

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

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator MERIDIAN OIL</p> <hr/> <p>3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M 990'FNL, 990'FEL Sec.34, T-29-N, R-10-W, NMPM, San Juan County</p>	<p style="text-align: center;">API # (assigned by OCD)</p> <p>5. Lease Number Fee</p> <p>6. State Oil&Gas Lease Fee</p> <p>7. Lease Name/Unit Name Pierce Federal A</p> <p>8. Well No. 1</p> <p>9. Pool Name or Wildcat Aztec PC/ Basin Ft Coal</p> <p>10. Elevation:</p>
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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 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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OIL CON. DIV.
DIST. 3

SIGNATURE *John B. ...* (SD) Regulatory Affairs December 30, 1993

(This space for State Use)
Approved by *...* Title DEPUTY OIL & GAS INSPECTOR, DIST. # Date JAN 7 1994

Hold on for ...

Schedule to Accompany -
District Office
State License - 4 copies
Fee License - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-182
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DIST. 3

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

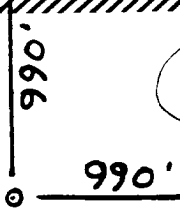
DISTRICT III
1000 Rio Rancho Rd., Azusa, NM 87430

WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.		Lease Pierce A		Well No. 1
Unit Lease A	Section 34	Township 29 North	Range 10 West	County San Juan
Approximate Location of Well: 990 feet from the North line and 990 feet from the East line.				
Ground Level Elev. 5552'	Producing Formation Fruitland Coal/Pic.Cliffs	Foot Basin/Aztec	Dedicated Acreage 320/160 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or ballpoint marker on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty):
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been considered by communication, communication, lease-pooling, etc.? Yes No If answer is "yes" type of communication communication agreement will be obtained
If answer is "no" list the owners and what arrangements which have actually been considered. (Use reverse side of this form if necessary.)
No allowance will be assigned to the well until all interests have been considered (by communication, lease-pooling, or otherwise) or until a non-consent suit, eliminating such interest, has been approved by the Division.

*Not resurveyed prepared from a plat dated 2-3-54 by Ernest V. Echohawk.



OPERATOR CERTIFICATION

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

Peggy Bradford
Signature
Peggy Bradford

Printed Name
Regulatory Representative

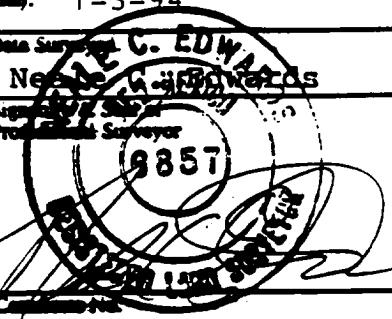
Company
Meridian Oil Inc.

Date
12-30-93

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. 1-3-94

Date Surveyed
C. EDWARDS
Name of Surveyor
Signature
Professional Surveyor
6857



Pertinent Data Sheet - Pierce Federal A #1

Location: 990' FNL, 990' FEL, Section 34, T29N, R10W; San Juan County, New Mexico

Field: Aztec Pictured Cliffs

Elevation: 5552' GR

TD: 1932'

PBTD: 1932'

Completed: 12-20-54

DP #: 32181A

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement Surface/Circ</u>
12 1/4"	9 5/8"	36.0# H-40	93' GL	100 sxs	
7 7/8"	5 1/2"	15.5# J-55	1823' RKB	100 sxs	

Tubing Record:

<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
1"	1.7# Siphon Line	1903'

Formation Tops:

Ojo Alamo: 755'
Kirtland: 860'
Fruitland: 1508'
Pictured Cliffs: 1823'

Logging Record:

Stimulation:

Workover History:

Perf: Open Hole, Shot w/250 quarts "OWE", 1932' - 1829'.
Frac: Sand/Oil, Open Hole w/12,600 gal water & 10,100# sand. Flush w/2300 gal.

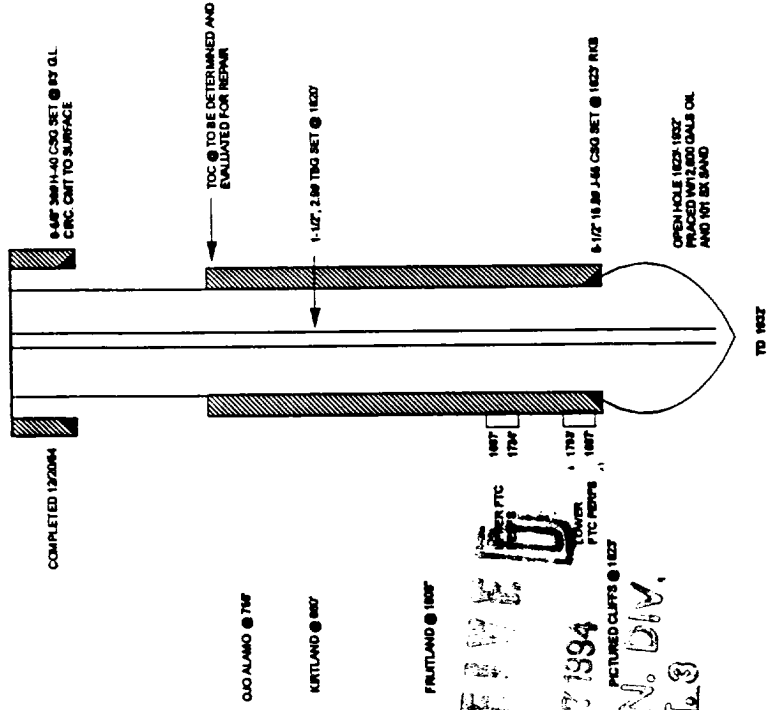
Production History:

Transporter: EPNG

32181A
JUN 19 1994
OIL CON. DIV.
MIDLAND

PIERCE FEDERAL A #1

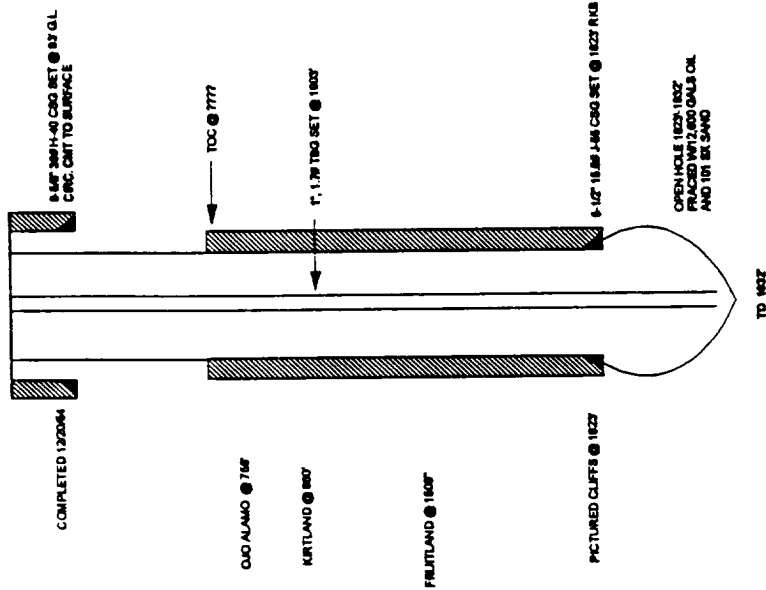
PROPOSED
 ALTRIC PICTURED CLIFFS UNIT A, INC. 24, TRIN, 1516K, SAN JUAN COUNTY, NM



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PIERCE FEDERAL A #1

CURRENT
 ALTRIC PICTURED CLIFFS
 UNIT A, INC. 24, TRIN, 1516K, SAN JUAN COUNTY, NM



PIERCE FEDERAL A #1
Recommend Completion Procedure
NE/4 Section 34 T29N R10W

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DIST. 3

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/ 1903' of 1" tbg, tally and inspect.
4. 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 @ 1823'. TOOH.
5. TIH w/ 4-3/4" bit on 2-3/8" work-string and clean out to open hole TD @ 1932'. Load hole w/ 15 bbls 2% KCl water. TOOH.
6. RU & RIH w/ CNL-CCL-GR and log from casing shoe @ 1932' to 1600'
7. RIH and wireline set 5-1/2" CIBP @ 1812'. Load hole w/ water. TOOH.
8. TIH w/ fullbore packer and 2-3/8" tubing, load hole w/ 2% KCl water, set packer @ 1800', 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 PBSD (1812') to 150'. 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 frags. Filter all water to 25 microns.

PIERCE FEDERAL A #1
Recommend Completion Procedure
NE/4 Section 34 T29N R10W
Page 2

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*****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).

1793-1807'

Total: 14 feet: 56 holes

12. TIH w/ 3-1/2" 9.3# N-80 FJ frac string and set fullbore pkr @ 1750'. 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. Flush with 15 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 1970'. TOOH. TIH and set 5-1/2" RBP @ 1760'.

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PIERCE FEDERAL A #1
Recommend Completion Procedure
NE/4 Section 34 T29N R10W

Page 3

UPPER COAL

18. 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).

1687-1700', 1724-1734'

Total: 23 feet: 92 holes

19. TIH w/ frac string and set pkr @ 1750'. Pressure test BP to 3000 psi surface pressure.
20. Release pkr, PU to 1600', load backside and set pkr @ approx 1600'.
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 75,000 lbs of 20/40 mesh Arizona sand. Tag all sand w/ 0.4 mCi/1000# Ir-192 tracer. Flush with 15 bbls gel. Estimated treating pressure is 2300 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 @ 1760' 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 @ 1812', clean out to open hole TD. TOOH laying down 2-3/8" tbg.
27. RU wireline and run After - Frac - GR log from 1932' to 1600'.
28. TIH w/ 1820' 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	327-8222
RA Tagging:	Protechnics	326-7133