

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  
990' FSL, 890' FWL, Sec.22, T-31-N, R-11-W, NMPM

5. Lease Number  
SF-078134  
6. If Indian, All. or  
Tribe Name  
7. Unit Agreement Name  
8. Well Name & Number  
Aztec A #1  
9. API Well No.  
30-045-10467  
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 checked="" 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 & bradenhead repair	

13. Describe Proposed or Completed Operations

It is intended to add pay the producing Mesaverde formation and repair the bradenhead of the subject well according to the attached procedure and wellbore diagram. Original sundry to repair the bradenhead was approved 3-20-95.

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

Signed [Signature] (TJM4) Title Regulatory Administrator Date 1/24/96

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_

Date **APPROVED**

CONDITION OF APPROVAL, if any:

JAN 26 1996

[Signature]  
DISTRICT MANAGER

NMOCD

**Pertinent Data Sheet - Aztec A #1**

**Location:** SW/4 990' FSL, 890' FWL, Section 22, T31N, R11W,  
Lat. 36.879868, Long. 107.983887 by TDG  
San Juan County NM

**Field:** Blanco Mesaverde

**Elevation:** 5841' GL  
5851' KB

**TD:** 4909'  
**PBTD:** 4860'

**Completed:** 02-03-58

**Spud Date:** 01-03-58

**Interest:** 52.5000  
43.1093

**SJBT:** 9.3750

**Interest Potential:** AOF: 6552 MCFD  
SICP: 964#

**DP No:** 3730

**Prop. No:** 0023116

**Fed. No:** SF 078134

**Casing/Liner Record:**

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
	10 3/4"	32.75# Armco	SW174'	150 SX	surface-circ.
9 5/8"	7 5/8"	26.4# J-55	4575'	250 SX	3190' (TS)
6 3/4"	5 1/2" Liner	15.5# J-55	4526'-4904'	110 SX	Liner Top(TS)

**Tubing Record:** 2 3/8" 4.7# J-55 tubing set at 4859'.

**Formation Tops:**

Ojo Alamo:	780'	Lewis:	2586'
Kirtland:	915'	Cliff House:	4047'
Fruitland:	2102'	Menefee:	4280'
Pictured Cliffs:	2458'	Point Lookout:	6689'

**Logging Record:** ES, IND, GRL, ML, Temp. Survey

**Stimulation:** Perf Mesaverde from 4690'-4702', 4710'-4750', 4779'-4787', 4802'-4812', 4818'-4828',  
4834'-4842'.

Fractured with 78,600 gallons of water and 60,000# of sand.

BHP=350#      Max Pres=2,500    ATP=1,131      IR=88 BPM.

Flush 9,400 gallons.    Dropped 6 sets of 19 balls each.

**Workover History:**      None.

# AZTEC A #1

BLANCO MESAVERDE

AS OF 7/24/95

990' FSL, 890' FWL

UNIT M SEC 22, T31N, R11W, SAN JUAN COUNTY, NM

COMPLETED 2/03/58  
ELEVATION 5841' GL  
KB 10'

10-3/4" 32.75# SW CSG SET @ 174'  
CMT W/150 CU.FT.  
CIRC. CMT TO SURFACE

9-5/8" HOLE

OJO ALAMO @ 780'  
KIRTLAND @ 915'

FRUITLAND @ 2102'  
PICTURED CLIFFS @ 2458'  
LEWIS @ 2586'

2-3/8" 4.7# J-55 TBG SET @ 4859'

TOC @ 3190' (TEMP. SURVEY)

CLIFF HOUSE @ 4047'  
MENEFEE @ 4280'

7-5/8" 26.4# J-55 CSG SET @ 4575'  
CMT W/250 SX

POINT LOOKOUT @ 4689'

6-3/4" HOLE

PERF 4690-4842'  
FRAC W/78,600 GAL WATER  
AND 60,000# SAND

5-1/2" 15.5# J-55 LINER @ 4526'-4904'  
CMT W/110 SX TO LINER TOP (TEMP SURVEY)

TD 4909'  
PBSD 4860'

**Aztec A #1 - Mesaverde**  
Cliffhouse and Menefee Payadd along  
with a Bradenhead Squeeze  
Lat-Long by TDG: 36.879868 - 107.983887  
SW/4 Section 22, T31N-R11W  
August 31, 1995

1. Hold safety meeting. MIRU. Comply with all MOI, BLM and NMOCD rules and regulations. Install 13 frac tanks and 1x400 bbl rig tank. Fill each frac tank with 5#s of biocide and filtered (25 micron) 1% KCl water.
2. Obtain and record all wellhead pressures. ND WH, NU BOP. TOOH w/ 2-3/8" tubing set at 4859'. Replace bad tubing as necessary.
3. PU 7-5/8" (26.4#) casing scraper, TIH and run casing scraper to 4526'. TOOH.
4. TIH with 2-3/8" tubing, 5-1/2" (15.5#) casing scraper and 4-3/4" bit. CO to PBTD of 4860'. TOOH.
5. TIH w/ 5-1/2" CIBP and set CIBP @ 4675'. Load hole w/ 1% KCL water and pressure test to 1000 psi. Spot Menefee interval ( $\pm 4620'$  -  $\pm 4330'$ ) w/ 300 gallons of inhibited 15% HCL acid. TOOH.
6. RU wireline and run CBL-GR-CCL from  $\pm 4675'$  to TOC in 7-5/8" casing (run CBL to find TOC in liner and 7-5/8" casing) under 1000 psi surface pressure. Run CNL from 4675' to 3800'. Send copy of logs to engineering and perforation intervals will be provided. TIH w/ 7-5/8" fullbore packer and two joints of 3-1/2" N-80 frac string. Set packer and pressure test casing and CIBP to 3300 psi. Release packer and TOOH standing back frac string.
7. Perforate the Menefee interval ( $\pm 4620'$  -  $\pm 4330'$ ) top down using Goex 12 gram charges with 0.22" diameter holes. (Intervals will be provided after reviewing logs.) Inspect guns to ensure all perforations fired. RD wireline.
8. TIH w/ 7-5/8" fullbore packer and two joints of 3-1/2" N-80 frac string. Set packer.
9. **Maximum allowable treating pressure is 3300 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ maximum 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.
10. RU wireline, run a 7-5/8" & a 5-1/2" junk basket and knock balls off of perforations.
11. TIH w/ 7-5/8" fullbore packer and two joints of 3-1/2" N-80 frac string. Set packer.
12. **Hold safety meeting. Maximum allowable surface treating pressure is 3300 psi.**
13. Pressure test surface lines to 4300 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Menefee interval @ 30 BPM using 30# linear gel and 80m lbs of sand tagged w/ Iridium. (Final stimulation procedure will be attached after reviewing logs.) Do not over displace during flush. Shut in well immediately after completion of the stimulation until pressure falls to zero.
14. Release packer and TOOH standing back frac string. Check and inspect packer. RU wireline and set a 7-5/8" RBP @  $\pm 4320'$ . Load hole w/ 1% KCl water and pressure test to 3300. Dump sand on top of RBP w/ dump bailer.

Aztec A #1  
Mesaverde Payadd and  
Bradenhead Squeeze  
August 31, 1995

15. Perforate Cliffhouse interval ( $\pm 4310'$  -  $\pm 3880'$ ) using 3-1/8" HSC guns with 12 gram charges and 0.31" diameter holes. (Perforation interval will be provided after reviewing logs.) Inspect guns to ensure all perforations fired. RD wireline.
16. TIH w/ 7-5/8" fullbore packer and two joints of 3-1/2" N-80 frac string. Set packer.
17. **Maximum allowable treating pressure is 3300 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ maximum 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.
18. RU wireline, retrieve balls w/ 7-5/8" junk basket and report number of hits.
19. TIH w/ 7-5/8" fullbore packer and two joints of 3-1/2" N-80 frac string. Set packer.
20. **Hold safety meeting. Maximum allowable surface treating pressure is 3300 psi.**
21. Pressure test surface lines to 4300 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Cliffhouse interval @ 30 BPM using 30# linear gel and 105m lbs of sand tagged w/ Iridium. (Final stimulation procedure will be attached after reviewing logs.) Do not over displace during flush. Shut in well immediately after completion of the stimulation until pressure falls to zero.
22. Release packer and TOOH laying down frac string.
23. RU wireline company. Set a 7-5/8" RBP 100' below TOC and dump a sack of sand on top.
24. Perf 2 SQ holes 50' above the TOC. TIH w/ 2-3/8" tbg. and fullbore pkr. Set pkr 100' above the perf holes. Squeeze the perf holes w/ 100% excess cmt w/ the BH valve open at surface. Circ 5 bbls of good cmt out of the bradenhead valve and then shut in valve and squeeze remaining cmt away. Over displace the cmt out of the 2-3/8" tbg by 2 bbls. Hold pressure on cmt for 4 hrs then open at surface and check for flow. Shut well in until flow ceases. TOH w/ packer.
25. WOC for 12 hrs then drill out the cmt. Run a CBL to locate TOC, if cmt was not circulated. Pressure test the sqz holes to 750#.
26. When Sqz holes test TIH w/ a retrieving tool and latch onto the RBP and TOH.
27. TIH w/ retrieving head and CO to RBP @  $\pm 4320'$  until sand production is minimal. Obtain pitot gauge for Cliffhouse interval. Release RBP @ 4320' and TOOH.
28. TIH w/ 4-3/4" bit and drill up CIBP set @ 4675'. CO to PBTB (4860'). 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.
29. When sand has diminished, TOOH.
30. RU wireline company. Run After Frac GR from 4700' to top of tracer activity. RD wireline.
31. 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 PBTB ( $\pm 4860'$ ). Land tubing near bottom perforation (4840').

Aztec A #1  
Mesaverde Payadd and  
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August 31, 1995

32. ND BOP's, NU WH. Pump off expendable check. Obtain final pitot. RD and MOL. Return well to production.

Approval:

\_\_\_\_\_  
Drilling Superintendent

Approval:

Gerald P. Zien 9-28-95  
Northwest Basin Team Leader

**Contacts:**

Engineer - Todd Mushovic  
Office - (326-9584)  
Home - (324-0692)

OR  
Mary Ellen Lutey  
Office - (599-4052)  
Home - (325-9387)

Frac Consultant - Mark Byars  
Pager - (327-8470)  
Mobile - (320-0349)  
Home - (327-0096)

OR  
Mike Martinez  
Pager - (599-7429)  
Mobile - (860-7518)  
Home - (326-4861)