

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, 1090'FEL Sec.5, T-29-N, R-11-W, NMPM

5. Lease Number  
SF-081085

6. If Indian, All. or Tribe Name

7. Unit Agreement Name

8. Well Name & Number  
Fifield #2

9. API Well No.

10. Field and Pool  
Aztec Pic.Cliffs/  
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
<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 checked="" type="checkbox"/> Other - commingle
	<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 complete this well in the Fruitland Coal and subsequently commingle with the Pictured Cliffs per the attached procedure. The Fifield Com #800, a Fruitland Coal well in the East half of Section 5, will be converted to a pressure observation well and all production equipment removed. Application will be made for non-standard location for the Fruitland Coal, and for commingling to the New Mexico Oil Conservation Division.

RECEIVED  
JUN 2 7 1994

OIL CON. DIV.  
DIST. 3

OTO FARMINGTON, NM  
JUN 16 PM 2:42

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

Signed [Signature] (SBD2) Title Regulatory Affairs Date 5/20/94

(This space for Federal or State Office use)

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

CONDITION OF APPROVAL, if any:

APPROVED

Date

JUN 15 1994

DISTRICT MANAGER

2-104 for FSL Coal NSL E

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

PO Box 2088  
Santa Fe, NM 87504-2088

RECEIVED  
BLM

Form C-107

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

070 FARMINGTON, NM

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-08688		2 Pool Code 71629/71280		3 Pool Name Basin Fruitland Coal/Aztec Pictured Cliffs		
4 Property Code		5 Property Name Fifield			6 Well Number 2	
7 OGRID No. 14538		8 Operator Name MERIDIAN OIL INC.			9 Elevation 5764'	

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	5	29 N	11 W		1650	South	1090	East	S.J.

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 320/160	13 Joint or infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 Not resurveyed, prepared from a plat dated 2-16-55 by Russell H. McNeace.		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
4 3 2 1		Signature Peggy Bradfield	
		Printed Name Peggy Bradfield	
		Regulatory Representative Title	
		Date 6-15-94	
5		18 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 belief.	
5275.0'		Date of Survey 6-25-94	
5093.22'		Signature and Seal of Surveyor HEALE C. EDWARDS 8857	
JUN 27 1994		6857	
OIL CON. DIV. DIST. 3		Certificate Number	
5251.22'			

**Pertinent Data Sheet - FIFIELD #2**

**Location:** 1650' FSL, 1090' FEL, Unit I, Section 5, T29N, R11W, San Juan County, New Mexico

**Field:** Basin Fruitland Coal  
(Aztec Pictured Cliffs)

**Elevation:** 5773' DF  
5763' GR

**TD:** 2197'  
**PBTD:** 2143'

**Completed:** (PC) 04/12/55

**Spud Date:** 03/09/55

**DP #:** 49103A PC  
49103 FTC

**Casing Record:**

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
13 3/4"	9 5/8"	25.4# Armco SW	133'	100 sxs	Surface/Circ
8 3/4"	5 1/2"	15.5# J-55	1977'	150 sxs	TOC @ 1045' TS

**Tubing Record:**

<u>Tbg Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>
1"	1.7# V-55	2020'

**Formation Tops:**

Ojo Alamo	760'
Kirtland:	1358'
Fruitland:	1705'
Pictured Cliffs:	1978'

**Logging Record:**

**Stimulation:** PC Frac'd: 1995' - 2040', w/8,770 gals #2 diesel oil, 15,000# sand.  
Flushed w/2,400 gals.

**Workover History:**

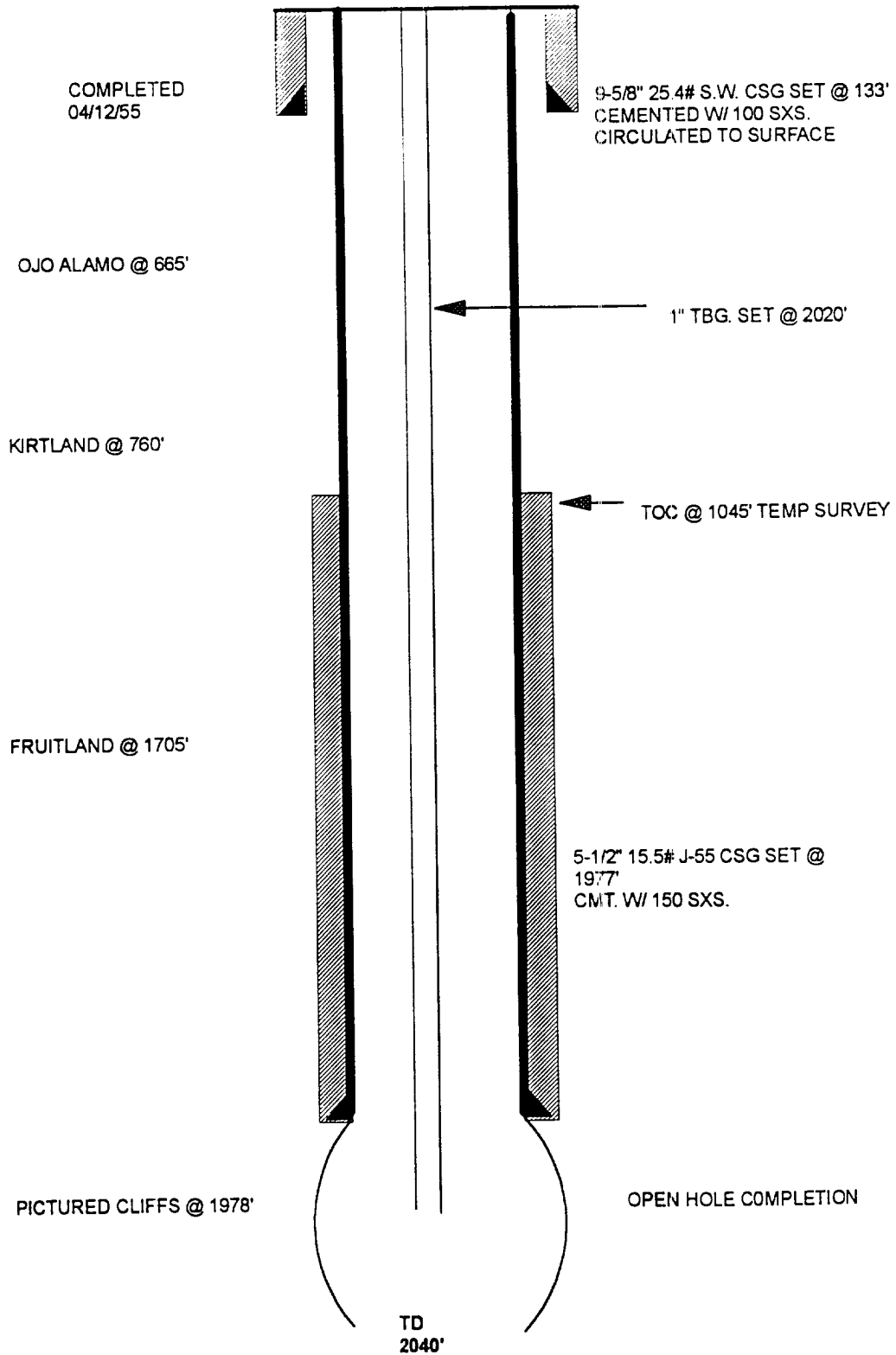
**Production History:** None

**Transporter:** EL Paso Natural Gas

## FIFIELD #2

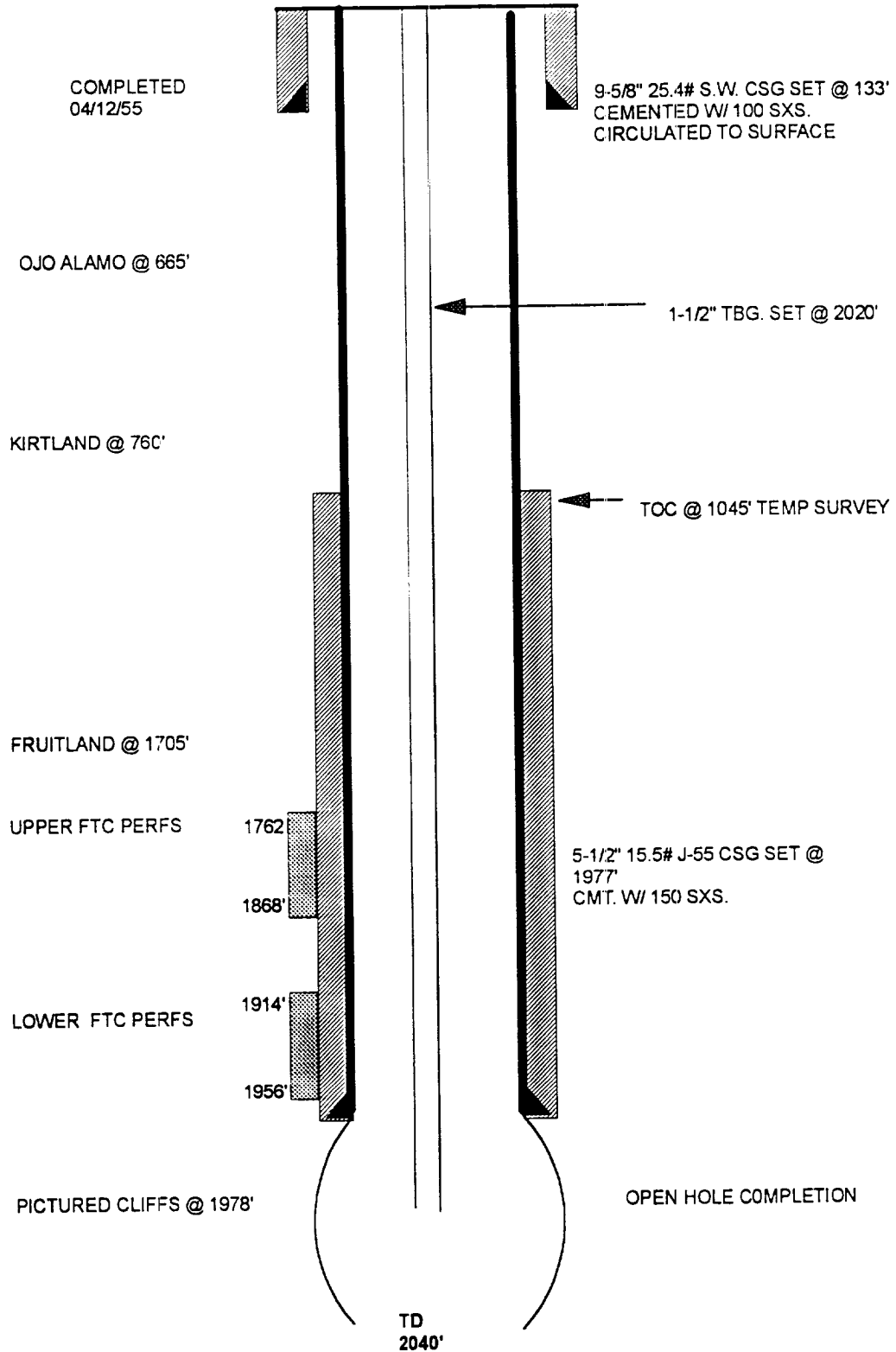
CURRENT  
AZTEC PICTURED CLIFFS

UNIT I, SEC 5, T29N, R11W, SAN JUAN COUNTY, NM



## FIFIELD #2

PROPOSED  
BASIN FRUITLAND COAL / AZTEC PICTURED CLIFFS  
UNIT I, SEC 5, T29N, R11W, SAN JUAN COUNTY, NM



FIFIELD #2  
Recommend Completion Procedure  
SE/4 Section 5 T29N R11W

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. Heat water as required by weather.
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/ 2020' of 1" 1.7# tbg, tally and inspect.
4. TIH w/ 4-3/4" bit on 2-3/8" work-string and clean out to open hole TD @ 2040'. 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 @ 1977'. Load hole w/ 20 bbls 2% KCl water. TOOH.
6. RU & RIH w/ CNL-CCL-GR and log from casing shoe @ 1977' to 1700'
7. RIH and wireline set 5-1/2" CIBP @ 1975'. Correlate w/ GR-CCL-CNL to ensure CIBP is set between PC and basal FTC. Load hole w/ water. TOOH.
8. TIH w/ fullbore packer and 2-3/8" tubing, load hole w/ 2% KCl water, set packer @1950', 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 (1975') 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. Heat water as required by weather.

FIFIELD #2  
Recommend Completion Procedure  
SE/4 Section 5, T29N R11W  
Page 2

**\*\*\*LOWER COAL\*\*\***

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

**1914-1920'**

**1934-1949'**

**1953-1956'**

Total: 24 feet: 96 holes

12. TIH w/ 2-7/8" 6.5# N-80 FJ frac string to 1956' spot 250 gallons 15% HCl acid across perfs, PU frac string and set fullbore pkr @ 1850'. Load backside w/ 2% KCl water. PO
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 30 BPM with 110,000 lbs of 20/40 mesh Arizona sand and **TAIL WITH 10,000 #'s 12/20 mesh Arizona sand**. Tag sand with 0.4 mCi/1000# Ir-192 tracer. Flush with 16 bbls 2% KCl. Estimated treating pressure is 3000 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. Heat water as required by weather.
17. When well ceases to flow, Release packer, TIH w/ pkr and frac string to 1900' to check for fill. TOOH. TIH and set 5-1/2" RBP @ 1900'.

FIFIELD #2  
Recommend Completion Procedure  
SE/4 Section 5, T29N R11W  
Page 3

**\*\*\*UPPER COAL\*\*\***

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

**1762-1766'**

**1822-1842'**

**1859-1868'**

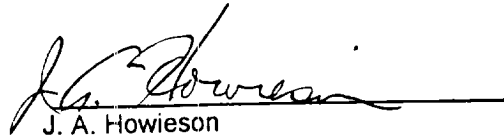
Total: 33 feet: 132 holes

19. TIH w/ frac string and set pkr @ 1890'. Pressure test BP to 3000 psi surface pressure.
20. Release pkr, PU to 1870', spot 350 gallons 15% HCl acid across perfs, PU frac string and set pkr @ approx 1700', 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 80,000 lbs of 20/40 mesh Arizona sand and 10,000 #'s 12/20 mesh Arizona sand. Tag sand with 0.4 mCi/1000# Ir-192 tracer. Flush with 14 bbls 2% KCl. Estimated treating pressure is 2400 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 @ 1900' 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

FIFIELD #2  
Recommend Completion Procedure  
SE/4 Section 5, T29N R11W  
Page 4

26. TIH w/ 2-3/8" tbg and 4 3/4" bit, clean out to PBTD. Blow well clean. Drill out CIPB set @ 1975', clean out to open hole TD. TOOH laying down 2-3/8" tbg.
27. RU wireline and run After - Frac - GR log from 2040' to 1600'.
28. TIH w/ 2020' 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:  
Fracturing:  
RA Tagging:

Petro  
WESTERN  
Protechnics

325-6669  
327-6222  
326-7133