

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

Sundry Notices and Reports on Wells

1. Type of Well GAS	API # (assigned by OCD) 30-045-20439
	5. Lease Number Fee
	6. State Oil&Gas Lease
2. Name of Operator SOUTHLAND ROYALTY COMPANY	7. Lease Name/Unit Name Pierce
	8. Well No. 6
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	9. Pool Name or Wildcat Aztec Pictured Cliff Basin Fruitland Coal
4. Location of Well, Footage, Sec., T, R, M 1850'FNL, 790'FEL, Sec.30, T-31-N, R-10-W, NMPM, San Juan County	10. Elevation:

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

13. Describe Proposed or Completed Operations

It is intended to temporarily abandon the Pictured Cliffs and recomplete this well in the Basin Fruitland Coal per the attached procedure & wellbore diagram.

RECEIVED
SEP - 9 1994

OIL CON. DIV.
DIST. 3

SIGNATURE *[Signature]* (JK5) Regulatory Affairs September 8, 1994

(This space for State Use)

Approved by *[Signature]*

TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3

Date SEP - 9 1994

Pertinent Data Sheet - Pierce #6

Location: 1850' FNL, 790' FEL, Section 30, T31N, R10W, San Juan County, New Mexico

Field: Aztec Pictured Cliffs

Elevation: 5923' GR

TD: 2715'

PBTD: 2715'

Spud Date: 03-02-69

Completed: 04-10-69

DP #: 58907

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# J-55	113'	70 sxs	Surface/Circ
6 3/4"	4 1/2"	9.5# J-55	2715'	175 sxs	1050' CBL

Tubing Record:

<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	
2 3/8"	4.7# J-55	2603'	SN @ 2571'

Formation Tops:

Ojo Alamo: 1202'
Kirtland: 1271'
Fruitland: 2223'
Pictured Cliffs: 2599'

Logging Record: Ind-ES, CBL

Stimulation:

Perf'd: 2600' - 2624' w/4 SPF

Frac'd: 25,000# 10/20 sand & 25,914 gallons water.

Workover History:

02/91: Pulled 1" 1.7# tubing. Squeeze hole in casing 357' to 387' w/ 200 sxs cement.
Circulate cement out Bradenhead.
Ran 2 3/8" tubing, set @ 2603'. Seating nipple @ 2571'

Production History:

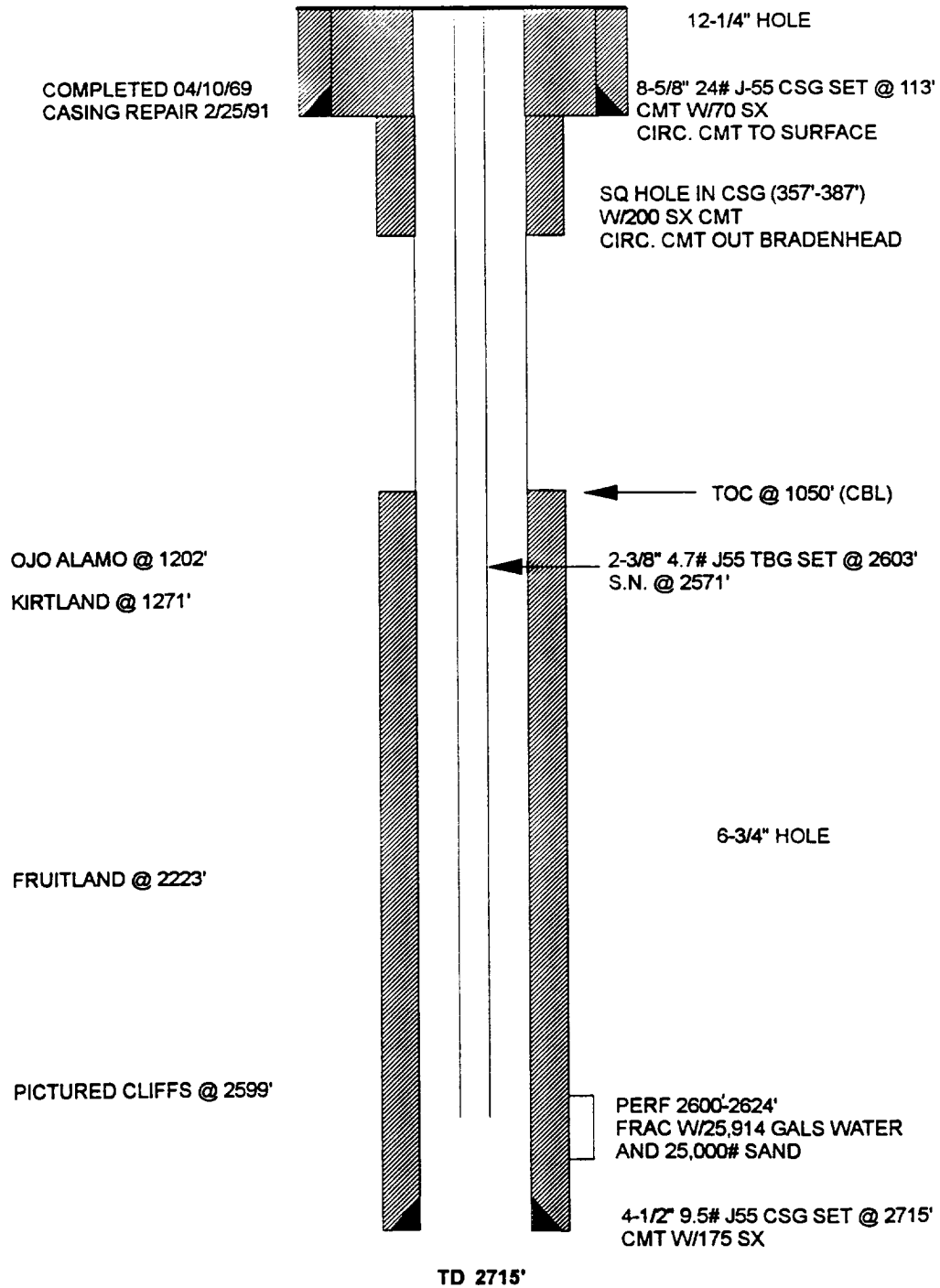
Transporter: Southern Union Gathering

PIERCE #6

AS OF 8/1/94

AZTEC PICTURED CLIFFS

UNIT H, SEC 30, T31N, R10W, SAN JUAN COUNTY, NM



Pierce #6
Pictured Cliffs T&A / Fruitland Coal Recompletion
Lat-Long by GITI: 36.871552 - 107.917084
NE/4 Section 30, T31N-R10W
August 23, 1994

1. Hold safety meeting. MIRU. Install safety equipment and fire extinguishers in strategic locations. Install 4x400 bbl frac tanks and 1x400 bbl rig tank. Fill each tank with 400 bbls of filtered 2% KCl water and 5# of biocide.
2. ND WH, NU BOP. TOOH with 2-3/8" 4.7# J-55 tubing landed @ 2603'. Replace bad tubing as needed.
3. Pick up 3-7/8" bit and 4-1/2" 10.5# casing scraper and TIH. Make scraper run to 2600'. TOOH. Lay down casing scraper.
4. RU wireline. Wireline set a 4-1/2" CIBP @ 2590'. TIH and load hole with fresh water. Pressure test the casing to 700 psi for 15 minutes.

If pressure test fails, locate the failure with a packer and tubing. TOOH.

If pressure test holds, roll hole with filtered (25 micron) 2% KCl water. TOOH.

Run CBL-CCL-GR from PBTD' to surface. Run CNL-CCL-GR from PBTD to 2200'. Send copy of both logs to office for analysis. Squeeze procedure will be provided by engineering if needed.

5. If squeeze work was performed, TIH with 3-7/8" bit and tubing and drill out cement. Obtain 700 psi pressure test, resqueeze if necessary. Roll 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 coal interval with 3-1/2" HSC's. Charge specifications and intervals to be perforated will be provided by engineering after receiving CNL.
7. PU 2-7/8" workstring with turned down collars (or buttress) and SAP tool. Breakdown each perforation with 1 bbl of 15% HCl (with inhibitor) at 1 BPM. TOOH.
8. TIH with 4-1/2" packer, a SN just above the packer and the workstring. Set the packer at 2200'. Set a blanking plug in the SN and pressure test the tubing 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 with nitrogen foam per the stimulation procedure. Stimulation procedure will be provided after reviewing CNL log. Approximately 4 tanks will be needed for the stimulation.

Pierce #6
Fruitland Coal Recompletion
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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.
11. PU notched collar and TIH with workstring. CO to PBTD. PU above the Fruitland 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 Coal for 3 hours. TOOH.
13. TIH with one joint of 2-3/8" tubing w expendable check, an F-nipple, then the remaining 2-3/8" tubing. CO to COTD. Land tubing @ +/- 2570'.
14. ND BOP's, NU WH. Obtain final pitot. RDMO. Return well to production.

Approval:

PJB
Drilling Superintendent

Vendors:

Stimulation - Western Co. of NA (32-6222)

Perforating - Basin Perforators (327-5244)