

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
1040' FSL, 990' FEL Sec. 11, T-28-N, R-10-W, NMPM

5. Lease Number
SF-080724

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Zachry #5

9. API Well No.

10. Field and Pool
Aztec 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.

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

Signed [Signature] (SD) Title Regulatory Affairs Date 12/30/93

APPROVED

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

JAN 06 1994

CONDITION OF APPROVAL, if any: _____

DISTRICT MANAGER

NMOCD

Hold 2-104 for NGL

Schedule to Applicants -
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-182
Revised 8-1-88

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, Arama, NM 88210

DISTRICT III
1000 Rio Arriba 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 Zachry		Well No. 5	
Unit Letter P	Section 11	Township 28 North	Range 10 West	County San Juan	
Amount Surface Leases of Well: 1040 feet from the South line and 990 feet from the East line					
Ground level Elev. 5655'		Producing Formation Fruitland Coal/Pic.Cliffs		Foot Basin/Aztec	
				Dedication Acquired 262.28/197.08 Acres	
<p>1. Outline the acreage dedicated to the subject well by colored pencil or ink 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, lease-pooling, etc.?</p> <p><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 their descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>No allowable well be assigned to the well until all interests have been consolidated (by commutation, unitization, lease-pooling, or otherwise) or until a unit-constructed unit, encompassing such interests, has been approved by the Division.</p>					

*Not resurveyed prepared from
a plat dated 3-21-55 by
Stephen H. Kinney;

OPERATOR CERTIFICATION

I hereby certify that the information
contained herein is true and complete to the
best of my knowledge and belief.

Signature
Peggy Bradfield

Printed Name
Meridian Oil Inc.

Position
Regulatory Representative

Company
12-30-93

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 are true and
correct to the best of my knowledge and
belief. 1-3-94

Date Surveyed
C. EDW.

Need to be approved

Signature of Surveyor
Professional Surveyor

8857

Pertinent Data Sheet - Zachry #5

Location: 1040' FSL, 990' FEL, Section 11, T28N, R10W, San Juan County, New Mexico

Field: Aztec Pictured Cliffs

Elevation: 5655' DF

TD: 1933'

PBTD: 1933'

Completed: 04-19-55

Spud Date: 04-09-55

DP #: 32113A

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>
	9 5/8"	36.0# J-55	161'	105 sxs	Surface/Circ
	5 1/2"	15.5# J-55	1859'	200 sxs	

Tubing Record:

<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
1"	1.7#	1890'

Formation Tops:

Ojo Alamo:	734'
Kirtland:	844'
Fruitland:	1610'
Pictured Cliffs:	1853'
Lewis:	1933'

Logging Record:

Stimulation:

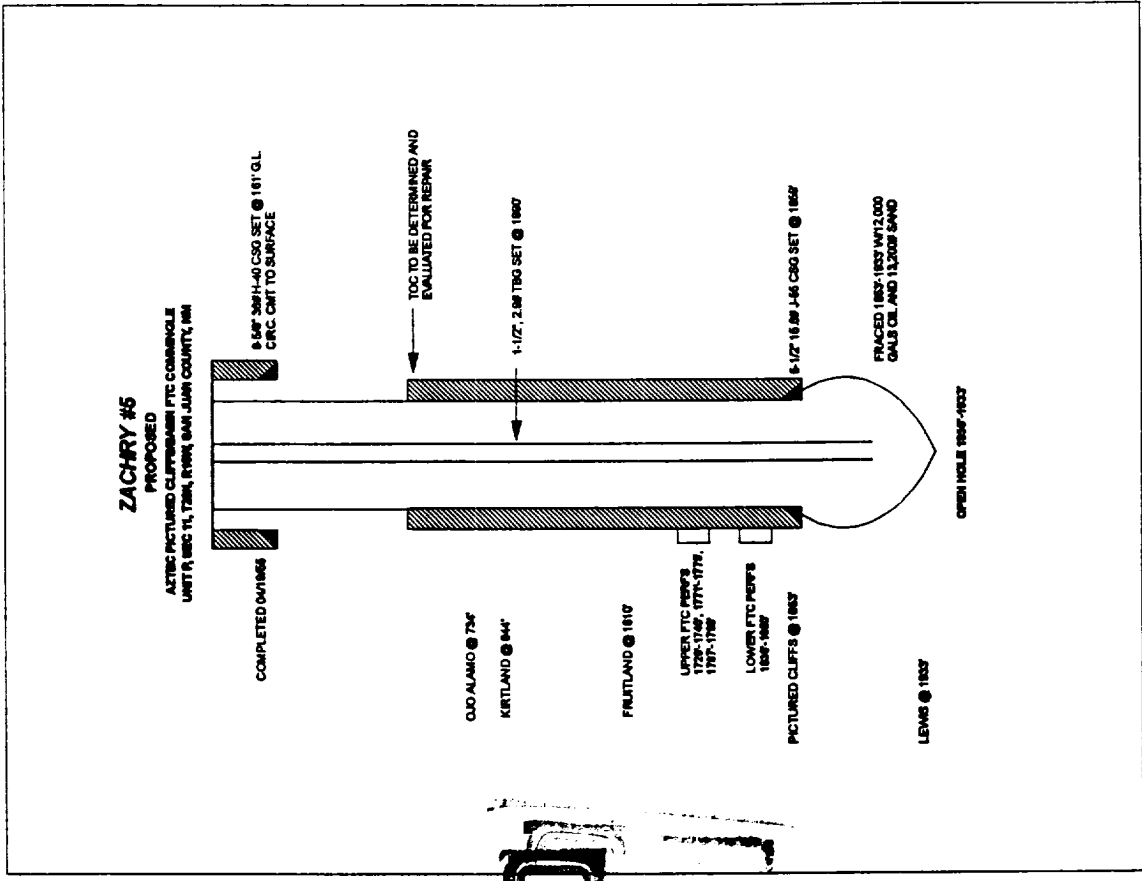
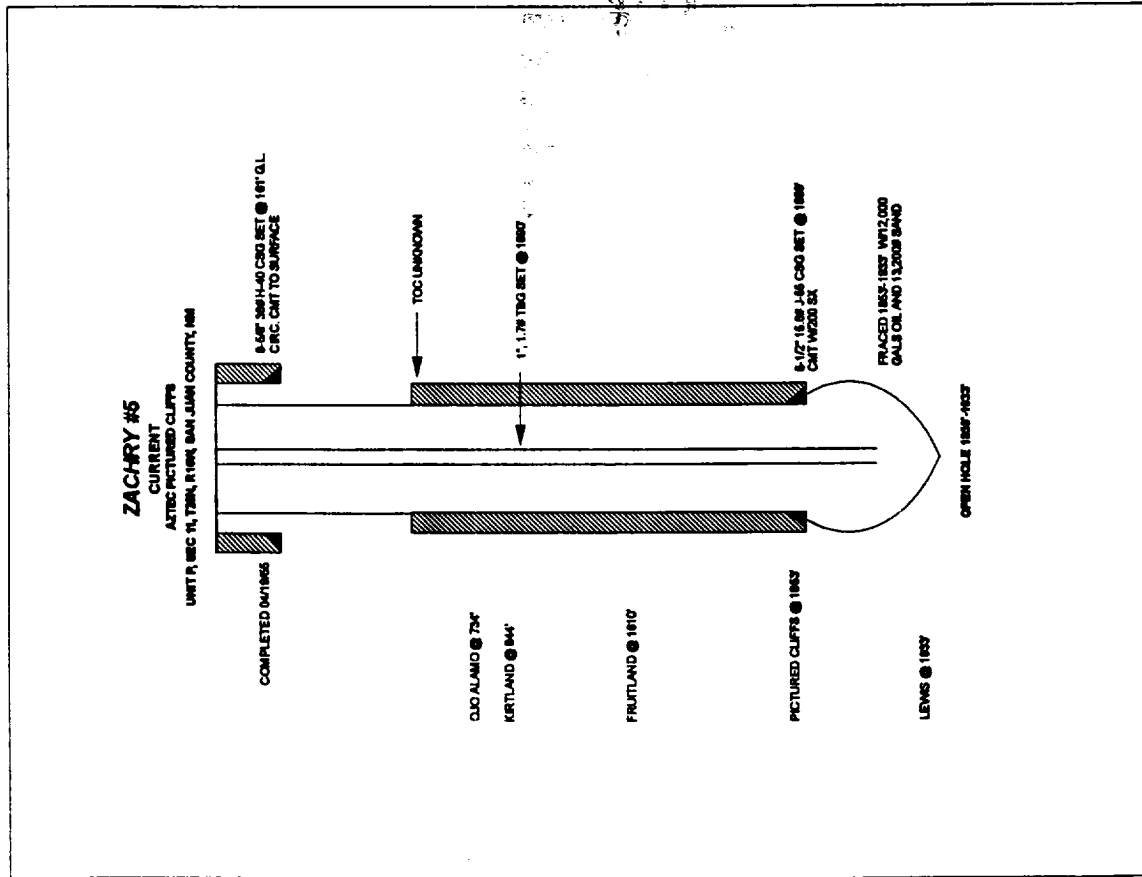
Open Hole Frac; 1853' - 1933', w/12,600 gal oil & 13,200# sand.

Workover History:

Production History:

Transporter: MOI

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DIST. 2



**ZACHRY #5
Recommend Completion Procedure
SE/4 Section 11 T28N 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/ 1890' of 1" tbg, tally and inspect.
4. TIH w/ 4-3/4" bit on 2-3/8" work-string and clean out to open hole TD @ 1933'. TOOH.
5. TIH w/ 4-3/4" bit and 5-1/2" casing scraper on 2-3/8" tbg and clean out to 5-1/2" casing shoe @ 1859'. Load hole w/ 20 bbls 2% KCl water. TOOH.
6. RU & RIH w/ CNL-CCL-GR and log from casing shoe @ 1870' to 1600'
7. RIH and wireline set 5-1/2" CIBP @ 1855'. Correlate w/ CCL - CNL - GR log to ensure CIBP is set between casing shoe and bottom of FTC. Load hole w/ water. TOOH.
8. TIH w/ fullbore packer and 2-3/8" tubing, load hole w/ 2% KCl water, set packer @1845, test CIBP 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 from PBTD (1855') to 150'. If CBL appears inadequate, re-run log with 500 psi surface pressure. If bond still appears unacceptable, contact production engineering. Send copy of CBL to production engineering.
10. Refill the 400 bbl tanks on location with 2% KCl water in preparation for Fruitland coal fracs. Filter all water to 25 microns.

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DIST. 3

ZACHRY #5
Recommend Completion Procedure
SE/4 Section 11 T28N R10W
Page 2

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

11. RU wireline and perf the following coal interval w/ w/ 3-3/8" HSC w/ 16.0 gram charges @ 4 SPF (correlate depths to CNL-CCL-GR log).

1838-1850'

Total: 12 feet: 48 holes

12. TIH w/ 3-1/2" 9.3# N-80 FJ frac string and set fullbore pkr @ 1780'. 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 65,000 lbs of 20/40 mesh Arizona sand. Tag all sand w/ 0.4 mCi/1000# Ir-192 tracer. Flush with 14 bbls 2% KCl. Estimated treating pressure is 1800 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. Refill 400 bbl frac tanks with 2% KCl water and filter to 25 microns.
17. When well ceases to flow, Release packer, TIH w/ pkr and frac string to 1840'. TOOH. TIH and set 5-1/2" RBP @ 1820'.

OIL CON. DIV.
DIST. 9

ZACHRY #5
Recommend Completion Procedure
SE/4 Section 11 T28N R10W
Page 3

*****UPPER COAL*****

18. RU wireline and perf the following coal interval w/ w/ 3-3/8" HSC w/ 16.0 gram charges @ 4 SPF (correlate depths to CNL-CCL-GR log).

1728-1740', 1771-1779', 1787-1790

Total: 23 feet: 92 holes

19. TIH w/ frac string and set pkr @ 1810'. Pressure test BP to 3000 psi surface pressure.
20. Release pkr, PU to 1650', set pkr @ approx 1650', and load backside.
21. 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 95,000 lbs of 20/40 mesh Arizona sand. Tag all sand w/ 0.4 mCl/1000# Ir-192 tracer. Flush with 13 bbls 2% KCl. Estimated treating pressure is 2200 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.
22. SI well for 3 hours for gel break.
23. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
24. When well ceases to flow, TOOH w/ pkr and frac string. 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 @ 1820' and TOOH.
25. TIH w/ 2 3/8" tbg open ended and clean out lower coal until sand stops. 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
26. TIH w/ 2-3/8" tbg and 4 3/4" bit, clean out to PBSD. Blow well clean. Drill out CIPB set @ 1855', clean out to open hole TD. TOOH laying down 2-3/8" tbg.
27. RU wireline and run After - Frac - GR log from 1900' to 1600'.
28. TIH w/ 1900' of 1-1/2" tbg w/ standard seating nipple (ID = 1.375") 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:	PETRO	326-6669
Fracturing:	HOWCO	325-3575
RA Tagging:	Protechnics	326-7133

OIL CON. DIV.
DIST. 3