

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## Sundry Notices and Reports on Wells

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| <p>1. <b>Type of Well</b><br/>GAS</p> <hr/> <p>2. <b>Name of Operator</b><br/><b>MERIDIAN OIL</b></p> <hr/> <p>3. <b>Address &amp; Phone No. of Operator</b><br/>PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. <b>Location of Well, Footage, Sec., T, R, M</b><br/>990'FSL, 990'FWL, Sec.23, T-27-N, R-3-W, NMPM</p> | <p>5. <b>Lease Number</b><br/>Jic Contract 94</p> <p>6. <b>If Indian, All. or Tribe Name</b><br/>Jicarilla Apache</p> <p>7. <b>Unit Agreement Name</b></p><br><p>8. <b>Well Name &amp; Number</b><br/>Jicarilla 94 #5</p> <p>9. <b>API Well No.</b><br/>30-039-06968</p> <p>10. <b>Field and Pool</b><br/>Gavilan Pictured Cliffs/<br/>Blanco Mesaverde</p> <p>11. <b>County and State</b><br/>Rio Arriba Co, NM</p> |
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12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

## Type of Submission

<u>  X  </u>	Notice of Intent
<u>      </u>	Subsequent Report
	Final Abandonment

## Type of Action

<u>      </u> Abandonment	<u>      </u> Change of Plans
<u>      </u> Recompletion	<u>      </u> New Construction
<u>      </u> Plugging Back	<u>      </u> Non-Routine Fracturing
<u>      </u> Casing Repair	<u>      </u> Water Shut off
<u>      </u> Altering Casing	<u>      </u> Conversion to Injection
<u>  X  </u> Other -	

13. Describe Proposed or Completed Operations

It is intended to workover the subject well and add pay to the Pictured Cliffs zone according to the attached procedure and wellbore diagram. After the workover the well will be commingled. A down-hole commingling order has been applied for with the New Mexico Oil Conservation Division.

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

Signed William J. Mahoney (CAN9) Title Regulatory Affairs Date 12/29/94

(This space for Federal or State Office use) <sup>for</sup> Chief, Lands and Mineral Resources

APPROVED BY [Signature] Title \_\_\_\_\_ Date JAN 24 1955  
CONDITION OF APPROVAL, if any: \_\_\_\_\_

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## JICARILLA 94 #5

Unit M, Section 23, T27N, R03W  
Recommended Recompletion Procedure  
*Pictured Cliffs Pay Add & Completion*

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Inspect location and install and/or test rig anchors. Install 1 - 400 bbl rig tank and fill w/ 2% KCl water. Approximately 199 jts. 2-3/8" 4.7# J-55 tubing will be required (MOI, District Tools) for cleanout and production. Comply with all BLM, NMOCD, Jicarilla Apache, and MOI rules and regulations. Notify engineering when work has commenced. Hold Safety Meetings on a regular basis.

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**\*\*\*\*\*All vendors/service companies on location will be responsible for protection of the environment, any questions call \_\_\_\_\_ at \_\_\_\_-\_\_\_\_.\*\*\*\*\***

1. Install 2 X 400 bbl frac tanks and fill with 630 bbls 2% KCl water.
2. Hold Safety Meeting. MIRU. Place fire and safety equipment in easily accessible locations. 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 KCl water. ND WH, NU BOP. PBTD is 6248'.
4. TOOH with 3891'(PC, Lay down) and 6193'(MV) of 2-3/8" 4.70# tubing (Pluck Model D at 5667'), CO to COTD (6248'), visually inspect and tally tubing.
5. RU wireline. RIH with 7-5/8" 26.4# gauge ring to 4030' and check pipe. PU 7-5/8" Retrievable bridge plug, TIH and set bridge plug at 3880'. Run GR - CBL - CCL in 7-5/8 casing from bridge plug to Surface pipe (TOC at 3405' by TS). Good TOC must be above 3700' to continue. Evaluate GR-CBL- CCL and send copy to production engineering.
6. TIH w/ one stand 2-7/8" w/ pkr. Pressure test 2-7/8" w/ pkr and casing to 2800 psi. for 15 min. If pressure test fails, prepare to test and repair casing. Contact Production Engineering and a casing repair will be submitted. If pressure test is successful, TIH w/ retrieving head, and unload hole from 2900' to surface, release and pull bridge plug. Reset RBP at 4000' and place 2 sx of sand on top and test to 2800 psi. TOOH

### Main Pictured Cliffs Stimulation:

7. Perforate the following intervals w/ 3-1/8" HSC -3125-306, 12 gram Owen charges 0.31" holes w/ 12.02 " penetration, 2 jsf, 180° phasing:  
  
**3888' - 3974'. (36 Holes) Actual Select-Fire settings will be marked on the logs prior to giving to the Perforating Company.**
8. RD wireline. RU Tefteller and obtain 8 hr pressure build-up w/ gradient stops. RD Tefteller. TIH w/ one stand 2-7/8" w/ pkr.
9. RU stimulation company. Hold Safety Meeting. Pressure test surface treating lines to 4000 psi. **Maximum STP during acid job is 2800 psi.** Pump 1,000 gals 15% HCl w/additives at a rate of 8-12 BPM, attempt to ball-out the perforations. Drop a total of 65 7/8" RCN ball sealers (1.3sp.gr.) spaced evenly throughout the job. Record rates and pressures while attempting to achieve ball-out.

**Jicarilla 94 #5  
Pictured Cliffs Pay-Add**

10. RD stimulation company. TOOH w/ one stand 2-7/8" w/ pkr. RU wireline, run junk basket to knock-off/retrieve as many ballsealers as possible. TIH w/ one stand 2-7/8" w/ pkr. RU stimulation company. Prepare to fracture stimulate the Main Pictured Cliffs.
11. Pressure test surface treating lines to 4000 psi. **Maximum treating pressure is 2800 psi.** Fracture stimulate and tag the PC according to the attached procedure. Flow-back the well immediately using a variable choke manifold. Increase choke size as needed to keep the well from logging off, if possible. When pressures and flow rates allow. TOOH w/ one stand 2-7/8" w/ pkr. PU Retrievable bridge plug, TIH and set bridge plug at 3880'. Unload hole from 2700'.

**Upper Pictured Cliffs Stimulation:**

12. Perforate the following intervals w/ 3-1/8" HSC -3125-306, 12 gram Owen charges 0.31" holes w/ 12.02 " penetration, 2 jsf, 180° phasing:  
  
**3750' - 3840'. (18 Holes) Actual Select-Fire settings will be marked on the logs prior to giving to the Perforating Company.**
13. RD wireline. RU Tefteller and obtain 8 hr pressure build-up w/ gradient stops. RD Tefteller. TIH w/ one stand 2-7/8" w/ pkr.
14. RU stimulation company. **Hold Safety Meeting.** Pressure test surface treating lines to 4000 psi. **Maximum STP during acid job is 2800 psi.** Pump 750 gals 15% HCl w/additives at a rate of 6-10 BPM, attempt to ball-out the perforations. Drop a total of 30 7/8" RCN ball sealers (1.3sp.gr.) spaced evenly throughout the job. Record rates and pressures while attempting to achieve ball-out.
15. RD stimulation company. TOOH w/ one stand 2-7/8" w/ pkr. RU wireline, run junk basket to knock-off/retrieve as many ballsealers as possible. TIH w/ one stand 2-7/8" w/ pkr. RU stimulation company. Prepare to fracture stimulate the Upper Pictured Cliffs.
16. Pressure test surface treating lines to 4000 psi. **Maximum treating pressure is 2800 psi.** Fracture stimulate and tag the PC according to the attached procedure. Flow-back the well immediately using a variable choke manifold. Increase choke size as needed to keep the well from logging off, if possible. When pressures and flow rates allow. TOOH w/ one stand 2-7/8" w/ pkr.
17. TIH w/ retrieving head and 2-3/8" 4.70# workstring and clean out to the retrievable bridge plug @ 3880' with air until sand production is minimal. Obtain pitot gauge for the Upper Pictured Cliffs formation. Record pitot gauge as the Upper Pictured Cliffs formation only. Latch onto the retrievable bridge plug and TOOH.
18. TIH w/ retrieving head on 2-3/8" 4.70# workstring and clean out to the retrievable bridge plug @ 4000' with air until sand production is minimal. Obtain pitot gauge for the Pictured Cliffs formation. Record pitot gauge as the Pictured Cliffs formation only. Latch onto the retrievable bridge plug and TOOH.
19. TIH w/ one joint 2-3/8" 4.7# J-55 tubing, seat nipple, expendable check, and 2-3/8" production tubing. Cleanout to 6248' with air. RU wireline and run after frac Tracer log. Attempt to evaluate for frac tops, bottoms, and coverage. Send copy to Production Engineering. Land tubing @ +/- 6150' (98' of rathole) and obtain final pitot gauge. ND BOP, NU WH. Contact Production Operations for well tie-in. RD and MOL.

Approved: \_\_\_\_\_  
Drilling Superintendent

Contacts/Suggested Vendors:

Trucking/ Water Haul:	Dawn Trucking	327-6314
Wireline:	Basin	327-5244
Bridge Plugs/PKR:	Mountain States	326-5141
Pressure Build-up:	Teffeller Inc.	325-8476
Tubing:	MOI, District Tools	326-9826
Stimulation:	BJ Services	327-6288
Rig Supervisor:	Gary Clark	320-2147 (Drake 22)
Production Oper.:	Bruce Voiles	326-9571
Engineering:	Brian Ault	326-9871 w 326-6613 h

Pertinent Data Sheet - Jicarilla 94 #5

Location: 990' FSL, 990' FWL, Unit M, Section 23, T-27-N, R-03-W; Rio Arriba County, NM  
Lat. 36.554184, Long. 107.119202; GITI

Field: Blanco Mesaverde  
Gavilan Pictured Cliffs

Elevation: 7200' GL

TD: 6280'  
PBTD: 6248'

Spud Date: 08/22/58  
Completed: 09/04/58

DP#: 29200A & B (MV & PC)  
Prop. #: 07133700  
GWI: 100%  
NRI: 87.5%

Casing Record:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
15"	10-3/4"	32.75# H-40	306'	250 sx	Surface
9-7/8"	7-5/8"	26.40# J-55	4240'	125 sx	3405' (TS)
6-3/4"	5"	15# J-55	6280'	225 sx	4059' (TS)

\*\* 5" liner set @ 6280' and top of liner @ 4059'.

Tubing Record:

<u>Tubing Size</u>	<u>Weight &amp; Grade</u>	<u>Depth Set</u>	<u>Packer</u>	<u>GLV</u>	<u>S.N.</u>
2-3/8"	4.70# J-55	6193' (200 jts)	5667'	1382',2196',3008',3816'	6164'
2-3/8"	4.70# J-55	3891' (124 jts)			3860'

Formation Tops:

Ojo Alamo	3394'
Kirtland	3606'
Pictured Cliffs	3882'
Lewis	3986'
Cliffhouse	5705'
Menefee	5753'
Point Lookout	6025'
Mancos	6205'

Logging Record: Electric Log, Ind. Log, GR, Gammathron, TS

Stimulation:

<u>Perfed Mesaverde:</u>	5707' - 6199'
<u>Fraced Mesaverde:</u>	85,500 lbs sand and 114,000 gallons water. (80 Ball sealers)
<u>Perfed Pictured Cliffs:</u>	3888' - 3915'
<u>Fraced Pictured Cliffs:</u>	40,500 lbs sand and 54,000 gallons water.

Transporter: Gas - Williams Field Service  
Oil - Gary Williams Energy

# Jicarilla 94 #5

Unit M. Sec. 23. T27N. R03W  
Lat. 36.554184 Long. 107.119202

*Pictured Cliffs Pay Add and Stimulation*

