

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
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

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-38504
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. V-186
7. Lease Name or Unit Agreement Name Rock Island 16 St
8. Well Number 2 H
9. OGRID Number 372098
10. Pool name or Wildcat Atoka Veso Glorietta

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 Permian LLC

3. Address of Operator
5555 San Felipe Houston, TX 77056

4. Well Location

Unit Letter D : 510 feet from the N line and 330 feet from the W line

Section 16 Township 18S Range 26E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3381.6 G.R.

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 COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

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.

Not. f, Nmoc 24 Hrs before MZEU

1. CIBP @ 1950' w/35sx.
2. 60sx P.S & tag 1020'-920'.
3. 40sx PS @ 100' cmt to surf. Verify. Install DHM

RECEIVED

JUN 18 2018

DISTRICT II-ARTESIA O.C.D.

P&A mud between all plugs.
Closed loop. All fluid to licensed facility.

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 *Brody Pinkerton* TITLE AGENT DATE 6-13-18

Type or print name Brody Pinkerton E-mail address: Brody@maverickwellpluggers.com Telephone No. 432-458-3780

For State Use Only

APPROVED BY: *[Signature]* TITLE *State Agt* DATE 6-21-18

Conditions of Approval (if any):

MAVERICK WELL PLUGGERS

COMPANY: *MARATHON*
 WELL NAME: *Rock Island*
 WELL #: *16 ST.*
 COUNTY: *Eddy*
 LEASE ID: *K-186*

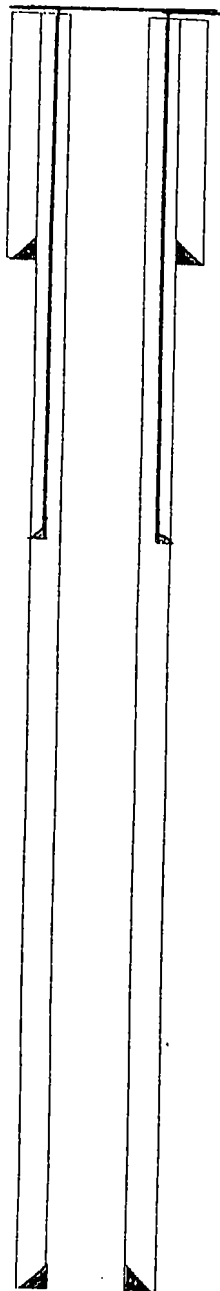
SURFACE CASING				
OD	WT/FT	GRADE	SET AT	TOC
<i>16</i>	<i>NR</i>	<i>NR</i>	<i>90</i>	<i>Surf</i>
INTERMEDIATE CASING				
OD	WT/FT	GRADE	SET AT	TOC
<i>9 5/8</i>	<i>36</i>	<i>J-55</i>	<i>970</i>	<i>Surf</i>
PRODUCTION CASING				
OD	WT/FT	GRADE	SET AT	TOC
<i>7"</i>	<i>26</i>	<i>L-80</i>	<i>2861</i>	<i>Surf</i>
TUBING				
OD	WT/FT	GRADE	SET AT	TOC
<i>4 1/2</i>	<i>13.5</i>	<i>L-80</i>		<i>NR</i>

Liner

2466' - 6935'

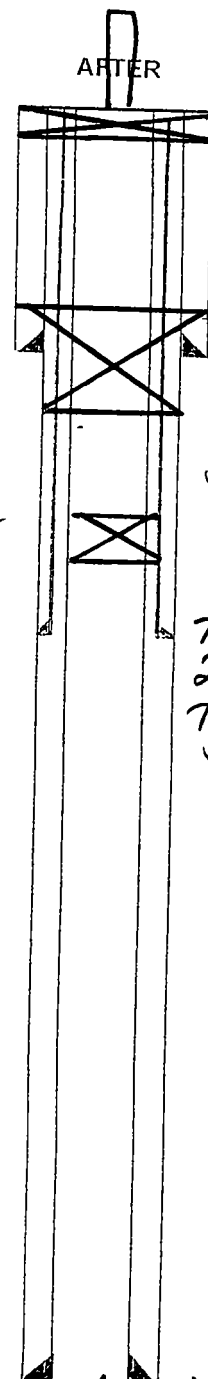
D.H.M.

BEFORE



TD@

AFTER



*40SK
 P.S @ 100'
 to Surf. Verify*

*40SK
 P.S + TAG,
 1020' - 920'*

*7" CIBP
 1950'
 W/35SX*

*9 5/8 @
 970'
 TOC
 Surf*

*7" @
 2861'
 TOC
 Surf*

TVD @ EOC 2602' TD @ 6962'

Nadel and Gussman Permian

Rock Island 16 State #2H
Sec. 16-18S-26E
Eddy Co., New Mexico

Surface Location: 510' FNL, 330' FWL
BHL: 331' FNL, 332' FEL
API # 30-015-38504

16" @ 90'
Cond

12 1/4" hole
Surface - 970'

8 3/4" Hole
970'-2867'

8 5/8" / 32# @
2600'

Pump @ 1910'
TAC @ 1965'

KOP @ 2,003'

7" 26# L-80 @ 2861'

12/23/2013

9 5/8" / 36#
J-55 STC
@ 970'

TBG RODS PUMP

TUBING EQUIP
59 JTS 2 7/8" TBG
LIFT SUB 76 - 1" RODS
TAG BAR 6', 4" PONY ROD
TAC @ 1938' 16" PR
MECH SN W/ 60' GA
2 4' SLOTTED SUBS
4 JOINTS
BP/EOY @ 2081'

Liner Hanger @ +/- 2,466 MD; 2,420' TVD

7" shoe @ +/- 2,861' 2,596' TVD

EOC @ +/- 2,985' MD, 2,602' TVD

KOP @ +/- 2,003' 10 deg/100ft curve
Lateral TD 6,962' 2,652' TVD

MD @ End of Curve = 3,000', 90 Degrees

TVD @ EOC = 2602'

Casing Program

9 5/8" 36# J-55/ST&C
7" 26# L-80/ BTC (1023 ft) & LTC
Liner Hanger
4 1/2" 13.5# L-80/LT&C

0 - 970'

0 - 2861'

2,466'

2,2466' EOL 6,935 (4,243')

Casing/packer plus tools

Cement Program

9 5/8" 125 sx "C"; 400 C thixad middle, 200 sx Class C Tail, 1" 200 sx
7" 100 sx Class C lite Lead, 400 class C Tail Circulated cmt

Zone Tops

Grayburg	610'
San Andres	945'
Glorieta	2310'
Yeso	2350'

PORT DEPTH (MD)

1	6869
2	6698
3	6507
4	6287
5	6070
6	5871
7	5671
8	5472
9	5275
10	5076
11	4878
12	4680
13	4481
14	4282
15	4086
16	3888
17	3692
18	3495
19	3296
20	3097

WELL HISTORY

GET WELL FROM HEYCO 1/1/2015, WELL SI
AUG 2015 PULL WELL, HW W/ 120 BBLS
W/ PARAFFIN DISPERSANT, BIOCIDES, AND
SURF, RUN NETZSCH AS SHOWN, PUMP
CONSTANT = 16x6.29 BBL/100 RPM, RWTP,
MADE 85 BW IN 4 DAYS THEN QUIT PUMPING
WELL IS SHUT-IN

6 1/8" HOLE
2,652' TD (+/- 6962')

Packers Plus: 20 stages, largest ball size 3.625

MD = 6,962' proj to bit
TVD = 2,652'

Prior
to
P&A

CONDITIONS FOR PLUGGING AND ABANDONMENT

District II / Artesia N.M.

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, **Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If the well is not plugged within 1
7. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
8. **Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.**
9. Produced water **will not** be used during any part of the plugging operation.
10. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
11. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
12. **Class 'C' cement will be used above 7500 feet.**
13. **Class 'H' cement will be used below 7500 feet.**
14. **A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged**
15. **All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing**

16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. **A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.**
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, **(WOC 4 hrs and tag).**
19. **No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.**
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
 - A) Fusselman
 - B) Devonian
 - C) Morrow
 - D) Wolfcamp
 - E) Bone Springs
 - F) Delaware
 - G) Any salt sections
 - H) Abo
 - I) Glorieta
 - J) Yates.
 - K) **Potash---** (In the R-111-P Area (Potash Mine Area), a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, **WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.**
21. **If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing**

DRY HOLE MARKER REQUIRMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

1. Operator name 2. Lease and Well Number 3.API Number 4. Unit Letter 5. Quarter Section (feet from the North, South, East or West) 6. Section, Township and Range 7. Plugging Date 8. County (SPECIAL CASES)-----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)