

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports on well 28

070 FARMINGTON, NM
MAY 28 PM 1:39

1. Type of Well
GAS

Lease Number
SF-078386A
6. If Indian, All. or
Tribe Name

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

7. Unit Agreement Name

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

8. Well Name & Number
Sunray G #1A

9. API Well No.
30-045-22815

4. Location of Well, Footage, Sec., T, R, M

1460' FNL, 1105' FWL, Sec. 21, T-31-N, R-9-W, NMMPM

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

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 - Commingle

13. Describe Proposed or Completed Operations

It is intended to add the Pictured Cliffs formation to the subject well according to the attached procedure and wellbore diagram. After recompletion the well will be down hole commingled. A down hole commingle application will be applied for.

RECEIVED
MAY - 9 1997

OIL CON. DIV.
DIST. 3

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

Signed [Signature] (MEL5) Title Regulatory Administrator Date 4/26/97

(This space for Federal or State Office use)

APPROVED BY /s/ Duane W. Spencer

Title _____

Date MAY - 7 1997

CONDITION OF APPROVAL, if any:

NMOCB

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-10
Revised February 21, 199

PO
District
PO Drawer
District III
1000 Rio Brazos Rd..
District IV
PO Box 2088, Santa Fe, NM 87504-2088

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

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

97 APR 28 PM 1:39

☐ AMENDED REPORT

WELL AND ACREAGE DEDICATION PLAT

API Number 30-045-22815	Well Number 72359	Pool Name Blanco Pictured Cliffs/Blanco Mesaverde
Property Code 7569	Property Name Sunray G	Well Number 1A
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6473'

¹⁰ Surface Location

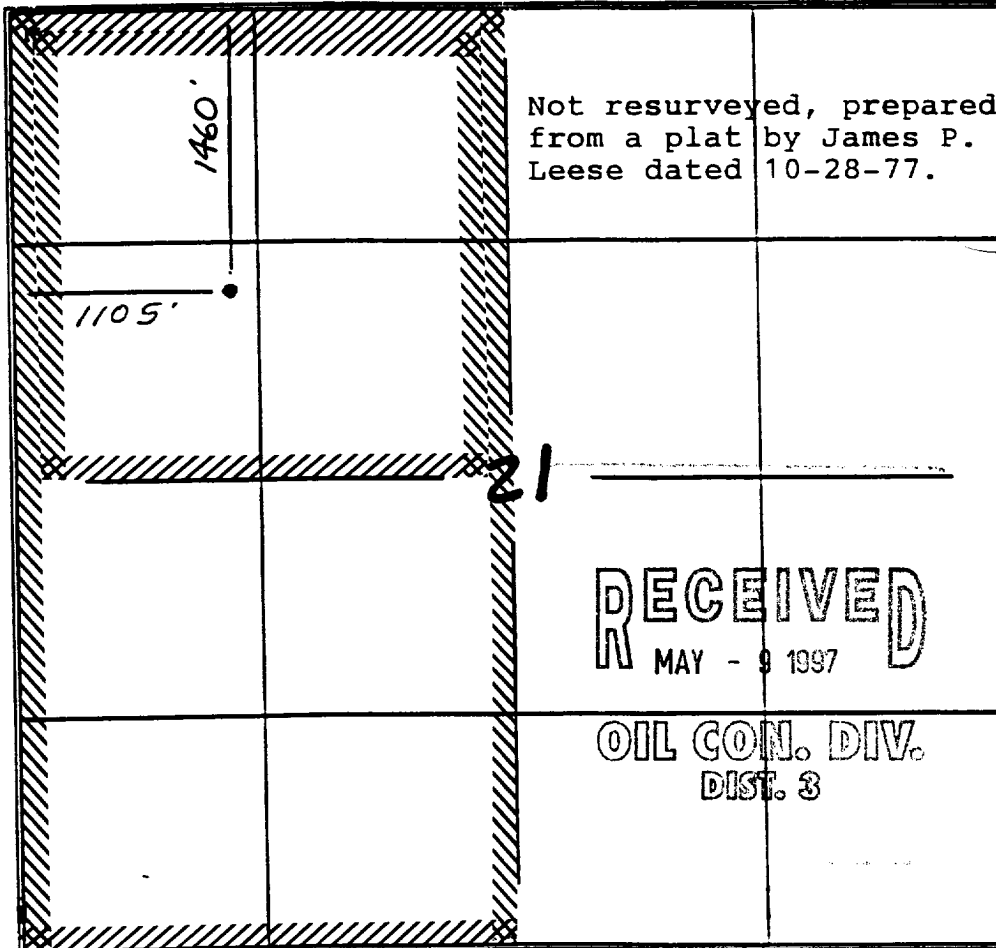
UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
E	21	31-N	9-W		1460	North	1105	West	S.J.

¹¹ Bottom Hole Location If Different From Surface

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

¹² Dedication Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.
PC- 158.31
NV-5/317 01

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 Bradford
Signature
Peggy Bradford
Printed Name
Regulatory Administrator
Title
4-28-97
Date

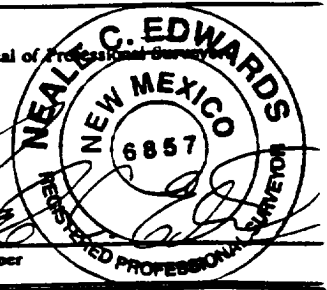
¹⁸ SURVEYOR CERTIFICATION

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.

4/24/97

Date of Survey

Signature and Seal of Professional Surveyor



Certificate Number

Sunray G #1-A

Mesaverde / Pictured Cliffs
Pictured Cliffs Recompletion
Unit E, Section 21, T31N, R09W
Lat./Long. 36° 53.20' / 107° 47.40'
Commingle Workover Procedure 3/18/97

1. Hold safety meeting. Comply with all MOI, BLM and NMOCD rules and regulations. Dig flowback pit or set flowback tank. Install 2x400 bbl rig tank and fill w/ 2% KCL water.
2. Obtain and record all wellhead pressures. NU relief line. Blow well down and kill with 2% KCL water as necessary. ND WH and NU BOP.
3. TOOH w/ 2-3/8" Mesaverde tubing set at $\pm 5912'$ and lay down. Inspect tubing and replace bad tubing as necessary.
4. PU 3-7/8" bit and 4-1/2" (10.5#) casing scraper on 2-3/8" workstring and clean out to PBTD of $\pm 6034'$. Blow hole clean with air/mist. Obtain pitot gauge and record on morning report. TOOH.
5. RIH and wireline set a 4-1/2" CIBP @ $\pm 4500'$. Load hole from surface with 2% KCL water.
6. Run CBL/CCL/GR from 4500' to surface. Run CNL from 4500' to surface. Send logs to office immediately and perforations and final packer setting depths will be supplied. Also, a squeeze procedure will be provided if necessary.
7. TIH w/ 7" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer and pressure test casing and CIBP to 3000 psi. Release packer and TOOH standing back frac string.
8. Perforate the Pictured Cliffs interval (perfs will be provided after reviewing logs) using 3-1/8" HSC guns with 12 gram charges and 0.29" diameter holes.

Inspect guns to ensure all perforations fired. RD wireline.
9. TIH w/ 7" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer.
10. **Maximum allowable treating pressure is 3000 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ maximum rate pressure will allow dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole). Release packer and TOOH standing back frac string.
11. RU wireline, retrieve balls w/ 7" junk basket and report number of hits. RIH w/ 4-1/2" junk basket and retrieve balls in 4-1/2" and report number of hits.

12. TIH w/ 7" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer.
13. **Hold safety meeting. Maximum allowable surface treating pressure is 3000 psi.**
14. Pressure test surface lines to 4000 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 with 70 Quality Nitrogen and ± 100 m lbs of sand tagged w/ Irridium. (Final frac design will be provided after reviewing logs). **Do not over displace during flush.** If well is on a vacuum, cut flush by 15%.
15. Close frac valve and RD stimulation line. RU flowback line and flow well through 1/8" positive choke. Continue to increase choke size until pressure falls to zero. When well dies, shut in.
16. Release packer and TOOH laying down 2-7/8" frac string.
17. TIH w/ 3-7/8" bit on 2-3/8" tubing and CO to CIBP set @ $\pm 4500'$. Obtain accurate pitot gauge for Pictured Cliffs interval. Record Pictured Cliffs pitot gauge in report. (Gauge may be used for allocation formula in commingling approval.)
18. Drill up CIBP set @ $\pm 4500'$ and CO to PBTD (⁶⁰³⁴6053'). PU above the Pictured Cliffs perforations and flow the well naturally, making short trips for clean up when necessary. Obtain commingled pitot gauge for Pictured Cliffs and Mesaverde after clean up.
19. When sand has diminished, TOOH.
20. RU wireline company. Run After Frac GR from $\pm 4500'$ to top of tracer activity. RD wireline.
21. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, a seating nipple, then the remaining 2-3/8" production tubing. CO to PBTD ($\pm 6053'$). Land tubing near bottom Mesaverde perforation (⁶⁰³⁴5970').
22. ND BOP's, NU WH. Pump off expendable check. Obtain final pitot up tubing. If well will not flow on it's own, make swab run to seating nipple. If swab run is not necessary, run a broach on slickline to ensure that the tubing is clear. RD and MOL. Return well to production.

Recommend: M.E. Lutev
Production Engineer

Approval: _____
Northwest Basin Team Leader

Approval: _____
Drilling Superintendent

Contacts:

Engineers:

Mary Ellen Lutev
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)

SUNRAY G #1A

Location: Unit E SW/4 NW/4, Section 21, T31N, R09W, 1460' FNL, 1105' FWL,
Lat. 36.886749, Long. -107.790070 by TDG
San Juan County, NM

Field: Blanco Mesaverde

Elevation: 6473' GL

TD: 6017'

KB: N/A

PBTD: 6034'

Spud Date: 05-19-78

Completed: 08-07-78

DP No: 48934A

Prop. No: 012600000

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>
13 3/4"	9 5/8"	32.3# H-40	223'	266 c.f.	To surface
8 3/4"	7"	20# K-55	3657'	493 c.f.	1500' (TS)
6 1/4"	4 1/2"	10.5# K-55 Liner	3486'-6034'	438 c.f.	

reverse out 20 BBL

Tubing Record: 2 3/8" 4.7# J-55 set @ 5912'.

Formation Tops:

Ojo Alamo:	est. 1730'
Fruitland:	est. 2920'
Pictured Cliffs:	est. 3325'
Mesaverde:	4843'
Point Lookout:	5570'

Logging Record:

CDL-GR, Ind.-GR, TS

Stimulation:

Perfed Menefee-Cliffhouse 4853'-5461'. Frac'd with 54,000# of sand and 111,922 gallons of water.
Perfed Point Lookout 5519'-5970'. Frac'd with 67,000# of sand and 136,920 gallons of water.

SUNRAY G #1A

BLANCO MESAVERDE

AS OF 7/08/96

1460' FNL, 1105' FWL

SEC 21, T31N, R09W, SAN JUAN COUNTY, NM

COMPLETED 8/07/78
ELEVATION 6473' GL

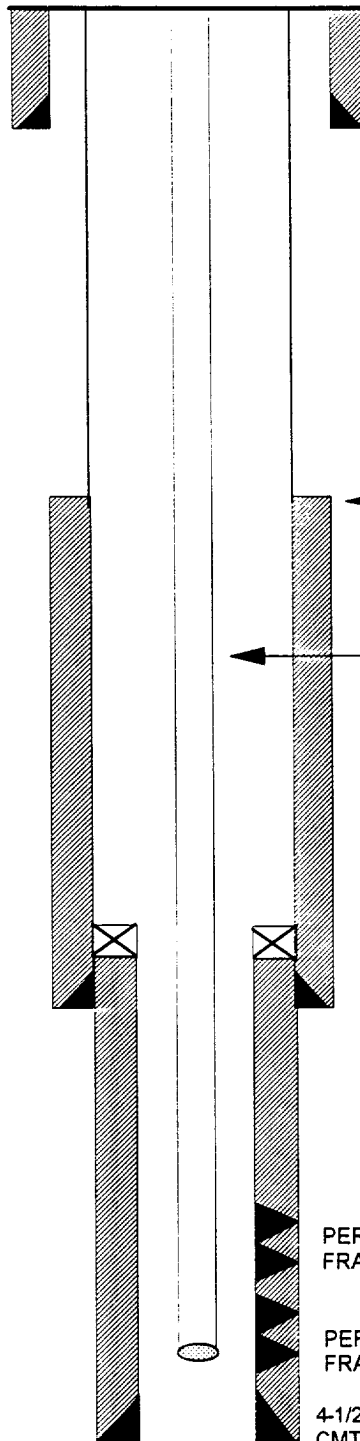
OJO ALAMO EST. 1730'

FRUITLAND EST 2920'

PICTURED CLIFFS EST 3325'

MESAVERDE @ 4843'

POINT LOOKOUT @ 5570'



13-3/4" HOLE

9-5/8" 32.3 H-40 CSG SET @ 223'
CMT W/266 CU.FT.
CIRC. CMT TO SURFACE

8-3/4" HOLE

TOC @ 1500' (TEMP. SURVEY)

2-3/8" 4.7# J-55 TBG SET @ 5912'

7" 20# K-55 CSG SET @ 3657'
CMT W/493 CU.FT.

6-1/4" HOLE

PERF MEN-CH 4853'-5461'
FRAC W/54,000# SAND & 111,922 GALS WATER

PERF PL 5519'-5970'
FRAC W/67,000# SAND & 136,920 GALS WATER

4-1/2" 10.5# K-55 LINER @ 3486'-6034'
CMTW/438 CU.FT.
REVERSE OUT 20 BBL CMT

TD 6017'
PBD 6034'