

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well  
GAS

2. Name of Operator  
Southland Royalty

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

4. Location of Well, Footage, Sec., T, R, M  
1150' FSL, 1170' FWL Sec. 15, T-28-N, R-10-W, NMPM

5. Lease Number  
SF-080781

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

8. Well Name & Number  
Cain #20

9. API Well No.

10. Field and Pool  
Aztec PC/Basin FTC

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

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other -

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to complete the Fruitland Coal formation in the existing Pictured Cliffs wellbore and produce the two formations via downhole commingling, according to the attached procedure and wellbore diagrams. An application for approval of this commingling is being submitted to the New Mexico Oil Conservation Division.

RECEIVED  
AUG 17 1992  
OIL CON. DIV.  
FSL

RECEIVED  
AUG 11 1992  
FSL  
PH 2:05  
SAN JUAN CO, N.M.

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

Signed [Signature] (KAS) Title Regulatory Affairs Date 8/4/92

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_

CONDITION OF APPROVAL, if any:

APPROVED

Date 8/11/1992

AREA MANAGER

NMOCD

Submit to Appropriate  
District Office  
State License - 4 copies  
Federal License - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-182  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I  
P.O. Box 1989, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Aztec, NM 88210

DISTRICT III  
1000 Rio Rancho Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT 15 FARMINGTON, N.M.

All Distances must be from the outer boundaries of the section

Operator Southland Royalty Company			Lease Cain		Well No. 20
U.S. Letter M	Section 15	Township 28 North	Range 10 West	County San Juan	
Amount Forfeited Leased Well 1150 feet from the South line and 1170 feet from the West line					
Current Level Elev. 5932'		Feet from the Pic. Cliffs/Fruitland		Feet from the West line 160/320 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or ink on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (such as co-working interest and royalty).
- Have the interest of all owners been considered by communication, examination of lease-pooling, etc?  
☐ Yes ☐ No If answer is "yes" type of consideration \_\_\_\_\_  
If answer is "no" list the owners and their descriptions which have actually been considered. (Use reverse side of this form if necessary).  
No allowable well be assigned to the well until all interests have been considered (by communication, examination, lease-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

Not re-surveyed prepared  
from a plat dated 9-5-73  
by Fred B. Kerr Jr.

RECEIVED  
AUG 17 1992  
OIL CON. DIV.  
DIST. 3

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 Affairs

Position

Southland Royalty Co

Company

8-4-92

Date

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 knowledge and  
belief. 8-4-92

Date Surveyed C. Edwards

Neale W. Edwards

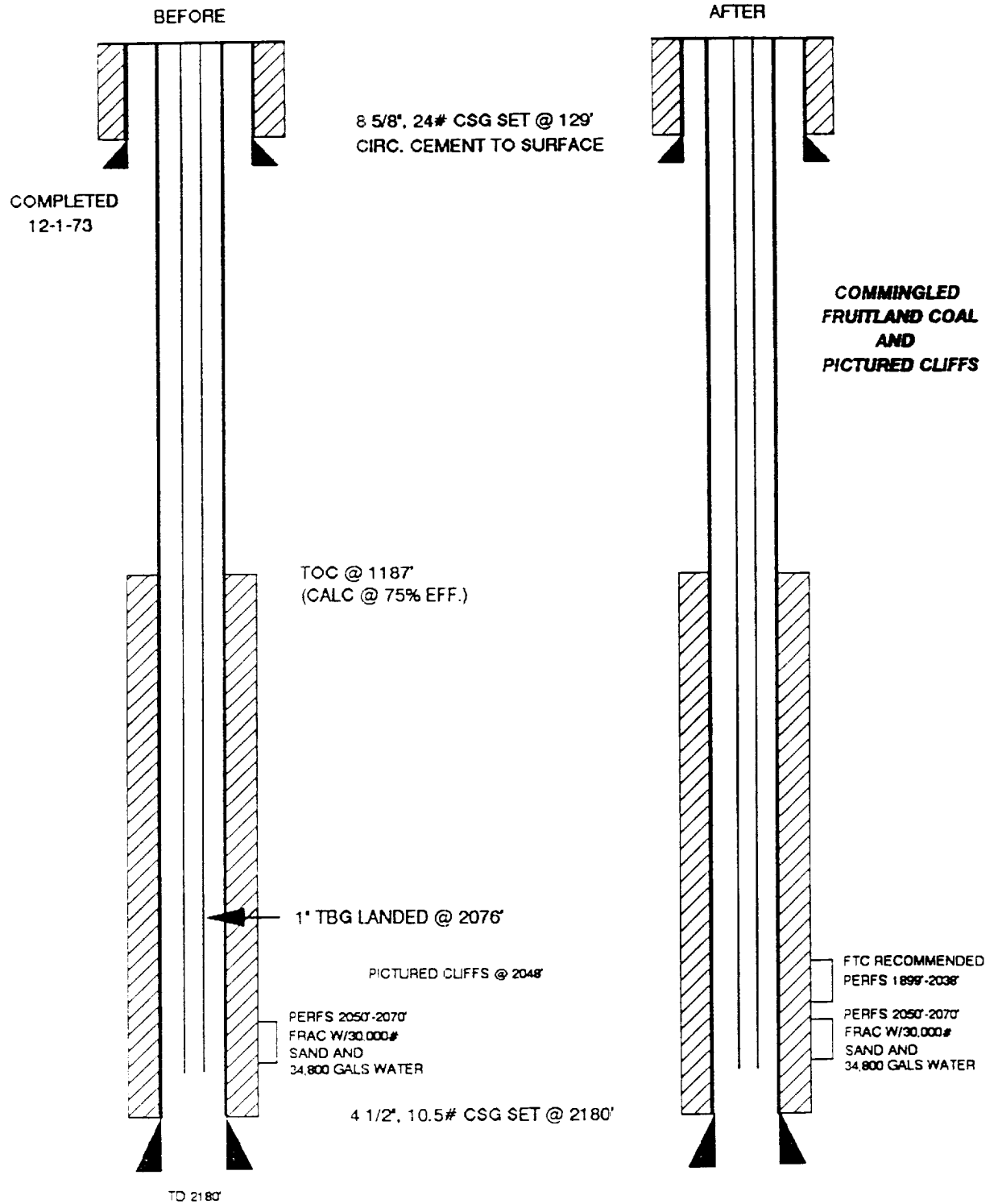
Surveyor  
Professional Surveyor

9857

6857

# CAIN #20

AZTEC PICTURED CLIFFS  
UNIT M SECTION 15, T28N-R10W



FTC CAPITAL WORKOVER  
CAIN #20  
NE/4, Section 15 T28 R10W  
San Juan County, New Mexico

1. Install 1x400 bbl frac tank and fill with filtered (25 micron) water. Add KCL substitute (NETRA-CLA-CW), supplied by Weskem-Hall (2% KCL equivalent) the day before moving the rig on location. Add 5#'s of biocide to tank before filling.
2. MIRU. Comply with all BLM, NMOCDC, and MOI rules and regulations. Blow down well and kill with water if needed. ND WH and NU BOP assembly.
3. TOOH w/1" tbg and laydown. TIH with 4-1/2" 9.5# casing scraper and 2-3/8" tbg. Make scraper run to 2100'. TOOH.
4. RU wireline and set 4-1/2" drillable bridgeplug (POT) @ 2046'.0 psi. Install treesaver and pressure test casing to 3500 psi. RD treesaver. If casing does not hold pressure, contact production engineering and a repair procedure will be provided.
5. Perforate the following coal intervals with 3-1/8" HSC and 16 gram charges (0.45" Dp) @ 4 SPF and 90 degree phasing.

1899-1909'	(10')
1957-1959'	(2')
2024-2036'	(12')

Total 24 feet; 96 holes

6. TIH with SAP tool and 2-3/8" tubing. Breakdown perforations in one foot intervals with 7-1/2% HCl (add 0.2% quaternary amine type clay stabilizer, inhibitor, and a sequestering agent to the acid). Use 1 bbl/perforated foot at 2 bpm. Record each BD pressure, injection pressure, injection rate, and ISIP. Unload hole with air, TOOH.
7. Install treesaver. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4500 psi; maximum allowable pressure is 3500 psi. Stimulate during daylight w/nitrogen foam. See attached stimulation procedure. Immediately upon completion of the stimulation, flow the well to the pit on a 1/8" choke until closure is observed. RD treesaver. SI well for 4 hours for gel break.
8. Flow well to pit on 1/8" choke. Increase choke size as needed but do not exceed 20 BPH or 2.5 MMCF/D estimated returns at any time. TIH w/ bit and 2-3/8" tubing and clean out to bridgeplug. Obtain gauge then tag fill. When sand returns stop and fluid production is minimal; drill bridgeplug. Obtain final gauge from now commingled Fruitland Coal and Pictured Cliffs. TOOH

Cain #20  
Recompletion Procedure  
Page 2

9. TIH w/ 2-3/8" production string and SN one joint off bottom. CO to TD (including Pictured Cliffs). When fluid production becomes negligible, land tubing at 2060' and obtain a final gauge from the combined Fruitland Coal and Pictured Cliffs.
10. ND BOP, NU WH. Release rig.

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J. A. Howieson

Service Company:

Stimulation - Dowell (325-5096)  
Wireline - Petro Wireline (326-6669)  
KCL Substitute - Weskem-Hall (325-3535)