

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
OIL

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  
790' FNL, 1450' FEL, Sec. 11, T-30-N, R-9-W, NMPM

5. Lease Number  
SF-078336  
6. If Indian, All. or  
Tribe Name  
7. Unit Agreement Name

8. Well Name & Number  
Lindsey #2  
9. API Well No.  
30-045-09760  
10. Field and Pool  
Blanco Mesaverde  
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 - Bradenhead repair	

13. Describe Proposed or Completed Operations

REVISED

It is intended to repair the bradenhead on the subject well according to the attached revised procedure and wellbore diagram.

RECEIVED  
AUG 28 1995  
OIL CON. DIV.  
DIST. 3

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

Signed [Signature] (LWD5) Title Regulatory Administrator Date 8/17/95

(This space for Federal or State Office use)

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

Date **APPROVED**

CONDITION OF APPROVAL, if any:

AUG 24 1995  
DISTRICT MANAGER

NMOCD

## WORKOVER PROCEDURE

LINDSEY # 2  
Mesaverde  
NE/4 Sec. 11, T30N, R9W  
San Juan Co., New Mexico  
DPNO 48521A

1. Comply to all NMOCD, BLM, and MOI regulations. Conduct daily safety meetings for all personnel on location.
2. Test location rig anchors and repair if necessary. Prepare blow pit. MOL and RU daylight pulling unit. Install a 400 bbl frac tank and an atmospheric blow tank. NU blooie line to blow pit, and relief line to atmospheric tank. Fill frac tank with 1% KCl water.
3. Blow down tubing (160 jts of 2 3/8", 4.7#, EUE set at 5034') to atmospheric tank. Control well with 1% KCl water as needed. ND wellhead and NU BOP's. Test and record operation of BOP's. Send wellhead to A-1 Machine or WSI for inspection.
4. PU on tubing and strap out of hole. Visually inspect tubing, and replace joints that are in bad condition. Note any buildup of scale, and notify Operations Engineer.
5. PU 4 3/4" bit and scraper (5 1/2", 15.5 ppf) and CO to PBTD of 5068'. POOH. PU 5 1/2" RBP and TIH. Set RBP at 4300'. Load hole and pressure test casing to 1000 psig. Spot two sacks of sand on top of RBP. POOH.
6. RU wireline unit. Run Audio Profile Log from RBP to Ojo Alamo. Run CBL (with 1000 psig pressure) to determine TOC in 5 1/2" by 7" annulus. Estimated TOC is calculated at 2975' (75% efficiency). Also run CBL uphole to determine the BOC from surface squeeze into 5 1/2" by 7" annulus. **(Contact Operations Engineer with results of CBL. If bond from surface squeeze is very poor, the option of spearing and pulling the 5 1/2" casing free at the surface may be attempted.)**
7. Perforate 2 squeeze holes at 2680', **through 5 1/2" casing only**. TIH with 5 1/2" fullbore packer and set 200' above perforations. Pressure up backside to 500 psi. Establish rate into perforations. Mix and pump 30 sx of Class B or Class G cement with 2% CaCl. Squeeze 15 sx (3 bbl) into perforations, leaving 15 sx (3 bbl) inside the 5 1/2" casing. WOC 2 hours. POOH with packer.
8. Perforate 2 squeeze holes at 1770', **through 5 1/2" casing only**. TIH with 5 1/2" fullbore packer and set 200' above perforations. Pressure up backside to 500 psi. Establish rate into perforations. Mix and pump 30 sx of Class B or Class G cement with 2% CaCl. Squeeze 15 sx (3 bbl) into perforations, leaving 15 sx (3 bbl) inside the 5 1/2" casing. WOC 12 hours (overnite). POOH with packer.
9. Run CBL to determine placement of cement.
10. Perforate 4 squeeze holes at 2700', **through both strings of casing**. TIH with 5 1/2" fullbore packer and set 200' above perforations. Pressure up backside to 500 psi. Establish rate into perforations.
11. Mix and pump Plug # 1. (Plug # 1 - Fruitland and Pictured Cliffs tops: 2300' to 2700' with 100% excess - 100 sxs.) Displace cement to packer and squeeze cement into perforations. Maintain squeeze pressure and WOC 4 hours. POOH with packer.

12. Perforate 4 squeeze holes at 1780', through both strings of casing. TIH with 5 1/2" fullbore packer, set 200' above perforations. Pressure up backside to 500 psi. Establish rate into perforations.
13. Mix and pump Plug # 2. (Plug # 2 - Ojo Alamo and Kirtland tops: 1780' to 1590' with 100% excess - 50 sxs.) Displace cement to packer and squeeze cement into perforations. Maintain squeeze pressure and WOC 12 hours (overnite).
14. Release packer and POOH. TIH with 4 3/4" bit and drill out cement. Pressure test casing to 1000 psig. Re-squeeze as necessary to hold pressure.
15. Run Audio Profile Log to check for fluid flow behind 7" casing.
16. TIH with retrieving tool and retrieve RBP. POOH and LD RBP.
17. TIH with production tubing (expendable check on bottom and seating nipple one joint off bottom), and CO to PBTD with air. Blow well clean and gauge production. Land tubing at 5035'.
18. ND BOP's and NU wellhead. Pump check from tubing. Obtain final gauge.
19. Release rig.

Recommend: \_\_\_\_\_

Operations Engineer

Approve: \_\_\_\_\_

*R. Quirk* 8/16/95  
Drilling Superintendent

**Contacts:**

Operations Engineer

Larry Dillon

326-9714

# Lindsey #2

## Current

Blanco Mesaverde  
DPNO 48521A / Prop #: 012563900

790' FNL, 1450' FEL  
Unit B, Sec. 11, T30N, R09W, San Juan Co., NM  
Longitude/Latitude: 107.745422 - 36.830612

Spud: 3-29-53  
Comp: 4-17-53  
Workover: 1-27-58  
Workover: 6-26-64

Initial AOF: 15,600 Mcf/d  
Initial SICP: 293 psig

Ojo Alamo @ 1640'

Kirtland @ 1728'

Fruitland @ 2353'

Pictured Cliffs @ 2672'

Lewis @ 2762'

Cliff House @ 4362'

Menefee @ 4535'

Point Lookout @ 4910'

Mancos @ 5014'

COTD @ 5068'

Elevation: GR 5882'

Surface: 9 5/8", 25.4#, SW Surface csg set @ 175'. Cmt with 150 sx to surf.

6/64: Sqz. 5-1/2" x 7" annulus with 30 sacks cmt.

10/58: Sqz Bradenhead w/400 sacks BOC @ 1100' (CBL)

2 3/8" 4.7# J-55 tubing set @ 5034' below RT w/SN @ 4999'. Total 160 jts. 3" perf jt from 5000'-5003'

6/64: 7" csg. failed PT <sup>4</sup>46'-1950'. Perf 4 holes @ 2800' and sqz 10 sx to formation.

TOC 5 12" @ 2975' (Calc @ 75% Eff.)

TOC 7" @ 3125' (CBL)

Tieback: 5 1/2", 15.5#, J-55 csg set @ 4200'. Cmt w/91.6 cu. ft

Intermediate: 5 1/2" 23#, J55 csg. set @ 4315'. Cmt. w/300 sx.

CH Perfs @ 4432'-4524' Frac with 40,000# sand & 40,000 gal. water

PL Perfs @ 4764'-5036' Frac with 60,000# sand & 60,000 gal water

Liner: 5 1/2", 15.5#, J55 liner set @ 4202' - 5088'. Cmt w/200 sx. Sqz liner top with 100 sx cmt.

### Production Rates:

Rate: 120 Mcf/d

Cum.: 5.6 cf

Resv.: 441.8 MMcf (Gross)

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Farmington District Office  
1235 La Plata Highway  
Farmington, New Mexico 87401

**Attachment to Notice of**

**Re: Bradenhead Repair**

**Intention to Repair Bradenhead**

**Well: 2 Lindsey**

### CONDITIONS OF APPROVAL

1. Mike Flaniken with the Farmington Office is to be notified at least 24 hours before the workover operations commence (505) 599-8907.

2. The following modifications to your bradenhead repair program are to be made (when applicable):

1. Move the Ojo Alamo - Kirtland cement plug from 17~~80~~<sup>4</sup> - 1590' to 1621' - 1349'. (top of Kirtland at 1571', top of Ojo Alamo at 1399')