. Wesley Ingram with BLM, this will be considered the required plug for the top of the Bone Spring due to it's proximity to the top of BS at 6268').

**Procedure:**

1. RU lubricator, run gauge ring to 10375', set CIBP + 35' cement at 10375', set CIBP + 35' cement at 9800' (top of Wolfcamp), set CIBP + 35' cement at 7800' and test casing to 2000 psi.
2. RU packoff and run GR/CCL from 6500' to 3100'. RU lubricator and perf Delaware 1 with 3-3/8" or 4" casing gun loaded 2 spf, any phasing at the depths below (inclusive).

Delaware 1: 6172-76', 6196-6200' (20)

3. RIH with packer assembly, set packer, open bypass, pump acid close to packer, close bypass and acidize with 1000 gals NE Fe 7.5% HCl acid at 3-5 bpm rate while limiting treating pressure to 6000 psi and holding 1000 psi on annulus. Drop 40 ball sealers throughout acid. Swab test for oil show.
4. If decision made to frac, install frac valve with BOP on top, get off on/off tool or open bypass, swab most of fluid out of casing, TOOH and frac as follows. Pump low gel XL carrying 80,000 lbs 1630 sand (last 1/2 expedite resin coated, 5 ppg max) down casing at 20-25 bpm.
5. Leave well shut in overnight. Bleed pressure off and PWOP.

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**Note:** Delaware 1 is best looking Delaware zone in well. If it turned out poorly, decision might be made not to test any more Delaware zones—let's discuss before going any further with this procedure.

6. When decision is made to move uphole, plug back method will be determined based on results of previous zone(s). If Delaware 1 is to be abandoned, set CIBP + 35' cement at 6150' (this will be considered the required plug for the top of the Bone Spring due to it's proximity to the top of BS at 6268'). RU lubricator and perf Delaware 2 with 3-3/8" or 4" casing gun loaded 1 spf, any phasing at the depths below.

Delaware 2: 5942-5955', 6010-23' (28)

7. RIH with packer assembly, set packer, open bypass, pump acid close to packer, close bypass and acidize with 1500 gals NE Fe 7.5% HCl acid at 3-5 bpm rate while limiting treating pressure to 7500 psi and holding 1000 psi on annulus. Drop 50 ball sealers throughout acid. Swab test for oil show.
8. If decision made to frac, install frac valve with BOP on top, get off on/off tool or open bypass, swab most of fluid out of casing, TOOH and frac as follows. Pump low gel XL carrying 30,000 lbs 1630 expedite coated sand (4 ppg max) down casing at 12-15 bpm.
9. Leave well shut in overnight. Bleed pressure off and PWOP.
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10. Plug back method will be determined based on results of previous zone(s). RU lubricator and perf Delaware 3 with 3-3/8" or 4" casing gun loaded 2 spf, any phasing at the depths below.

Delaware 3: 5751-5760' (20)

11. RIH with packer assembly, set packer, open bypass, pump acid close to packer, close bypass and acidize with 500 gals NE Fe 7.5% HCl acid at 3-5 bpm rate while limiting treating pressure to 7500 psi and holding 1000 psi on annulus. Drop 10 ball sealers halfway through acid. Swab test for oil show.
12. If decision made to frac, install frac valve on tubing, and frac as follows. Pump low gel XL carrying 7,500 lbs 1630 white sand (all expedite resin coated, 4 ppg max) down tubing at 8-10 bpm. As soon as sand concentration falls below 4 ppg on last stage, bypass blender and go to quick flush. Flush within 100' of top perf. Have pump on backside available to reverse circulate sand out of well if screenout or packer failure occurs.
13. Leave well shut in overnight. Bleed pressure off and PWOP.
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14. Plug back method will be determined based on results of previous zone(s). RU lubricator and perf Delaware 4 with 3-3/8" or 4" casing gun loaded 2 spf, any phasing at the depths below.

Delaware 4: 4862-4870' (18 shots)

15. RIH with packer assembly, set packer, open bypass, pump acid close to packer, close bypass and acidize with 500 gals NE Fe 7.5% HCl acid at 3-5 bpm rate while limiting treating pressure to 7500 psi and holding 1000 psi on annulus. Drop 10 ball sealers halfway through acid. Swab test for oil show.
16. If decision made to frac, install frac valve on tubing, and frac as follows. Pump low gel XL carrying 7,500 lbs 1630 sand (all expedite resin coated, 4 ppg max) down tubing at 8-10 bpm. As soon as sand

concentration falls below 4 ppg on last stage, bypass blender and go to quick flush. Flush within 100' of top perf. Have pump on backside available to reverse circulate sand out of well if screenout or packer failure occurs.

17. Leave well shut in overnight. Bleed pressure off and PWOP.

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18. Plug back method will be determined based on results of previous zone(s). RU lubricator and perf Delaware 5 with 3-3/8" or 4" casing gun loaded 2 spf, any phasing at the depths below.

Delaware 5: 3500-3508' (18 shots)

19. RIH with packer assembly, set packer, open bypass, pump acid close to packer, close bypass and acidize with 500 gals NE Fe 7.5% HCl acid at 3-5 bpm rate while limiting treating pressure to 7500 psi and holding 1000 psi on annulus. Drop 10 ball sealers halfway through acid. Swab test for oil show.

20. If decision made to frac, install frac valve on tubing, and frac as follows. Pump low gel XL carrying 15,000 lbs 1630 sand (all expedite resin coated, 4 ppg max) down tubing at 10-12 bpm. As soon as sand concentration falls below 4 ppg on last stage, bypass blender and go to quick flush. Flush within 100' of top perf. Have pump on backside available to reverse circulate sand out of well if screenout or packer failure occurs.

21. Leave well shut in overnight. Bleed pressure off and PWOP.

Kbc/collinoscopy 1 bs del

2-1 22 1/2  
2-1 22 1/2  
2-1 22 1/2

12-30, 1964 Cycled white  
12-30, 1964 Cycled white  
12-30, 1964 Cycled white

1577

17 1/2

DV 1989'

124<sup>th</sup>

 $7\frac{1}{8}$ 

CIBP + 35' out 10630'

CLIP + cut 11-55'

2000-5000

Pl. 175

9.86.21.15

FC 12358'

20" @ 315'

100 lbs to + 350 4LC  
+ 300 "C" + 17 jds  
std. dev.

1778' 01 183'

1050 HLG + 300°C  
(Circ 152.54)

TAC 200' TS

8 7/8" @ 3425'

1st: 430 HLC + 250 "C." (circ 603x)

2<sup>nd</sup>: 600 uLe + 100°C (aire 110 sec)

DV 9769'

10335-10774 (20) Penn State

10837-11012 (18) 61a

1917-18

11237-42  
11239-42 (Gp F)  
11240-42  
U. M. ...

11-970-791  
12-970-793

12-14-77  
12-16-77 L. Rapp'

5' @ 1240'

12400

[illegible]

Bus Free

12. (1994, 1000) (3000)

St. Louis, Mo., Sept. 10, 1901.

[illegible]

174

DY 1989

10

 $-\frac{1}{2}$ 

100 lbs + 350 lbs  
+ 50 lbs + 17.5

1050 HLC + 300" C  
(Core 152 ft)

TWC 2000' TS

87/8 23425

1st: 420 HLC + 250°C (C<sub>10</sub> to 600x)

2<sup>nd</sup>: 600 HLC + 100 'C' C = 14 10 sec

Q: 6172-6202' (29') D21 1

Step: 5th & 7th

$$210P + 35' \text{ out} \pm 7200'$$

CEA +  $\text{S}_{\text{Ca}}^{2+}$  + PDS'

44.57.1 11315'

Chap. 1. 1. 1. 1.

249. 500 22.

Pikeville

11-1-5

12-1-56

DV 9767

10400-13775 (20) P. 54

104-11012-12

11-24-50

379-10' 12-100  
712-32' 12-100

1947-53

11. 14-471  
12. 76-471

1240

AFTER

12 101 1 1000  
12 101 1 1000