

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
APR 10 1996  
PM 2:19

## Sundry Notices and Reports on Wells

1. Type of Well  
GAS

UNCLASIFIED, NM

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  
990' FNL, 990' FEL, Sec. 29, T-27-N, R-5-W, NMPM

5. Lease Number  
SF-079392

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

San Juan 27-5 Unit

8. Well Name & Number  
San Juan 27-5 U #4

9. API Well No.  
30-039-06929

10. Field and Pool  
Tapacito Pict. Cliffs/  
Blanco Mesaverde

11. County and State  
Rio Arriba Co, NM

## 12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

## Type of Submission

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

## Type of Action

☐ Abandonment ☒ Change of Plans

☐ Recompletion ☐ New Construction

☐ Plugging Back ☐ Non-Routine Fracturing

☐ Casing Repair ☐ Water Shut off

☐ Altering Casing ☐ Conversion to Injection

☒ Other - Mesaverde pay add & abandon Pictured Cliffs

## 13. Describe Proposed or Completed Operations

It is intended to squeeze the Pictured Cliffs perforations of the subject well and add pay to the Mesaverde formation according to the attached procedure and wellbore diagram. Please cancel previous sundry approved 2-23-96.

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

Signed *Debra Shadwell* (LLL8) Title Regulatory Administrator Date 4/10/96

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

CONDITION OF APPROVAL, if any:

**APPROVED**

APR 12 1996

DISTRICT MANAGER

NMOCD

## San Juan 27-5 Unit #4

### Mesaverde Pay-Add

Unit A, Section 29, T-27-N, R-5-W, Rio Arriba County, New Mexico

Lat. 36-32-56, Long. 107-22-32

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

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\*\*\*All vendors/service companies on location will be responsible for protection of the environment. Any questions call Lori Lantz at 599-4024.\*\*\*

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 w/ 102 jts (3292') of 1-1/4" EUE tbg. Visually inspect, tally, and lay down tubing.
4. Try to release tubing from Guiberson AN packer at 4730' by picking up above string weight. If tubing won't release, pick up 2-3 points above string weight and rotate 15 turns to the right. TOOH with 179 jts (5481') of 2-3/8" 4.7# tubing. Visually inspect, tally, and stand back tubing. Replace any bad joints.
5. PU 7" CJ milling tool and (6) drill collars. TIH on 2-3/8" tubing and mill over Guiberson AN packer at 4730'. TOOH and LD packer, milling tool, and collars.
6. PU 4-1/8" bit and 5" 18.75# casing scraper on 2-3/8" tbg. Rabbit and tally on TIH to PBTD of 5525'. TOOH and LD bit and scraper.
7. MIRU electric line unit. RIH and set CIBP at 5050' (use slow burn charge to set plug).
8. TIH w/ 7" packer on 2-3/8" tubing. TIH and set packer at approx 3400'. Load hole w/ 2% KCl and pressure test CIBP and casing to 1500 psi. Release packer. Pull up and reset packer at approx 3100'.
9. MIRU cement company. Test surface treating lines to 2500 psi (max squeeze pressure is 1500 psi). Establish injection into PC perforations from 3203' - 3304'. Perform hesitation squeeze on PC interval with 50 sks class H with low water loss. RDMO cement company. WOC 4 hours. Release packer. Pull up and reverse circulate 2 hole volumes. Reset packer at approx 2900'. WOC an additional 8 hours.

## San Juan 27-5 Unit #4

### Mesaverde Pay-Add

Unit A, Section 29, T-27-N, R-5-W, Rio Arriba County, New Mexico

Lat. 36-32-56, Long. 107-22-32

10. Release packer and TOO H with packer and tubing. PU 6-1/4" bit and 6 4-3/4" drill collars on 2-3/8" tubing. Drill out cement. Pressure test squeeze to 1000 psi surface pressure. TIH and clean out to liner top at 4763'. TOO H and lay down bit and collars.
11. Run GR-CBL-CCL from 5050' to top of liner at 4763' with 1000 psi surface pressure. Run repeat section with no pressure. Top of good cement must be above 4879' to continue. Evaluate CBL and send copy to production and drilling.

#### Cliffhouse Stimulation:

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

**4929' 4930' 4931' 4933' 4934' 4936' 4937' 4948' 4950' 4951'  
4952' 4953' 4972' 4974' 4975' 4976' 4978' 4984' 4987' 4989'  
4990' 4992' 4993'  
(46 total holes)**

13. RD electric line unit. PU 5" packer on 400' of 2-7/8" N-80 buttress and 4600' of 3-1/2" N-80 frac string. TIH and set packer at approx 5000'. Load hole w/ 2% KCl and pressure test CIBP to 4500 psi (80% of internal yield of 5700 psi). Pull up and reset packer at approximately 4780'. Stand back approximately 220' of 3-1/2" workstring.
14. RU stimulation company. **Hold safety meeting.** Pressure test surface treating lines to 5500 psi. **Maximum treating pressure is 4500 psi.** Pump 1000 gals of 15% HCl acid at 10-15 bpm. Drop a total of 69 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.
15. Release packer. TIH w/ 5" packer on frac string and knock balls off perforations. Pull up and reset packer at approx 4780'.
16. RU stimulation company. Pressure test surface treating lines to 7300 psi. **Maximum treating pressure for various rates is outlined below.** Fracture stimulate the Cliffhouse interval w/ 132,000# 20/40 sand in slickwater at approximately 35 bpm according to the attached procedure. Tag all sand-laden fluid w/ Iridium.

## San Juan 27-5 Unit #4

### Mesaverde Pay-Add

Unit A, Section 29, T-27-N, R-5-W, Rio Arriba County, New Mexico  
Lat. 36-32-56, Long. 107-22-32

Rate	Max Pressure
0 bpm	4500 psi
20 bpm	5100 psi
35 bpm	6300 psi

17. 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" and 3-1/2" frac strings.
18. PU mill on 2-3/8" tubing. TIH and clean out to CIBP set at 5050' with air until sand and water production is minimal. **Obtain flow gauge and record as Cliffhouse.** Mill up CIBP set at 5050' and clean out to PBTD of 5525'. TOOH and LD mill.
19. RU electric line unit. Run After-frac Gamma Ray (report if frac stayed in zone, if possible). Run spinner survey across Cliffhouse perforations. RDMO electric line unit. Send copy of logs to Production Engineering.
20. TIH with 2-3/8" 4.7# EUE tbg with expendable check and seating nipple one joint off bottom and cleanout to PBTD of 5525' with air. **Record flow gauge as Cliffhouse / Point Lookout.** Contact Production Operations for well tie-in. RDMO.

Approved: \_\_\_\_\_  
Regional Team Leader

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

# San Juan 27-5 Unit #4

## Unit A, Sec 29, T-27-N, R-5-W

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

Latitude: 36-32-56  
Longitude: 107-22-32

Current Field: Blanco MV / So. Blanco PC Ext.  
Spud: 8/26/53  
Elev GL: 6469'  
TD: 5570'

Logs Run: ES, GRI, GR, N-Gamma, TS  
Completed: 9/29/59  
Elev KB: 6479'  
PBTD: 5525'

### 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>
13-3/4"	9-5/8"	25.4#	SW	173'	125 sks	Surf (Circ)
8-3/4"	7"	20# & 23#	J-55	4825'	500 sks	3125' (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>
6-1/8"	5"	18.75# & 15#	P-110 & J-55	4763' - 5566'	115 sks	4764' (TS)

### 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#	EUE	5481'	179		
1-1/4"		EUE	3292'	102		
					Guiberson AN Pkr	4730'

### FORMATION TOPS:

Ojo Alamo	2600'	Pictured Cliffs	3234'	Pt Lookout	5400'
Kirtland	2766'	Cliffhouse	4865'	Gallup	—
Fruitland	2955'	Menefee	4995'	Dakota	—

### Completions:

Mesaverde - Point Lookout

Perfs: 5352-62, 5384-92, 5406-16, 5440-48, 5480-94 (2 spf)

Frac: 52,100 gal water & 60,000# sand + balls

ISWHP: 1089 ps      AOF: 1749 MCFD

Pictured Cliffs

Perfs: 3203-41, 3274-3304 (2 spf)

Frac: 35,100 gal water & 40,000# sand + balls

ISWHP: 1021 ps      AOF: 1330 MCFD

### Cementing Information

9-5/8" casing cemented w/ 125 sks regular cement.

7" casing cemented w/ 500 sks regular cement, 4 sks Flocele, and 3% gel.

5" casing cemented w/ 32 sks Diamix, 1/4# Flocele / sk, 1# tuff-plug / sk, & 6% gel, followed by 50 sks regular cement.

### Workover History:

7/2/59      Well sidetracked. (Originally openhole, SNG shot).