

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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. 30-025-06823
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name W. S. Marshall "B"
8. Well No. 5
9. Pool name or Wildcat Paddock
10. Elevation (Show whether DF, RKB, RT, GR, etc.) GL 3411'

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER
2. Name of Operator Marathon Oil Company
3. Address of Operator P. O. Box 552, Midland, Texas 79702
4. Well Location Unit Letter <u>N</u> : <u>660</u> Feet From The <u>South</u> Line and <u>1980</u> Feet From The <u>West</u> Line Section <u>27</u> Township <u>21-S</u> Range <u>37-E</u> NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.) GL 3411'
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11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: Add open hole pay in Paddock <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: <input type="checkbox"/>

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 proposes to deepen the above referenced well approximately 85' to add open hole pay in the Paddock. Following is the procedure:

1. Test safety anchors.
2. MIRU pulling unit with \pm 5500' of 2 7/8" 6.5#/ft., N-80 workstring and drill collars.
3. Kill well w/2% KCl water.
4. Remove stuffing box and install rod stripper.
5. POOH w/3/4" steel rods and 2" x 1 1/4" x 12' pump.
6. N/D wellhead and N/U 6" series 900 BOP's w/ 2 3/8" pipe rams on top and blind rams on bottom.

(See Attachment I)

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

SIGNATURE J. R. Jenkins TITLE Hobbs Production Sup't. DATE 7-11-90
(915)
TYPE OR PRINT NAME J. R. Jenkins TELEPHONE NO. 682-1626

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

JUL 10 1990

ATTACHMENT I

Item 12 (continued)
W. S. Marshall "B" No. 5
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7. POOH w/ 2 3/8" tubing and stand back.
8. Switch BOP rams to 2 7/8".
9. PU and RIH w/ 2 7/8" 6.5#/ft., N-80 workstring and 5" cement retainer to \pm 5090'. Set cement retainer.
10. MIRU Cementers.
11. Establish rate and pressure into perfs from 5132'-50' and 5183'-93' w/2% KCl water. Squeeze perfs.
12. Pull out of retainer and reverse circulate to pit w/2% KCl water. POOH w/2 7/8" 6.5#/ft., N-80 workstring.
13. RIH w/2 7/8" 6.5#/ft., N-80 workstring, drill collars, and 4 1/4" bit. WOC for at least 18 hrs.
14. Drill out retainer and cement to 5194'. Test squeeze to 1000 psi.
15. If test is obtained, continue w/next step. If not, resqueeze.
16. Drill out retainer located at 5194' and then cement to original T.D. of 5245'. Circulate hole clean w/2% KCl water.
17. Start drilling new formation at 5245' and continue to the new proposed T.D. of 5330'.
18. Circulate hole clean w/2% KCl water.
19. POOH w/2 7/8" 6.5#/ft., N-80 workstring, drill collars and 4 1/4" bit.
20. RU loggers w/full lubricator and test to 1000 psig.
21. RIH w/WL and run CCL, GR, CNL & CBL from T.D. to min. depth charge.
22. POOH and rig down loggers.
23. RIH w/2 7/8" 6.5#/ft., N-80 workstring and treating pkr to \pm 5198'. Hydrotest to 6500 psig while RIH.
24. Set pkr. Pressure backside to 500 psig. Acidize w/4000 gallons of 20% NEFE acid using rock salt as a diverting agent. Record ISDP.
25. Swab on the well one day to recover load and establish productivity.
26. Release pkr. POOH w/2 7/8", 6.5 #/ft., N-80 workstring and treating pkr.
27. RU perforators w/full lubricator and test to 1000 psig.
28. RIH w/perforating guns and perforate w/2 JSPF at depths picked after CNL run. Estimate 100-140 shots.
29. POOH and rig down perforators.
30. RIH w/2 7/8", 6.5 #/ft., N-80 workstring, mechanical collar locator and pin point injection tool (10' spacing) to \pm 5190'. *Starting depth will be determined after perf depths are finalized.
31. Spot acid to pkr. Set tool. Use 15% NEFE acid and acidize w/8 bbls.
32. Release tool. PUH 5'. Set tool and acidize w/8 bbls.
33. Repeat procedure until entire perforated interval has been acidized. Should be 14 stops with a total acid volume of 5,000 gallons.
34. POOH w/2 7/8", 6.5#/ft., N-80 workstring, mechanical collar locator and pinpoint injection tool.
35. RIH w/2 7/8", 6.5#/ft., N-80 workstring and treating packer \pm 4950'.
36. Set pkr. Pressure backside to 1000 psig and fracture stimulate.

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GCC
HOBBS OFFICE

Attachment I

Item 12 (continued),

W. S. Marshall "B" No: 5

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Basic recommendation:

140,000 lbs. of 16/30 Ottawa sand
20,000 lbs. of 16/30 resin coated sand
Sand concentration 1-6 lb/gal.
Average wellhead treating pressure - 4300 psig
Maximum treating pressure - 6,000 psig
30% CO₂ gelled water system
1 stage job

37. After stimulation, flow back and swab on well 1 to 2 days to recover load and establish productivity.
38. Kill well w/2% KCl water. Unset pkr. POOH w/2 7/8", 6.5#/ft., N-80 workstring and treating pkr.
39. RIH w/2 7/8", 6.5#/ft., N-80 workstring to TD and check for fill.
40. POOH w/2 7/8", 6.5#/ft., N-80 workstring, laying down.
41. Switch BOP rams to 2 3/8".
42. RIH w/2 3/8" tubing, SN and tubing anchor to \pm 5200'.
43. Remove BOP. Install wellhead w/rod stripper.
44. RIH w/steel rods and pump. Final rod design will be made after swab (post frac) results are obtained.
45. Hang well on and start pumping to production facilities.
46. RDMOL