

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
1100' FSL, 1450' FWL Sec. 33, T-29-N, R-10-W, NMPM

5. Lease Number
SF-080724A

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Zachry #13

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

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

Signed [Signature] (SD) Title Regulatory Affairs Date 1/10/93

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

NMOCD

DISTRICT MANAGER

Submit to Assessor-
District Office
State Lease - 4 copies-
Fee Lease - 3 copies-

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-182
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1900, Hobbs, NM 88240

DISTRICT II
P.O. Denver CO, Aztec, 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. 13
U&L Letter N	Section 33	Township 29 North	Range 10 West	County San Juan	
Actual Footage Location of Well: 1100 feet from the South line and 1450 feet from the West line					
Ground level Elev. 5796'		Fracturing Formation Fruitland Coal/Pic.Cliffs		Basin/Aztec	
				Dedicated Acreage: 320/160 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or ink on the plat below.

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).

3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been considered by communication, agreement, force-pooling, etc.?

☐ Yes ☐ No If answer is "yes" type of consideration

If answer is "no" list the owners and what consideration which have already been considered. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been considered (by communication, agreement, force-pooling, or otherwise) or until a non-consent suit, eliminating such owners, has been approved by the Division.

*Not resurveyed, prepared from a plat dated 12-4-59 by E.L. Potteet.

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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

Peggy Bradfield

Printed Name

Regulatory Representative

Position

Meridian Oil Inc.

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

Don S. Edwards
Noble C. Edwards
Signatory
Professional Surveyor

9857

Pertinent Data Sheet - Zachry #13

Location: 1100' FSL, 1450' FWL, Section 33, T29N, R10W, San Juan County, New Mexico

Field: Aztec Pictured Cliffs

Elevation: 5753' DF

TD: 2100'

PBTD: 2061' RKB

Completed: 01-27-60

Spud Date: 01-04-60

DP #: 32176B

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>
12 1/4"	9 5/8"	32.3# H-40	105'	100 sxs	Surface/Circ
8 3/4"	5 1/2"	15.5# J-55	2100'	156 cf & 140 sxs	

Tubing Record:

<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
2 3/8"	4.7# J-55	1990'

Formation Tops:

Pictured Cliffs: 1987'

Logging Record: Micro, IES

Stimulation:

PC: Sand/Water Frac 1997' - 2052' 4 SPF w/55,000 gal water & 100,000# sand.
FTC: Sand/Water Frac 1856' - 1827' 4 SPF w/41,500 gal water & 30,000# sand.
Squeeze perms 1827' - 1856' w/100 sx cmt.

Workover History:

Production History:

Transporter:

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**ZACHRY #13
Recommend Completion Procedure
SW/4 Section 33 T29N 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/ 1990 2-3/8", tally and inspect.
4. TIH w/ 4-3/4" bit and 5-1/2" casing scraper on 2-3/8" tbg and clean out 5-1/2" casing to PBTD @ 2061'. TOOH.
5. Load hole w/ 15 bbls 2% KCl water. RU & RIH w/ CNL-CCL-GR and log from PBTD @ 2061' to 1600'
6. RIH and wireline set 5-1/2" CIBP @ 1984'. Load hole w/ water. TOOH.
7. TIH w/ fullbore packer and 2-3/8" tubing, 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.
8. RU wireline and run CBL from PBTD (1984') 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.
9. 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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ZACHRY #13
Recommend Completion Procedure
SW/4 Section 33 T29N R10W
Page 2

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

10. 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).

1967-1981'

Total: 14 feet: 56 holes

11. TIH w/ 3-1/2" 9.3# N-80 FJ frac string and set fullbore pkr @ 1920'. Load backside w/ 2% KCl water.
12. 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/ 0.25 mCl/1000# Sc-46 tracer. 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.
13. SI well for 3 hours for gel break.
14. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
15. Re-fill 400 bbl frac tanks with 2% KCl water and filter to 25 microns.
16. When well ceases to flow, TOOH w/ pkr and frac string. TIH w/ 2-3/8" tbg and csg scraper to 1950'. TOOH. TIH and set 5-1/2" RBP @ 1920'.

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ZACHRY #13
Recommend Completion Procedure
SW/4 Section 33 T29N R10W
Page 3

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

17. 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).

1844-1854', 1889-1892

Total: 13 feet: 52 holes

18. TIH w/ frac string and set pkr @ 1900'. Pressure test BP to 3000 psi surface pressure.
19. Release pkr, PU to 1800', spot 150 gallons of 15% HCl acid across perfs, load backside and set pkr @ approx 1800'.
20. 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.
21. SI well for 3 hours for gel break.
22. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
23. 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 @ 1920' and TOOH.
24. 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
25. TIH w/ 2-3/8" tbg and 4 3/4" bit, clean out to PBTD. Blow well clean. Drill out CIPB set @ 1992', clean out to open hole TD. TOOH laying down 2-3/8" tbg.
26. RU wireline and run After - Frac - GR log from 2060' to 1700'.
27. TIH w/ 2020' of 1-1/2" tbg w/ standard seating nipple one jt off bottom and pump-off plug on bottom. Land tbg string.
28. ND BOP and NU independent wellhead. Pump off plug. **Take final Pitot gauge.** Rig down & release rig.

Approve: _____


J. A. Howieson

VENDORS:

Wireline:	Schlumberger	325-5006
Fracturing:	B.J. Services	327-6288
RA Tagging:	Protechnics	326-7133