

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports on Wells 96 SEP -9 PM 2:15

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
1190' FNL, 820' FEL, Sec. 1, T-31-N, R-10-W, NMPM
A

070 FARMINGTON, NM

Lease Number
SF-078507
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 #3
9. API Well No.
30-045-11083
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 ☐ 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 and restimulation

13. Describe Proposed or Completed Operations

It is intended to add pay and restimulate the Mesaverde formation of the subject well. The Pictured Cliffs formation will be added also according to the attached procedure and wellbore diagram.

RECEIVED
SEP 16 1996
OIL CON. DIV.
DIST. 3

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

Signed Duane W. Spencer (MEL5) Title Regulatory Administrator Date 9/9/96

(This space for Federal or State Office use)

APPROVED BY _____ Title _____
CONDITION OF APPROVAL, if any:

Date **APPROVED**

SEP 10 1996
/S/ Duane W. Spencer
DISTRICT MANAGER

NMOC

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Nio Hrasne Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico RECEIVED
Energy, Minerals & Natural Resources Department BLM

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088
070 FARMINGTON, NM

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 30-045-11083		Pool Code 72359/72319		Pool Name Blanco Pictured Cliffs/Blanco Mesaverde	
Property Code 7473		Property Name San Juan 32-9 Unit			Well Number 3
OGRID No. 14538		Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY			Elevation 6698'

10 Surface Location

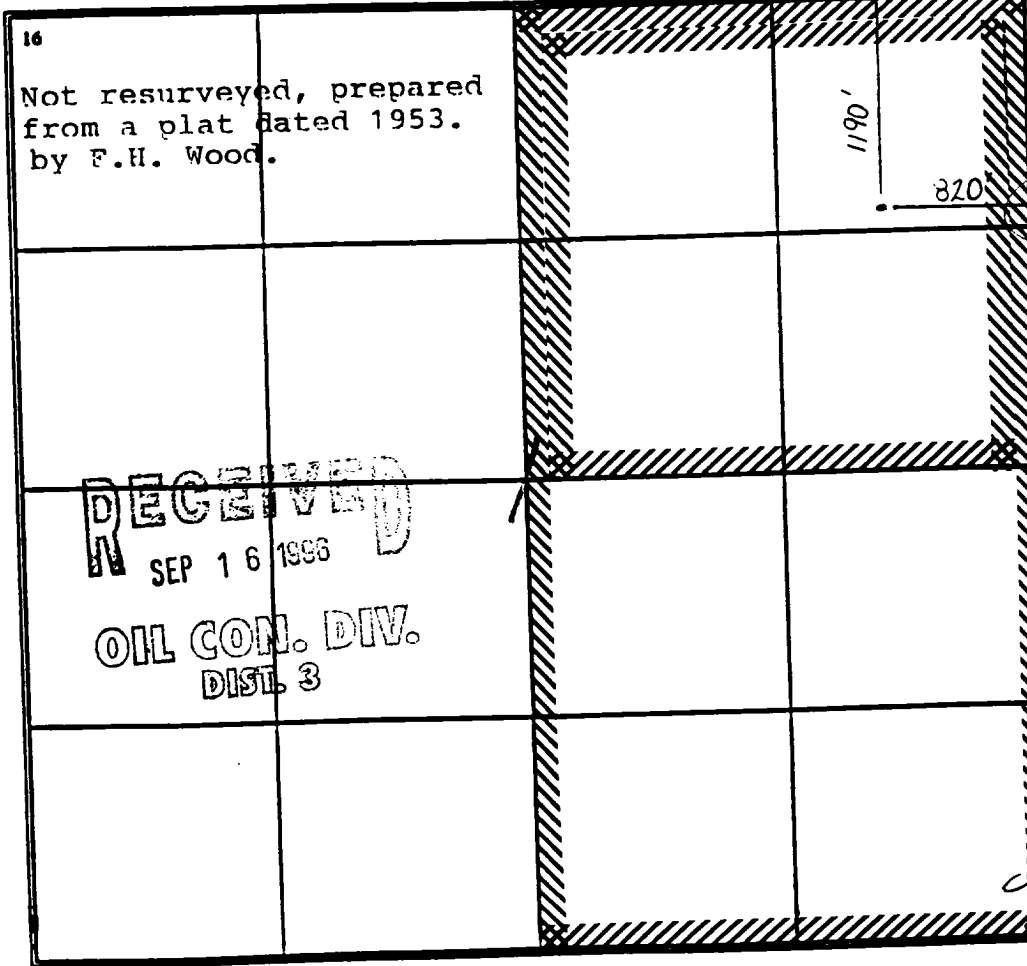
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
A	1	31 N	10 W		1190	North	820	East	S.J.

11 Bottom Hole Location If Different From Surface

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

12 Dedicated Acres 147.73 E/292.63	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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



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

Peggy Bradfield
Signature
Peggy Bradfield
Printed Name
Regulatory Administrator
Title
9-9-96
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.

9-6-96

Date of Survey
Signature and Seal of Professional Surveyor
NEW C. EDWARDS
6857
6857
Certificate Number

San Juan 32-9 Unit #3 - Mesaverde
Point Lookout Restim, Menefee Payadd and Pictured Cliffs Recomplete
 Lat-Long by TDG: 36.930862 - 107.829422
 NE/4 Section 01, T31N-R10W
COMPLETION PROCEDURE 8/29/96

1. Hold safety meeting. MIRU. Comply with all MOI, BLM and NMOCD rules and regulations. Install 6 frac tanks and 1x400 bbl rig tank. Fill each frac tank with 3#'s of biocide and Aztec city water with 2% KCl.
2. Obtain and record all wellhead pressures. ND WH, NU BOP. TOOH w/ 2-3/8" tubing set at 6104'. Replace bad tubing as necessary.
3. TIH with 2-3/8" tubing, 4-1/2" (10.5#) casing scraper and 3-7/8" bit. CO to PBTD of 6214'. Blow hole clean with air/mist. TOOH.
4. RIH and wireline set a RBP @ \pm 5380'.
5. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer and pressure test casing and RBP to 3800 psi. Release packer and TOOH standing back frac string.
6. TIH w/ retrieving head on 2-3/8" tubing. Latch on to RBP set @ 5380' and TOOH.
7. TIH w/ 4-1/2" cement retainer on 2-3/8" tubing. Set cement retainer @ \pm 5760' (50' above Point Lookout perms).
8. RU cement company. PU tubing to test position on the retainer. Pressure test tubing to 2500 psi. Set down on tubing to open check and establish an injection rate with water.
9. Squeeze below retainer into Point Lookout perforations to 1000 psi with 200 sx of cement keeping the following slurry constant:

<u>Type</u>	<u>Density</u>	<u>Yield</u>	<u>Water vol.</u>	<u>Additives</u>
Class B	15.6#/gal	1.18 ft ³ /sx	5.2 gal/sx	0.3% fluid loss 3.5 #/sx gilsonite

Displace cement w/ 21.5 bbls (under displaced by 0.75 bbls.) Sting out of retainer and TOOH w/ 2-3/8" tubing. WOC for a minimum of 18 hours.

10. TIH with 3-7/8" mill, 2-7/8" drill collars (if necessary) and 2-3/8" tubing. Drill out retainer (@ 5760') and cement. CO to PBTD (6214'). TOOH.
11. RU wireline w/ full lubricator and perforate the following Point Lookout interval using 3-1/8" HSC guns with 12 gram charges and 0.29" diameter holes: (22 perms total)

5811	5936
5819	5947
5831	5962
5847	5984
5860	6002
5868	6013
5874	6027
5883	6054
5895	6067
5908	6104
5923	6111

Inspect guns to ensure all perforations fired. RD wireline.

12. TIH with two 4-1/2" Scab Liner Packers with 3 joints ($\pm 93'$) of 2-3/8" tubing between the two packers on 2-3/8" tubing. Set Scab Liner to overlap the existing Cliff House perforations @ 5390' to 5462' (72' between top and bottom perf). Set top packer element @ $\pm 5380'$ and bottom element @ $\pm 5473'$. TOOH.
13. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer @ $\pm 60'$.
14. **Hold safety meeting. Maximum allowable surface treating pressure is 3800 psi.**
15. Pressure test surface lines to 4800 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Restimulate the Point Lookout interval @ ± 40 BPM using 30# linear gel w/ 70 Quality Nitrogen and 110M lbs. of sand tagged with Iridium. (See attached stimulation procedure.) Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall.) Cut flush by 15% if well is on a vacuum. Flow well back immediately through 1/8" positive choke. Increase choke size until pressure falls to zero.
16. Release packer and TOOH standing back frac string.
17. TIH with Scab Liner retrieving tool and bumper sub on 2-3/8" workstring. Recover Scab Liner and TOOH.
18. RU wireline w/ full lubricator. RIH and wireline set a 4-1/2" CIBP @ $\pm 5800'$.
19. Perforate the following Menefee interval using 3-1/8" HSC guns with 12 gram charges and 0.29" diameter holes: (24 perfs total)

5548	5699
5552	5703
5556	5713
5577	5719
5580	5724
5583	5729
5638	5742
5668	5744
5671	5747
5679	5759
5687	5763
5693	5771

Inspect guns to ensure all perforations fired. RD wireline.

20. TIH w/ 4-1/2" fullbore packer and 2-3/8" work string. Set packer @ $\pm 5790'$ and pressure test CIBP to 3800 psi. Release packer, TOOH to $\pm 5475'$ and reset packer @ $\pm 5475'$.
21. **Maximum allowable treating pressure is 3800 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ ± 8 Bbls/min dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls for each perf). Release packer and TIH knocking balls off of perforations. TOOH.
22. TIH with two 4-1/2" Scab Liner Packers with 3 joints ($\pm 93'$) of 2-3/8" tubing between the two packers on 2-3/8" tubing. Set Scab Liner to overlap the existing Cliff House perforations @ 5390' to 5462' (72' between top and bottom perf). Set top packer element @ $\pm 5380'$ and bottom element @ $\pm 5473'$. TOOH.
23. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer @ $\pm 60'$.

24. **Hold safety meeting. Maximum allowable surface treating pressure is 3800 psi.**
25. Pressure test surface lines to 4800 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Menefee interval @ ± 40 BPM using 30# linear gel w/ 70 Quality Nitrogen and 110M lbs. of sand tagged with Iridium. (See attached stimulation procedure.) Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall.) Cut flush by 15% if well is on a vacuum. Flow well back immediately through 1/8" positive choke. Increase choke size until pressure falls to zero.
26. Release packer and TOOH standing back frac string.
27. TIH with Scab Liner retrieving tool and bumper sub on 2-3/8" workstring. Recover Scab Liner and TOOH.
28. RU wireline w/ full lubricator. RIH and set a 4-1/2" CIBP @ $\pm 5300'$.
29. RIH w/ free point tool. Free point and back off casing above the free point. Lay down 4-1/2" casing.
30. Run CBL-CCL-GR from $\pm 5300'$ to surface. Send logs to office immediately and perforations will be provided. If TOC is below PC perforations, contact the office and a squeeze procedure will be provided.
31. TIH w/ 7" fullbore packer and 2-3/8" tubing to $\pm 50'$ below all squeeze holes. Set packer and pressure test RBP to 3800 psi. Release packer and TOOH.
32. Dump $\pm 10'$ of sand on top of RBP w/ dump bailer.
33. Perforate the Pictured Cliffs interval ($\pm 3550' - \pm 3650'$) using 3-1/8" HSC guns with 12 gram charges and 0.29" diameter holes.

Inspect guns to ensure all perforations fired. RD wireline.
34. TIH w/ 7" fullbore packer on 3-1/2" N-80 frac string. Set packer @ $\pm 3400'$ (provided good cement). Set 500 psi on backside and monitor during acid job.
35. **Maximum allowable treating pressure is 3450 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ ± 8 Bbls/min dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole). Release packer and TIH knocking balls off of perforations. TOOH to $\pm 3400'$ (provided good cement) and reset packer. Set ± 500 psi on backside and monitor during frac job.
36. **Hold safety meeting. Maximum allowable static surface treating pressure is 3450 psi.**
37. Pressure test surface lines to 6000 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Pictured Cliffs interval @ ± 40 BPM using 30# linear gel w/ 70 Quality Nitrogen and 86.1M lbs. of sand tagged with Iridium. (See attached stimulation procedure.) Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall.) Cut flush by 15% if well is on a vacuum. Flow well back immediately through 1/8" positive choke. Increase choke size until pressure falls to zero.
38. Release packer and TOOH laying down frac string.

39. TIH w/ 3-7/8" mill and 2-3/8" workstring. CO to CIBP set @ \pm 5300'. Obtain accurate pitot gauge for Pictured Cliffs interval. (This will be used in allocation formula for commingling.)
40. Drill up CIBP set @ 5300' and CO to CIBP set @ 5800'. Obtain pitot gauge for Pictured Cliffs / Cliffhouse / Menefee interval.
41. Drill up CIBP set @ 5800' and CO to PBTD (6214'). PU above the Mesaverde perforations and flow the well naturally, making short trips for clean up when necessary. Obtain pitot gauge for Mesaverde after clean up.
42. When sand has diminished, TOOH.
43. RU wireline and run After Frac GR from \pm 6214' to top of tracer activity.
44. 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. CO to PBTD. Land tubing near bottom perforation (6111').
45. ND BOP's, NU WH. Pump off expendable check. Obtain final pitot up the tubing if possible. If well will not flow on it's own, make swab run to FN. If a swab run is not necessary, run a broach on slickline to ensure that the tubing is clear. RD and MOL. Return well to production.

Approval: _____
Drilling Superintendent

Approval: _____
Northwest Basin Team Leader

Contacts:

Engineers:	Mary Ellen Lutey Office - (599-4052) Home - (325-9387) Pager - (324-2671)	Lori Lantz Office - (599-4024) Home - (324-0692)
Frac Consultants:	Mark Byars Pager - (327-8470) Mobile - (320-0349) Home - (327-0096)	Mike Martinez Pager - (599-7429) Mobile - (860-7518) Home - (327-6161)

Pertinent Data Sheet

SAN JUAN 32-9 #3

Location: Unit A NE/4 NE/4, Section 01, T31N, R10W, 1190' FNL, 820' FEL,
Lat. 36.930862, Long. -107.829422 by TDG
San Juan County, NM

Field: Blanco Mesaverde

Elevation: 6694' GL
KB: N/A

TD: 6251'
PBTD: 6214'

Spud Date: 04-24-53

Completed: 06-05-53 Sidetracked 4/17/70

DP No: 69971

Prop. No: 0023423

Casing/Liner Record:

<u>Hole Size</u>	<u>Csg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
Unknown	10¾"	40.5#	227'	115 sx	to surface
Unknown	7"	23#	5260'	210 sx	TOC unknown
Unknown	4½"	10.5# J-55	6251'	125 sx	4930' (TS)

Tubing Record: 2 3/8" 4.7# J-55 set @ 6104'.

Formation Tops:

Ojo Alamo:	1948'
Kirtland:	2010'
Fruitland:	3107'
Pictured Cliffs:	3540'
Lewis:	3652'
Upper Cliffhouse:	5090'
Massive Cliffhouse:	5390'
Menefee:	5480'
Massive Point Lookout:	5810'
Lower Point Lookout:	5913'

Logging Record: Ind., FDC/GR, TS

Perf/Stim History: Originally completed open hole.

Workover History: Tubing was cut off @ 5360'. Although the pressure test to 1000 psi on the 7" csg was OK, the 7" csg was squeezed across the Ojo Alamo @ 2010' w/340 sx Class "C" cement. Open hole was squeezed w/275 sx Class "C" cement. Drilled cement to 5270' and began drilling sidetrack. Perfed 5810'-5826', 5836'-5852', 5866'-5874', 5894'-5910', 6066'-6070', 6104'-6112'. Fraced with 65,000# of 20/40 sand and 52,590 gallons of water. Perfed 5390'-5406', 5416'-5420', 5432'-5444', 5454'-5462'. Fraced with 45,000# of 20/40 sand and 38,100 gallons of water.

Note: Problem getting down with perf guns (3-1/2" x 12' casing gun). Dog leg @ 5277.

Caution: Well may have a plunger installed.

SAN JUAN 32-9 UNIT #3

AS OF 4/51/96

BLANCO MESAVERDE

1190' FNL, 820' FEL

SEC 1, T31N, R10W, SAN JUAN COUNTY, NM

COMPLETED 6/5/53
SIDETRACKED 4/17/70
ELEVATION 6694' GL

OJO ALAMO @ 1948'

KIRTLAND @ 2010'

FRUITLAND @ 3107'

PICTURED CLIFFS @ 3540'

LEWIS @ 3652'

UPPER CLIFF HOUSE @ 5090'

7" 23# CSG SET @ 5260'
CEMENT WITH 210 SX

SIDETRACK @ 5270'

MASS. CLIFF HOUSE @ 5390'

SQ OPEN HOLE W/150 SX
RE-SQ W/125 SX

MENEFEE @ 5480'

MASS. PT LOOKOUT @ 5810'

LOWER PT LOOKOUT @ 5913'

10-3/4" 40.5# CSG SET @ 227'
CEMENT WITH 115 SX TO SURFACE

TOC UNKNOWN

SQUEEZE @ 2010' WITH 215 SX CMT
RE-SQUEEZE WITH 125 SX CMT

2-3/8" 4.7# J-55 TBG SET @ 6104'

TOC UNKNOWN

TOC @ 4930' (TS)

PERFS 5390'-5462'
FRAC W/45,000# SAND AND
38,100 GAL WATER

PERFS 5810'-6112'
FRAC W/65,000# SAND AND
52,590 GAL WATER

4-1/2" 10.5# J-55 CSG SET @ 6251'
CMT W/125 SX

TD 6251'
PBSD 6214'