

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well

GAS

2. Name of Operator

MERIDIAN OIL

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

1625'FSL, 915'FWL, Sec.2, T-26-N, R-5-W, NMPM

5. Lease Number

Jic Contract 150

6. If Indian, All. or

Tribe Name

Jicarilla Apache

7. Unit Agreement Name

8. Well Name & Number

Jicarilla G #6

9. API Well No.

30-039-20240

10. Field and Pool

Blanco MV/Basin DK

11. County and State

Rio Arriba Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☒ Recompletion

☐ New Construction

☐ Final Abandonment

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☒ Other -

13. Describe Proposed or Completed Operations

It is intended to workover the wellbore according to the attached procedure and wellbore diagram. Administrative commingle order will be obtained prior to commencing operations.

RECEIVED
NOV - 4 1994

OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct.

Signed *James Stalheud* (TM3) Title Regulatory Affairs Date 9/20/94

(This space for Federal or State Office use)

APPROVED BY (DRG. CGD.) ROBERT A. KENT Title _____ Date NOV 2 1994

CONDITION OF APPROVAL, if any:

Jicarilla G # 6

T26NR05W02L

Recompletion & Commingle

Current

KB: 6701'
GL: 6689'

13-3/4" Hole
10-3/4" 32.75#
Casing
@ 313'
w/ 250 sxs to Surf

1-1/2"
Tubing
@ 7706'

Liner Top @
3416'

9-7/8" Hole
7-5/8" 26.4# Casing
@ 3597'
w/850 ft3

TOC 7-5/8"
@ 1650'
Will Verify!

1-1/2"
Tubing
@ 6106'

TOC 5-1/2" @
3416' - 7834'
Circ 30 bbis @
Liner

Mesaverde Perforations
1 SPF 5042-5166'

Dakota Perforations
1 SPF 7724'-7746'
1 SPF 7770'-7782'
1 SPF 7803'-7808'

PBTD: 7813'
TD: 7835'

Proposed

KB: 6701'
GL: 6689'

2 3/8" Tubing
@ 7700'

Mesaverde Perforations
1 SPF 5042-5654'

Tocito Perforations
1 SPF 7108'-7116'

Dakota Perforations
1 SPF 7683'-7659'
1 SPF 7630'-7636'
1 SPF 7724'-7746'
1 SPF 7770'-7782'
1 SPF 7803'-7808'

PBTD: 7813'
TD: 7835'

Formation Tops

Ojo Alamo	2845'
Kirtland	2975'
Fruitland	3155'
Pict. Cliffs	3375'
Lewis	3560'
Cliff House	5030'
Menefee	5167'
Point Lookout	5554'
Mancos	5908'
Niobrara:	6763'
Tocito	7108'
Greenhorn	7504'
Graneros	7572'
Dakota	7623'
(Paguete):	7700'
(1st Cubero):	7762'
(2nd Cubero):	7802'
(Oak Canyon):	N.R.
(Encinal):	N.R.

6-3/4" Hole
5-1/2" 15.5# Liner
@ 3416'
w/ 700 ft^3

PROCEDURE FOR WORKOVER

Jicarilla G # 6

Unit L, Sec 02-T26N-R05W

Mesaverde/Dakota

Add Point Lookout, Meneffee, & Tocito to Wellbore & Commingle

Prior to Starting Operation. Inspect Location. Dig & Fence Work Pit. Test & Install Anchors if necessary. Contact Gas Company of New Mexico to obtain Drill Gas Meter for workover operation. Comply with all BLM, NMOCD & MOI rules and regulations. **Always Hold Safety Meetings!!**

**** Require Two-hundred-fifty-five (255) joints 2-3/8" 4.7# J-55 EUE tubing on location.
**** Require Four (4) 3-1/8" Drill collars, all changeovers, floats, & subs.
**** Require (7500') 3-1/2" 9.3# N-80 Upset Frac Tubing String on location for Frac.
**** Five (5) -400 bbl Frac Tanks & one (1) 400 bbl rig tank w/ 2% KCl water filtered 5 micron

1. Move on Location. Call Tefteller to remove wireline during wellhead removal! (325-1731). Obtain & Record Bradenhead, Casing, & Both Tubing String Pressures on Report. Lay manifold & all lines. Pump 25 bbls 2% KCl water down DK tubing, pump 25 bbls 2% KCl down MV tubing. ND WH. NU Offset Spool, BOP & stripping rubber. Open well on blooie line.

2. TOOH & LD 1-1/2" 2.75# IJ 10rd Mesaverde tubing from 5106'. SN @ 5098'. Tubing may be crimped at 3000' +/- Contact Engineering if tubing is stuck, before pulling.

3. Swivel Spool. TOOH & LD 1-1/2" 2.90# EUE 10rd Dakota tubing from 7706'. (NOTE: 2-1/16" Blast Joints) DO NOT PULL OVER 20,000# + STRING WT. Pull seal assembly out from MODEL 'D' Production PKR @ 7532', Seven (7)-2-1/16" blast joints in string. *Wireline should work free once weight is removed from tubing.*

4. Change out rams to 2-3/8". Remove Offset Spool when possible. PU "44-26" CJ Milling tool, 3-1/8" Collars and 2-3/8" 4.7# J-55 tubing. TIH & mill top slips on PKR @ 7532'. Retrieve PKR, TOOH.

5. PU 4-3/4" mill, 3-1/8" collars, float, on 2-3/8". TIH and clean well out to PBTD of 7813' +/- TOOH.

6. RU wireline. Run 5-1/2" 15.5# casing gauge ring to 7813'. POOH. Run GR-CCL from PBTD to 3350'. Prepare to re-perforate additional Dakota Pay under full lubricator with 4" HSC gun GOEX-116 19 gram charge 0.44" dia holes 4 SPF 90 degree phasing (Total of 116 holes) bottom-up in a single gun run if possible. Correlate with attached log sections and GR-CCL. Note Liner top @ 3469'.

7803'	to	7808'	(5'	@ 4 SPF)	20 holes
7770'	to	7776'	(6'	@ 4 SPF)	24 holes
7724'	to	7730'	(6'	@ 4 SPF)	24 holes
7630'	to	7636'	(6'	@ 4 SPF)	24 holes
7553'	to	7559'	(6'	@ 4 SPF)	24 holes (Greenhorn)

7. Run 5-1/2" wireline set RBP. Set RBP#1 @ 7500'. Note Liner top @ 3469'. Make additional run with dump bailer. Place 2 sxs sand on top of RBP#1.

8. ^U PU 5-1/2" RBP & 5-1/2" Fullbore PKR assembly and TIH on 2-3/8" tubing. TIH to first RBP @ 7560'. Pump 50 bbls 2% KCl water to fill hole to Mesaverde. Set PKR and test RBP#1 @ 7500' & tubing to 3500 psi for 10 min.

9. Pull tubing uphole. w/2-3/8" tubing, set RBP#2 @ 5000' (approx 50' above top MV perf). w/ PKR set above RBP. Test RBP#2 & tubing to 3500 psi. Hold and record pressure 10 minutes. Release pressure. Fill hole from bottom with 2% KCl water, approx 200 bbls to remove any gas pockets. TOOH. Fill hole full prior to logging. Change out remaining tubing head to one which will accomodate a single string of 2-3/8" tubing.

10. RU wireline. Under Packoff, Run GR-CCL-CBL from RBP#2 to surface with 500 psi pressure. No Gaps. Record all cement tops on Report. When out of hole, pressure test casing from surface to 1000 psi. Hold pressure for 10 minutes. Engineering will evaluate Bond for potential squeezes, none are anticipated.

11. TIH w/ retrievinghead on 2-3/8". Engage RBP#2 @ 5000', equalize pressure, & TOOH with RBP#2.

12. Prepare to Perforate Tocito Gallup as follows: w/ 4" HSC gun GOEX-116 19 gram charges 0.44" dia holes 4 SPF 90 degree phase.

Holes from 7108' to 7116' (8' total of 32 holes).

13. Change out rams, elevators, & rubbers. PU 5-1/2" fullbore PKR, (2.75" ID) 'F' nipple, & 3-1/2" 9.3# N-80 Upset Frac String (2.992" ID, 3.75" OD). TIH with Frac string to 7000' Set PKR @ 7000' +/- Stimulate Tocito Gallup Interval per attached schedule. **STAGE # 1.** Nitrogen Foam & 55,000# 20/40 brady @ 15 BPM. All sand will be tagged w/ 0.3mc/1000# Ir-192. Max Pressure is 6000 psi. Flow well until closure on 1/8" choke. Release Stimulation Company.

14. Flow well back until returns of sand & liquid are minimal. Release PKR, TOOH & stand back 3-1/2" frac tubing string. MINIMIZE FLUID PUMPED DOWN TUBING TO COME OUT OF HOLE. Set plug in profile nipple if necessary.

15. RU wireline. Run 5-1/2" wireline set RBP. Set RBP @ 5715'+/-. Make additonal run with dump bailer. Place 2 sxs sand on top of RBP. Note Plug has not been tested!

16. Prepare to Perforate Point Lookout & Meneffee under a full lubricator as follows: w/ 3-1/8" HSC gun select fire GOEX-116 12 gram charges 0.30" dia holes 1 SPF bottom-up. (Total of 28 holes).

5654', 5648', 5644', 5630', 5613', 5603', 5597', 5588', 5577', 5571',

5566', 5561', 5556', 5532', 5507', 5487', 5479', 5474', 5419', 5390',

5382', 5376', 5373', 5304', 5288', 5284', 5289', 5255'

17. Run 5-1/2" retrievingautomatic PKR, profile nipple, & 3-1/2" 9.3# N-80 Frac String. TIH with Frac string to 5700'. TEST RBP to 3500 psi prior to stimulation for 10 min. Pull up & set PKR @ 5200' on pipe with good bond. Breakdown Point Lookout & Meneffee Interval w/ 1000 gallons 10% HCl w/ 2gal/1000 corrosion inhibitor, 1 gal/1000 surfactant, & 5 gal/1000 iron control. Drop 50 - 7/8" RCN 1.3 sp gravity ball sealers in sets of 10 every 200 gallons. Flush with water at 20 BPM or max rate under 3500 psi. Ball off perforations to 3500 psi. Release Pressure, surge, displace. TIH and knock balls off perforations. Pull up and reset PKR @ 5200'.

18. **STAGE # 2** Frac well per attached schedule. 2% KCl water & friction reducer & 100,000# 20/40 brady @ 40 BPM. Max Pressure is 6000 psi. Sand will be tagged w/ 0.3mc/1000# Ir-192.

19. Flow well back until returns of sand & liquid are minimal. Release PKR, TOOH & LD 3-1/2" frac tubing string. MINIMIZE FLUID PUMPED DOWN TUBING TO COME OUT OF HOLE. Set plug in profile nipple if necessary. Change out rams, elevators, & rubbers.
20. TIH w/ 4-3/4" notch collar, float, & 2-3/8" tubing. Clean hole out to RBP @ 5715' with gas, Flare well. Clean well up and obtain good pitot gauge on entire Mesaverde. Record 15 min, 30 min, 45 min, & 1 hr. TOOH once water rate drops to less than 6 BPH.
21. PU one jt 2-3/8" openended, SN, 6' perf sub, 5-1/2" PKR, & remaining 2-3/8" tubing. Set PKR @ 5200'. Set slips, close pipe rams. Continue to flow test well. Obtain good pitot gauge on Point Lookout & Meneffee.
22. RU wireline. Run 24hr digital pressure bomb. Set bomb in SN. Flow well 2 hrs, followed by shut-in for 22 hrs. Pull bomb from well. Release PKR & TOOH w/ 2-3/8".
23. PU retrieving head. TIH on 2-3/8" and engage RBP @ 5715'. Equalize pressure & TOOH with RBP.
24. TIH w/ 4-3/4" notch collar, float, & 2-3/8" tubing. Clean hole out to RBP @ 7500' with gas, Flare well. Clean well up and obtain good pitot gauge on Mesaverde & Tocito. Record 15 min, 30 min, 45 min, & 1 hr. TOOH.
25. PU one jt 2-3/8" openended, SN, 6' perf sub, 5-1/2" PKR, & remaining 2-3/8" tubing. Set PKR @ 7050'. Set slips, close pipe rams. Continue to flow test Tocito. Obtain good pitot gauge on Tocito.
26. RU wireline. Run 24 hr digital pressure bomb. Set bomb in SN. Flow well 2 hrs, followed by shut-in for 22 hrs. Pull bomb from well. Release PKR & TOOH w/ 2-3/8".
27. PU retrieving head. TIH on 2-3/8" and engage RBP @ 7500'. Equalize pressure & TOOH with RBP.
28. PU 4-3/4" bit, float, & four (4) 3-1/8" drill collars on 2-3/8" tubing. Clean well out to 7813' with gas. Flare well. Pull above Dakota Perforations & pitot test well. Record 15 min, 30 min, 45 min, & 1 hr. TOOH.
29. RU wireline. Run After-Frac Gamma-Ray Log across all new zones. POOH.
30. PU & TIH w/ 5-1/2" PKR and 2-3/8" tubing. Set PKR @ 7500' on good bonded pipe. Establish rate below PKR w/ 2% KCl water. **MAXIMUM PRESSURE IS 4000 PSI.** Pump 1000 gallons 10% Acetic acid, followed by 1000 gallons 2% KCl water, followed by 1000 gallons 10% Acetic acid, flush with 2% KCl water. Run Nitrogen assist at 500 SCF/BBL in all fluid but flush. Ball off entire Dakota interval by dropping 250 - 1" RCN 1.30 specific gravity ballsealers in ten sets of twenty-five (25) balls (175 total perforations). Pump at maximum rate & maximum pressure. Release PKR, TOOH w/ PKR. **Do not knock balls off perms!**
31. PU notched collar, float, & TIH w/ 2-3/8" tubing clean well out (note 1" balls) with gas to 7813'. Pull above Dakota and obtain good pitot gauge on entire well. Record 15 min, 30 min, 45 min, & 1 hr. Continue to clean well out until liquid returns are minimal, let well flow when possible. TOOH.

Jicarilla G # 6
Commingle Workover
MOI - 08/26/94

32. RU hydrotesters. TIH rabbiting & **HYDROTESTING TUBING TO 2000 psi** with production string as follows. One (1) jt 2-3/8" tubing openended, expendable check 'F' nipple (1.81" ID), eighteen (18) joints 2-3/8" tubing, one (1) 20' 3.062" blast joint for Tocito, & remaining two-hundred-twenty-nine (229) jts 2-3/8" tubing. Land tubing @ 7700'+/-, ND BOP, NU WH. Pump off expendable check and obtain final pitot test up 2-3/8" tubing for 15 min, 30 min, 45 min, & 1 hr. Swab in if necessary. RD and release rig to next location. No blast joints are run on Mesaverde Interval.

33. Production Engineering will finalize Commingle Allocation Formula and submit it to the Aztec NMOC office. SI well 7 days, run dip-in pressure bomb, perform deliverability test. Notify marketing that well will be restored to production. Allocation Formula will be determined with assistance of sales line production for a minimum of 3 months. This stabilized production is necessary to accurately validate the allocation formula.

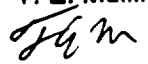
Approved:



Drilling Superintendent

TEM

Suggested Vendors:

Stimulation Work:	Western Co. North America	327-6222
Logging/Perforating	Petro Wireline	326-6669
Pressure Bombs	Tefteller Inc.	325-1731
BP/PKR/Blast jts	Baker Service Tools	325-0216
3-1/2" Frac String	Cave Enterprises	325-3401
Radioactive Tagging	Protechnics Intl	326-7133
Engineering	T. E. Mullins	326-9546-W
		327-8692-pager