

District I
PO Box 1980, Hobbs, NM 88241 1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address. Conoco Inc 10 Desta Dr. Ste. 100W Midland, Tx. 79705-4500		OGRID No_ 005073
Property Code 26605	Property Name Oxy State F-1	API Number 30 - 035176
		Well No. #1

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
X	1	21S	36E		990	South	915	East	Lea

s Proposed Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Proposed Pool 1 Hardy Tubb Drinkard (29760)					Proposed Pool 2				

Work Type Code P 16 Multiple	Well Type Code O 17 Proposed Depth	Cable/Rotary 18 Formation Tubb Drinkard	Lease type Code 19 Contractor	14 Ground Level Elevation 20 Spud Date
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21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
Same as original					

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

This well was recently completed in the Abo. Conoco proposes to abandon the Abo and perforate the Tubb using the attached procedure.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

Plug-Back

23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Kay Maddox</i>		OIL CONSERVATION DIVISION	
Printed name: Kay Maddox		Approved by: <i>Paul Scutz</i> Geologist	
Title: Regulatory Agent		Title:	
Date: August 7, 2001		Approval Date: AUG 08 2001	
Phone: (915) 686-5798		Expiration Date:	
		Conditions of Approval:	
		Attached	

SCA

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State of New Mexico
Energy, Minerals & Natural Resources Department

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Form C-102

Revised February 21, 1994

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Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-35176	2 Pool Code 29760	3 Pool Name Hardy Tubb Drinkard
4 Property Code 26605	5 Property Name Oxy State F-1	6 Well Number #1
7 OGRID No. 005073	8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500	9 Elevation 3497'

10 Surface Location

UL or lot no. X	Section 1	Township 21S	Range 36E	Lot Idn	Feet from the 990	North/South line South	Feet from the 915	East/West line East	County Lea
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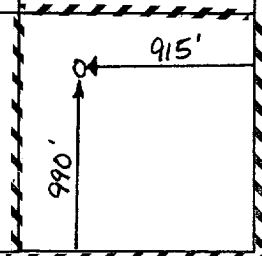
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres 40	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16			



17 OPERATOR CERTIFICATION

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


Signature

Kay Maddox

Printed Name

Regulatory Agent

Title

August 7, 2001

Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

Oxy State F1 #1
Tubb Recompletion Procedure
July 2, 2001

Location: 990' FSL & 915' FEL of Section 1-T21S – R36E
 Lea County, NM

Elevation: Grd: 3497' KB: 3508' KB-Grd: 11'

Orig TD: 8000'

Current PBTD: 7320' (CIBP @ 7350' w/ 30' cmt on top)

Project Scope

The intent of this recompletion will be to permanently abandon the Abo by setting a CIBP at 7000' and a 35' cement plug on top. The Tubb interval will then be perforated and fractured from 6436'-6440', 6454'-6458' and 6506'-6514'. The Tubb is expected to initially produce at a rate of 30 BOPD and 240 MCFGPD.

		<u>Burst</u>	<u>Collapse</u>	<u>Drift</u>
Piping:	8 5/8" csg, 24 #/ft, J-55, ST&C @1503'	2,950	1,370	7.972
	5 1/2" csg, 17 #/ft., J-55, LT&C @8000'	5,320	4,910	4.767
	2 7/8" tbg, 6.5 #/ft, L-80, EUE 8RD	10,570	11,160	2.347

Cementing: 8 5/8" casing w/657 sxs (TOC at surface)
 5 1/2" casing w/1800 sxs(TOC at surface)

Production Equipment:	1	7/8" rod sub
	102	7/8" C class rods
	175	3/4" C class rods
	2	3/4" guided rods
	4	1 1/2" sinker bars w/ 2' centralizers between each
	1	2.5 x 1.75 x 20 RHBC pump
	1	1 1/4" strainer nipple
	223	2 7/8" N-80 EUE 8RD tbg

Perforations: Abo (Existing): 7052' – 7062' w/ 4 SPF

		<u>NEP</u>	<u>Shots</u>
Tubb (Proposed):	6436'-6440'	4	9
	6454'-6458'	4	9
	<u>6506'-6514'</u>	<u>8</u>	<u>33</u>
	Total	16'	51

Wellbore Fluids:

Abo: ±38° API oil with sweet (No H₂S, minor amounts of CO₂)
Estimate 2000 PSI
Tubb: ±38° API oil with sour (1200-1400 ppm H₂S)
Estimate 2,610 PSIG (Assume 0.4 psi/ft gradient)
Expected
Production: Tubb 30 BOPD & 240 MCFG

Procedure

1. RU pulling unit. Dump 110 bbls of treated water down casing to kill the well if necessary. Unseat pump and hot oil rods and tubing if necessary. POOH with rods and pump. Check for wear and pitting. Replace any worn or pitted rods and couplings. Send pump in to be rebuilt.
2. Install 5,000 WP BOP stack and test as per SOP. Release the tubing anchor and TOOH with tubing. Scanalog tubing and lay down blue and red band tubing.
3. RU electric line unit. Install lubricator with pack-off and RIH with gauge ring junk basket to 7050'. POOH. RD electric line unit.
4. Notify NM regulatory agency representative 24 hrs prior to abandonment of the Abo. PU 5 ½" CIBP and TIH to set at 7020', dump bail 35' Class "C" cmt on top. WOC and pressure test to 4500 PSIG.
5. RU Baker Atlas. Install lubricator with a pack-off and TIH with 4" hollow carrier perforating guns loaded 4 JSPF with 23 gm charges in 120 degree phasing. Use the Platform Express TDD/CNL/NGT log dated Nov. 12, 2000 to correlate the perforations in the following Tubb intervals.

Safety Note: All 2-way radios and phones are to be turned off while perforating for a distance of 500'. Warning signs are to be posted on all incoming roads.

<u>Interval</u>	<u>NEP</u>	<u>Shots</u>
6436'-6440'	4	9
6454'-6458'	4	9
<u>6506'-6514'</u>	<u>8</u>	<u>33</u>
Total Tubb	16'	51

6. TIH with 2 7/8", L-80 production tubing with 5 ½" CS-1 treating packer and RBP with ball catcher. Hydrostatically testing tubing to 6,000 PSIG while tripping in hole. Set the RBP at 6560' and the treating packer at 6370'.
7. RU BJ and perform 1,500 gal 15% NEFE acid breakdown of the Tubb. RU treating line with remote automated ball injector. Test treating lines to 6,000 PSIG against treating valve. Release pressure, set treating line nitrogen actuated relief valve to 5,300 PSIG and test.

Open the casing valve and leave open to the pit during breakdown. Pump acid breakdown according to BJ procedure, diverting acid with 130, 7/8", 1.3 sg ball sealers.

TREATING LINE TEST PRESSURE: A minimum 1000 psig over MATP	6000	PSIG
MAXIMUM ALLOWABLE WORKING PRESSURE: Based on weakest component in system	6500	PSIG
NITROGEN POP OFF SET PRESSURE: Relief pressure set at the lesser of : 300 psig less than 90% MAWP or, 300 psig over MATP	5550	PSIG
MAXIMUM ALLOWABLE TREATING PRESSURE: If reached, human action required.	5000	PSIG
MAXIMUM ANTICIPATED TREATING PRESSURE: Based on frac design	3000	PSIG

8. Release the packer and retrieve the RBP. TOO H.
9. RU BJ services to the 5,000 PSIG WP, treating tree to sand frac the Tubb down the 5 ½", 17# casing. Install treating line with a nitrogen actuated relief valve. Pump the Spectra G-3500 treatment as per attached BJ Services procedure. Treatment to be pumped at 40 BPM. Tag the frac with a single radioactive isotope.

TREATING LINE TEST PRESSURE: A minimum 1000 psig over MATP	4500	PSIG
MAXIMUM ALLOWABLE WORKING PRESSURE: Based on weakest component in system – Highest test pressure	4800	PSIG
NITROGEN POP OFF SET PRESSURE: Relief pressure set at the lesser of : 300 psig less than 90% MAWP or, 300 psig over MATP	4000	PSIG
MAXIMUM ALLOWABLE TREATING PRESSURE (MATP): If reached, human action required.	3700	PSIG
MAXIMUM ANTICIPATED TREATING PRESSURE: Based on frac design	3200	PSIG

10. Shut down and record ISIP, 5, 10 and 15 minute pressures. RD BJ.

11. Flow back to the pit until the well cleans up or dies. ND the treating tree. If necessary, kill the well with 8.6 ppg brine water prior to removing the treating tree.
12. NU BOP and test to 3,000 PSIG according to SOP.
13. PU 4-3/4" bit and RIH w/ tubing. Tag sand and clean out wellbore to the cement plug at 6985'. POOH with bit and tubing.
14. TIH with packer and set at 6400'. Swab test the Tubb. Release the packer and TOOH.
15. PU natural gas anchor and tubing anchor and TIH with 2 7/8" L-80 tubing. Space out to set the seating nipple at 6580' with the tubing anchor at 6350'. Install the tubing head.
16. ND the BOP's. If swab test indicates well will flow, put on production. If not, PU the original 7/6 rod string and TIH with 1 3/4" insert rod pump.
17. Put well on production for evaluation.