

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL GASES COMMISSION

Drawer

Artesia, NM 88210

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

JAN 24 1994

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|--|--|
| 1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | 5. Lease Designation and Serial No. <u>LC-057674A</u> |
| 2. Name of Operator <u>Frostman Oil Corp. ✓</u> | 6. If Indian, Allottee or Tribe Name |
| 3. Address and Telephone No. <u>P.O. Drawer w Artesia, N.M 88210</u> | 7. If Unit or CA, Agreement Designation |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <u>Sec. 10 T-17-S R-27-E 2310 FEL #330 FNL</u> | 8. Well Name and No. <u>Daugherty #1</u> |
| | 9. API Well No. |
| | 10. Field and Pool, or Exploratory Area <u>Daugherty-San Andres</u> |
| | 11. County or Parish, State <u>Eddy N.M</u> |

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

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 Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

NOTIFY BLM AT (505) 887-6544 PRIOR TO COMMENCING PLUGGING OPERATION.

- (1) Spot Cement plug From plug back T.D. 2195' To 50' above Top Penetrations at 1808' o tag AT 1758'.
- (2) Spot Cement plug FROM 1344' TO 1226' (Penetrations at 1276' to 1244'). o tag AT 1226'.
- (3) Penetrate 4 1/2 casing 50' below 8 5/8 casing shoe o Circulate cement To Surface
- (4) INSTALL DRY HOLE MARKER AND RESTORE LOCATION.

I hereby certify that the foregoing is true and correct

Signed Raymond Maldonado

Title Supervisor

Date 1-19-94

This space for Federal or State office use)

Approved by Adam Salameh

Title PETROLEUM ENGINEER

Date 1/20/94

Conditions of approval, if any:

- SEE ATTACHED -

18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

BUREAU OF LAND MANAGEMENT
CARLSBAD RESOURCE AREA

Permanent Abandonment of Wells on Federal Lands

Conditions of Approval

1. Approval: Plugging operations shall commence within 90 days from the approval date of plugging procedure.
2. Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Eddy County call (505)887-6544 ; for wells in Lea County call (505) 393-3612.
3. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet ; and a 5M system for a well not deeper than 22,727 feet.
4. Mud Requirement: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of water. Minimum nine (9) pounds per gallon.
5. Cement Requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either class "C" , for up to 7,500 feet of depth, mixed at 14.8 lbs./gal. with 6.3 gallons of fresh water per sack or class "H" , for deeper than 7,500 feet plugs, mixed at 16.4 lbs./gal. with 4.3 gallons of fresh water per sack.

6. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: Well name and number, the name of the operator, the lease serial number, the surveyed location (the quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer; such as metes and bounds).
7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. Show date well was plugged.

Following the submittal and approval of the Subsequent Report of Abandonment, surface restoration conditions of approval will be developed and furnished to you.

COMPANY Frostman Oil Corp
LEASE & WELL NO. Daugherty #1
FORMATION _____
COUNTY & STATE Eddy N.M.

Before Plugging

8 3/8 casing at 404
Cement circulated to surface

Top of Cement Temperature Survey
at 600'

Top Penetrations 1276'

Bottom Penetrations 1294'

Top Penetrations 1808'

Bottom Penetrations 2036'

4 1/2 casing at 2195'
Cemented w/ 350 svcs

CONVERSION FACTORS

| MULTIPLY | By | TO OBTAIN |
|-------------|--------|----------------|
| Barrels | 5.6146 | Cubic Feet |
| Cubic Feet | 7.4806 | Gallons |
| Gallons | 0.1337 | Cubic Feet |
| Pounds/gal. | 7.4806 | Pounds/Cu. Ft. |

PIPE VOLUMES

0.00545 x I.D.² in inches = Cu. Ft./Ft.
0.0407 x I.D.² in inches = Gals./Ft.
0.00097 x I.D.² in inches = Bbls./Ft.

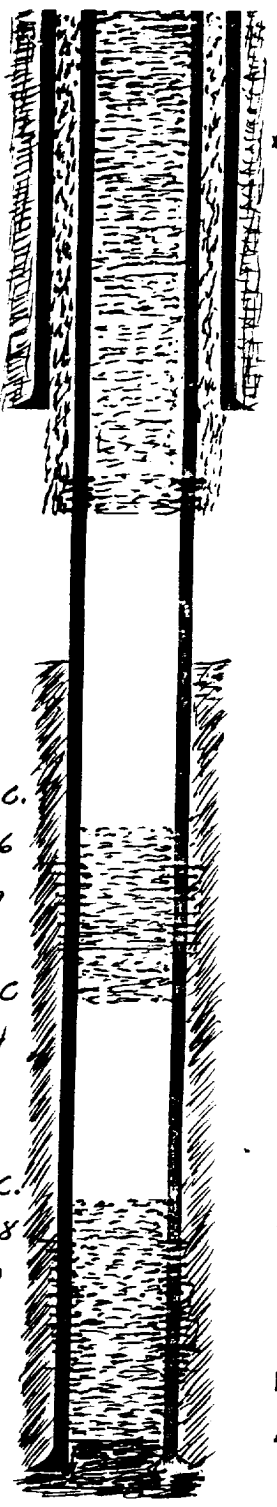
HYDROSTATIC PRESSURE

FOR WATER:

0.434 x Depth in Feet = PSI.

FOR OTHER FLUIDS:

0.434 x Depth x Sp. Gr. = PSI.



COMPANY Frostman Oil Corp
LEASE & WELL NO. Daugherty #1
FORMATION _____
COUNTY & STATE Eddy N.M
2. 10 17 27



AFTER Plugging

8 3/8 casing at 404'
circulated to surface w/ cement

Perforate 4 1/2 casing at 454' & circulate cement to surface

Top of Cement at 600' Temperature Survey

Top Perforations 1276

Bottom Perforations 1294

Top Perforations 1808'

Bottom Perforations 2036'

Plug back T.D 2195

T.D 2198'

CONVERSION FACTORS

| MULTIPLY | By | TO OBTAIN |
|-------------|--------|----------------|
| Barrels | 5.6146 | Cubic Feet |
| Cubic Feet | 7.4806 | Gallons |
| Gallons | 0.1337 | Cubic Feet |
| Pounds/gal. | 7.4806 | Pounds/Cu. Ft. |

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