

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.
N.M. Div-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

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)

1980 FNL 1980 FWL, SEC. 7-T21S-R25E, UNIT F

5. Lease Serial No.

NM-99018

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

ZEBRA "FF" FEDERAL #1

9. API Well No.

30-015-32056

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

EDDY CO., NM

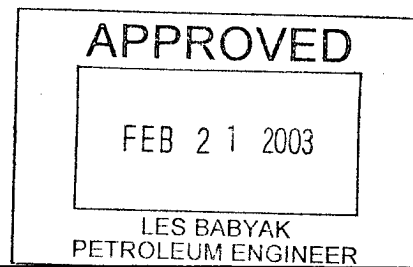
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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 type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" 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 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.)

PROPOSAL TO CONVERT THE ABOVE WELL TO SALT WATER DISPOSAL IN ACCORDANCE WITH OCS'S ADMINISTRATIVE ORDER SWD-869 (WORKOVER PROCEDURE ATTACHED).

SUBJECT TO
LIKE APPROVAL
BY NMOCD



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

DIANA J. CANNON

Title

PRODUCTION ANALYST

Signature

Date

2/12/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

**Zebra FF Fed. 1
Sec. 7 T21S R25E
Eddy Co., NM**

**Completion Procedure 3
Canyon, Wolfcamp, Bone Spring
31 January 2002**

Basic Data:

8-5/8" @ 1505'

7" @ 1020'

4-1/2" @ 10390' TOC @ 5600' temp. survey

4.5"/11.6ppf/N80/LTC Burst=7780 psi, 6224 psi at 80% Nom. ID=4.000" Drift ID=3.875"

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: Test the Canyon dolomite, Wolfcamp lime and 3rd Bone Spring sand until commercial production established.

Comment: On well flowbacks and tests, be sure to use all steel lines. Don't use rubber/flexible lines due to safety reasons.

Procedure:

1. Kill well and TOOH with tools. RU lubricator and set CIBP + 35' cement above Atoka at 9500'. Test CIBP to 2000 psi. RIH with tubing and spot 500 gals. double inhibited (145° F) Ne Fe 20% HCl acid at 8310'. TOOH.

2. RU lubricator, pressurize casing to 1000 psi and perf the Canyon with 2 spf at any phasing from 8320-8325' (open hole logs)/ 8318-8323' (collar log) using a 3-3/8" casing gun. If well doesn't go on vacuum after perfing, slowly (1/4 bpm?) ease spot acid into perfs.

Perfs picked from Halliburton Spectral Density/Dual Spaced Neutron Log run on 29 Dec 2001.

3. RIH with packer, tree up and swab test Canyon. Be alert to possibility of gas when TIH (if Canyon went on a vacuum). If well gets gassy, run a slow, steady stream of water into the casing while TIH after initially knocking the gas down with a slug of water.

4. If necessary to acidize, pump 1500 gals. NE Fe 20% HCl acid at 2 bpm rate. Well should treat at or near a vacuum. If it doesn't, limit treating pressure to 4500 psi. Corrosion inhibit acid for BHT of 145 deg. F.

5. Flow/swab well. If Canyon yields small (or better) oil or gas shows, decision may be made to put it on test with a sub pump and generator. If this is the case, RDMO and await SWD availability.

6. When/if decision made to leave Canyon, RU lubricator and set CIBP + 35' cement above Canyon at 8275'. Test CIBP to 2000 psi.

7. RU lubricator and perf the Wolfcamp with 2 spf at 180° phasing from 7847-7849' (open hole logs)/ 7845-7847' (collar log) using a 3-3/8" casing gun.

8. RIH with packer, tree up, swab tubing down and acidize with 1000 gals. NE Fe 15% HCl inhibited for 140° F at 3-5 bpm while limiting surface pressure to 7500 psi. No ballsealers needed.

9. Flow/swab test well.

10. When/if decision made to leave Wolfcamp, RU lubricator and set retainer at 7800'. Squeeze Wolfcamp with 50-100 sx. Class C or H neat cement. The reason for squeezing is that the Canyon may be used for SWD someday and all perfs uphole from Canyon will have to be squeezed to get pressure integrity.

7. RU lubricator and perf the 3rd Bone Spring Sand with 1 spf at any phasing as shown below using a 3-3/8" casing gun.

3rd Bone Spring: 6970', 6979', 7000', 7011', 7014', 7028', 7031', 7038', 7088', 7091', 7096', 7102',
7122', 7125', 7167' (15) Open hole logs

6968', 6977', 6998', 7009', 7012', 7026', 7029', 7036', 7086', 7089', 7094', 7100',
7120', 7123', 7165' (15) Collar log

8. RIH with packer, tree up, swab tubing down and acidize with 1500 gals. NE Fe 7-1/2% HCl inhibited for 130° F at 3-5 bpm while limiting surface pressure to 7500 psi. Drop 30 ballsealers spaced evenly throughout job.

9. Flow/swab test well. If get good show of oil or gas, decision will be made whether to frac. If we do frac, will frac down casing at 40 bpm and use approx. 150,000 to 200,000 lbs. 16/30 sand.

-----Additional procedures will be issued if/as necessary-----

Kbc/zebra 1c

Well: Zebra FF Fed. 1

Zero: 21' AGL

Location: 1980' FNL, 1980' FWL
F-7-21s-25e
Eddy NM

KB : 3512'

GL : 3491'

Casing Program:

Size	Wt.	Grade	Conn.	Depth
8 5/8	24	J55	STC	1505'
7"	23	S95	FT	1020'
4 1/2"	11.6	N95-110		887' ±
	11.6	N80		9503' ±
	11.6	N95-110		10390'
2 3/8"	4.7	N80	EVE	9475' ±

307 jts

Model 406' ± (500 x "C")
TDC 424'

7 1/23/595/FJ @ 1020'
150" C"

$8\frac{5}{8}" @ 1505'$
 $100 \text{ Thix} + 400 \text{ HLC} + 200 \text{ C}$
 $8 \text{ s } 1\frac{1}{2} \text{ s } 1" = 372 \text{ s } \times \text{C} \text{ Circ } 20 \text{ s } \times$

TOC = 5600 'TS

"BEFORE"

Atokq

Morrow

- Sketches Not To Goals -

KARLHIN4 /

Well: Zebra FF Fed. 1

Zero: 21' AGL

Location: 1980' FNL, 1980' FWL
F-7-215-25E
Eddy NM

KB: 3512'
GL: 3491'

Casing Program:

Size	Wt.	Grade	Conn.	Depth
8 5/8"	24	J55	STC	1505'
7"	23	S95	FJ	1020'
4 1/2"	11.6	M95-110		887' ±
	11.6	N80		9503' ±
	11.6	M95-110		10390'
2 3/8"	4.7	N80	EVE	

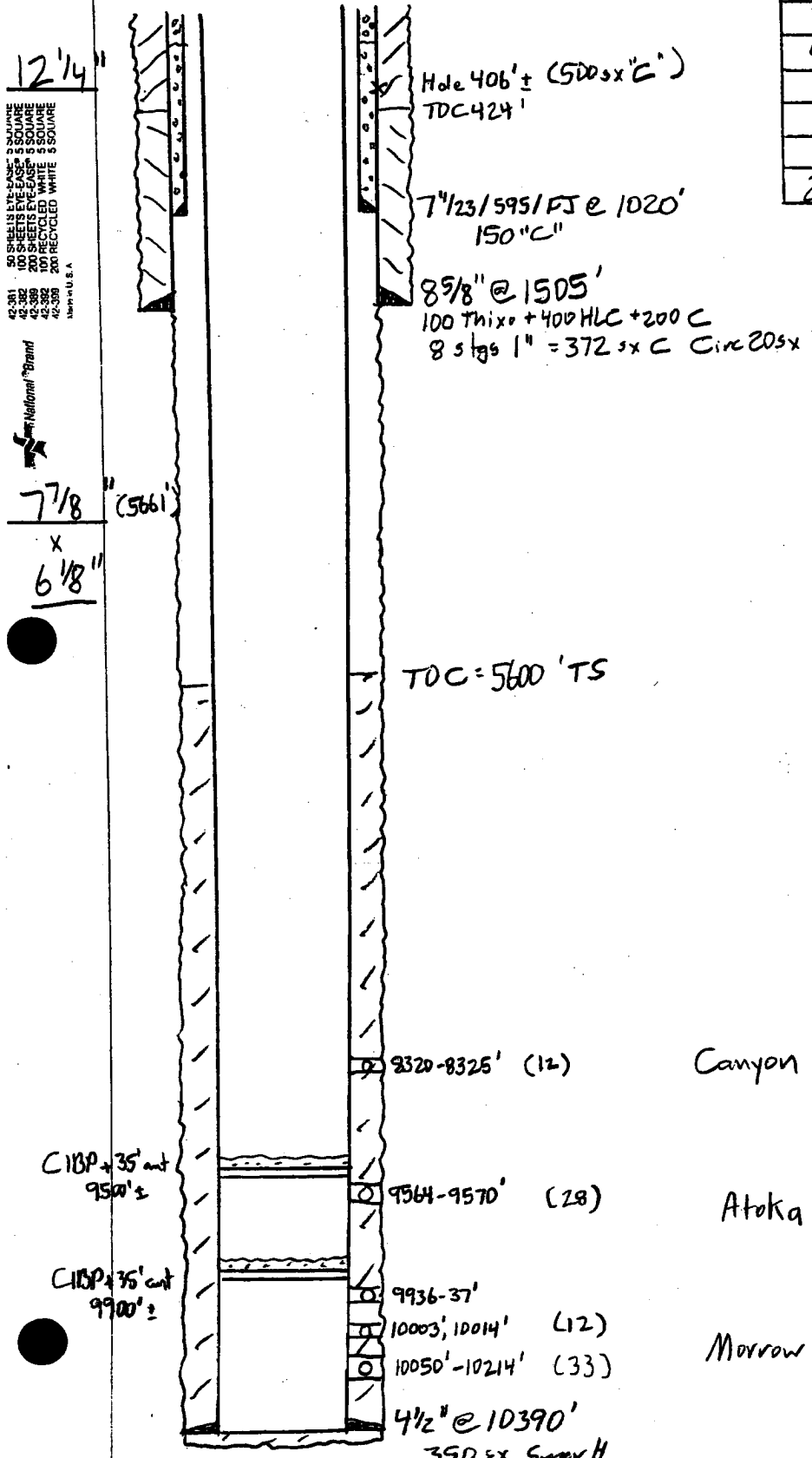
12 1/4"

50 SHEETS EYE-GLASS, 2 SQUARE
100 SHEETS EYE-GLASS, 5 SQUARE
200 SHEETS EYE-GLASS, 5 SQUARE
200 SHEETS EYE-GLASS, 5 SQUARE
200 RECYCLED WHITE, 5 SQUARE
42-381
42-382
42-389
42-392
42-393
42-398
Made in U.S.A.



7 7/8" (5661')

x
6 1/8"



Hole 406' ± (500' x 150' C)
TDC 424'

7 1/2" / 595 / FJ @ 1020'
150" C

8 5/8" @ 1505'
100 Thix + 400 HLC + 200 C
8 slugs 1" = 372' x C Circ 20' x

TDC = 5600' TS

8320-8325' (12)

Canyon

9564-9570' (28)

Atoka

9936-37'

10003, 10014' (12)

Morrow

10050'-10214' (33)

4 1/2" @ 10390'
350' x Synt H

10390'

- Sketch Not To Scale -

"AFTER"

KACallins /