

Submitted in lieu of For. 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-077107A
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 950'FSL, 1148'FEL Sec.28, T-28-N, R-9-W, NMPM	8. Well Name & Number Hancock B #9
	9. API Well No. 30045-07113
	10. Field and Pool Aztec Pic.Cliffs
	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 checked="" 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 type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

It is intended to plug and abandon the subject well per the attached procedure.

RECEIVED  
BLM  
92 APR 30 AM 11:06  
019 FARMINGTON, N.M.

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

Signed [Signature] (DB) Title Regulatory Affairs

(This space for Federal or State Office use)

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

CONDITION OF APPROVAL, if any:

APPROVED

AS AMENDED

MAY 6 4 1992

AREA MANAGER

OPERATOR

Hancock B #9  
P&A Procedure

Retainers:

- \* - 2 7/8" Cement Retainer, as needed.

Cement Requirements:

- \* - 299 sx Class "B" with 2% CaCl<sub>2</sub> as required (15.6 ppg, 1.18 ft<sup>3</sup>/sk, 5.20 gal/sk).

PROCEDURE:

Prior to move on test rig anchors and repair if necessary. Construct reserve pit.

Notify Farmington BLM (326-6201) 24 hours prior to commencing operations.

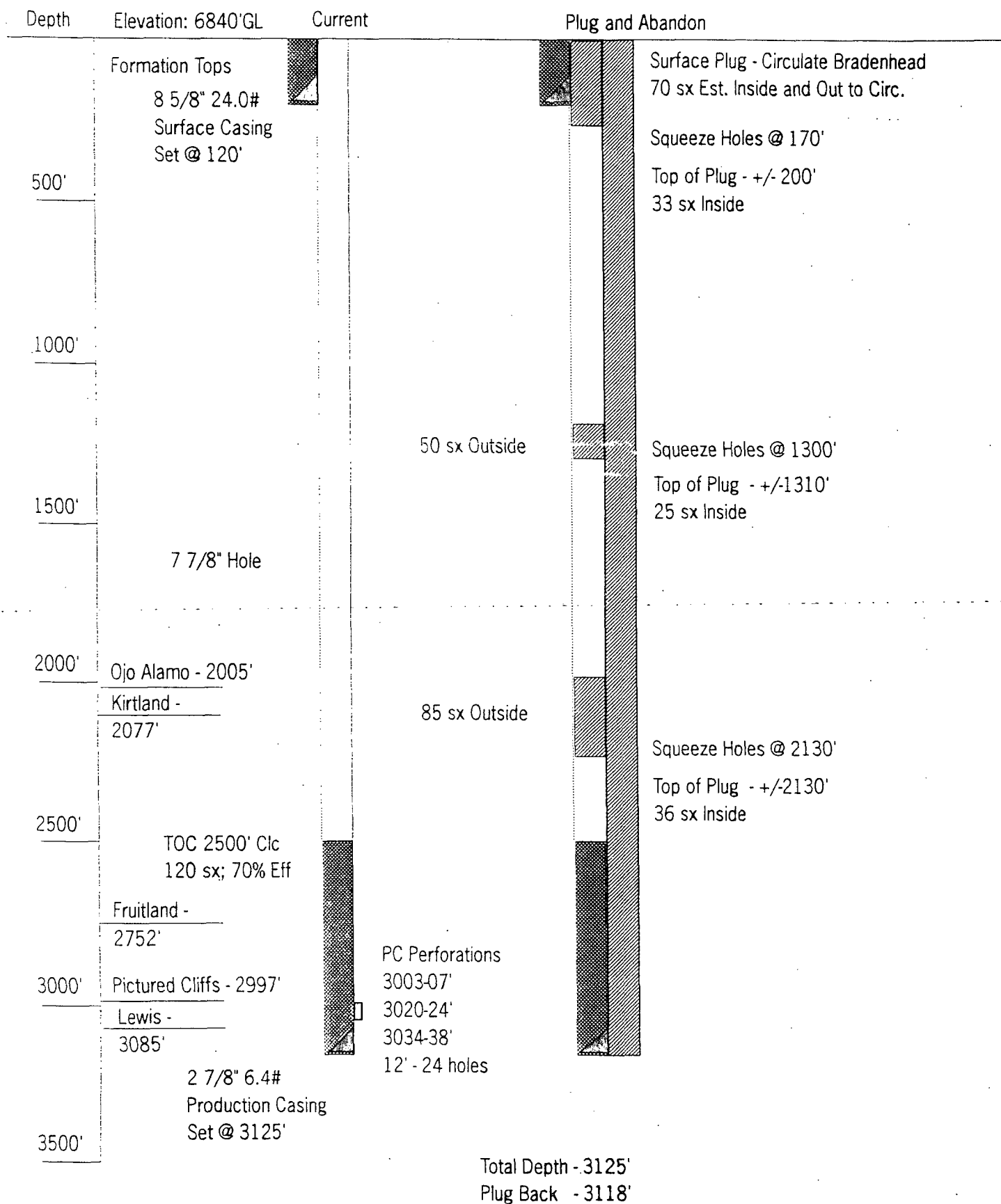
Comply with all MOI, federal and state regulations.

1. MOL & RU. If necessary kill well with water (well has 0 psi on the casing). ND wellhead and NU BOP. Test BOP.
2. TIH open-ended with 1 1/4" tubing to PBTD at 3118'. Clear tubing with fresh water (one tubing volume minimum).
3. Pump 5 bbls water ahead and spot 20 sx Class "B" cement with 2% CaCl<sub>2</sub> on bottom down tubing (24 ft<sup>3</sup> for 416' plug inside casing with 100% excess to 100' above top perforation and 50% excess to 50' above Fruitland top). TOH with tubing. Wait on cement a minimum of two hours. TIH to tag top of first plug to verify depth. Close pipe rams and pressure test casing to minimum of 500 psi.
4. Pump 5 bbls water ahead and spot 16 sx of Class "B" cement down tubing from top of first plug (19 ft<sup>3</sup> for 572' plug inside casing with no excess to 50' below Ojo Alamo). Adjust cement volumes accordingly to fill casing to 50' below the base of the Ojo Alamo. TOH with workstring.
5. Pressure test casing to 500 psi minimum. RU wireline. Perforate two squeeze holes at 2130' and RD. Cement as follows:
  - A. If pressure held, rig up on 2 7/8" casing to cement and open bradenhead. Establish rate, pump 5 bbls water ahead and pump third plug down casing with 110 sx of Class "B" cement. Displace cement to 1310' with water. Third plug from 2130' - 1955' outside casing (85 sx, 100 ft<sup>3</sup> for 175' outside plug with 100% excess in annulus) and from 2130' - 1310' inside casing (25 sx, 30 ft<sup>3</sup> for 820' inside casing with 50% excess 50' above and below Ojo Alamo). Shut-in bradenhead and casing.
  - B. If pressure did not hold, TIH with 2 7/8" casing scraper on 1 1/4" tubing to 2200', TOH. TIH with 2 7/8" cement retainer on 1 1/4" tubing. Set retainer at 2080' and pressure test tubing. Establish rate into squeeze holes, pump 5 bbls water ahead and cement with 87 sx of Class "B" cement. Displace cement to top of retainer (2 sx, 2.5 ft<sup>3</sup> below retainer; outside plug same as in A.). TOH with setting tool. TIH open-ended to 2080' and spot 23 sx of cement from 2080' - 1310' (inside plug same as in A.). TOH to 1310' and reverse tubing clean. TOH with tubing.
6. Wait on cement a minimum of two hours. TIH to tag top of plug to verify depth. TOH
7. Pressure test casing to 500 psi minimum. RU wireline. Perforate two squeeze holes at 1300' and RD. Cement as follows:
  - A. If pressure held, rig up on 2 7/8" casing to cement and open bradenhead. Establish rate, pump 5 bbls water ahead and pump third plug down casing with 83 sx of Class "B" cement. Displace cement to 200' with water. Third plug from 1300' - 1200' outside casing (50 sx, 59 ft<sup>3</sup> for 100' outside plug with 100% excess in annulus) and from 1300' - 200' inside casing (33 sx, 39 ft<sup>3</sup> for 1100' inside casing with 50% excess to 100' above squeeze holes.). Shut-in bradenhead and casing.

**Hancock B #9**  
**P&A Procedure**

- B. If pressure did not hold, TIH with 2 7/8" cement retainer on 1 1/4" tubing. Set retainer at 1250' and pressure test tubing. Establish rate into squeeze holes, pump 5 bbls water ahead and cement with 52 sx of Class "B" cement. Displace cement to top of retainer (2 sx, 2.5 ft<sup>3</sup> below retainer; outside plug same as in A.). TOH with setting tool. TIH open-ended to 1250' and spot 31 sx of cement from 1250' - 200' (inside plug same as in A.). TOH to 200' and reverse tubing clean. TOH with tubing.
8. Wait on cement a minimum of two hours. TIH to tag top of plug to verify depth. TOH.
  9. RU wireline. Perforate two squeeze holes at 170' and RD.
  10. Rig up on 2 7/8" casing to cement. Establish rate into squeeze holes. Pump 5 bbls water ahead and cement with +/- 70 sx of Class "B" cement to circulate bradenhead (170' surface plug inside and outside). Circulate until good cement returns thru bradenhead.
  11. Cut off wellhead and install dry hole marker. Release rig and move off.

Hancock B #9  
Aztec Pictured Cliffs  
SE/SE/4 Sec. 28, T28N, R09W  
Wellbore Schematic



IN REPLY REFER TO  
(019)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREA  
1235 LA PLATA HIGHWAY  
FARMINGTON, NEW MEXICO 87401

Attachment to Notice of

Re: Permanent Abandonment

Intention to Abandon

Well: 9 Hancock B

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal Leases."
2. Mark Kelly with the Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 326-6201.
3. Blowout prevention equipment is required.
4. The following modifications to your plugging program are to be made (when applicable):

*Ojo Alamo Plug-- cement outside of casing (annulus)  
from 2130' - 1810'. (Top of  
Ojo Alamo - 1860')*

*Perforate @ 880'-- cement outside of casing  
from 880' to 780'. (Top of  
Nacimiento - 830')*

*Adjust cement volumes as necessary.*

Office Hours: 7:45 a.m. to 4:30 p.m.

GENERAL REQUIREMENTS FOR  
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES  
FARMINGTON RESOURCE AREA

1. Secure prior approval either on a Sundry Notice (Form 3160-5) or verbally from the Fluids Drilling & Production Section at this office before changing the approved plugging program.
2. Plugging equipment used shall have separate mixing and displacement pumps and a calibrated tank to assure proper displacement of plugs. The Operator is responsible for providing all measuring devices needed to assure proper measurement of materials being used.
3. A proper tank or pit will be used to contain all fluids pumped from the well during plugging operations. Unattended pits are to be fenced.
4. All cement plugs are to be placed through tubing (or drillpipe) and shall be a minimum of 100 feet in length with 50% excess inside casing or 100% excess when plug is set in open hole or squeezed into perforations. 15.6#/gal slurry weight is to be used when using class B neat cement or when  $\text{CaCl}_2$  is used. Use the recommended slurry weight of other type cements when they are used (Class C, Pozzolan etc.).
5. Any cement plugs placed when well is not full of fluid, or when well may be taking fluid, (i.e. across perfs-unless bridge plug or retainer is used, across bad csg., or fresh water formations) will be tagged (touched) after cement has set to verify proper location.
  - 5a. Testing The first plug below the surface plug shall generally be tested by either tagging the plug with the working pipe string, or pressuring to a minimum pump (surface) pressure of 1000 psig, with no more than a 10 percent drop during a 15-minute period (cased hole only). If the integrity of any other plug is questioned, it must be tested in the same manner. Also, any cement plug which is the only isolating medium for a fresh water interval or a zone containing a valuable mineral deposit should be tested by tagging with the drill string.
6. Mud must be placed between plugs. Plugging mud is to be made up with a minimum of 15 lbs/bbl of sodium bentonite, and a nonfermenting polymer. Minimum consistency of plugging mud must be 9 lbs/gal and with a minimum viscosity of 50 sec/qt. Fresh water is to be utilized for mixing mud.
7. Following the placement of a cement plug, the withdrawal rate for at least the length of the cement plug shall not exceed 30 ft/min, in order to minimize the contamination of the plug.

8. Within 30 days after plugging work is completed, file a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5), in quintuplicate with Area Manager, Bureau of Land Management, 1235 La Plata Highway, Farmington, NM 87401. 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.

9. All permanently abandoned wells are to be marked with a regulation marker (4" pipe extending 4' above the ground line) containing the information as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10. After plugging work is completed the surface is to be rehabilitated in accord with instructions from the Fluids Surface Management Section of the Farmington Resource Area Office.

All above are minimum requirements. The period of liability under the bond of record will not be terminated until the lease is inspected and surface work approved.

Please advise this office when the well location is ready for final inspection.

Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1.

You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.