

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.	30-039-06777
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	E 290-12
7. Lease Name or Unit Agreement Name	Rincon Unit
8. Well No.	10
9. Pool name or Wildcat	Blanco South Pictured Cliffs
10. Elevation (Show whether DF, RKB, RT, GR, etc.)	6637' GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	2. Name of Operator Union Oil Company of California
3. Address of Operator 3300 N. Butler, Suite 200 Farmington, NM 87401	4. Well Location Unit Letter C : 990' Feet From The North Line and 1650' Feet From The West Line Section 36 Township 27N Range 7W NMPM Rio Arriba County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☒
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

It is proposed to fracture stimulate this subject well which was originally open hole completed.
See attached procedure.

RECEIVED
DEC 20 1990
OIL CON. DIV.
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Stergie Katirgis TITLE Petroleum Engineer DATE 12/12/90
TYPE OR PRINT NAME Stergie Katirgis TELEPHONE NO. _____

(This space for State Use)

APPROVED BY [Signature] DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE DEC 31 1990
CONDITIONS OF APPROVAL, IF ANY: _____

Recommended Recompletion Procedure

Rincon Unit #10

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OIL CON. DIV.
DIST. 3

1. Check rig anchors, pit and road. Repair as necessary.
2. MIRUSU.
3. Blow down well. If pipe is free, tag up ETD. TOOH with 1" tubing. Fish tbg if necessary.
4. TIH with 6 1/4" bit on tubing and cleanout to TD of 3120' and evaluate. Use air foam if necessary. TOOH.
5. TIH with 7" packer on tubing and set close to 7" shoe at \pm 3015'. Pressure test tubing-casing annulus to 800 psi. Cement squeeze leaks as necessary.
6. On wireline run GR-CBL from 3020'-TOC, FDC-CNL-CAL and DIL-SP-GR in open hole section from 3120-3020'. Evaluate perforations and caliper results. Decide whether to run 4 1/2" liner. If liner is not run omit Steps 7-11 and TIH with 7" packer on 3 1/2", N-80 rental tubing string and set at \pm 2920' in preparation to frac.
7. TIH with 4 1/2", 11.6#, J-55, EUE production casing string from surface to TD. Use 10' shoe joint so new PBTD will be 3110'. Cement in 2 stages with stage tool above Fruitland at \pm 2750'. Cement volumes will be designed to circulate to surface.
1st stage: Class "B" + .95% FloLok + 3#/SK Hi-Seal + .3% KCl + 18% Thrifty Lite.
2nd stage: 65/35/6% gel + .8 CF-1 + 1/4# Cello-Seal + 3# Hi-Seal and tailed in w/50 sx Class "B" neat.
8. TIH with 3 3/4" bit on tubing and cleanout to PBTD. Roll hole with fresh water. TOOH. On wireline run GR-CBL from PBTD to 2100'. Pressure test casing to 4500 psi.
9. Correlate to open hole logs and based on Reservoir Engineering recommendation perforate the Pictured Cliffs formation in 4 1/2" casing. Estimated perfed interval from 3030-50' and 3088-92' w/0.36" entry holes at 1 JSPF (26 holes) based on Schlumberger's open hole Electrical Log of 9-4-53.
10. TIH with tubing and packer to 2980'. With by-pass valve open spot acid to packer. Close by-pass. Acidize down tubing with 1,000 gals 15% HCl containing 50% excess RCN ball sealers. Breakdown formation to maximum pressure of 4500 psi, or complete displacement of acid.

Acid to contain 1 gal/1000 gals surfactant and inhibitor (minimum 24 hr. inhibition at 120°F).

11. Release packer and TIH to PBTD to knock off balls. TOOH.
12. Rig up pump trucks and fracture stimulate the Pictured Cliffs with 100,000# 20/40 sand in 70,833 gals 30# x-linked 70 quality foam at 40 BPM down 4 1/2" casing as follows:

<u>Stage</u>	<u>Fluid</u>	<u>Sand</u>
Pad	20,000 gals	
0.5 ppg	10,000 gals	5,000#
1.0 ppg	5,000 gals	5,000#
1.5 ppg	10,000 gals	15,000#
2.0 ppg	10,000 gals	20,000#
3.0 ppg	8,333 gals	25,000#
4.0 ppg	7,500 gals	30,000#
Flush	<u>1,893 gals</u>	
	72,726 gals	<u>100,000#</u> 20/40 sand

Estimated clean H₂O rate = 13 BPM. Estimated max N₂ rate = 20,000 SCF/min. Anticipated avg STP = 4300 psi. Max STP = 4500 psi.

All frac fluid to contain 70 quality foam, 30#/1000 gals gel, 2% KCl, borate x-linker, foamer, required breakers (4 hr. break) and biocide. Tag all sand with IR-192 RA material (.3 mc/1000#) using Protechnics. S.I. for 4 hours.

13. Flow back initially through 1/4" choke. If well is producing sand continue flowing choked.
14. If fraced through tubing TOOH.
15. TIH with bit on tubing and cleanout to PBTD with air foam. TOOH.
16. On wire run after frac GR survey across Pictured Cliffs and Fruitland formations.
17. TIH with 2 3/8", 4.7#, J-55, EUE tubing with notched collar and standard SN on bottom and land at 3090'. Use pump out plug if well is flowing. Obtain if possible.
18. Clean up location, release rig and turn over to Production Dept.

Stearge Kotrigo