

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM MAIL ROOM

Sundry Notices and Reports on Wells

96 MAY 20 PM 1:49

1. Type of Well
GAS

070 FARMINGTON, NM

5. Lease Number
NM-01594
If Indian, All. or
Tribe Name

7. Unit Agreement Name

2. Name of Operator
MERIDIAN OIL

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

8. Well Name & Number
Kelly A #3A

9. API Well No.
30-045-21984

4. Location of Well, Footage, Sec., T, R, M
1750' FSL, 1650' FEL, Sec.15, T-31-N, R-10-W, NMPM

10. Field and Pool
Blanco Mesaverde

11. County and State
San Juan Co, NM

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

Type of Submission	Type of Action
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment <input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion <input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back <input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair <input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing <input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other - Pay add and restimulation

13. Describe Proposed or Completed Operations

It is intended to add pay and restimulate the Mesaverde formation of the subject well according to the attached procedure and wellbore diagram.

RECEIVED
MAY 30 1996
OIL CON. DIV.
DIST. 3

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

Signed [Signature] (MEL5) Title Regulatory Administrator Date 5/16/96

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____
CONDITION OF APPROVAL, if any:

APPROVED

MAY 21 1996

DISTRICT MANAGER

NMOCD

Kelly A #3-A - Mesaverde
Point Lookout Restim/ Lewis Payadd
Lat-Long by TDG: 36.895767 - 107.865982
SE/4 Section 15, T31N-R10W
COMPLETION PROCEDURE 4/26/96

1. Hold safety meeting. MIRU. Comply with all MOI, BLM and NMOCD rules and regulations. Install 9 frac tanks and 1x400 bbl rig tank. Fill each frac tank with 3#s of biocide and Aztec city water with 1% KCl. water.
2. Obtain and record all wellhead pressures. ND WH, NU BOP. TOOH w/ 2-3/8" tubing set at 5524'. Replace bad tubing as necessary.
3. PU 7" (20#) casing scraper and TIH on 2-3/8" workstring. Run casing scraper to 3190'. TOOH.
4. PU 3-7/8" bit and 4-1/2" (10.5#) casing scraper and TIH with 2-3/8" workstring. CO to PBTD (5619'). TOOH.
5. RU wireline and full lubricator. Run CNL from PBTD (5619') to 3000'. Send logs to engineering/geology immediately and perforation intervals and finalized frac procedures will be provided. **(After reviewing CNL, additional Point Lookout interval may be perforated before restimulating.)**
6. Wireline set a 4-1/2" RBP @ 4585'. Load hole from surface w/ 1% KCL water.
7. TIH with 7" fullbore packer and $\pm 1000'$ of 3-1/2" N-80 frac string. Set packer and pressure test casing and RBP to 3000 psi. Release packer and TOOH standing back frac string. TIH w/ 2-3/8" tubing and retrieving head. Latch on to RBP set @ 4585' and TOOH.

*****If additional Point Lookout will be perforated: Perforate using 2-1/8" RTG guns with 6.4 gram charges and 0.28" diameter holes. (Perforations will be provided after reviewing CNL.) Inspect guns to ensure all perforations fired. RD wireline.**
8. TIH with 7" fullbore packer and $\pm 1000'$ of 3-1/2" N-80 frac string. Set packer @ $\pm 1000'$. Set 500 psi on backside and monitor during acid job.
9. **Maximum allowable treating pressure is 3000 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ max rate pressure will allow dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (two balls per perforation hole - Mesaverde had 40 perfs prior to this workover). Release packer and TOOH standing back frac string.
10. RU wireline, retrieve balls off of perforations w/ 4-1/2" junk basket. Report number of hits.
11. TIH with 4-1/2" mule shoe on the bottom of two Scab Liner Packers with $\pm 400'$ of 2-3/8" tubing between the two packers on 2-3/8" tubing. Set Scab Liner to overlap the existing Cliffhouse/Menefee perforations @ 4599' to 4966' (367' between top and bottom perf). Set top packer element @ $\pm 4585'$ and bottom element @ $\pm 4985'$. TOOH.
12. TIH w/ 7" fullbore packer and $\pm 1000'$ of 3-1/2" N-80 frac string. Set packer @ $\pm 1000'$. Set 500 psi on backside and monitor during frac.
13. **Hold safety meeting. Maximum allowable surface treating pressure is 3000 psi.**
14. Pressure test surface lines to 4000 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Restimulate the Point Lookout interval @ ± 30 BPM using 30# cross link and 90M lbs. of sand (15% resin coated) w/ 7000 SCF/M of Nitrogen assist. (See attached anticipated stimulation procedure.) Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall.) Shut in well immediately after completion of the stimulation until pressure falls to zero.

15. Release packer and TOOH standing back frac string.
16. TIH with Scab Liner retrieving tool and bumper sub on 2-3/8" workstring. Recover Scab Liner and TOOH.
17. RIH and wireline set a 4-1/2" CIBP @ $\pm 5000'$. TIH w/ 7" fullbore packer and $\pm 1000'$ of 3-1/2" N-80 frac string. Set packer and pressure test CIBP to 3000 psi. Set 500 psi on backside and monitor during frac job.
18. **Hold safety meeting. Maximum allowable surface treating pressure is 3000 psi.**
19. Pressure test surface lines to 4000 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Cliffhouse/Menefee interval @ ± 30 BPM using 30# cross link and 75M lbs. of sand (15% resin coated) w/ 7000 SCF/M of Nitrogen assist. (See attached anticipated stimulation procedure.) Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall.) Shut in well immediately after completion of the stimulation until pressure is zero.
20. Release packer and TOOH standing back frac string.
21. RIH and wireline set a 4-1/2" RBP @ $\pm 4000'$. Dump $\pm 10'$ of sand on top of RBP. TIH w/ 7" fullbore packer and $\pm 1000'$ of 3-1/2" N-80 frac string. Set packer and pressure test RBP to 3000 psi. Release packer and TOOH standing back frac string.
22. Perforate the Lewis interval ($\pm 3200' - \pm 3900'$) using 3-1/8" HSC guns with 12 gram charges and 0.29" diameter holes. (Perforations will be provided after reviewing CNL.) Inspect guns to ensure all perforations fired. RD wireline.
23. TIH w/ 7" fullbore packer and $\pm 1000'$ of 3-1/2" N-80 frac string. Set packer @ $\pm 1000'$. Set 500 psi on backside and monitor during acid job.
24. **Maximum allowable treating pressure is 3000 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ max rate pressure will allow dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole). Release packer and TOOH standing back frac string.
25. RU wireline, retrieve balls w/ 4-1/2" junk basket and report number of hits.
26. TIH w/ 7" fullbore packer and $\pm 1000'$ of 3-1/2" N-80 frac string. Set packer @ $\pm 1000'$. Set 500 psi on backside and monitor during frac.
27. **Hold safety meeting. Maximum allowable surface treating pressure is 3000 psi.**
28. Pressure test surface lines to 3000 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Lewis interval @ ± 40 BPM using 30# linear and 70Q Nitrogen with 60M lbs. of sand. (See attached anticipated stimulation procedure.) Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall.) Shut in well immediately after completion of the stimulation until pressure falls to zero.
29. Release packer and TOOH laying down frac string.
30. TIH w/ retrieving head on 2-3/8" tubing and CO to RBP set @ 4000'. When sand has diminished, obtain pitot gauge for Lewis interval. Release RBP and TOOH.

Kelly A #3-A
Mesaverde Restim/Payadd

31. PU 3-7/8" bit and TIH on 2-3/8" workstring. CO to CIBP set @ 5000'. Obtain pitot gauge for Lewis / Menefee / Cliffhouse interval.
32. Drill up CIBP set @ 5000' and CO to PBTD (5619'). PU above the Mesaverde perforations and flow the well naturally, making short trips for clean up when necessary. Obtain pitot gauge for Mesaverde after clean up.
33. When sand has diminished, TOOH.
34. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, an F-nipple, then the remaining 2-3/8" production tubing. CO to PBTD (5619'). Land tubing near bottom perforation (5536').
35. ND BOP's, NU WH. Pump off expendable check. Obtain final pitot up the tubing if possible. If well will not flow on it's own, make swab run to FN. If a swab run is not necessary, run a broach on slickline to ensure that the tubing is clear. RD and MOL. Return well to production.

Approval:

Drilling Superintendent

Approval:

Northwest Basin Team Leader

Contacts:

Engineers:

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Vendors:

Stimulation: Dowell (325-5096)
Wireline: Halliburton (325-3575)

MEL:mel

Pertinent Data Sheet
KELLY A #3A

Location: Unit J-NW/4 SE/4, Section 15, T31N, R10W, 1750' FSL, 1650' FEL,
Lat. 36.895767, Long. -107.865982 by TDG
San Juan County, NM

Field: Blanco Mesaverde

Elevation: 6218' GL

TD: 5636'

KB: NA

PBTD: 5619'

Spud Date: 08/06/76

Completed: 11/01/76

DP No: 48982A

Prop. No: 012576303

Casing/Liner Record:

<u>Hole Size</u>	<u>Csg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
13 3/4"	9 5/8"	40# N-80	210'	224 cu. ft.	To surface
8 3/4"	7"	20# KS	3351'	455 cu. Ft.	2975'
	4 1/2"	10.5# KS Liner	3194'-5636'	424 cu. ft.	Liner Top

Tubing Record: 2 3/8" 4.7# J-55 @ 5524'.

Formation Tops:

Ojo Alamo:	N/A
Pictured Cliffs:	N/A
Upper Cliffhouse:	4502'
Massive Cliffhouse:	4723'
Massive Point Lookout:	5185'
Lower Point Lookout:	5336'

Logging Record: IL-GR, CDL-GR, TS

Stimulation History: Perfed 4599'-4966'. Fraced with 30,000# of sand and 29,988 gallons of water.
Perfed 5064'-5536'. Fraced with 52,000# of sand and 51,996 gallons of water.

Workover History: 08/29/95: BH repair. Perfed 4 squeeze holes @ 530'. Set packer @ 361'. Pumped 260 sx cement. TOC unknown.

KELLY A #3A

BLANCO MESAVERDE

AS OF 4/15/96

1750' FSL, 1650' FEL

SEC 15, T31N, R10W, SAN JUAN COUNTY, NM

COMPLETED 11/01/76
BH REPAIR 8/29/95
ELEVATION 6218' GL

OJO ALAMO @ N/A

PICTURED CLIFFS N/A

UPPER CLFH @ 4502'

MASS. CLFH @ 4723'

MENEFEE @ 4878'

MASS. PT. LOOKOUT @ 5185'

LOWER PT. LOOKOUT @ 5336'

13-3/4" HOLE

9-5/8" 40# N-80 CSG SET @ 210'
CMT W/224 CU.FT.
CIRC. CMT TO SURFACE

TOC UNKNOWN

PERF 4 SQ HOLES @ 530' SET PKR @ 361'
PUMP 260 SX CMT

8-3/4" HOLE

2-3/8" 4.7# J-55 TBG SET @ 5524'

TOC @ 2955'

7" 20# KS CSG SET @ 3351'
CMT W/455 CU.FT.

PERF 4599', 4643', 4677', 4734', 4736', 4745', 4748', 4750',
4757', 4768', 4794', 4799', 4813', 4817', 4838', 4844', 4858',
4863', 4960', 4966' (20 SHOTS) W/1 SPF
FRAC W/30,000# SAND AND 29,988 GALS WATER

PERF 5064', 5082', 5085', 5160', 5171', 5198', 5224', 5226',
5237', 5254', 5258', 5273', 5277', 5281', 5325', 5327', 5356', 5366',
5480', 5536' (20 SHOTS) W/1 SPF
FRAC W/52,000# SAND AND 51,996 GALS WATER

4-1/2" 10.5# KS LINER @ 3194'-5636'
CMT W/424 CU. FT. TO LINER TOP

TD 5636'
PBD 5619'