

State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division

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  
800' FSL, 1500' FWL, Sec.26, T-31-N, R-11-W, NMPM, San Juan County

API # (assigned by OCD)  
30-045-10370  
5. Lease Number  
Fee  
6. State Oil&Gas Lease #  
7. Lease Name/Unit Name  
Wilmuth  
8. Well No.  
1  
9. Pool Name or Wildcat  
Blanco Mesaverde  
10. Elevation: 6689 GR

Type of Submission

Notice of Intent  
 Subsequent Report  
 Final Abandonment


Type of Action

Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other - Pay add  
 Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut off  
 Conversion to Injection

13. Describe Proposed or Completed Operations

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

RECEIVED  
DEC - 6 1995  
OIL CON. DIV.  
DIST. 3

SIGNATURE  (MEL5) Regulatory Administrator December 4, 1995

(This space for State Use)

Approved by ORIGINAL SIGNED BY ERNIE BUSCH Title DEPUTY OIL & GAS INSPECTOR, DIST. 43 Date DEC - 6 1995

## Pertinent Data Sheet

### WILMUTH #1

**Location:** SE/4 SW/4, Section 26, T31N, R11W, 800' FSL, 1500' FWL,  
Lat. 36.864624, Long. 107.963837 by TDG  
San Juan, NM

**Field:** Blanco Mesaverde

**Elevation:** 6689' GR

**TD:** 4793'

**COTD:** 4770'

**Spud Date:** 07-24-58

**Completed:** 08-11-58

**DP No:** 50159A

**Prop. No:** 012638200

**Fed. No:** FEE

#### 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 $\frac{3}{4}$ "	32.7# K-55	173'	150 sx	to surface
9-7/8"	7-5/8"	26.4# K-55	4434'	300 sx	TOC 3000' (TS)
6-3/4"	5 $\frac{1}{2}$ " Liner	15.5# J-55	4345'-4784'	200 SX	Liner Top

**tubing Record:** 2" tubing set at 4763' (153 joints). Perfed joint on bottom.  
Seating nipple above perfed joint.

#### Formation Tops:

Ojo Alamo:	822' est	Upper Cliff House:	3724'
Kirtland	907' est	Massive Cliff House:	3900'
Fruitland:	1662' est.	Menefee:	4108'
Pictured Cliffs:	2296'	Mass. Point Lookout:	4555'
Huer. Bentonite:	3022'	Lower Point Lookout:	4665'
<del>Chacra:</del>	<del>3022'</del>		

**Logging Record:** ES, TS.

**Stimulation:** Perfed Point Lookout 4556'-4758' w/65,000# of sand and 65,000 gallons of water.  
Max. Pres. = 900#, ATP = 900#, IR = 93 BPM. Dropped 135 balls during job.

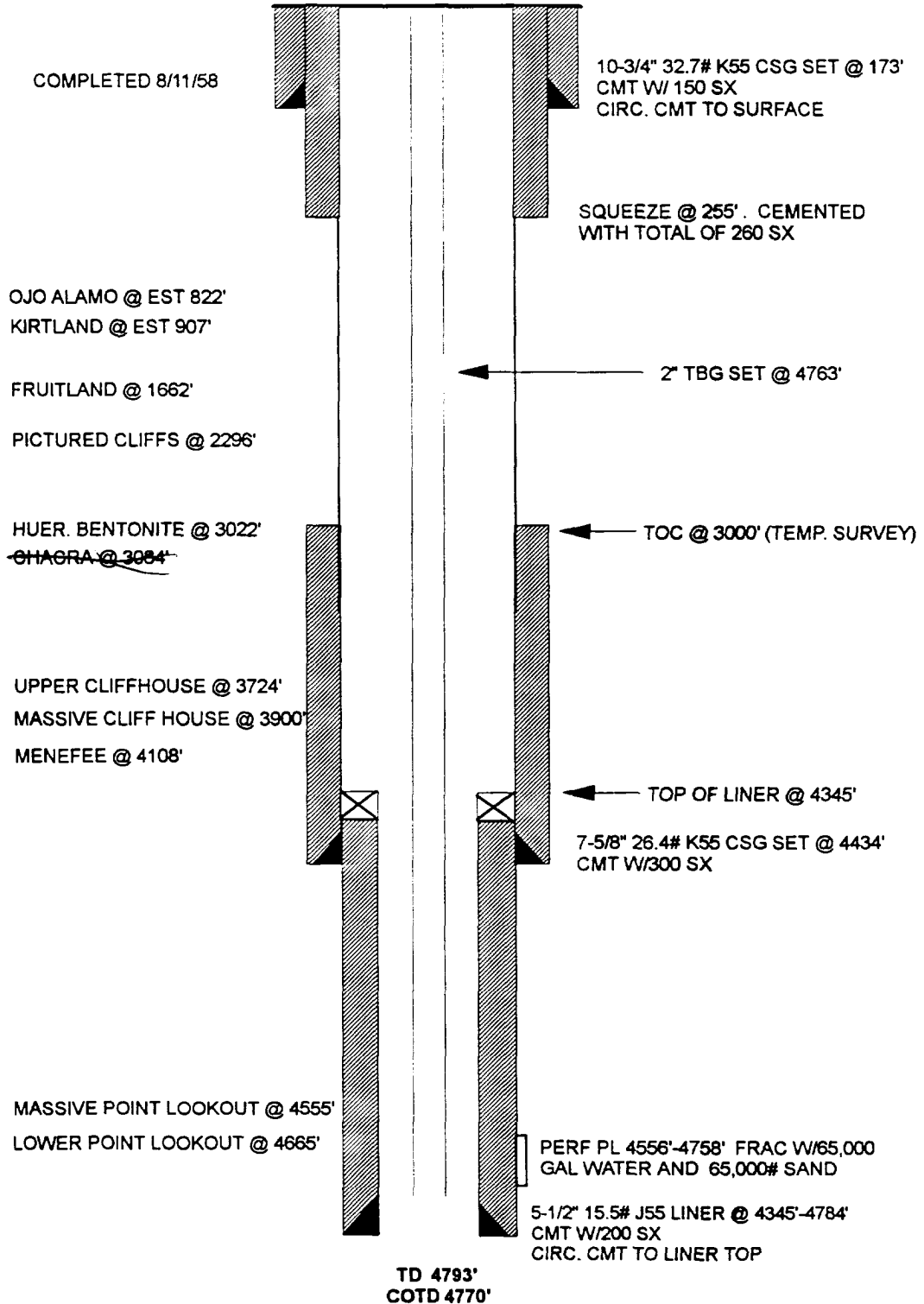
**Workover:** June 1977 - Squeezed 7-5/8" @ 255' with 130 sacks Class "B".  
Resqueezed with 130 sacks Class "B" with 2% Calcium Chloride.

# WILMUTH #1

AS OF 6/01/94

BLANCO MESAVERDE

UNIT N SEC 26, T31N, R11W, SAN JUAN COUNTY, NM



**Wilmuth #1 - Mesaverde**  
Menefee / Cliffhouse Payadd  
Lat-Long by TDG: 36.864624 - 107.963837  
SW/4 Section 26, T31N-R11W  
October 20, 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 4763'. Replace bad tubing as necessary.
3. PU 7-5/8" (23#) casing scraper, TIH and run casing scraper to 4340'. TOOH.
4. TIH with 2-3/8" tubing, 5-1/2" (15.5#) casing scraper and 4-3/4" bit. CO to PBTD of 4770'. TOOH.
5. RU wireline company and run a CNL from 4750' to 3650'. Send copy of log to engineering and perforation intervals will be provided.
6. TIH w/ 5-1/2" CIBP and set CIBP @ 4545'. Load hole w/ 1% KCL water. Pressure test casing to 500#. TOH.
7. TIH w/ 7-5/8" fullbore packer and set packer at 300'. Pressure test casing to 3300#. TOH.

NOTE: Bradenhead flowed 3.5 bbls in 15 minutes during a bradenhead test in 1993.

8. Perf 2 SQ holes 50' above the TOC. If cement is to surface perf squeeze holes at 877'. TIH w/ 2-3/8" tbg. and fullbore pkr. Set pkr at 200'. 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. Hold pressure on cmt for 4 hrs then open at surface and check for flow. Shut well in until flow ceases. TOH w/ packer.
9. 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#.
10. TIH. Spot Menefee interval ( $\pm$  4535' -  $\pm$  4160') w/ 556 gallons of inhibited 15% HCL acid. TOH.
11. RU wireline and run CBL-GR-CCL from  $\pm$  4545' to Surface.
12. Perforate the Menefee interval ( $\pm$  4535' -  $\pm$  4160') top down using GOEX 12 gram charges and 0.22" diameter holes. (Intervals will be provided after reviewing logs.) Inspect guns to ensure all perforations fired. RD wireline.
13. TIH w/ 7-5/8" fullbore packer and 300' of 3-1/2" N-80 tbg. Set packer.
14. **Maximum allowable treating pressure is 3300 psi during acid job.** Pump 2000 gallons of 15% HCL acid @ 8 Bls/min dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole).
15. Release packer and TIH w/ 7-5/8" fullbore packer to 4435' to knock balls off. TOH. TIH w/ 5-1/2" csg scraper to 4335. TOH.
16. TIH w/ 7-5/8" fullbore and 300' of 3-1/2" N-80 tbg. Set packer.

Wilmuth #1  
Mesaverde Payadd  
October 20, 1995

17. Hold safety meeting. **Maximum allowable surface treating pressure is 3300 psi @ 30 Bbls/min.**
18. 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.
19. Release packer and TOOH standing back frac string. Check and inspect packer. RU wireline and set a 7-5/8" RBP @  $\pm$  4150'. Dump sand on top of RBP w/ dump bailer.
20. TIH w/ fullbore packer and load hole from bottom. TOH to 300'. Pressure test csg to 3300#. TOH.
21. Perforate Cliffhouse interval ( $\pm$  3730' -  $\pm$  4120') top down 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.
22. TIH w/ 7-5/8" fullbore packer and 300' of 3-1/2" tbg. Set packer.
23. **Maximum allowable treating pressure is 3300 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ 8 Bbls/min dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole).
24. Release packer and TIH to knock palls off. TOH to 300' and reset packer.
25. Hold safety meeting. **Maximum allowable surface treating pressure is 3300 psi @ 30 Bbls/min.**
26. 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.
27. Release packer and TOOH laying down frac string.
28. TIH w/ retrieving head and CO to RBP @  $\pm$  4150' until sand production is minimal. Obtain pitot gauge for Cliffhouse interval. Release RBP @ 4150' and TOOH.
29. TIH w/ 4-3/4" bit and drill up CIBP set @ 4545'. CO to PBSD (4770'). 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.
30. When sand has diminished, TOOH.
31. RU wireline company. Run After Frac GR from 4600' to top of tracer activity.
32. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, an F-nipple, then the rest of the tbg. Land tubing near bottom Mesaverde perforation.

Wilmuth #1  
Mesaverde Payadd  
October 20, 1995

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

Approval: \_\_\_\_\_  
Drilling Superintendent

Approval: \_\_\_\_\_  
Northwest Basin Team Leader

**Contacts:**

Engineer - Todd Mushovic  
Office - (326-9584)  
Home - (324-0692)  
Pager - (324-7291)

or  
Mary Ellen Lutey  
Office - (599-4052)  
Home - (325-9387)  
Pager - (324-2671)

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)