

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name

Mark Owen

1. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER

2. Name of Operator

Marathon Oil Company

8. Well No.

4

3. Address of Operator

P.O. Box 552, Midland, TX 79702

9. Pool name or Wildcat

Drinkard/Wantz ABO

4. Well Location

Unit Letter K : 1980 Feet From The South Line and 1980 Feet From The West Line

Section 35 Township 21S Range 37E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

GR 3371'

11.

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

REMEDIAL WORK ☐

ALTERING CASING ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

PULL OR ALTER CASING ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

OTHER: Add perms & acidize Drinkard/Wantz ABO Formation ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Marathon Oil Company initiated operations on 9/4/91 to add additional perforations and acidize the Drinkard/Wantz Abo formations in the above referenced well.

9/4/91 - Test safety anchors. RU PU. POOH w/rods & pump. Killed well w/20 B0. ND tree. NU 6" triple manual BOP. (600 series - 2000 @ wellhead both csg valves 2000#.) Released pkr. RIH & tagged. Tally out of hole w/2 3/8" J-55 tbg & 4" Lok-Set pkr & 5 jts 2 3/8" tailpipe. Tagged @ 7268'. RIH w/5 1/2" Halliburton RBP to 540'. Set RBP & POOH w/tbg. Blind rams would not close. SDFN.

(See Attachment

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Carl A. Bagwell

TITLE Engineering Technician

DATE 1/10/92

TYPE OR PRINT NAME

Carl A. Bagwell

TELEPHONE NO. 915/682-1626

(This space for State Use)

Orig. Signed by
Paul Kautz
Geologist

JAN 30 '92

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Attachment
Marathon Oil Company
Mark Owen #4

- 9/5/91 - Repaired BOP. Test blind rams to 1000 psig. Held OK. POOH w/RBP. RIH w/Halliburton R-4 pkr on 2 3/8" tbg. Test 2 3/8" rams to 1000 psig. Held OK. Picked up 2 3/8" x 2 7/8" x-over & 1 jt 2 7/8" tbg. Test 2 7/8" rams to 1000 psig. Held OK. POOH w/tbg & pkr. RIH w/3 1/4" bit & 2 1/4" bulldog bailer on 2 3/8" & 2 7/8" N-80 tbg. Tagged @ 7265'. Drilled & spudded for 2 1/2 hrs. Cleaned out to 7278' (btm perf 7274'). Bit torquing up. SOOH w/tbg. SDFN. Used total of 160 bbls 2% KCl wtr to kill well & work bailer.
- 9/6/91 - POOH w/bailer & bit. Rec. scale in bailer. Test full lubricator to 1000 psig w/flange. RU Wedge. RIH w/2 1/8" perf gun w/180° phasing. Perf'd 4" liner @ 6778', 910', 21', 36', 42', 44', 54', 60', 7016', 28', 42', 73', 7106', 15', 20', 30', 44', 51' & 89' w/2 JSPF (38 holes). Perf guns quit firing. RIH w/40 jts killstring. SDFN.
- 9/7/91 - POOH w/killstring. RIH w/2 1/2" perf gun @ 180° phasing & finish perf @ 6779', 96', 7058', 7135', 61' & 78' w/2 JSPF - 12 holes (two day total - 50 holes). RD Wedge. RIH w/4" Halliburton RTTS pkr on 2 3/8" & 2 7/8" N-80 tbg. Hydrotested tbg to 8000 psig below slips. Set pkr @ 6486'. RU Dowell-Schlumberger. Acidized perfs 6552'-7274' (old & new perfs) w/1,000 gals 20% Neat HCl & 19,000 gals Leakoff Control Acid (20% HCl). Pumped LCA acid in 4 stages w/block consisting of gelled brine w/2000# rock salt, 2000# benzoic acid flakes & 50-7/8' RCN balls. Saw good divert. Max=4000 psig. Avg=3250 psig @ 15 bpm. ISIP=Vac. SWIFN.
- 9/8/91 - SITP = 165 psig. Blew to 0 psig in 25 mins. No flow. RIH w/swab. FL = 4800'. Made 18 swab runs in 6 hrs. Recov'd 77 BW. EFL 4800'. RU Jarrel Ser. RIH w/BHP bomb making stops going in the hole. Left bomb hanging @ 6480'. SWI f/BHP buildup.
- 9/9/91 - Well SI f/BHP buildup.
- 9/10/91 - SITP = 365 psig. POOH w/BHP bombs. Reran bomb taking gradient stops. POOH & RD Jarrel. POOH laying down 2 7/8" & 2 3/8" N-80 workstring & pkr. RIH w/4" Baker Lok-Set pkr, 1.50 profile nipple & sliding sleeve on 2 3/8" J-55 tbg. Set pkr. Released pkr to respac. Worked w/pkr & attempted other pkr settings. Pkr would not set. SDFN.
- 9/11/91 - POOH w/tbg & pkr. Found small pcs of steel wedged in pkr. Redress pkr & RIH on 2 3/8" J-55 tbg w/1.5 F nipple & slicing sleeve. Set pkr @ 6512'. ND BOP. NU tree, Could not swab. Cutting paraffin on tbg. SDFN.
- 9/12/91 - Cut paraffin & hot oiled well. Started swabbing w/FL @ 4800'. Made 27 swab runs in 8 hrs. Recov'd 10 BO & 110 BW. EFL = 4800'. SWIFN.
- 9/13/91 - SITP = 120 psig. SICP = 375 psig. RIH w/swab. FL 4800' FS. Swabbed 20 BO & 53 BW. FL - scattered from 5600'. F nipple @ 6507'. RU Jarrel Ser. RIH w/BHP bombs. Made flowing gradient stops. Left bomb @ mid perfs 6370'. SWI f/BHP BU.

(Continued)

Attachment
Marathon Oil Company
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- 9/14/91 - POOH w/BHP bomb. Reran bombs for static gradients RD Jarrel Ser. RIH w/pump on 3/4" x 7/8" steel rods. Hang well off. RDMO PU.
- 9/15/91 - Shut down. Waiting on pumping unit.
- 9/16/91 - Shut down. Waiting on pumping unit.
- 9/17/91 - Disassemble & move off National 114 pumping unit. Set Lufkin M228 unit.
- 9/18/91 - Could not hang well on. Discovered sampson post bent. Supplier notified & will inspect unit.
- 9/19/91 - Supplier will reset & relevel unit & extend warranty.
- 9/20/91 - SD - waiting on weather.
- 9/21/91 - Shut down. Waiting on location to dry up.
- 9/22/91 - Shut down. Waiting on location to dry up.
- 9/23/91 - SDFWE.
- 9/24/91 - Shim up & straighten pumping unit. Unit straightened up & appears to run OK.
- 9/27/91 - Well not pumping. Appears to be gas locked. Lowered pump & left well tagging btm.
- 9/28/91 - Well not pumping. RU PU. POOH w/rods & pump. Found thick gel type material in tbg & pump. Swabbed on well 4 hrs. Rec'd 7 BF & cleaned well up. RIH w/pump & rods. Left well pumping to test tank @ battery.
Rod Record
1 1/4" x 22 polished rod w/12' liner
84- 7/8" steel sucker rods
174- 3/4" steel sucker rods
2' x 3/4" pony rod
1 1/4" bore rod pump w/6" strainer nipple
- 9/29/91 - Well pumped 5 B0 & 11 BW in 16 hrs.
- 9/30/91 - Well made 0 BF in 24 hrs.
- 10/2/91 - Well pumped 8 B0 & 2 BW in 24 hrs.
- 10/2/91 - Well pumped 0 BF in 24 hrs. Drinkard (Upper Zone) flowing @ rate of 127 MCFPD.
- 10/3/91 - Well pumped 8 B0 & 2 BW in 24 hrs. Drinkard (Upper Zone) flowing 127 MCFPD.
- 10/4/91 - Well pumped 2 B0 & 2 BW in 24 hrs.

(Continued)

Attachment
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10/5/91 - Well pumped 0 BF in 24 hrs.

10/6/91 - Well pumped 0 BF in 24 hrs.

10/7/91 - Well pumped 0 BF in 24 hrs.

FINAL REPORT.