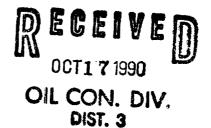
Form 3160-5 (November 1983) (Formerly 9-331)	UNITED STATES SUBMIT IN TRIE DEPARTMENT OF THE INTERIOR (ORDING) BUREAU OF LAND MANAGEMENT	5. Lines beautiful de la
SUN	IDRY NOTICES AND REPORTS ON WELLS form for proposals to drill or to deepen or plug back to a different reserve Use "APPLICATION FOR PERMIT—" for such proposals.)	C47 6. IF INMAR, ALLOTTED OR THE HAMB
OIL GAS WELL 2. NAME OF OPERATOR	▼ other	Jicarilla Apache
	TROLEUM CORPORATION	3. FARM OR LEASE HAMB
P. O. BOX 2120 LOCATION OF WELL (R See also space 17 belo At surface	HOUSTON TX 77252-2120 Léport location clearly and in accordance with any State requirements.*	9. WELL EO. 1 10. FIELD AND FOOL, OR WILDOW Ballard Pictured Cliffs
1600	FNL & 1515 FEL	11. 88C, E, E, M, CO ME, AND SURVEY OF AREA. 11-23N-4W
N/A	7339 GR	12. COOPER OF PARSON 18. PARSON IN NM
TEST WATER SEUT-OF FRACTURE TREAT SHOOT OR ACIDISM REPAIR WELL (Other)	MULTIPLE COMPLETE ABANDON* CHANGE PLANS WATER SECTION FRACTURE TREATM (Other) (Other)	AUBANÇENIY REPORT OF:

Abandonment procedure attached. Approved by Steve Mason. Confirmed to Dale Hudson on 9/27/90.



SEE ATTACHED FOR CONDITIONS OF APPROVAL

18. I hereby certify that the foregoine is true and sorrect		A STATE OF THE STA
SIGNED HUW WHILE	TITLERegulatory Permit Coord.	9/28/90
(This space for Federal or State effice use) APPROVED BY	TITLE	DATE
COMMITTIONS OF APPROVAL, IF ART:		Townsend
	_	

JICARILLA # 1

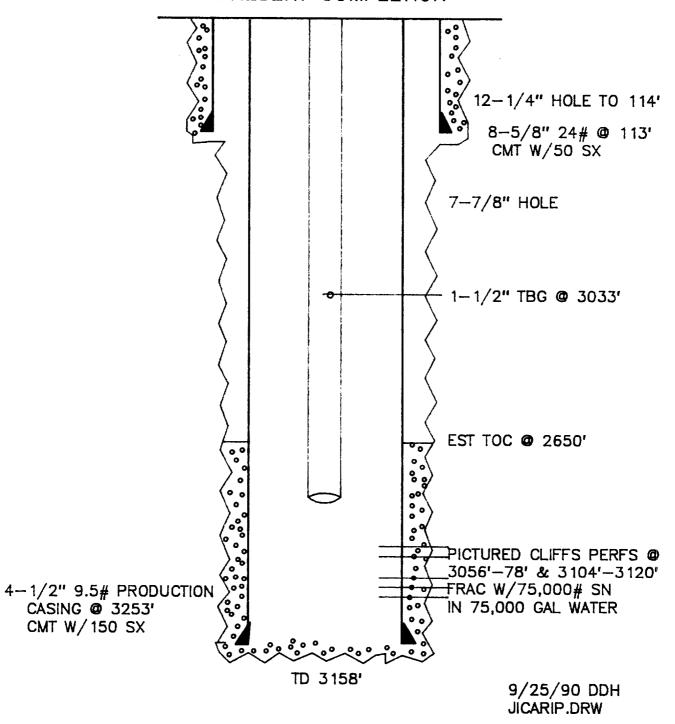
1600' FNL & 1515' FEL Sec 11 - T23N - R4W Rio Arriba Co., NM

RECOMMENDED ABANDONMENT PROCEDURE

- 1. Check rig anchors and road. Repair as necessary.
- 2. MIRUSU.
- 3. Blow down well if necessary.
- 4. Pull 1-1/4" tubing.
- 5. Rig up electric line and lubricator. RIH w/ 4-1/2" CIBP and set at 3,000'. Cap w/ 20' cmt.
- 6. RIH w/ 2-3/8" workstring to 2,910' (open ended). Circulate hole w/ 9.2# plugging mud.
- 7. Perforate 2 squeeze holes at 2,920' using thru-tubing gun.
- 8. Open 4-1/2" x 8-5/8" annulus and attempt to establish circulation. If successful, cement annulus to surface (about 675 sx) with Class "B" cement, and proceed to Step 9. If unsuccessful, attempt to pump in with pipe rams closed, and proceed to Step 10.
- 9. Set balance plug with Class "B" cmt from 2,920'to 2,550' (50' above top Ojo Alamo). Pull tubing to 1,485' and set a 200' cmt plug straddling 1,385' (Top Nacimiento). Set another cmt plug from 165' to surface. Proceed to Step 13.
- 10. If can pump in, but cannot circulate, spot 50 sx Class "B" with pipe rams open, pull up to 2,550' and close rams and displace with 7.7 bbls 9.2# mud.
- 11. Pull tubing to 1,475' and perforate squeeze holes at 1,485' and establish circulation or pump in rate and set a 100 sx cmt plug with top at 1,285'.
- 12. Pull tubing to 155' and perforate squeeze holes at 165', and circulate cement to surface via 4-1/2" x 8-5/8" annulus and spot cement to surface inside 4-1/2" casing.
- 13. Place dry hole marker in cement plug.
- 14. Clean up location and release rig.
- 15. Remove surface equipment and restore location. Reseed when appropriate.

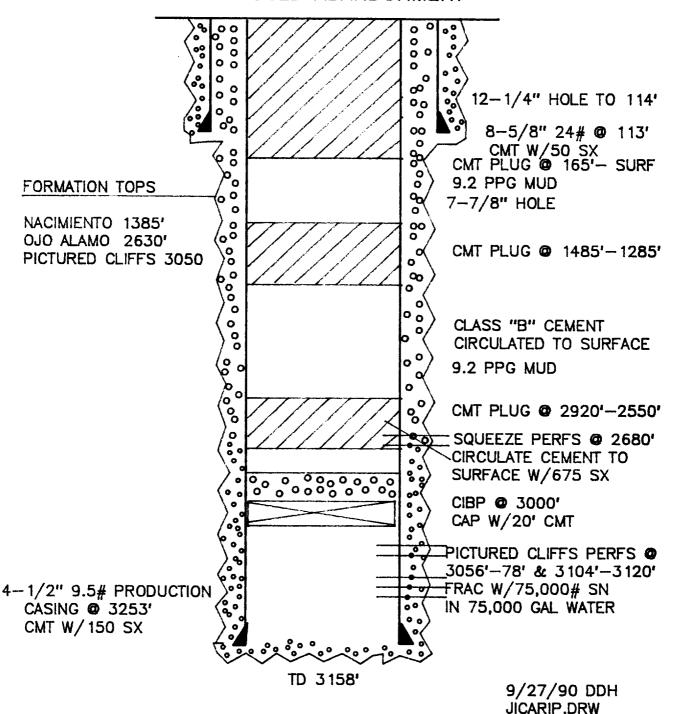
JICARILLA #1 1600' FNL & 1515' FEL SEC 11-T23N-R4W RIO ARRIBA COUNTY, NEW MEXICO

PRESENT COMPLETION



JICARILLA #1 1600' FNL & 1515' FEL SEC 11-T23N-R4W RIO ARRIBA COUNTY, NEW MEXICO

PROPOSED ABANDONMENT



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	n f	f
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Re: Permanent Abandonment

Intention to Abandon

Well: 1 Sicarilla

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 CaCl₂ 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.