Form 3160-5 June 1990)

1 Type of Well

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Bu	idget Bun	eau No.	1004-0135	
	Expires:	March	31, 1993	
	Decisions		Secret No.	

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RINCON UNIT

SUNDRY NOTICES AND REPORTS ON WELLS	/
irm for proposals to drill or to deepen or reentry to a diff	erent reservo

Do not use this form for pro Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

6 If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Otl X Gas Other	8. Well Name and No
2. Name of Operator	193
UNION OIL COMPANY OF CALIFORNIA, DBA UNOCAL	9. API Well No.
3. Address and Telephone No.	30-039-20500
3300 NORTH BUTLER, SUITE 200, FARMINGTON, NM 87401 505-326-7600	10. Field and Pool, or Exploratory Area
4 Location of Well (Footage, Sec., T., R., M., or Survey Description)	BASIN DAKOTA
1650 15 + 1650/W 35-27N-7W	11. County or Parish, State
	RIO ARRIBA, NM
12 CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, RE	PORT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACT	TION
X Notice of Inten D E G E Abandonment Recompletion Subsequent Report OCT 3 1991. Casing Repair	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off
Final Abandonmen OHE CON. DIV. Altering Casing Other Other	Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. 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 cirilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

A pressure test on the casing of the Rincon Unit #193 indicated a casing leak in July 1991. BLM approval was obtained to land the tubing in a packer to isolate the casing annulus and test the well to determine the economics of repairing the well and returning to production.

Due to current market conditions and gas price, testing has indicated marginal economics associated with squeeze cement casing repair because of the high cost to adequately and effectively seal off a casing leak. However, a more effective and economical casing leak seal can be obtained utilizing the Guiberson Retrievable Casing Patch. A schematic of this type system is attached.

The system utilizes two cup type packers with a scab liner between the sealing packers. The casing leak is isolated from above and below, and continuity of the casing annulus is maintained by creating a new annulus between the 3-2" scab liner and the 2-3/8" tubing. This annulus in conjunction with the packer allows for casing pressure monitoring to insure the integrity of the casing seal from above and below the casing patch.

Attached is a wellbore schematic of the current status of the well and a proposed schematic following installation of the casing patch.

This proposal will provide an effective casing leak seal, a method to insure integrity of the seal from both above and below, and an economic alternative in current market conditions to repair the well and return it to production. If additional information is necessary, please contact Craig Van Horn at (505) 326-7600.

Tene I	ipproval exprise <u>AUG 9</u> 1 191	3 CONDITIONS OF APPROVAL
	and the state of t	
14 I hereby certify that the foregoing is true and correct Signed Signed	Title FIELD SUPERINTENDENT	Date 9/18/91
(This space for Federal or State office use) Approved by Conditions of approval, if any.	Tide	OCD C 7 to.
		(K)
Title 18 U.S.C. Section 1001, makes it a crime for any person knoor representations as to any matter within its jurisdiction.	owingly and willfully to make to any department or agency of the	United States any false, fictitious or fraudulent suitement
	*See Instruction on Reverse Side	To approximate the second of t



PACKER INSTALLATION PLAN

GUIBERSON RETRIEVABLE CASING PATCH FOR PRODUCING WELL

CASING

TUBING

GUIBERSON CASING PATCH WITH SCAB LINER (CASING PATCH IS CARRIED IN HOLE WITH PRODUCTION TUBING)

CASING LEAK

BY ISOLATING CASING LEAK ON BOTH SIDES AND CREATING NEW ANNULUS BETWEEN SCAB LINER AND PRODUCTION TUBING, VENTING OF GAS IS POSSIBLE UP NEW ANNULUS AREA THAT IS FORMED.

PRODUCTION TUBING

SEATING NIPPLE

PACKER OR CEMENT RETAINER

NOTE:

PATCHES ARE AVAILABLE FOR CASING SIZES: 4 1/2" THRU 9 5/8". FULL OPENING 1.D.'S ARE AVAILABLE THRU TUBING ON ALL SIZE PATCH INSTALLATIONS.

PERFORATIONS

NOTE:

TO RUN INSIDE 4 1/2" CASING. THE LINER (3 1/2" 10Rd NUE) HAS TO HAVE SPECIAL COLLARS 3.780" O.D. THE TUBING HAS TO HAVE 2" 10Rd NUE THREAD WITH SPECIAL COLLARS 2.670" O.D.

Calculation Record

UNOCAL®

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Calculation Record

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The subject approval is temporary (until August 1, 1993). You are required to Conduct and submit results of pressure tests every six months to insure casing integraty. You are also required to submit your plans to permently repair the casing by the above date.