

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator MERIDIAN OIL</p> <hr/> <p>3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M 1650' FNL, 990' FEL, Sec. 28, T-28-N, R-5-W, NMPM K</p>	<p>5. Lease Number SF-079521A</p> <p>6. If Indian, All. or Tribe Name</p> <p>7. Unit Agreement Name San Juan 28-5 Unit</p> <p>8. Well Name & Number San Juan 28-5 U #23</p> <p>9. API Well No. 30-039-07331</p> <p>10. Field and Pool Blanco Mesaverde</p> <p>11. County and State Rio Arriba Co, NM</p>
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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 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	

13. **Describe Proposed or Completed Operations**

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

RECEIVED
JUL 30 1996
OIL CON. DIV.
DIST. 3

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

Signed [Signature] (LLL8) Title Regulatory Administrator Date 7/22/96

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any: _____

APPROVED

JUL 23 1996

DISTRICT MANAGER

NMOCG

San Juan 28-5 Unit #23

Lewis Pay-Add

Unit H, Section 28, T-28-N, R-5-W, Rio Arriba County, New Mexico

Lat. 36-38-5, Long. 107-21-29

Inspect location and install and/or test rig anchors. Comply with all BLM, NMOCD, Forestry, and MOI rules and regulations. **BE SAFE.**

All vendors/service companies on location will be responsible for protection of the environment. Any questions call Amber Morehead at 326-9718.

1. MIRU. Hold Safety Meeting. Place fire and safety equipment in easily accessible locations. Obtain and record all wellhead pressures. NU relief line and blooie line to flare pit.
2. Blow down tubing. If tubing will not blow down, kill well with 2% KCl water. ND WH, NU BOP.
3. TOOH with 187 jts (5831') of 2-3/8" 4.7# tubing. Visually inspect, tally, and stand back tubing. Replace any bad joints.
4. PU bit and 5-1/2" 15.5# casing scraper on 2-3/8" tbg. Rabbit and tally on TIH to PBTD of 5854'. **Obtain baseline Mesaverde gauge.** TOOH and LD bit and scraper.
5. If scale was found on tubing or casing, TIH w/ 2-3/8" workstring to 5845'. RU stimulation company. Spot 500 gas 15% HCl over Mesaverde perms. RD stimulation company. TOOH.
6. MIRU electric line unit. RIH and set CIBP at 5300' (use slow burn charge to set plug). Load hole w/ 2% KCl and pressure test casing and CIBP to 1000 psi.
7. Run GR-CBL-CCL from 5300' to 4000' with 1000 psi surface pressure. Run repeat section with 0 psi surface pressure. Top of good cement must be above 4240' to continue. Evaluate CBL and send copy to production and drilling.

Lewis Stimulation:

8. RIH w/ 3-1/8" Select-Fire Perforating gun loaded 2 spf and perforate the following depths:

**4290' 4310' 4339' 4505' 4528' 4544' 4560' 4598' 4670' 4683'
4694' 4735' 4810' 4820' 4957' 5005' (36 total holes)**

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9. RD electric line unit. PU 5-1/2" packer on 2-7/8" N-80 buttress frac string. TIH and set packer at approx 5015'. Load hole w/ 2% KCl and pressure test CIBP to 3800 psi (80% of internal yield of 4810 psi). PU and reset packer at approx 4260'.
10. RU stimulation company. **Hold safety meeting.** Pressure test surface treating lines to 4800 psi. **Maximum treating pressure is 3800 psi.** Pump 1000 gals of 15% HCl acid at 10-15 bpm. Drop a total of 54 7/8" diameter (1.3 sg) RCN ball sealers spaced evenly throughout the job. Record injection rates and pressures throughout the job. RD stimulation company.
11. Release packer. TIH w/ 5-1/2" packer on 2-7/8" N-80 buttress frac string and knock balls off perforations. Pull up and reset packer at approx 4260'.
12. RU stimulation company. Pressure test surface treating lines to 6700 psi. Fracture stimulate the Lewis intervals w/ 90,000# 20/40 sand in 70Q Nitrogen foam (30# x-linked pad, 30# linear based foam) at approximately 20 bpm according to the attached procedure.
13. RDMO stimulation company. Flow back well immediately using a dual choke manifold unless specified in fracture procedure. When pressures allow, release packer. TOOH and LD packer and 2-7/8" frac string.
14. PU mill on 2-3/8" tubing. TIH and clean out to CIBP set at 5300' with air until sand and water production is minimal. **Obtain flow gauge and record as Lewis.** TOOH.
15. RU electric line unit. Run Perforation Efficiency and After-Frac logs.
16. PU mill on 2-3/8" tubing. Mill up CIBP set at 5300' and clean out to PBTD of 5854'. TOOH and LD mill.
17. TIH with 2-3/8" 4.7# EUE tbg with expendable check and seating nipple one joint off bottom and cleanout to PBTD of 5854' with air. Land tubing at approx 5830'. ND BOP. NU WH. Pump off check and obtain final flow gauge. **Record flow gauge as Lewis / Cliffhouse / Point Lookout.** Contact Production Operations for well tie-in. RDMO.

Approved: _____
Regional Team Leader

San Juan 28-5 Unit #23 **Unit H, Sec 28, T-28-N, R-5-W**

Location: 1650' FNL, 990' FEL
 Rio Arriba County, NM

Latitude: 36-38-5
Longitude: 107-21-29

Current Field: Blanco Mesaverde
Spud: 6/ 6/57
Elev GL: 6690'
TD: 5880'

Logs Run: ES, GR, Ind, ML, TS
Completed: 7/ 5/57
Elev KB: 6700'
PBTD: 5854'

CASING RECORD:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Depth Set</u>	<u>Cmt Vol</u>	<u>Cmt Top</u>
15"	10-3/4"	32.75#	S.W.	180'	150 sks	Surface (circ)
9-7/8"	7-5/8"	26.4#	J-55	3663'	250 sks	2200' (TS)
6-3/4"	5-1/2"	15.5#	J-55	5877'	300 sks	3520' (TS)

LINER RECORD:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Depth Set</u>	<u>Cmt Vol</u>	<u>Cmt Top</u>
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TUBING RECORD:

<u>Tubing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Depth Set</u>	<u>Joints</u>	<u>Other</u>	<u>Depth</u>
2-3/8"	4.7#	J-55	5831'	187		

FORMATION TOPS:

Ojo Alamo	2892'	Pictured Cliffs	3544'	Pt Lookout	5725'
Kirtland	3010'	Cliffhouse	5315'	Gallup	---
Fruitland	3317'	Menefee	5380'	Dakota	---

Completions:

Pt Lookout, Menefee - MV

Perfs: 5658-78, 5726-60, 5776-86, 5793-5814, 5830-42 w/ 2 SPF

Frac: 52,000# sand and 53,000 gallons water + balls

Cliffhouse - MV

Perfs: 5314-28, 5335-76 w/ 2 SPF

Frac: 59,000# sand and 44,000 gallons water

SIWHP: 1028 psi AOF: 6164 mcf/d

Cementing Information

5-1/2" casing cemented w/ 150 sks regular cement and 150 sks pozmix.

7-5/8" casing cemented w/ 200 sks 50% pozmix / 50% neat w/ 4% gel and 1/4# floseal /sk.

10-3/4" - No record

Workover History:

SAN JUAN 28-5 UNIT #23

Unit H, Section 28, T-28-N, R-5-W
Lat. 36-38-5, Long. 107-21-29

CURRENT WELLBORE SCHEMATIC

