

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
MERIDIAN OIL

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

4. Location of Well, Footage, Sec., T, R, M
1650'FSL, 1650'FWL Sec.17, T-27-N, R-10-W, NMPM

5. Lease Number
SF-077875

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Rowley #5

9. API Well No.

10. Field and Pool
Fulcher Kutz PC
Basin Ft Coal

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 Injectio

☐ Other -

13. Describe Proposed or Completed Operations

It is intended to add and complete by perforating and fracture stimulation the Fruitland Coal formation to this wellbore. Production from the Pictured Cliffs and Fruitland Coal will be commingled. Application is being made to the NMOCD for commingling.

The Rowley #155, a Fruitland Coal completion located 1420'FSL, 1850'FWL of Section 17, T-27-N, R-10-W, will have production equipment removed and the well converted to a Fruitland Coal pressure observation well.

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

Signed [Signature] (SD) Title Regulatory Affairs

APPROVED

Date 12/17/93

DEC 30 1993

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

DISTRICT MANAGER

CONDITION OF APPROVAL, if any:

NMOCD

Subject to Approval
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-182
Revised 1-1-87

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer 00, Aztec, NM 88210

DISTRICT III

1000 Rio Rancho Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.		Lease Rowley		Well No. 5
Unit Letter K	Section 17	Township 27 North	Range 10 West	County San Juan
Actual Footage Location of Well: 1650 feet from the South line and 1650 feet from the West line				
Ground Level Elev. 6125.53	Producing Formation Fruitland Coal/Pic.Cliffs	Pool Basin/Fulcher Kutz	Dedicated Acreage 320/160 Acres	
<p>1. Outline the acreage dedicated to the subject well by correct point or location marks on the plat below.</p> <p>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</p> <p>3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by commutation, unitization, force-pooling, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation _____</p> <p>If answer is "no" list the owners and trust companies which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>No alterations will be assigned to the well until all interests have been consolidated (by commutation, unitization, force-pooling, or otherwise) or until a non-consent unit, eliminating each interest, has been approved by the Division.</p>				

Not re-surveyed:
Prepared from plat:
Dated: Feb. 21, 1952
By: C.O. Walker

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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 Representative

Position

Meridian Oil Inc

Company

12-20-93

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. 12-20-93

Date Surveyed C. EDWARDS

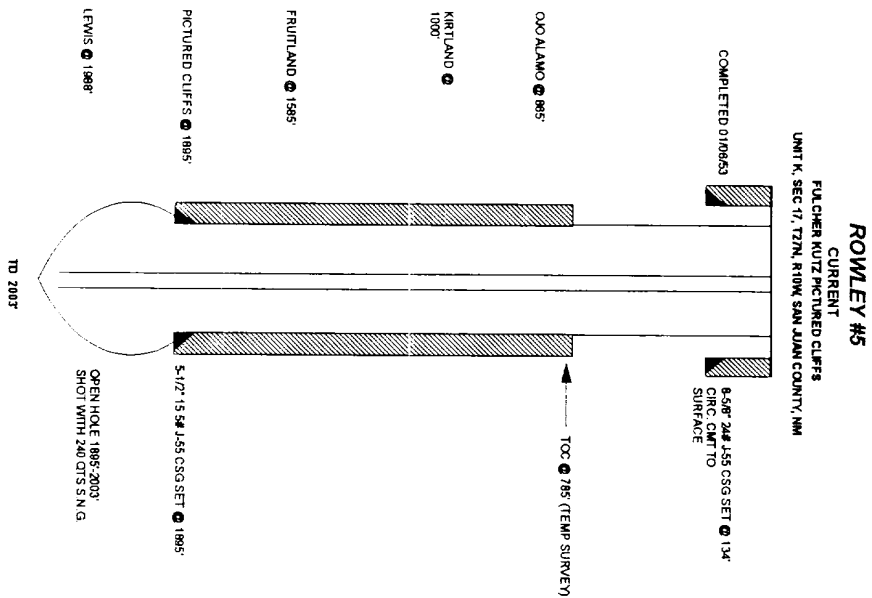
NEEDS A-HANDS

Signature of State Professional Surveyor

9857

Companion No.

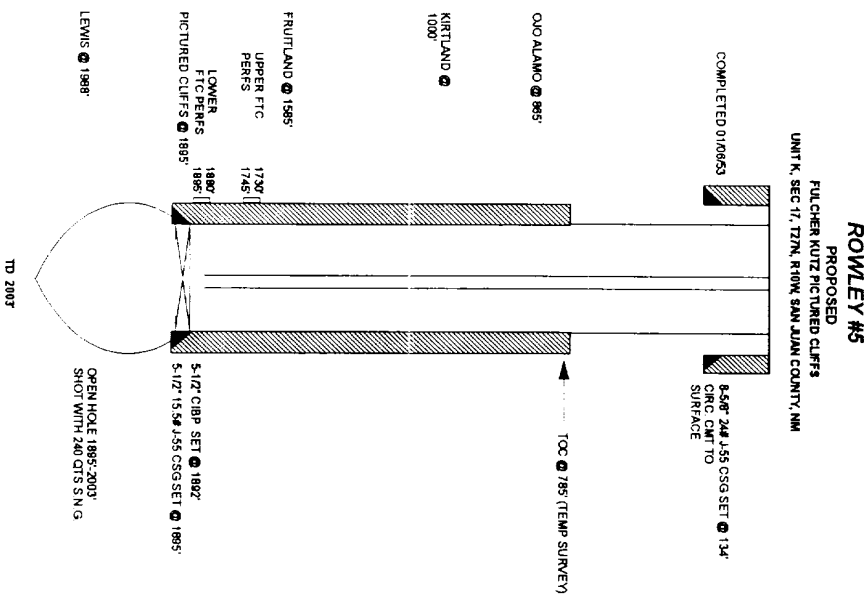
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DIST. 3



Rowley # 5
Recommend Completion Procedure
Unit K Section 17 T27N R10W

1. Test rig anchors and repair if necessary. Install 2-400 bbl frac tanks on location and fill with 2% KCl water. Filter all water to 25 microns.
2. MOL and RU. Comply to all NMOCD, BLM and MOI rules & regulations. Hold safety meeting. ND wellhead. NU BOP. Test operation of rams. NU two relief lines.
3. TOOH w/ 2000' of 1" tbg, tally & inspect.
4. TIH w/ 4-3/4" bit and 5-1/2" casing scraper on 2-3/8" work-string and clean out to 5-1/2" casing shoe @ 1898'. TOOH.
5. TIH w/ 4-3/4" bit on 2-3/8" work-string and clean out to open hole TD @ 2028' Load hole w/ 16 bbls 2% KCl water. TOOH.
6. RU & RIH w/ CNL-CCL-GR and log from casing shoe @ 1898' to 1600'
7. RU & RIH w/ wireline set 5-1/2" CIBP between Basal FTC and casing shoe. **INSURE CIBP IS NOT SET ACROSS OR ABOVE BASAL FTC.** TOOH.
8. TIH w/ fullbore packer and 2-3/8" tubing, load hole w/ 2% KCl water, set packer @1830', test cement retainer to 3000 psi for 15 minutes. Test tubing/casing annulus to 500 psi for 15 minutes. Equalize pressure and unseat packer. TOOH.
9. RU wireline and run CBL-GR from PBTD to 750'. . If CBL appears inadequate, re-run log with 750 psi surface pressure. If bond still appears unacceptable, contact production engineering. Send copy of CBL to production engineering.
10. Insure both 400 bbl tanks on location are filled with 2% KCl water in preparation for Fruitland coal fracs. Filter all water to 25 microns.

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OKLAHOMA

Rowley # 5
Recommend Completion Procedure
Unit K Section 17 T27N R10W
Page 2

*****LOWER COAL*****

11. RU wireline and perf the following coal interval w/ 4" HSC w/ 19.8 gram charges @ 4 SPF (correlate depths to CNL-CCL-GR log).

1880-1895'

Total: 15 feet: 60 holes

12. TIH w/ 3-1/2" 9.3# N-80 FJ frac string and set fullbore pkr @ 1830'. Load backside w/ 2% KCl water.
13. RU treatment company for frac. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. Fracture treat lower coal according to attached schedule w/ 70Q foam at 20 BPM with 105,000 lbs of 20/40 mesh Arizona sand. Flush with 12 bbls gel. Estimated treating pressure is 1700 psi. **MAXIMUM PRESSURE IS LIMITED TO 4000 PSI!** Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight **only**.
14. SI well for 3 hours for gel break.
15. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
16. Re-fill 400 bbl frac tanks with 2% KCl water and filter to 25 microns.
17. When well ceases to flow, TOOH w/ pkr and frac string. TIH w/ 2-3/8" tbg and csg scraper to 1860'. TOOH.
18. RU wireline, TIH and set 5-1/2" RBP @ 1800'.

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Rowley # 5
Recommend Completion Procedure
Unit K Section 17 T27N R10W
Page 3
*****UPPER COAL*****

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DIST 3

19. RU wireline and perf the following coal interval w/ 4" HSC w/ 19.8 gram charges @ 4 SPF (correlate depths to CNL-CCL-GR log).

1730-1745'

Total: 15 feet: 60 holes

20. TIH w/ frac string and set pkr @ 1760'. Pressure test BP to 3000 psi surface pressure.
21. Release pkr, PU to 1700', load backside and set pkr @ approx 1700'.
22. RU treatment company for frac. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. Fracture treat upper coal according to attached schedule w/ 70Q foam at 30 BPM with 70,000 lbs of 20/40 mesh Arizona sand. Flush with 13 bbls gel. Estimated treating pressure is 2100 psi. **MAXIMUM PRESSURE IS LIMITED TO 4000 PSI** Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight **only**.
23. SI well for 3 hours for gel break.
24. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
25. When well ceases to flow, TOOH, laying down 3-1/2" frac string and packer. TIH w/ retrieving head on 2-3/8" tbg and clean out upper zone until sand flow stops. Take Pitot gauge before releasing BP. Release RBP set @ 1800' and TOOH.
26. TIH w/ 2 3/8" tbg and 4 3/4" bit, clean out to PBTD. Blow well clean.. After clean up, flow test the Coal for 24 hrs, taking **pitot gauges every 6 hrs. Take final Pitot gauge and gas & water samples.** TOOH laying down 2-3/8" tbg.
28. TIH w/ 1892' of 1-1/2" tbg w/ standard seating nipple one jt off bottom and pump-off plug on bottom. Land tbg string.
29. ND BOP and NU independent wellhead. Pump off plug. **Take final Pitot gauge.** Rig down & release rig.

Approve:

J. A. Howieson

VENDORS:

Wireline:	Blue Jet	325-5584
Fracturing:	Western	327-6222

SBD

Pertinent Data Sheet -ROWLEY #5

Location: 1650' FSL, 1650' FWL, Section 17, T-27-N R-10-W, San Juan County, NM

Field: Fulcher Kutz PC

Elevation: 6125' GL

TD: 2003'

PBTD: 1892'

GWI: FTC 100.00%/PC 100.00%

NRI: FTC 72.00%/PC 72.00%

Drilling Completed: 1/1/53

Casing Record:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
	8-5/8"	24.0# K-55 8rd	134'	125 sx	Surface Circ
	5-1/2"	15.5# K-55 8rd	1895'	150 sx	785' - T.S.

Formation Tops:

Ojo Alamo	865'
Kirtland	1000'
Fruitland	1585'
Pictured Cliffs	1895'

Logging Record:

IEL - TS

Stimulation:

240 Qts. S.N.G.

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