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

Sundry Notices and Reports on Wells

API # (assigned by OCD)

1. **Type of Well**
   GAS

5. **Lease Number**
   E-5111-4

6. **State Oil&Gas Lease**
   E-5111-4

2. **Name of Operator**
   MERIDIAN OIL

7. **Lease Name/Unit Name**
   San Juan 29-7 Unit

8. **Well No.**
   68

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

9. **Pool Name or Wildcat**
   Blanco Mesa Verde

4. **Location of Well, Footage, Sec., T, R, M**
   890'FSL, 1800'FWL Sec.36, T-29-N, R-7-W, NMPM, Rio Arriba County

10. **Elevation:**

Type of Submission	Type of Action	
_x_ Notice of Intent	___ Abandonment	___ Change of Plans
	___ Recompletion	___ New Construction
___ Subsequent Report	___ Plugging Back	___ Non-Routine Fracturing
	___ Casing Repair	___ Water Shut off
___ Final Abandonment	___ Altering Casing	___ Conversion to Injection
	___ Other -	

13. **Describe Proposed or Completed Operations**

It is intended to perforate and fracture stimulate the Menefee and Lewis intervals of the Mesa Verde per the attached procedure and wellbore diagram.

RECEIVED
MAY 13 1993
OIL CON. DIV.
DIST. 3

SIGNATURE [signature] (KS) Regulatory Affairs May 11, 1993

(This space for State Use)
Approved by Original Signed by FRANK T. CHAVEZ Title SUPERVISOR DISTRICT # 3 Date MAY 13 1993

San Juan 29-7 Unit #68
SW/4 Section 36, T-29-N, R-07-W
Recommended Recompletion Procedure
Menefee/Lewis Pay-Adds

Note: Notify BLM (326-6201) and NMOCD (327-5344) 24 hours before rig activity.

1. Inspect location. Test location rig anchors and repair if necessary. Install 1 X 400 bbl rig tank and fill with 2% KCl water. Install 7 X 400 bbl frac tanks and fill with 2,671 bbls of useable 2% KCl water.

2. Hold safety meeting. MIRU. Place fire and safety equipment in strategic locations. Comply with all MOI, BLM, and NMOCD rules and regulations. NU relief line and blooie line to laydown flow tank. Obtain and record all wellhead pressures.

3. Blow down tubing. If tubing will not blow down, kill well with water.

4. TOOH with 5949' of 2-3/8", 4.7# 8rd tubing. Visually inspect tubing and replace any bad joints.

5. TIH with 5-1/2", 15.50# casing scraper and 2-7/8", 6.40# X 3-1/2", 9.20# tapered workstring. Make scraper run down to 5720'. TOOH.

6. TIH with Baker Model G Retrievable Bridge Plug in tandem with 5-1/2" Left-Hand Set Baker Retrievamatic E-A Packer and 2-7/8" X 3-1/2" workstring. Set retrievable bridge plug @ 5720' above Point Lookout perforations. Pull up hole, set packer @ 5415', and pressure test bridge plug to 3000 psi for 15 minutes. Dump 2 sx of sand on top of retrievable bridge plug.

7. Release packer and pull up in hole to 5370'. Load backside of well with water and pressure test to 1000 psi for 15 minutes. TOOH and reload well with water. If pressure test fails, prepare to test and repair casing. Contact production engineering and a casing repair will be submitted.

8. RU wireline. Run GR-CBL-CCL in 5-1/2" liner from bridge plug @ 5720' to 4200' and from 3000' to TOC in 7-5/8" casing (TOC was located @ 2800' with Temperature Survey). Evaluate GR-CBL-CCL and send copy to production engineering. Run Compensated Neutron log from 5720' to 4200'. Send copy of log to Production Engineering and Geology, immediately, for perforation correlation.

Menefee Stimulation:

9. Perforate the following Menefee intervals select fire with 3-3/8" HSC and 14 gram Owen 3375-302 charges with minimum standoff (Dp = 0.34", Penetration = 21.26"). RD wireline.

5426'	5443'	5477'	5480'	5484'
5486'	5521'	5533'	5541'	5543'
5545'	5547'	5551'	5553'	5563'
5565'	5567'	5589'	5591'	5609'
5611'	5621'	5623'	5625'	5675'
5679'	5680'	5690'	5697'	5699'

Total: 30 holes.

10. TIH with 2100' 2-7/8", 6.40# and 3315' 3-1/2", 9.20# tapered workstring and packer. Set packer @ 5415' and prepare to breakdown perforations. Install TIW valve on top of tubing for acid job. Spot 7 bbls 7-1/2% HCl from 5415' to 5720'.

San Juan 29-7 Unit #68
Menefee/Lewis Pay-Adds

11. RU stimulation company. **Maximum treating pressure during acid job is 3800 psi.** Pump 30 bbls of 7-1/2% HCl @ 4 bbl/min. Add 1/1000 gallons Clay-Sta XP clay control agent, 4/1000 gallons HI-FLO-4 silt suspender, 2/1000 gallons HAI-85M corrosion inhibitor, 10/1000 gallons FEIA, and 50#/1000 gallons FE-2 iron sequestering agents to the acid. Drop a total of 60 7/8" diameter and 1.1 specific gravity RCN ball sealers spaced evenly throughout the job (approximately 1 ball every 7.5 seconds). Record injection rate and all breakdown pressures throughout job.

12. Release packer. Run packer and tubing down to 5705' and knock balls off perforations with packer. Pull back up hole with packer. Set packer @ 5415' and prepare to fracture stimulate well.

13. RU stimulation company. Hold safety meeting. Pressure test surface lines to 6000 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 5000 psi.** Fracture well according to attached procedure. Shut in well for 4 hours upon completion of the stimulation to allow gel to break.

14. Refill 6 frac tanks with 2,225 bbls useable 2% KCl water. Flow back well through packer and tubing on 1/8" choke. Increase choke size as needed to keep the well from logging off if possible. When pressures and flowback rates allow, release packer while pumping water down annulus if necessary. TOOH and laydown packer. TIH with workstring and clean out to retrievable bridge plug air until sand production is minimal. TOOH.

15. TIH with packer and workstring. Set packer @ 5415' and test Menefee with pitot gauge. Record pitot gauge as Menefee formation only. TOOH.

Lewis Stimulation:

16. RU wireline. Run gauge ring down to 5360' and check inside diameter of well. Set retrievable bridge plug @ 5350' above Cliff House formation.

17. RU wireline. Perforate the following Lewis intervals with 3-1/8" HSC and 12 gram Owen 3125-306 charges (Dp = 0.28", Penetration = 14.60"). RD wireline.

4412'	4414'	4606'	4613'	4618'
4624'	4632'	4669'	4689'	4735'
4741'	4745'	4749'	4755'	4768'
4773'	4793'	4795'	4803'	4831'
4862'	4867'	4874'	4820'	4981'
4988'	5015'	5014'	5072'	5169'
5177'	5269'	5276'	5283'	5285'
5291'	5311'	5313'	5315'	5332'

Total: 40 holes.

18. TIH with 1700' 2-7/8", 6.40# and 2690', 9.20# tapered workstring and packer. Set packer @ 4390' and prepare to breakdown perforations. Install TIW valve on top of tubing for acid job. Spot 10 bbls 7-1/2% HCl from 4390' to 5350'.

19. RU stimulation company. **Maximum treating pressure during acid job is 3800 psi.** Pump 40 bbls of 7-1/2% HCl @ 4 bbl/min. Add 1/1000 gallons Clay-Sta XP clay control agent, 4/1000 gallons HI-FLO-4 silt suspender, 2/1000 gallons HAI-85M corrosion inhibitor, 10/1000 gallons FEIA, and 50#/1000 gallons FE-2 iron sequestering agents to the acid. Drop a total of 80 7/8" diameter and 1.1 specific gravity RCN ball sealers spaced evenly throughout the job

(approximately 1 ball every 7.5 seconds). Record injection rate and all breakdown pressures throughout job.

20. Release packer. Run packer and tubing down to 5340' and knock balls off perforations with packer. Pull up hole with packer and set @ 4390'. Prepare to fracture stimulate well.

21. RU stimulation company. Hold safety meeting. Pressure test surface lines to 6000 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 5000 psi.** Fracture well according to attached procedure. Shut in well for 4 hours upon completion of stimulation to allow gel to break.

22. Flow back well through packer and tubing on 1/8" choke. Increase choke size as needed to keep the well from logging off if possible. When pressures and flowback rates allow, release packer while pumping water down annulus if necessary. TOOH and laydown packer and workstring.

23. TIH with retrieving head and 2-3/8" production tubing and clean out to retrievable bridge plug air until sand production is minimal. Obtain pitot gauge for the Lewis formation. Record pitot gauge as Lewis formation only. Latch on to bridge plug with retrieving head and release bridge plug while pumping water down tubing-casing annulus if necessary. TOOH and lay down retrievable bridge plug.

24. TIH with 2-3/8" tubing and retrieving head for retrievable bridge plug above Point Lookout. Cleanout to bridge plug with air. Latch onto retrievable bridge plug and release bridge plug while pumping water down tubing-casing annulus if necessary. TOOH and lay down retrievable bridge plug.

25. RU wireline. Run Temperature Survey top down from 4400' to 5978' (COTD). Send copy of logs to Production Engineering. RD wireline.

26. TIH with one joint of 2-3/8" tubing, seating nipple, and 2-3/8" production tubing. Cleanout to COTD (5978') with air (using 1 joint of extra 2-3/8" tubing). Pull up in well and land tubing around 5950'. Obtain final pitot gauge. ND BOP's, NU WH. RD and MOL.

Approve: _____
J. A. Howieson

Vendors:

Wireline Services ..... Petro Wireline (326-6669)
Stimulation: ..... Dowell Schlumberger (325-5096)
Packers and Bridge Plugs: ..... Baker Service Tools (325-0216)

Kurt A. Shipley Home: ..... (325-9361)
Office: ..... (326-9524)

San Juan 29-7 Unit #68
SW/4 Section 36, T-29-N, R-07-W
Rio Arriba County, New Mexico

Wellbore Schematic