

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  
880' FNL, 1030' FEL, Sec. 33, T-32-N, R-12-W, NMPM, San Juan County

API # (assigned by OCD)  
30-045-60079  
5. Lease Number  
Fee  
6. State Oil & Gas Lease #  
7. Lease Name/Unit Name  
Culpepper Martin SRC  
8. Well No.  
6  
9. Pool Name or Wildcat  
Blanco Mesaverde  
10. Elevation:

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

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**  
JUN 17 1996  
**OIL CON. DIV.**  
DIST. 3

SIGNATURE *[Signature]* (JAS4) Regulatory Administrator June 14, 1996

(This space for State Use)

Approved by ORIGINAL SIGNED BY ERNIE BUSCH Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Date JUN 17 1996

**Culpepper Martin #6 (Mesaverde)**  
**Point Lookout Restimulation / Menefee Pay Add**  
**NE/4 Section 33, 32N-12W**  
**San Juan County, New Mexico**  
**Lat. 36.947342 Long 108.094574**

**Equipment Requirements:**

7 frac tanks, 2 joints of 3-1/2" frac tubing, 7-5/8" fullbore stimulation packer, 5-1/2" packer, immediate flowback line and chokes, potential of 5000' of Class "B" production tubing.

Prior to moving in WO rig, rig up slickline unit and attempt to remove plunger.  
Check with production operations (Noel Rogers 326-9808) to verify plunger has been removed.

1. Hold safety meeting. MIRU. Comply with all MOI, BLM and NMOCD rules and regulations. Install 6 frac tanks and 1x400 bbl rig tank. Fill each frac tank with 3#s of biocide 1-2% KCl water (check w/ engineer to determine 1% or 2% KCL water).
2. Obtain and record all wellhead pressures. ND WH, NU BOP. Strap OOH w/ 2-3/8" tubing set at 4894' Confirm tubing strap footage w/ Pertinent Data Sheet footage. Production Operations reported that there is a hole in the tubing. Check joints very carefully when TOOH for scale and holes. Replace bad tubing as necessary.
3. A 7-5/8" scraper run may need to be made to 4560' (Liner Top) if tubing scaled up. If not, TIH with 4-3/4" bit, 5-1/2" casing scraper, 3-1/8" drill collars (if needed) and 2-3/8" tubing. CO to PBSD @ 4955' (F.C. est.). Blow hole clean with air/mist. TOOH.
4. PU a 5-1/2" RBP on 2-3/8" tubing and TIH. Set RBP @ 4700'. PU 10', load hole, close pipe rams and pressure test RBP to 1000 psi for 15 minutes. TOOH w/ tubing.
5. RU wireline. Spot 5' sand on RBP with bailer. Run CBL w/ 1000 psi pressure from RBP @ 4700' to 3500' (TOC in 5-1/2" @ 4554' from TS & 7-5/8" @ 3725' from TS).
6. PU 7-5/8" packer on 2 jts of 3-1/2" N-80 tubing and set. Pressure test casing and RBP 3000 psi for 15 minutes. Release pressure and stand back packer. If casing does not pressure test prepare to hunt for leaks and call for 3-1/2" & 2-7/8" frac tubing.
7. TIH w/ retrieving head on 2-3/8" tbg blowing down as you go. Wash sand from RBP @ 4700' and retrieve. TOOH.
8. TIH w/ 7-5/8" packer and 2 joints of 3-1/2" tbg. Set packer & test w/ 500 psi on backside. RU flowback line w/ 1/8" positive choke. RU Stimulation Company. Pressure test flowback line to 1000 psi w/ plug in the end. Pressure test Stimulation Company lines to 4000 psi.
9. Hold safety meeting. **Max allowable surface treating pressure is 3000 psi @ 50 Bbls/min.** Pressure test surface lines to 4000 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Re-stimulate the Massive Point Lookout interval @ +/- 50 BPM w/ 30# XL gel and 7000 SCF/M N2, 20/40 Arizona and 20/40 resin coated. Hold and monitor 500 psi on backside. Sand will be tagged w Ir-192. Stage flush when sand concentration drops to 4-1/2 #/gal. Quick flush w/ 1% KCL water and N2. Cut flush rate in half (to 15 BPM) when half of flush is away. Note rate and pressure and underflush by a minimum of 20%.

10. Flow back well immediately through 1/8" positive choke to reverse gravel pack. If well is not dead after 2 hours, increase positive choke size until pressure falls to zero. Accurately record sand volume and gel/water coming back.
11. Release packer and stand back. Check and inspect packer.
12. RU wireline and set a 5-1/2" CIBP @ 4570'. Dump 5'-10' sand on RBP w/ bailer. Load hole w/ 1% KCL water.
13. PU 7" pkr and 2 jts 3-1/2" tubing. Set pkr and pressure test casing and RBP to 3000 psi for 15 min. Release and pull pkr. Check and inspect packer.  
**Call back Stimulation Crew once BP pressure tests.**
14. TIH w/ 2-3/8" tbg and blow down in stages to 4500' (60' above sand/RBP). Spot 300 gallons of inhibited 15% HCL acid across Menefee interval. TOOH.
15. RU lubricator for underbalanced perforating. Perforate the Menefee top down using 3-1/8" HSC guns with 12 gram charges (Owen HSC-3125 306T) and 0.29" diameter holes: 2 SPF, 180 degree phasing. Inspect guns to ensure all perforations fired. Record pressures if any. RD wireline.

Menefee: 4567, 4571, 4576, 4581, 4588, 4591, 4621, 4638, 4640,  
4660, 4672, 4676, 4691, 4704, 4718, 4724, 4732, 4734  
Total: 18 intervals, 36 holes

16. TIH w/ 7-5/8" packer and 2 joints of 3-1/2" tbg. Set packer & test w/ 500 psi on backside. RU flowback line w/ 1/8" positive choke. RU Stimulation Company. Pressure test flowback line to 1000 psi w/ plug in the end. Pressure test Stimulation Company lines to 4000 psi.
17. Hold safety meeting. **Max allowable surface treating pressure is 3000 psi @ 45 Bbls/min.** Pressure test surface lines to 4000 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines). Stimulate the Menefee interval @ +/- 45 BPM w/ 30# XL gel and 7000 SCF/M N2, 20/40 Arizona and 20/40 resin coated. Hold and monitor 500 psi on backside. Sand will be tagged w Ir-192. Stage flush when sand concentration drops to 4-1/2 #/gal. Quick flush w/ 1% KCL water and N2. Cut flush rate in half (to 15 BPM) when half of flush is away. Note rate and pressure and underflush by a minimum of 20%.
18. Flow back well immediately through 1/8" positive choke to reverse gravel pack. If well is not dead after 2 hours, open well wide open over 15 minutes until pressure falls to zero. Accurately record sand volume and gel/water coming back.
19. PU 4-3/4" bit on 2-3/8" workstring and clean out to CIBP @ 4570'. Obtain stable pitot gauge from Menefee. Drill CIBP and clean out to PBDT @ 4955'. PU above the Mesaverde perforations and flow the well naturally, making short trips for clean up when necessary. Obtain pitot gauge from MV after clean up.

20. When sand has diminished, obtain pitot gauge & TOOH.
21. RU wireline. Run after frac gamma ray log.
22. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, an F-nipple, then the rest of the tubing. Land tubing as removed from well (4894') close to the bottom perf @ 4912'.
23. ND BOP's, NU WH. Pump off expendable check. Run swab to FN. Obtain final pitot. RD and MOL. Return well to production.

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

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

**Engineers -**

**James A. Smith**  
Office - (326-9713)  
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**Mary Ellen Lutey**  
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**Frac Consultants**

**Mark Byars**  
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Mobile - (320-0349)  
Home - (327-0096)

**Mike Martinez**  
Pager - (599-7429)  
Mob - (860-7518)  
Home - (326-4861)

**VENDORS:**

**WIRELINE:**  
**STIMULATION:**  
**RA TAGGING**

**SERVICE COMPANY**  
Petro  
BJ Services  
Pro-Technics

**PHONE NUMBER**  
326-6669  
327-6222  
326-7133

Pertinent Data Sheet

**CULPEPPER MARTIN #6**

**Location:** Unit A NE/4 NE/4, Section 33, T32N, R12W, 880' FNL, 1030' FEL,  
Lat. 36.947342, Long. -108.094574 by TDG  
San Juan County, NM

**Field:** Blanco Mesaverde

**Elevation:** 6042' DF

**KB:** N/A

**TD:** 5028'

**PBTD:** 4955' (est F.C.)

**Spud Date:** 08-05-56

**Completed:** 08-28-56

**DP No:** 10670

**Prop. No:** 0023107

**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>
13 1/4"	10 3/4"	32.75# H-40	169'	125 sx	to surface
9 7/8"	7 5/8"	26.4# J-55	4706'	200 sx	3725' (TS)
6 3/4"	5 1/2"	15.5# K-55 Liner	4560'-5000'	100 sx	4554' (TS)

**Tubing Record:** 2 3/8" 4.7# J-55 set @ 4894' (perforated joint on bottom).

**Formation Tops:**

Ojo Alamo:	est. 645'
Kirtland:	est. 668'
Fruitland:	2004'
Pictured Cliffs:	2397'
Lewis:	2654'
Massive Cliffhouse:	4090'
Menefee:	4310'
Massive Point Lookout:	4767'
Lower Point Lookout:	4936'

**Logging Record:** ES, GRN, TS

**Perf/Stim History:** Perforated  
4774'-4788' (28 holes @ 2 SPF)  
4800'-4820' (40 holes @ 2 SPF)  
4830'-4878' (88 holes @ 2 SPF)  
4890'-4912' (44 holes @ 2 SPF)  
Total of 200 holes

Fracture Stimulated in one stage with 49,000# of sand and 45,150 gallons of water.

# CULPEPPER MARTIN #6

BLANCO MESAVERDE

AS OF 4/18/96

880' FNL, 1030' FEL

SEC 33, T32N, R12W, SAN JUAN COUNTY, NM

