

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator
SOUTHLAND ROYALTY COMPANY

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M
1070'FSL, 1460'FWL, Sec.24, T-31-N, R-11-W, NMPM, San Juan County


API # (assigned by OCD)
30-045-20543
5. Lease Number
Fee
6. State Oil&Gas Lease #
7. Lease Name/Unit Name
Turner
8. Well No.
2
9. Pool Name or Wildcat
Blanco Pictured Cliffs/
Basin Fruitland Coal
10. Elevation:

| Type of Submission | | Type of Action | |
|--|--|--|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment | <input type="checkbox"/> Change of Plans | |
| <input type="checkbox"/> Subsequent Report | <input checked="" type="checkbox"/> Recompletion | <input type="checkbox"/> New Construction | |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Plugging Back | <input type="checkbox"/> Non-Routine Fracturing | |
| | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Water Shut off | |
| | <input type="checkbox"/> Altering Casing | <input type="checkbox"/> Conversion to Injection | |
| | <input type="checkbox"/> Other - | | |

13. Describe Proposed or Completed Operations

It is intended to temporarily abandon the Pictured Cliffs zone in the subject well and recomplete in the Fruitland Coal according to the attached procedure and wellbore diagram.

RECEIVED
DEC 12 1994
OIL CON. DIV.
DIST. 3

SIGNATURE  (MEL5) Regulatory Affairs December 6, 1994

(This space for State Use)
Approved by ORIGINAL SIGNED BY ERNIE BUSCETTA Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Date DEC 12 1994

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos 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
PO Box 2088
Santa Fe, NM 87504-2088

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 30-045-20543 | | Pool Code 72359/71629 | Pool Name Blanco Pictured Cliffs/Basin Fruitland Coal |
| Property Code 7600 | Property Name TURNER | | Well Number 2 |
| OGRID No. 14538 | Operator Name MERIDIAN OIL INC. | | Elevation 5721' |

¹⁰ Surface Location

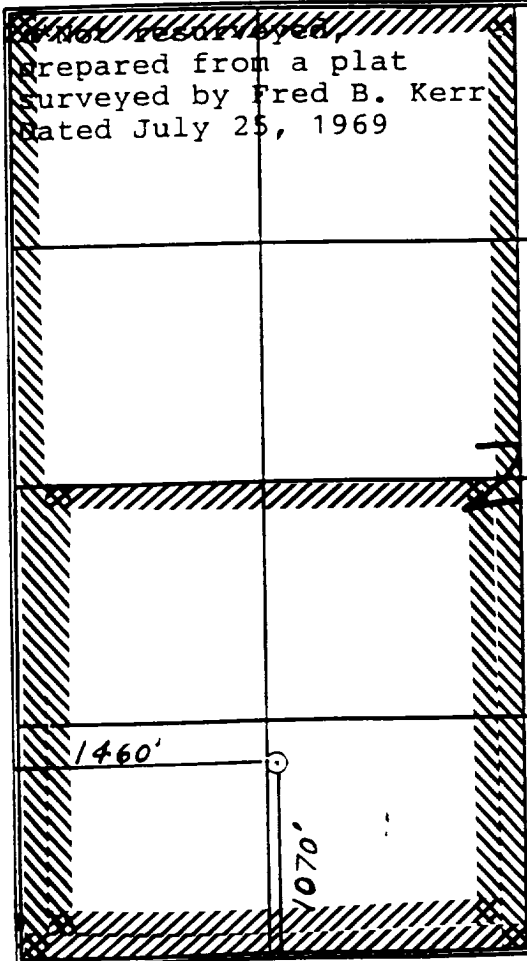
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N | 24 | 31N | 11W | | 1070 | SOUTH | 1460 | WEST | 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 160-W/320 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
|--|-------------------------------|----------------------------------|-------------------------|

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

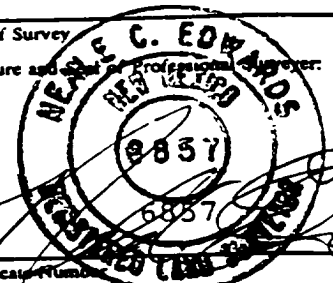
Peggy Bradford
Signature
Peggy Bradford
Printed Name
Regulatory Affairs
Title
12-9-94
Date

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.

12-8-94

Date of Survey
Signature and Seal of Professional Surveyor



Certificate Number

Pertinent Data Sheet - Turner #2

Location: 1070' FNL, 1460' FWL, Unit N, Section 24, T31N, R11W, San Juan County, New Mexico

Field: Blanco Pictured Cliffs

Elevation: 5721' GR

TD: 2574'

PBTD: 2489'

Completed: 08-18-69

Prop #: 0023048

DP #: 76136

Casing Record:

| <u>Hole Size</u> | <u>Csg Size</u> | <u>Wt. & Grade</u> | <u>Depth Set</u> | <u>Cement</u> | <u>Top/Cement</u> |
|------------------|-----------------|------------------------|------------------|---------------|-------------------|
| 12 1/4" | 8 5/8" | 24.0# | 114' | 75 sxs | Surface/Circ |
| 6 1/4" | 4 1/2" | 9.5# J-55 | 2489' | 250 sxs | TOC @ 1595' CBL |

Tubing Record:

| <u>Tbg Size</u> | <u>Wt. & Grade</u> | <u>Depth Set</u> |
|-----------------|------------------------|------------------|
| 1" | | 2372' |

Formation Tops:

| | |
|------------------|-------|
| Ojo Alamo: | 790' |
| Kirtland: | 878' |
| Fruitland: | 2050' |
| Pictured Cliffs: | 2405' |

Logging Record: CBL, IEL, GRN

Stimulation:

Perf'd: 2388'-2402' & 2416'-2426'

Frac'd: w/25,000# 10/20 sand & 29,400 gal water. Dropped 40 balls.

Workover History:

Transporter: Southern Union Gathering

TURNER #2

AS OF 10/1/1994

BLANCO PICTURED CLIFFS

UNIT N, SEC 24, T31N, R11W, SAN JUAN COUNTY, NM

COMPLETED 8/18/69

8-5/8" 24# CSG SET @ 114'
CMT W/ 75 SX
CIRC CMT TO SURFACE

1" TBG SET @ 2372'

OJO ALAMO @ 790'
KIRTLAND @ 878'

TOC @ 1595' (CBL)

FRUITLAND @ 2050'

PICTURED CLIFFS @ 2405'

PERF 2402'-2416'
FRAC W/29,400 GAL WATER
AND 25,000# SAND

4-1/2" 9# J-55 CSG SET @ 2489'
CMT W/ 250 SX

TD 2574'
PBTD 2487'

Turner #2

Pictured Cliffs T&A / Fruitland Coal Recompletion / Bradenhead Flow Repair

Lat-Long by GITI: 36.879623 - 107.945663

SW/4 Section 24, T31N-R11W

December 1, 1994

1. Hold safety meeting. MIRU. Install safety equipment and fire extinguishers in strategic locations. Install 2x400 bbl frac tanks and 1x400 bbl rig tank. Fill each frac tank with 400 bbls of filtered 2% KCl water and 5# of biocide.
2. Obtain and record all well head pressures. ND WH, NU BOP. TOOH and laydown 1" standard line pipe tubing landed @ 2372'. Send tubing to yard for salvage.
3. PU 2-3/8" 4.7# J-55 tubing, 3-7/8" bit and 4-1/2" 9# casing scraper. TIH. Make scraper run to bottom of 4-1/2" casing @ 2489'. Obtain 3 hour pitot on Pictured Cliffs. TOOH. Lay down casing scraper.
4. RU wireline. Wireline set a 4-1/2" CIBP @ 2350'. TIH and load hole with fresh water. Pressure test the casing to 700 psi for 15 minutes. Run CBL-CCL-GR and noise log from PBTD to surface. Run CNL-CCL-GR from PBTD to 2000'. RD wireline. Send copy of all logs to office for analysis. Squeeze procedure will be provided by engineering.
5. After squeeze work, TIH with 3-7/8" bit and tubing and drill out cement. Obtain 700 psi pressure test, re squeeze if necessary. Circulate the hole with filtered 2% KCl water. TOOH with tubing and bit.
6. RU wireline with full lubricator. Hold safety meeting. Use CNL from step 4 for correlation. Perforate Fruitland Coal interval with using 30 diameter holes and 3-1/8" HSC guns (intervals to be perforated will be provided by engineering after receiving CNL).
7. TIH w/ 2-3/8" tubing and 4-1/2" packer to 2300'. Set packer @ 2300'. PT tubing and BP to 3400 psi. Release packer and PUH to 2000' and re set packer. Balloff Fruitland Coal perforations w/ 1500 gals of 15% HCL acid and RCN balls (2 balls per perforation hole). Maximum allowable treating pressure is 3400 psi. Release packer, TIH and knock balls off. TOOH.
8. PU 3-1/2" N-80 (turned down collars) fracstring. TIH with 4-1/2" packer, a SN just above the packer then the fracstring. Set the packer at 2000'. Set a blanking plug in the SN and pressure test the fracstring to 5000 psi. Retrieve the blanking plug.
9. RU stimulation company with surface equipment and tubulars rated to at least 6000 psi working pressure. Pressure test all surface lines to 6000 psi. **Maximum allowable treating pressure is 5000 psi.** Stimulate the Fruitland Coal during daylight hours with nitrogen foam per the stimulation procedure. (Stimulation procedure will be provided after reviewing CNL log.)
10. Flow well back on choke immediately upon completion of the stimulation. When either flow has ceased or returns have reached a level allowing release of the packer, release the packer and TOOH, laying down the fracstring. RD stimulation company.
11. PU notched collar and TIH with tubing. CO to PBTD. PU above the Fruitland Coal perforations and flow the well naturally, making short trips for clean up when necessary.
12. When sand and water returns have diminished, flow test the Fruitland for 3 hours. TOOH.
13. RU wireline company. Run after-frac GR. RD wireline company.

14. TIH with one joint of 2-3/8" 4.7# J-55 tubing w/ expendable check, an F-nipple and the remaining 2-3/8" tubing. CO to PBTB. Land tubing @ 2300'.
15. ND BOP's, NU WH, pump off expendable check. Obtain final pitot. RDMO. Return well to production.

Approval:

Drilling Superintendent

Contacts:

Engineering - Mary Ellen Lutey

Office - (599-4052)

Home - (325-9387)

Frac Consultants - Mark Byars

Pager - (327-8470)

Mobile - (320-0349)

Home - (327-0096)

Mike Martinez

Pager - (599-7429)

Mobile - (860-7518)

Home - (326-4861)