

Submit 3 Copies To Appropriate District

Office

District I

1625 N. French Dr., Hobbs, NM 87240

District II

1301 W. Grand Ave., Artesia, NM 87010

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-103

May 27, 2004

WELL API NO.

30-015-28384

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

OCD-ARTEZIA - 9706

7. Lease Name or Unit Agreement Name:

North Indian Basin Unit

NMNM709998A

8. Well Number

20

9. OGRID Number

14021

10. Pool name or Wildcat

Indian Basin Morrow (78960)

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.)

1. Type of Well:

Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Marathon Oil Company

3. Address of Operator

P.O. Box 3487 Houston, TX 77253-3487

4. Well Location

Unit Letter K : 1650 feet from the South line and 2310 feet from the West line

Section 2 Township 21S Range 23E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

3736'

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: Complete to Morrow ☒

13. 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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Marathon Oil Company has completed operations to bring the North Indian Basin Unit No 20 on production from the Morrow formation. Please see attachment for details of perforation, and frac jobs.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Charles E. Kendrix

TITLE Reg Compliance Rep DATE 06/08/2007

Type or print name Charles E. Kendrix

E-mail address: cekendrix@marathonoil.com

Telephone No. 713-296-2096

For State Use Only **FOR RECORDS ONLY**

JUN 13 2007

APPROVED BY _____ TITLE _____ DATE _____

Conditions of Approval, if any:

North Indian Basin Unit No 20 Complete to Morrow Formation

05/04/2007 MIRU PU. RIH w/ 7" casing scraper & bit on 75 jts 2 3/8" tbg. SI well.

05/07/2007 Pick up RIH w/ 149 jts 3 1/2" L-80 tbg. Tag **top of liner @ 7195'**. POH laid down 7" csg scrapper & bit. PU RIH w/ 3 7/8" bit on 4 1/2" csg scrapper on 75 jts 2 3/8" tbg, and 149 jts 3 1/2" tbg. Tag cement @ 7635. Clean out to 7672" SI well.

05/08/2007 Drill out cement to **float collar @ 7672'** on scab liner. Drill and clean liner to **9420'**, unable to drill past this point. POOH w/ bit. Bit worn out. Laid down 2 3/8" tbg. RIH w/ 3 1/2" tbg for kill string. SI well.

05/09/2007 POH w/ killstring. RIH w/ new bit, on 73 jts 2 7/8" L-80 tbg. Cont in hole w/ 3 1/2" tbg to 9420'. Drill out to **float collar on original liner @ 9558'**. Drill collar and clean out to **PBTD @ 9608'**. **Bottom of liner @ 9660'**.

05/10/2007 RU Halliburton acid trucks. Spot 1000 gals 15% HCL down tbg. Could not pump. Reverse acid back to truck. Spotted acid down casing annulus and reversed through tbg due to partially plugged bit jets. Circ Clean RD Halliburton. Pickled tubing only. SI well.

05/11/2007 POOH w/ bit and mill. RIH w/ killstring. SI well.

05/14/2007 Strapped Tbg & 3 3/8" tubing guns. RIH w/ guns, firing head, sub, ported sub, glass disc, 2' sub, WN profile, PLS packer, on/off tool, 2 jts 2 3/8" tbg, XO, 71 jts 2 7/8" tbg, XO, 7104.74' of C 1/2" L-80 tbg. Hydrottested in hole to 9000 psi. RIH w/ ccl and gamma tool to correlate on depth using Baker Atlas OHL.SI well.

05/15/2007 Picked up tbg 19.3' to get on depth w/ logs. Nipple up FMC 5000 series frac assembly. Set pkr and nipple up frac valve. Load casing w/ 7% KCL water and test pkr to 1000 psi. RU Halliburton Nitrogen. Test lines to 2000 psi.. Opened frac valve and loaded tbg, pressured up to 1500 psi. Attempted to blow down discharge lines, but lines would not blow down frac valve leaking. SD w/ attempt to blow down over night. SI well.

05/16/2007 Changed out frac valve. RU HES N2. Press up tbg to 1500 psi. Dropped bar to perforate. Guns did not fire. WO slick line. Fished firing bar. SI Well.

05/17/2007 RU HES coiled tbg unit. Installed Baker Pneumatic actuator unit. RIH w/ coiled tbg and tool. RU N2 unit & jetted f/ 9300' down to vent assemble glass actuator. Ensured glass ws severed. Cont below vent to fill above firing head. Jetted appx 6' fill off firing head. Press tbg to 1500 psi w/ N2. Fired guns w/ Baker actuator tool. TP climbed to 3000 psi in 20 min. POOH w/ coil tbg. Released Halliburton N2 and CT crews. Opened well to flowback. **Perforated w/ 3 3/8" EHC w/ 25 gram charges in 60 °phasing 6 JSPF, in 2 intervals 9480'-9488 & 9492-9512'. 168 holes.**

05/19/2007 RU Halliburton frac equip. Test lines to 11000 psi. Pumped CO2 frac treatment w/ 20/40 Ceramic Proppant as follows.

Stage 1	Pad	11000 gals	50% Q foam
Stage 2	.5# Propant	2500 gals	50% Q foam
Stage 3	1# Propant	3000 gals	50% Q foam
Stage 4	1.5# Propant	4000 gals	50% Q foam
Stage 5	2# Propant	5000 gals	50% Q foam
Stage 6	2.5# Propant	5000 gals	50% Q foam
Stage 7	3# Propant	2500 gals	50% Q foam
Stage 8	Flush	3300 gals	50% Q foam

Shut down Halliburton. Initial SI TP 3200 psi. Bled down in 30 minutes.

05/20/2007 Initial TP 3200 w/ est 610 bbls fluid to recover. We flowed back 814 bbls water. Well loading up and dying. SI well for 7 hrs. Well built up to 400 psi in 3 hours.

05/21/2007 RU Swab. Made 18 swab runs in 3 1/2" tbg. IFL @ 1400'. FL after swabbing @ 1800'. SI Well.

05/22/2007 RU Arc Wireline. RIH w/ sinker bar tagged TD @ 9510. Possible fill over bottom perf @ 9512'. POOH w/ sinker bar. RIH w/ X dart to profile nipple @ 9426'. Set Dart Load and test tbg to 1000 psi. RD Arc. Released tbg f/ on/off tool. Tripped out of hole w/ work string. Laying down 3 1/2" tbg. SI well.

05/23/2007 Cont out of hole w/ work string. RIH w/ on/off tool on 183 jts 2 3/8" tbg. SI well.

05/24/2007 Cont in hole w/ 2 3/8" tbg. Latched on w/ on/off tool. Load and test tbg to 1000 psi. Load casing annulus w/ 35 bbls packer fluid. RU Arc wireline. RIH w/ retrieving tool to setting tool. Allowed pressure to equalize. TIH to dart -pulled dart. RD wireline. SI Well.

05/25/2007 TP=1750 psi. Blew dn to frac tank for 6 hrs. Unloaded 6 bbls water w/ FTP=25 psi. SI well. Well waiting on surface facility set up.

05/31/2007 Well turned to production facilities @ 5:00 pm.