

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
CLM

Sundry Notices and Reports on Wells JUL - 2 PM 12:43

070 FARMINGTON, NM

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  
1650' FNL, 1650' FEL, Sec. 14, T-31-N, R-10-W, NMPM  
G

Lease Number  
NM-01594  
6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

San Juan 32-9 Unit  
8. Well Name & Number  
San Juan 32-9 U #13

9. API Well No.  
30-045-10761

10. Field and Pool  
Blanco Pictured Cliffs/  
Blanco Mesaverde

11. County and State  
San Juan 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  
☒ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other - Add Mesaverde pay  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut off  
☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to add pay to the existing Mesaverde formation and add the Pictured Cliffs formation to the subject well according to the attached procedure and wellbore diagram. The well will then be down-hole commingled. A down-hole commingle order will be applied for with the New Mexico Oil Conservation Division.

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JUL 09 1996

OIL CON. DIV.  
DIST. 3

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

Signed Nancy Oltnanns-for (JAS5) Title Regulatory Administrator Date 7/2/96

(This space for Federal or State Office use)

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

CONDITION OF APPROVAL, if any:

APPROVED

JUL 03 1996

DISTRICT MANAGER

NMOCDD

District I  
PO Box 1988, Hobbs, NM 88241-1988  
District II  
PO Drawer DD, Aramis, NM 88211-0719  
District III  
1000 Rio Hondo Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION-2 PM 12:43  
PO Box 2088  
Santa Fe, NM 87504-2088  
070 FARMINGTON, NM

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Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-10761		Well Code 72359/72319		Well Name Blanco Pictured Cliffs/Blanco Mesaverde	
Property Code 7473		Property Name San Juan 32-9 Unit			Well Number 13
OGRID No. 14538		Operator Name MERIDIAN OIL INC.			Elevation 6322'

#### 10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	14	31 N	10 W		1650	North	1650	East	S.J.

#### 11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.

E/320-160

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16

Not resurveyed, prepared  
from a plat dated 2-13-53  
by C. O. Walker.

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OIL CON. DIV.  
DIST. 3

#### 17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Nancy Oltmanns  
Signature

Nancy Oltmanns - for  
Printed Name

Regulatory Administrator  
Title

7-2-96  
Date

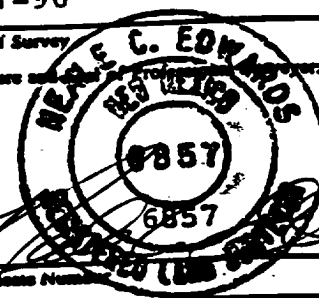
#### 18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

7-1-96

Date of Survey

Signature of Surveyor



Certification Number

**San Juan 32-9 Unit #13 - MV**  
Pay Add Menefee and Pictured Cliffs (Comminge Production)  
Lat-Long by TDG: 36.900726 - 107.847977  
NE/4 Section 14, T31N-R10W  
**RECOMPLETION PROCEDURE 5/31/96**

1. Hold safety meeting. MIRU. Comply with all MOI, BLM and NMOCD rules and regulations. Install 4 frac tanks and 1x400 bbl rig tank. Fill each frac tank with 3#'s of biocide using Aztec city water if possible at 2% KCl concentration.
2. Obtain and record all wellhead pressures. ND WH, NU BOP. TOOH w/ 2-3/8" tubing set at 5467'. Replace bad tubing as necessary.
3. PU 7", 23# casing scraper on 2-3/8" tubing and TIH. Run casing scraper to 4660'. TOOH.
4. TIH with 2-3/8" tubing, 5-1/2", 15.5# casing scraper and 4-3/4" bit. CO to PBTD of 5490'. Circulate hole clean with air/mist. TOOH.
5. RU wireline. Set a 5-1/2" CIBP @  $\pm$  5350'.
6. TIH w/ 5-1/2" packer on 2-3/8" tubing to 5330'. Set packer and pressure test casing and CIBP to 3000 psi. for 15 minutes. Release packer and unload hole w/ air. Spot 350 gallons of 15% HCL @ 5350'. TOOH.
7. RU wireline and full lubricator. Perforate the Menefee interval using 3-1/8" HSC guns with 12 gram charges (Owen HSC-3125 306T), 2 SPF and 0.29" diameter holes:

**5050, 5069, 5072, 5090, 5102, 5110, 5118, 5136, 5142,  
5206, 5210, 5220, 5224, 5243, 5262, 5292, 5312,**

17 intervals, 34 holes

Inspect guns to ensure all perforations fired. RD wireline.

8. TIH w/ 5-1/2" packer and PU 5030' of 3-1/2" N-80 buttress frac string. Set packer @ 5030'.
9. RU flowback line w/ 1/4" positive choke. RU Stimulation Company. Pressure test flowback line to 1000 psi w/ plug in the end.
10. Hold safety meeting. **Max allowable surface treating pressure is 3000 psi @ 30 BPM.** Pressure test surface lines to 4000 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines). Stimulate the Menefee interval @ +/- 35 BPM w/ 30# XL gel and 7000 SCF/M N2, 40/70 Arizona, 20/40 Arizona and 20/40 resin coated. Sand will not be tagged. Stage flush when sand concentration drops to 4-1/2 #/gal. Quick flush w/ 2% KCL water and N2. Cut flush rate in half (to 15 BPM) when half of flush is away. Note rate and pressure and underflush by a minimum of 10%.
11. Flow back well immediately through 1/8" positive choke to reverse gravel pack. If well is not dead after 2 hours, open well wide open over 15 minutes until pressure falls to zero. Accurately record sand volume and gel/water coming back.
12. Release packer and TOOH laying down all but 3100' of frac string.

**PICTURED CLIFFS SQUEEZE PROCEDURE**

13. RU wireline. Set a 7" RBP @ 4200'. Spot 10' sand on RBP.
14. Load hole w/ 2% KCL water.
15. RU wireline. Run GR/CBL from 4190' to surface. Expedite copy of GR/CBL to office.
16. Perforate 2 squeeze holes @ approximately 3300' and 2 squeeze holes @ 2800'. Actual squeeze perforations will be determined from CBL.
17. PU 7" cement retainer on 2-3/8" tubing and TIH. Set retainer @ 3250' or 50' above actual lower squeeze perforations. Sting into retainer and establish injection rate.

Mix cement @ 15.4 #/gal (keeping constant density). Squeeze perforations w/ cement. Under displace by one (1) BBL. Sting out of retainer and TOOH. LD stinger.

**Be prepared to reverse out if early squeeze is obtained before displacement is complete.**

**Cement Slurry: 135 sx Class "B" Standard Cement (100% Excess)  
0.3% halad 344 (Fluid Loss)  
3-1/2 pps Gilsonite (Loss Circulation).**

**15.4 #/gal      1.27 cf/sk      4.97 gal/sk**

18. WOC 18 hrs
19. TIH w/ 6-1/4" bit and drill collars on 2-3/8" tubing. Drill cement but not retainer to 3250' w/ 2% KCL water. TOOH.
20. PU 7" packer on 2 jts of 3-1/2" tbg and set. Pressure test upper squeeze holes to 750 psi. If holes do not test contact office for squeeze procedure. LD packer.
21. RU wireline. Run GR/CBL from 3250' to TOC. Expedite copy of GR/CBL to office. Perforate the following Pictured Cliffs interval bottom up using centralized 3-1/8" HSC guns with 12 gram charges **1 SPF** (Owen HSC-3125 306T) and .26" diameter perfs:  
  
**3134' - 3158'      (24 perfs total @ 1 SPF)**  
  
Inspect guns to ensure all perforations fired. RD wireline and lubricator.
22. TIH w/ 7" packer and 3000' of 3-1/2" N-80 buttress frac string. Set packer @ 3000'. Hold 500 psi on backside during balloff.

San Juan 32-9 Unit #13  
Menefee/Pictured Cliffs Pay Add Commingle

23. RU stimulation company. Pressure test surface lines to 4000 psi (1000 psi over maximum treating pressure). **Maximum treating pressure during acid job is 3000 psi.** Pump 36 bbls (1,500 gallons) of 15% HCl acid at maximum rate pressure will allow (Add 2/1000 gallons corrosion inhibitor, 1/1000 gallons surfactant and 5/1000 gallons iron sequestering agents to the acid). Drop a total of 48 (two balls per perforation) 7/8" diameter 1.3 specific gravity RCN ball sealers spaced evenly throughout the job. Flush with 1% KCL. Record injection rate and all breakdown pressures throughout the job. If well is not on a vacuum, calculate frac gradient and determine number of holes open.
24. Unset packer and knock off balls. Reset packer @ 3000'. Hold 500 psi on backside.
25. RU MOI flowback line w/ with a 1/4" positive choke. RU simulation company. Pressure test flowback line to 1000 psi and stimulation company's lines to 6000 psi.
26. RU stimulation company. Hold safety meeting. **Maximum surface treating pressure during frac is 5000 psi.** Fracture Stimulate Pictured Cliffs interval according to attached procedure at 30-40 BPM using 20# linear pad and 70 Quality Nitrogen with 100,000 #'s of sand. Flush with 2% KCL water and N2. Do not slow rate during flush. Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall).
27. RU immediate flowback line. Flow back well ASAP through 1/4" positive choke until pressure falls to zero. Accurately record sand volume and gel/water flowing back.
28. Unset packer and TOOH laying down fracstring.
29. TIH w/ 6-1/4" bit and drill collars on 2-3/8" tubing. Clean out to 3250'. Do not drill retainer. Clean hole w/ air/mist.

**Obtain stabilized pitot gauge for PC interval. Important: Pitot Gauge will be used for commingling allocation. Confirm with office before proceeding.**

Drill cement retainer @ 3250' and clean out to TOL @ 4660'. TOOH.

30. TIH w/ 2-3/8" tbg. and 4-3/4" bit CO to RBP @ 5350'. When hole is clean, obtain pitot gauge for Pictured Cliffs/Cliffhouse/Menefee interval. TOH. TIH w/ret. head and release 5-1/2" RBP @ 5350'. TOOH.
31. PU a 4-3/4" bit on 2-3/8" tubing. CO with air/mist to PBTD @ 5490'.
32. PU above the Mesaverde perforations and flow the well naturally, making short trips for clean up when necessary.

**Obtain stabilized pitot gauge for entire well. Important: Final Pitot Gauge will be used for commingling allocation. Confirm gauge with office before proceeding.**

33. When sand and water has diminished to acceptable levels, TOOH.

San Juan 32-9 Unit #13  
Menefee/Pictured Cliffs Pay Add Commingle

34. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, an F-nipple, then the remaining 2-3/8" production tubing. Land tubing near bottom MV perforation @ 5467' as removed from well originally.
35. ND BOP's. NU WH. Pump off expendable check. Make swab run to ensure tubing is clear. Obtain final pitot gauge. RD and MOL.

Approval:

\_\_\_\_\_  
Northwest Basin Team Leader

\_\_\_\_\_  
Drilling Superintendent

**Engineers -**

**James A. Smith**

Office - (326-9713)

Home - (327-3061)

Pager - (324-2420)

**Mary Ellen Lutey**

Office - (599-4052)

Home - (325-9387)

Pager - (324-2671)

**Frac Consultants**

**Mark Byars**

Pager - (327-8470)

Mobile - (320-0349)

Home - (327-0096)

**Mike Martinez**

Pager - (599-7429)

Mob - (860-7518)

Home - (326-4861)

JAS

q:\area\ar45\1996proj\32-9#13\pro.doc

Pertinent Data Sheet  
**SAN JUAN 32-9 UNIT #13**

**Location:** Unit G-SW/4 NE/4, Section 14, T31N, R10W, 1650' FNL, 1650' FEL,  
Lat. 36.900726, Long. -107.847977 by TDG  
San Juan County, NM

**Field:** Blanco Mesaverde

**Elevation:** 6322' GL  
6332' DF

**TD:** 5555'  
**PBTD:** 5490'

**Spud Date:** 03/07/53

**Completed:** 03/29/53

**DP No:** 69848

**Prop. No:** 0023423

**Casing/Liner Record:**

<u>Hole Size</u>	<u>Csg. Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
12¼"	9 5/8"	25.4# S.W.	170'	135 sx	To surface
8¾"	7"	*23# Foreign&20#J-55	4793'	300 sx	3885' (TS)
6¼"	5½"	15.5# J-55 Liner	4660'-5546'	200 sx	4925' (TS)

\*Top 3 joints J-55 20#.

(3/1953) Squeezed 200 sx through Bradenhead. BOC @ 700' (calc. @ 70% eff.)  
5½" Burns liner hanger. Squeezed liner hanger with 150 sx.

**Tubing Record:** 2 3/8" 4.7# J-55 @ 5467' (184 joints).

**Formation Tops:**

Ojo Alamo:	1530'	Lewis:	3340'
Kirtland:	1582'	Upper Cliffhouse:	4651'
Fruitland:	2697'	Massive Cliffhouse:	4928'
Pictured Cliffs:	3133'	Menefee:	5007'
		Massive Point Lookout:	5331'

**Logging Record:** ES, GRI, TS

**Stimulation History:** (Original )1485 quarts SNG from 4895' to 5555'. Natural gauge 517 mcf.

**Workover History:** (07/56): Cleaned out open hole. Ran 5½" casing. Cemented with 100 sx regular cement and 100 sx Pozmiz. Held 1000# for 30 minutes. TOC @ 4925' by TS. Squeezed liner hanger with 150 sx (125 sx behind liner). Final pressure 2000#. Tested with 1000#, OK. Cleaned out to 5490'.

**Stimulation History:** (Workover)

Perfed Point Lookout @ 5378'-5398', 5423'-5430', 5444'-5465' with 4 SPF.  
Frac'd with 57,500 gallons of water and 60,000# of sand. MTP=1800#, ATP=1500#,  
IR=42 BPM, BDP=none.

Perfed Lower Cliffhouse @ 4982'-5006' with 4 SPF. Frac'd with 65,000 gallons of  
water and 45,000# of sand. BDP=3000#, MTP=3000#, ATP=2400#, IR=46 BPM.

Perfed Upper Cliffhouse @ 4891'-4899', 4901'-4917', 4946'-4960' with 4 SPF.  
Frac'd with 55,000 gallons of water, 42,500# of sand. BDP=2200#, MTP=3800#,  
ATP=2400#, IR=25 BPM. Landed tubing @ 5467' with 184 joints.

# SAN JUAN 32-9 UNIT #13

BLANCO MESAVERDE

AS OF 5/31/96

1650' FNL, 1650' FEL

SEC 14, T31N, R10W, SAN JUAN COUNTY, NM

