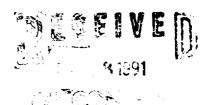
Form 3160-5 (June 1990)

## UNITED STATES DEPARTMENT OF THE INTERIOR BURFALL OF LAND MANAGEMENT

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

	/ Expires: March 31, 1993	
LAND MANAGEMENT	5. Lease Designation and Serial No.	
	14-20-0603-742	
- 1 1 1 1 E. 4	6. If Indian, Allottee or Tribe Name	
Irill or to deepen or reentry to a different reservoir.		
OR PERMIT—" for such proposals	Navajo	
T IN TRIPLICATE	7. If Unit or CA, Agreement Designation	
1. Type of Well  Oil Gas Well Other Water injection well		
	NAVATO IV.	
ion Oil	9. API Well No.	
	12	
gton, NM 87402 (505)327-0311	10. Field and Pool, or Exploratory Area	
Description)	Slickrock Dakota	
	11. County or Parish, State	
— 5089GR	San Juan, NM	
((s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF ACTION		
X Abandonment	Change of Plans	
Recompletion	New Construction	
Plugging Back	Non-Routine Fracturing	
Casing Repair	Water Shut-Off	
Altering Casing	Conversion to Injection	
Other Plug & Abandonment	Dispose Water (Note: Report results of multiple completion on Weil	
	S AND REPORTS ON WELLS  drill or to deepen or regritfy to a different reservoir.  OR PERMIT—" for such proposals  OT IN TRIPLICATE  er injection well  gton, NM 87402 (505)327-0311  Description)  5089GR  K(s) TO INDICATE NATURE OF NOTICE, REPORT  TYPE OF ACTION  Abandonment  Recompletion  Plugging Back  Casing Repair	

Intend to pull rods & tubing & plug hole from top to bottom (899'T.D.). Will run 2 3/8" tubing to bottom of hole in  $4\frac{1}{2}$  casing. Set plug #1 from 899 to 400' (approx. 36 sks.), will plug up & wait 15-20 min., then set plug #2 at 400'; to surface (approx. 35 sks.). Will set dry hole marker above surface or below surface as desirable for BLM Rep. Will notify BLM prior to commencing plugging operation so that representative can observe.



14. I hereby certal, that the foregoing is true and con-	Title free	APPROVES		
(This space for Federal or State office use)  Approved by	Tide	Date		
Conditions of approval, if any:	NMOCD	APR 02 1991		
Title 18 U.S.C. Section 1001, makes it a crime for a or representations as to any matter within its jurisdict	any person knowingly and willfully to make to any department or agency of thetion.			
	*See Instruction on Reverse Side	FARMINGTON RESOURCE AREA		

### 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
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Re: Permanent Abandonment

Intention to Abandon

Well: 12 Rijan

#### 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):

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 CaCl<sub>2</sub> 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 withdrawl 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.