

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
MAR 12 1996

Sundry Notices and Reports on Wells

MAR 12 1996

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

915' FNL, 1020' FEL, Sec. 5, T-27-N, R-4-W, NMPM

5. Lease Number

SF-080673

6. If Indian, All. or Tribe Name

7. Unit Agreement Name

San Juan 27-4 Unit

8. Well Name & Number

San Juan 27-4 U #19

9. API Well No.

30-039-07206

10. Field and Pool

Tapacito Pictured 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

Type of Action

☒ Notice of Intent☐ Abandonment☒ Change of Plans☐ Subsequent Report☐ Recompletion☐ New Construction☐ Final Abandonment☐ 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 abandon the Pictured Cliffs formation and add pay to the Mesaverde formation of the subject well according to the attached procedure and wellbore diagram.

Please cancel the sundry approved 2-8-96.

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OIL CON. DIV.
DIST. 3

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

Signed Regan B. Shadfield (LLL9) Title Regulatory Administrator Date 3/5/96

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

APPROVED

MAR 06 1996

for DISTRICT MANAGER

NMCCO

San Juan 27-4 Unit #19 **Unit A, Sec 5, T-27-N, R-4-W**

Location: 915' FNL, 1020' FEL
 Rio Arriba County, NM

Latitude: 36-36-24
Longitude: 107-16-3

Current Field: Blanco MV / Tapacito PC
Spud: 6/26/58
Elev GL: 7163'
TD: 6455'

Logs Run: ES, GRN, GR, IND, ML, TS
Completed: 10/27/58
Elev KB: 7173'
PBTD: 6405'

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>
13-1/2"	10-3/4"	32.75#	Armco SW	293'	200 sks	Surf (circ)
9-7/8"	7-5/8"	26.4#	J-55	4262'	200 sks	3950' (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>
6-3/4"	5-1/2"	15.5#	J-55	4222' - 6450'	300 sks	4550' (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"	4.7#	EUE	6344'	204		
1-1/4"	1.47#	EUE	4096'	130		
					Bkr Mdl D Pkr	4201'

FORMATION TOPS:

Ojo Alamo	3585'	Pictured Cliffs	4073'	Pt Lookout	6205'
Kirtland	3692'	Cliffhouse	5840'	Gallup	—
Fruitland	3874'	Menefee	5925'	Dakota	—

Completions:

Mesaverde - Point Lookout
 Perfs: 6230-46, 6260-76, 6284-6310, 6336-52, 6370-88 (2 spf)
 Frac: 60,000# sd, 190 balls, and 50,000 gal water
 ISWHP: 993psi AOF: 4056 MCFD

Pictured Cliffs
 Perfs: 4074-4100, 4114-30, 4142-58 (2 spf)
 Frac: 50,000# sand, 75 balls, and 45,500 gal water
 ISWHP: 955 psi AOF: 990 MCFD

Cementing Information

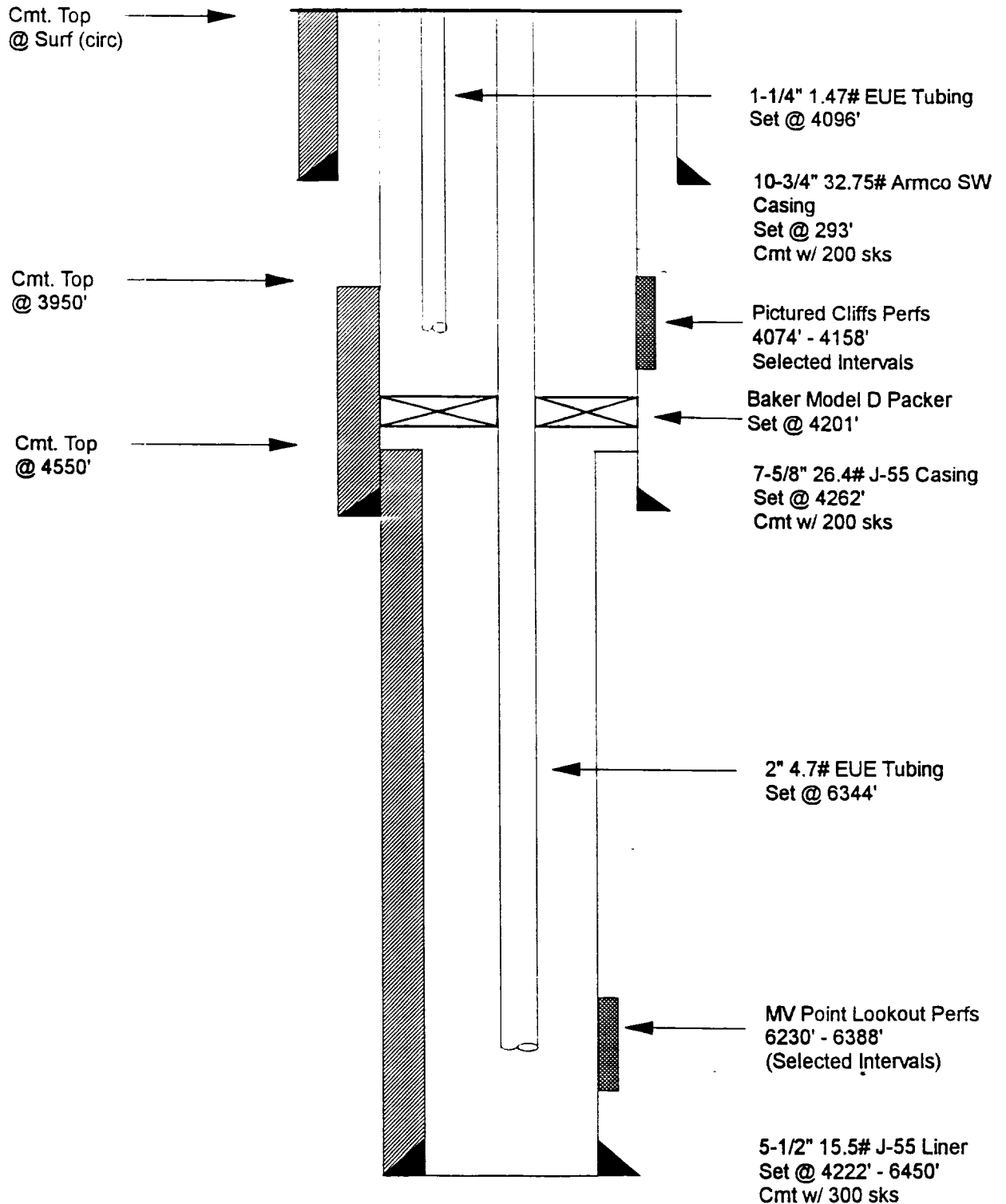
10-3/4" Casing cemented w/ 200 sks regular cement, 50 cu ft stratacrete, & 2% CaCl
 7-5/8" Casing cemented w/ 75 sks regular cement, 75 sks Pozmix, 37.5# Flocele and 4% gel, followed w/ 50 sks regular cement w/ 2% CaCl
 5-1/2" Casing cemented w/ 125 sks regular cement, 125 sks Pozmix, 6% gel, 31# Flocele, followed by 50 sks regular cement

Workover History:
 N/A

SAN JUAN 27-4 UNIT #19

Unit A, Section 5, T-27-N, R-4-W
Lat. 36-36-24, Long. 107-16-3

CURRENT WELLBORE SCHEMATIC



San Juan 27-4 Unit #19

Mesaverde Pay-Add

Unit A, Section 5, T-27-N, R-4-W, Rio Arriba County, New Mexico

Lat. 36-36-24, Long. 107-16-3

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 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/ 130 jts (4096') of 1-1/4" 1.47# EUE tbg. Visually inspect, tally, and lay down tubing. Replace any bad joints.
4. Release anchor latch on Baker Model D Packer by picking up 2-3 points above string weight and rotating 15 turns to the right. TOOH with 204 jts (6344') of 2-3/8" 4.7# tubing. Visually inspect, tally, and stand back tubing. Replace any bad joints.
5. PU 7-5/8" CJ milling tool and (6) drill collars. TIH on 2-3/8" tubing and mill over Baker Model D Packer at 4201'. TOOH and LD packer, milling tool, and collars.
6. PU 4-3/4" bit and 5-1/2" 15.5# casing scraper on 2-3/8" tbg. Rabbit and tally on TIH to PBTD of 6405'. TOOH and LD bit and scraper.
7. MIRU electric line unit. RIH and set CIBP at 6150' (use slow burn charge to set plug).
8. TIH w/ 7-5/8" packer on 2-3/8" tubing. TIH and set packer at approx 4250'. Load hole w/ 2% KCl and pressure test RBP and casing to 1500 psi. Release packer. Pull up and reset packer at approx 3900'.
9. MIRU cement company. Test surface treating lines to 2500 psi (max squeeze pressure is 1500 psi). Establish injection into PC perforations from 4074' - 4158'. 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 reset packer at approx 3700'. Reverse circulate 2 hole volumes. WOC an additional 8 hours.

San Juan 27-4 Unit #19

Mesaverde Pay-Add

Unit A, Section 5, T-27-N, R-4-W, Rio Arriba County, New Mexico

Lat. 36-36-24, Long. 107-16-3

10. Release packer and TOOH with packer and tubing. PU 6-3/4" 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 4222'. TOOH and lay down bit and collars.
11. Run GR-CBL-CCL from 6150' to top of liner at 4222' with 1000 psi surface pressure. Run repeat section with no pressure. Top of good cement must be above 5773' to continue. Evaluate CBL and send copy to production and drilling.

Cliffhouse / Menefee Stimulation:

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

**5841' 5842' 5843' 5849' 5850' 5851' 5856' 5857' 5858' 5871'
5872' 5873' 5878' 5879' 5880' 5881' 6056' 6057'**
(36 total holes)
13. RD electric line unit. PU 5-1/2" packer on 2-7/8" N-80 buttress frac string. TIH and set packer at approx 6100'. Load hole w/ 2% KCl and pressure test CIBP to 3800 psi (80% of internal yield of 4810 psi). Pull up and reset packer at approx 5650'.
14. 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.
15. 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 5650'.
16. RU stimulation company. Pressure test surface treating lines to 9400 psi. **Maximum treating pressure for various rates is outlined below.** Fracture stimulate the Cliffhouse and Menefee intervals w/ 100,000# 20/40 sand in 70Q Nitrogen foam (30# x-linked pad, 30# linear based foam) at approximately 20 bpm according to the attached procedure.

**Rate
0 bpm**

**Max Pressure
3800 psi**

San Juan 27-4 Unit #19

Mesaverde Pay-Add

Unit A, Section 5, T-27-N, R-4-W, Rio Arriba County, New Mexico

Lat. 36-36-24, Long. 107-16-3

10 bpm

5200 psi

20 bpm

8400 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" frac string.
18. PU mill on 2-3/8" tubing. TIH and clean out to CIBP set at 6150' with air until sand and water production is minimal. **Obtain flow gauge and record as Cliffhouse / Menefee.** Mill up CIBP set at 6150' and clean out to PBTD of 6405'. TOOH and LD mill.
19. TIH with 2-3/8" 4.7# EUE tbg with expendable check and seating nipple one joint off bottom and cleanout to PBTD of 6405' with air. **Record flow gauge as Cliffhouse / Menefee / Point Lookout.** Contact Production Operations for well tie-in. RDMO.

Approved: _____

Arden Walker Jr. 3/4/96
Regional Team Leader

Approved: _____

W.S. Smith 3/1
Drilling Superintendent