

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	5. Lease Number SF-077085
2. Name of Operator Meridian Oil Inc.	6. If Indian, All. or Tribe Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	7. Unit Agreement Name
4. Location of Well, Footage, Sec., T, R, M 955'FNL, 1650'FEL Sec.36, T-28-N, R-10-W, NMPM	8. Well Name & Number Omler #4
	9. API Well No.
	10. Field and Pool Basin Frt Coal Fulcher Kutz PC
	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"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

It is intended to complete the Fruitland Coal formation in the existing Pictured Cliffs wellbore and produce the two formations via downhole commingling according to the attached procedure and wellbore diagrams. An application for this commingle was made to the New Mexico Oil Conservation Division June 10, 1992.

RECEIVED

JUL 14 1992

OIL CON. DIV.
DIST. 3

RECEIVED
JUL 15 PM 1:17
BLM
SANDIA, NM

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

Signed [Signature] (KAS) Title Regulatory Affairs Date 7/2/92

(This space for Federal or State Office use)

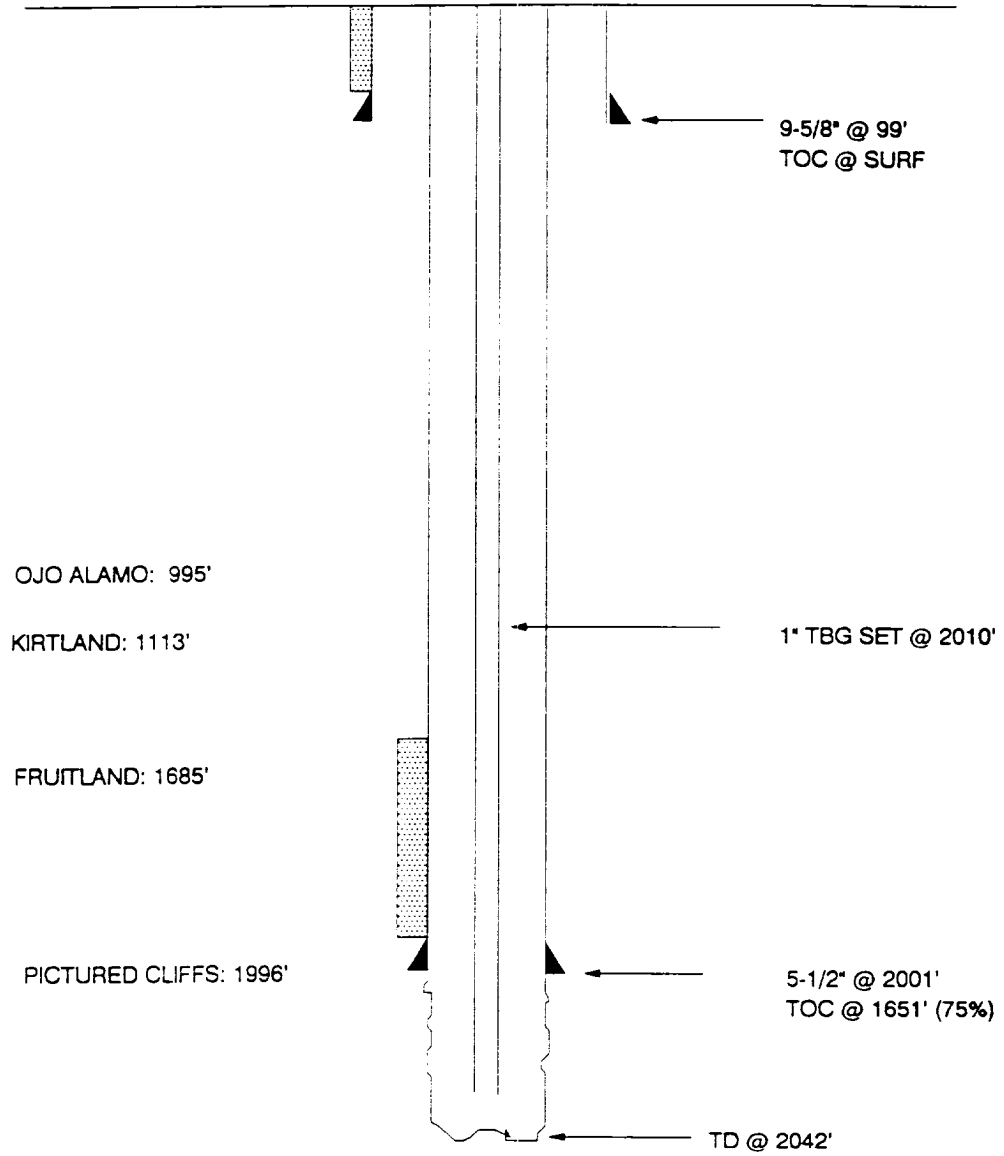
APPROVED BY _____ Title _____ APPROVED
Date JUL 13 1992

CONDITION OF APPROVAL, if any:

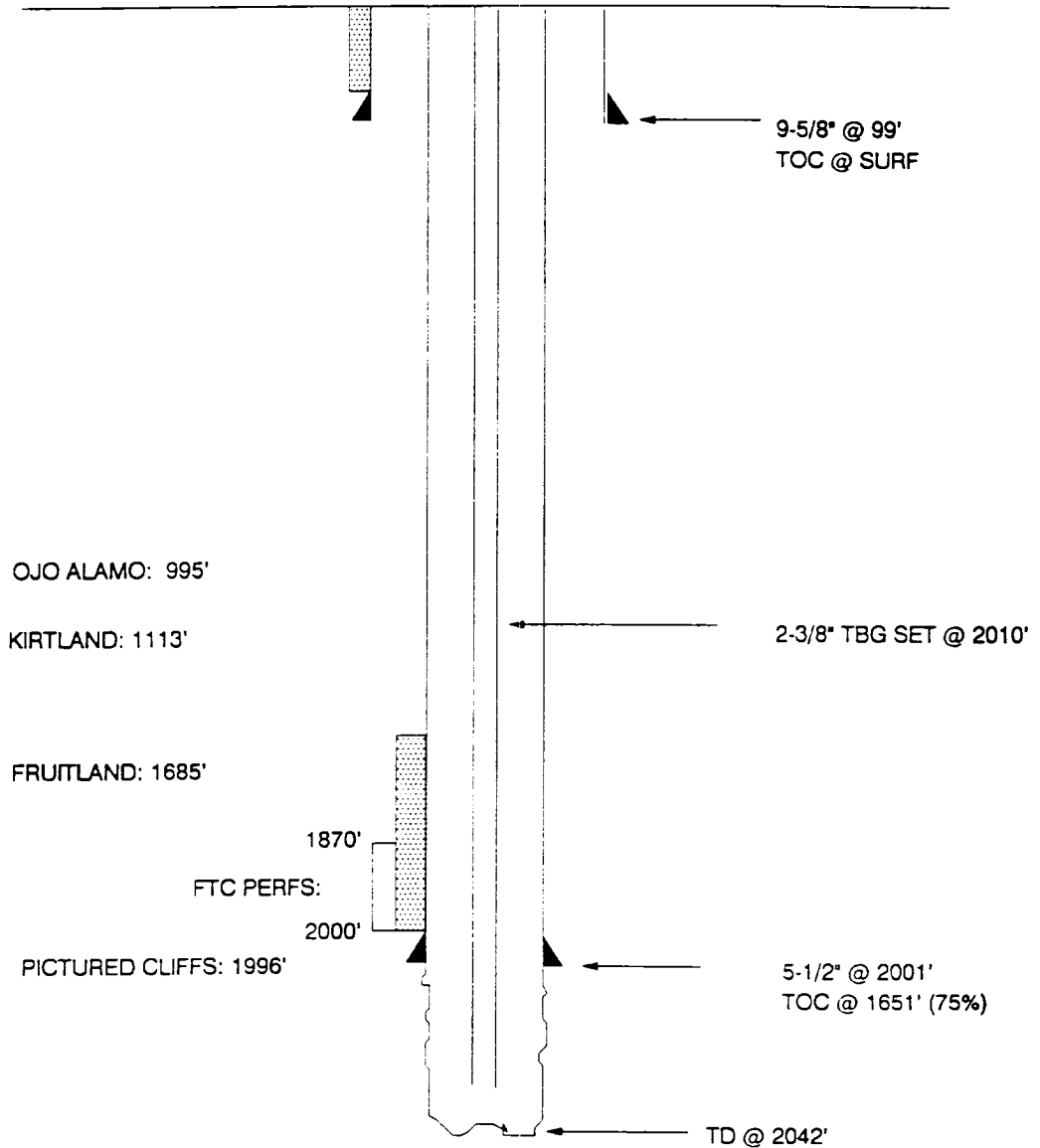
AREA MANAGER

N/MOCTD

CURRENT
OMLER #4
UNIT B SECTION 36 T28N R10W
SAN JUAN COUNTY, NEW MEXICO



PROPOSED
OMLER #4
UNIT B SECTION 36 T28N R10W
SAN JUAN COUNTY, NEW MEXICO



OMLER #4
Recommend Recompletion Procedure
Unit B Section 36 T28N R10W

1. Comply to all NMOCD, BLM and MOI rules & regulations. MOL and RU. ND wellhead. NU BOP. Test operation of rams. NU two relief lines. Blow well down.
2. TOOH w/ 2010' of 1" tbg.
3. TIH w/ csg scraper
4. RU wireline and pack-off and run GR & CNL and collar locator from 2042' - 1000'. Determine depth of casing shoe and correlate formation depths to existing log.
5. After csg shoe depth is determined set 5-1/2" retrievable BP as close to the bottom Fruitland coal as csg shoe will allow (approx 1990'). Run CBL.
6. Pressure test csg and BP to 1000 psi. If csg fails, isolate csg leaks and squeeze as required. If holes occur at Ojo Alamo depths (approx 1000'), contact production engineering.
7. a) If squeeze was performed, TIH w/ 4-3/4" bit on 2-3/8" tbg. Drill cmt & CO w/ water to 1990'. Pressure test csg leak repair to 3000 psi. Resq w/ HOWCO "Micro-Matrix" cement to achieve 3000 psi test if necessary.
b) If squeeze was not performed, pressure test csg to 3000 psi. If pressure test fails, squeeze as necessary. Pressure test repair to 3000 psi. Use HOWCO "Micro-Matrix" cement to achieve 3000 psi test.
 - If csg can not be made to hold 3000 psi, sq to hold 1000 psi.
8. TOOH w/ RBP.
9. TIH w/ 4-3/4" bit on 2-3/8" tbg and CO to TD (2042') w/ air mist.
10. Shut down air mist. After stable rate is established, take pitot gauge. Switch to a relief line with an adjustable choke and apply 60 psi back pressure. After stable rate is established, take pitot. TOOH. Inform production engineering of results.

• Pictured Cliffs frac will ONLY be performed if adequate PC production is not established through CO operations.

• IF CSG HOLDS 3000 PSI, FOLLOW PROCEDURE A

• IF CSG CANNOT BE MADE TO HOLD 3000 PSI, SQUEEZE TO HOLD 1000 PSI AND FOLLOW PROCEDURE B

PROCEDURE A
(Procedure For Fracing Down Csg)
OMLER #4
Unit B Section 36 T28N R10W

11. In preparation of fracs, fill 2 - 400 bbl frac tank with 2% KCL water. Filter all water to 25 microns.

*****PC FRAC*****

12. RU Smith Energy hydraulic tree saver. RU Smith Energy Services for fracture treatment. Hold safety meeting with all personnel. Pressure test surface lines to 4000 psi. Fracture treat open hole PC according to attached schedule at 30 BPM with 21,000 lbs of 20/40 mesh Arizona sand. Flush with 2051 gals water. **MAXIMUM PRESSURE IS LIMITED TO 3000 PSI!** Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
13. PU tree saver, close blind rams. RD tree saver.
14. RU lubricator.
15. RU wireline and set RBP as close to bottom Fruitland Coal as casing shoe will allow (approx 1990'). RD lubricator.
16. Perf Fruitland coal w/ 4" HSC guns w/ 9.8 gram charges. Shoot **approx** 1870-85', 1900-10' and 1980-2000' w/ 4 SPF. Choose exact perfs from CNL.
17. TIH w/ 2-3/8" tbg and SAP tool w/ 4' spacing. Breakdown perfs with 1/2 bbl/ft at 1 BPM with 20 bbls 15% HCL. Add 0.3% quaternary amine type clay stabilizer, an inhibitor and sequestering agent to the acid. TOOH.

*****Fruitland Coal Frac*****

18. RU Smith Energy hydraulic tree saver. RU Smith Energy Services for fracture treatment. Hold safety meeting with all personnel. Pressure test surface lines to 4000 psi. Fracture treat according to attached schedule at 30 BPM with 100,000 lbs of 20/40 mesh Arizona sand. Flush with 1712 gals 70 quality foam. **Tag the last 1/3 of the frac** with 0.4 mCi/1000# Ir-192 tracer. **MAXIMUM PRESSURE IS LIMITED TO 3000 PSI!** Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
- Treat per the attached treatment schedule.
19. Immediately upon completion of the stimulation, flow the well to pit on 1/8" positive choke for 10 minutes. Monitor flow back pressure on square root of time vs pressure plot. SI well for 2 hours for gel break.
20. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.

PROCEDURE A
(Procedure For Fracing Down Csg)
OMLER #4
Unit B Section 36 T28N R10W
Page 2

21. When well ceases to flow, TIH w/ 2-3/8" tbg and retrieving head and clean out upper zone until sand flow stops. Take Pitot gauge and gas & water samples before releasing BP. Equalize pressure across BP and flow PC formation until flow stops. Release BP set @ 1990' and TOOH.
22. TIH w/ 2-3/8" tbg and CO to TD. TOOH.
23. Run After-Frac-Gamma-Ray log from TD - 1000'.
24. TIH w/ 2010' of 2-3/8" tbg w/ standard seating nipple one jt off bottom and clean out open hole until sand flow stops. Land tbg string. Take final Pitot gauge.
25. ND BOP and NU independent wellhead. Rig down & release rig.

Approve: _____

J. A. Howieson

VENDORS:

Wireline:	HLS	327-4751
Fracturing:	Smith Energy	327-7281
RA Tagging:	Protechnics	326-7133
Cementing:	HOWCO	325-3575

KAS:kas

PROCEDURE B
(Procedure For Fracing Down Frac String)
OMLER #4
Unit B Section 36 T28N R10W

11. In preparation of PC frac, fill 1 - 400 bbl frac tank with 2% KCL water. Filter all water to 25 microns.

*****PC FRAC*****

12. TIH w/ 3-1/2", 9.3#, N80, Flush Jt frac string and set pkr @ 1990'.
13. RU Smith Energy Services for fracture treatment. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. With 500 psi held on backside & recorded, fracture treat open hole PC down frac string. Perform frac as stated in the attached treatment schedule at 30 BPM with 21,000 lbs of 20/40 mesh Arizona sand. **MAXIMUM PRESSURE IS LIMITED TO 4000 PSI!** Flush with 727 gals 70 quality foam. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
- Treat per the attached treatment schedule.
14. Immediately upon completion of the stimulation, flow the well to pit on 1/8" positive choke for 10 minutes. Monitor flow back pressure on square root of time vs pressure plot. SI well for 2 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. When well ceases to flow, proceed to Fruitland Coal frac.
16. In preparation of Fruitland Coal frac, fill 2 - 400 bbl frac tank with 2% KCL water. Filter all water to 25 microns.

*****Fruitland Coal Frac*****

17. RU wireline and set RBP as close to bottom Fruitland Coal as casing shoe will allow (approx 1990').
18. Perf Fruitland coal w/ 4" HSC guns w/ 9.8 gram charges. Shoot approx 1870-85', 1900-10' and 1980-2000' w/ 4 SPF. Choose exact perfs from CNL.
19. TIH w/ 2-3/8" tbg and SAP tool w/ 4' spacing. Breakdown perfs with 1/2 bbl/ft at 1 BPM with 20 bbls 15% HCL. Add 0.3% quaternary amine type clay stabilizer, an inhibitor and sequestering agent to the acid. TOOH.
20. TIH w/ 3-1/2", 9.3#, N80, Flush Jt frac string and set pkr @ 1750'. Pressure test BP and csg below pkr to 4000 psi.

PROCEDURE B
(Procedure For Fracing Down Frac String)
OMLER #4
Unit B Section 36 T28N R10W
Page 2

21. RU Smith Energy Services for fracture treatment. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. With 500 psi held on backside & recorded, fracture treat according to attached schedule at 30 BPM with 100,000 lbs of 20/40 mesh Arizona sand. Flush with 640 gals 70 quality foam. Tag the last 1/3 of the frac with 0.4 mCi/1000# Ir-192 tracer. MAXIMUM PRESSURE IS LIMITED TO 4000 PSI! Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
- Treat per the attached treatment schedule.
22. Immediately upon completion of the stimulation, flow the well to pit on 1/8" positive choke for 10 minutes. Monitor flow back pressure on square root of time vs pressure plot. SI well for 2 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 & frac string. TIH w/ 2-3/8" tbg and retrieving head and clean out upper zone until sand flow stops. Take Pitot gauge and gas & water samples before releasing BP. Release BP set @ 1990' and TOOH.
25. TIH w/ 2-3/8" tbg and CO to TD. TOOH.
26. RU wireline and pack-off and run After-Frac-Gamma-Ray log from TD - 1000'.
27. TIH w/ 2010' of 2-3/8" tbg w/ standard seating nipple one jt off bottom and clean out open hole until sand flow stops. Land tbg string. Take final Pitot gauge.
28. ND BOP and NU independent wellhead. Rig down & release rig.

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