

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  
2310'FNL, 1650'FWL, Sec.24, T-31-N, R-11-W, NMPM, San Juan County

API # (assigned by OCD)  
30-045-10536  
5. Lease Number  
Fee  
6. State Oil&Gas Lease #  
7. Lease Name/Unit Name  
Turner  
8. Well No.  
1  
9. Pool Name or Wildcat  
Blanco Mesaverde  
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 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 checked="" type="checkbox"/> Other - Pay add		

13. Describe Proposed or Completed Operations

It is intended to repair the subject well and add pay to the Mesaverde zone according to the attached procedure and wellbore diagram.

**RECEIVED**  
DEC - 8 1994  
**OIL CON. DIV.**  
DIST. 3

SIGNATURE *[Signature]* (MEL5) Regulatory Affairs December 6, 1994

(This space for State Seal)  
Approved by *[Signature]* Title DEPUTY OIL & GAS INSPECTOR, DIST. # Date DEC - 8 1994

### Pertinent Data Sheet - Turner #1

**Location:** 2310' FNL. 1650' FWL. Unit F, Section 24, T31N, R11W, San Juan County, New Mexico

**Field:** Blanco Mesaverde

**Elevation:** 5727' DF

**TD:** 4850'

**PBTD:** 4848

**Completed:** 02-16-53

**DP #:** 76135

**Workover:** 05-08-54

**Prop #:** 0023048

**Workover:** 08-19-69

#### Casing 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>
	10 3/4"	32.7# H-40	218'	275 sxs	Circ/Surface
	8 5/8"	32.0# H-40	255'	75 sxs	Circ/Surface
	5 1/2"	15.5# J-55	4610'	350 sxs	TOC @ 3260'
	3 1/2"	7.7# Liner	4435'-4849'	55 sxs	TOC @ 4435'

#### Tubing Record:

<u>Tbg Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>
1 1/2"	2.9# J-55	4687'

#### Formation Tops:

Ojo Alamo:	745'	Chacra:	3160'
Kirtland:	870'	Cliff House:	3924'
Fruitland:	1974'	Menefee:	4204'
Pictured Cliffs:	2415'	Point Lookout:	4610'
Huer. Bentonito:	3100'		

**Logging Record:** ES, TS, GR, IND, DL

#### Stimulation:

02-53: Shot w/828 quarts nitro glycerine from 4341' to 4672'.

#### Workover History:

05-54: Sand-oil frac from 4610' to 4850' w/4,700# sand & 9,400 gal oil.

08-69: Perf'd: 4632'-4732' w/2 SPF

Frac'd: 4632'-4832' w/50,000# 20/40 sand, 20,000# 10/20 sand & 70,840 gal water.

Dropped 150 balls.

**Transporter:** Southern Union Gathering

**Turner #1 - Mesaverde**  
Menefee and Cliff House Payadd / Bradenhead Flow Repair  
Lat-Long by GITI: 36.884827 - 107.944839  
NW/4 Section 24, T31N-R11W  
November 2, 1994

1. Hold safety meeting. MIRU. Install safety equipment and fire extinguishers in strategic locations. Install 9x400 bbl frac tanks and 1x400 bbl rig tank. Fill each frac tank with 5#s of biocide and a total of 3371 useable bbls of fresh water.
2. ND WH, NU BOP. TOOH with 1-1/2" 2.9# J-55 tubing set at 4687'. Lay down tubing and send to the yard for salvage.
3. PU 4750' of 2-3/8" 4.7# J-55 EUE tubing. Pick up 4-3/4" bit and 5-1/2" 15.5# casing scraper and TIH with tubing. Make scraper run to liner top at 4435'. TOOH. Lay down casing scraper and bit. PU 2-1/4" bit and 3-1/2" 7.7# casing scraper. TIH with 500' of 2-1/16" tubing and 2-3/8" workstring. Make scraper run to top perforation @ 4632'. TOOH.
4. RU wireline. Wireline set a 3-1/2" RBP @ 4620'. TIH with workstring and load hole with fresh water. Pressure test the casing to 1000 psi for 15 minutes. If casing fails, contact engineering for changes in procedure. TOOH.
5. RU Blue Jet wireline. Hold safety meeting. Run TDT-GR from PBTD (4620') to 3800'. Run CBL-CCL-GR from PBTD (4620') to surface. Run noise log from 100' below TOC to surface. Dump 10' of sand on top of RBP with dump bailer. Send copy of all logs to engineering. Squeeze procedure will be provided after evaluation of the logs. All squeeze work will be performed before proceeding with workover. After squeezing, obtain 1000 psi pressure test and clean out to top of sand plug on RBP @ 4620'. Spot 7-1/2% HCl from 4550' to 4400'. TOOH.
6. RU Basin wireline with full lubricator. Perforate the Mesaverde bottom up with 0.3" diameter holes utilizing 2-1/2" retrievable tubing guns (with GOEX 11g DP charges) in the 3-1/2" casing and 3-3/8" HSC's in the 5-1/2" casing. The 25 perforations will be supplied after reviewing the TDT.  
  
Inspect guns to ensure all perforations fired.
7. TIH with 2-3/8" tubing and 5-1/2" SAP tool with 4' spacing. Set SAP tool @ 4430' (just above the liner top). Break down perforations below the liner top with 400 gallons 7-1/2% HCl at max rate possible. RU slickline. Set blanking plug in bottom of SAP tool. RD slickline. Breakdown remaining perforations with 7-1/2% HCl at max rate. Use 100 gallons of acid per perforation. Add inhibitor to all acid.
8. PU 4000' of 3-1/2" N-80 9.3# <sup>TOC</sup> fracstring. TIH with 5-1/2" packer, a seating nipple with blanking plug and 4000' of 3-1/2" fracstring. Set packer @ 4000'. Load fracstring with water and pressure test to 5000 psi. RU slickline and retrieve blanking plug. RD slickline. Install 5000# frac valve on top of the fracstring.
9. RU Western. Hold safety meeting. Test surface lines to 6000 psi. **Maximum surface treating pressure is 5000 psi.** Fracture Stimulate Mesaverde. Stimulation procedure will be supplied after reviewing the logs. Shut in well immediately after completion of the stimulation until pressure falls to zero. RD frac company.
10. Remove frac valve. Release packer and TOOH. Lay down packer and fracstring.
11. Flow-back naturally as long as possible. When either flow has ceased or returns have reached a level allowing re-entry of wellbore, TIH with notched collar and 2-3/8" tubing. CO to PBTD of 4620'. PU above the Mesaverde perforations and flow the well naturally, making short trips for clean up when necessary.

12. When returns have diminished (both sand and water) PUH above the perforations. SI well for 24 hours with Amerada bomb set as deep as possible in the tubing string. TOOH.
13. PU retrieving head and TIH with 2-3/8" tubing . Clean out to PBTD. Release RBP @ 4620' and TOOH.
14. TIH with notched collar and 2-3/8" tubing and clean out to COTD of 4848'. When water rates and sand production have diminished, TOOH, laying down 2-3/8" workstring.
15. PU and TIH with 2-1/16" 3.25# J-55 EUE tubing. CO to COTD. Land tubing at +/- 4730'.
16. ND BOP's, NU WH. Obtain final pitot. RDMO. Return well to production.

Approval:

PJB.A  
Drilling Superintendent  
ALW 11/3/94

**Vendors:**

Stimulation - Western (327-6222)  
Logging - Blue Jet (325-5584)  
Perforating - Basin Wireline (327-5244)

# TURNER #1

AS OF 10/1/94

BLANCO MESAVERDE

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

