

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
1625 N. French Dr.
Hobbs, NM 88240

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

CONOCO INC.

3. Address and Telephone No.

10 DESTA DR. STE. 100W, MIDLAND, TX. 79705-4500 (915) 686-5424

4. Location of Well (Footage, Sec., T. R. M. or Survey Description)

Section 29, T-20-S, R-38-E, K
2090 FSL & 2090 FWL

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Warren Unit # 22

9. API Well No.

30-025-07854

10. Field and Pool, or Exploratory Area

North Hardy Strawn

11. County or Parish, State

Lea Co., NM

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☒ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ 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 drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Conoco proposes to recomplete this well to the Strawn using the attached procedure.

14. I hereby certify that the foregoing is true and correct

Signed

Title

Date

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval if any:

BLM-MEEKER(4), COGCC(3), BRK, PONCA, TJK, FILE ROOM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

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HOMELAND SECURITY

**Warren McKee No. 22
Strawn Test Procedure
October 1, 2001**

**WELL INFORMATION:
(Refer to Wellview for Schematic)**

AFE #: (No AFE...Will Generate AFE if Test is Successful)
 Spud Date: 09/03/1957
 Last Action To Well: 02/28/94 Ran 289 jts. Of newly coated IPC tubing. Flange up wellhead and circulated 210 bbls of packer fluid. Set packer, loaded backside and ran 30 minute pressure chart. Held 500 PSIG for 30 minutes...no bleed off.
 API Number: 30025078540000
 Location: 2090' FSL & 2090' FWL, Sec 29, T20S, R38E, Unit "K", Lea County, NM
 Zone (Pool): Warren McKee Simpson
 Battery Destination:
 Expected Production: 50 BOPD, 100 BWPD, 50 MCFD ????

TD: 9,206' (Original TD)
 PBTD: 9,161' (Float collar)
 DV Tool: none
 GLE: 3,518'
 KBE: 3,532'
 AGL: 14'
 TOC: 5450' (Noted in Reports but no Temp Survey or CBL)

Casing Specifications:

Pipe	Depth (ft)	Drift ID (inches)	Collapse (psi)	Burst (psi)	Capacity (bbl/ft)
Surface: 10-3/4", 32.75#, H-40	256	-	-	-	-
Cemented with 250 bbls of neat cement. Cement circulated.					
Intermediate: 7 5/8", 24 & 26.4#, H-40 & N-80	4000	6.900	2040	2750	.0471
Cemented with 700 sks incor plus 40% Diocel "D". Plug down 07/23/57. Top of cement at 1375'.					
Production: 5-1/2", 15.5 & 17#, J-55 & N-80 LT&C	9206	4.767	4040	4810	.0232
Cement in one stage: Pump 230 sks Incore plus 40% Diocal "D", 420 gals. Latex around shoe. Plug down 09/04/57. Top of cement at 5,450'.					

Proposed Tubing Specifications:

Pipe	Depth	Drift ID (in)	Collapse (psi)	Burst (psi)	Capacity (bbl/ft)
2-7/8", 6.5#, N-80, EUE 8rd	6,850'	2.347	11,160	10,570	.00579

ESTIMATED RESERVOIR INFORMATION:

Strawn Wellbore Fluids:

±42° API oil with sour (20,000 ppm H₂S)
 115°F / 2900 PSI (assuming 0.38 psi/ft gradient)

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Perforations:

Existing McKee 8954-60, 8963-76, 8985-9020, 9024-9035, 9038-48', 9052-9099, 9108, 9123

	Interval	NEP	Perfs
Prop. Strawn (2 SPF, 120°)	7646'- 7670'	24'	49

ARTIFICIAL LIFT: (Evaluate After Swab Testing)

NOTES AND SAFETY PRECAUTIONS

Notes:

1. All depths in this procedure are referenced from KB unless noted otherwise.
2. Please give service companies 48 hours advance notice prior to performing work on the well.
3. Hold prejob safety meetings prior to beginning any new work.

Safety Precautions:

1. Smoking will not be allowed within 100' of the wellhead and only in designated areas.
2. All on-site personnel are to wear safety glasses with side-shields, steel-toed boots, plastic hardhats, and 100% cotton outerwear at all times.
3. Eye protection and hand protection should be worn when handling acid/chemicals. Eye protection should be worn when there is the potential for acid/chemicals to blow or splash into the eyes.
4. While the perforating guns are in the open, radio's will not be used within 500' of the location. Signs indicating this will be placed on all access roads (signs will be provided by the perforating company).
5. The service company should bring communication devices for each individual operating pumps/valves and for the field engineer.
6. Fresh water will be on location in case of accidental discharge or an emergency (water to be provided by the treating company). Emergency shower trailer will be available and ready for use (and tested) when acidizing.
7. Eye wash bottles should be available and ready for use. All on-site personnel should be aware of the location of these bottles.
8. Only personnel needed for the job will be allowed on location. Only perforating company personnel will be allowed to handle the perforating guns.
9. Hold tailgate safety meetings daily prior to any work being performed. Determine safe location where all personnel will meet in the event of an emergency.
10. See attached Pre-Job Safety Assessment sheet.

Kill Fluids:

8.6 ppg brine w/magnacide biocide (completion fluid)

Frac Fluids/Breakdown Fluids:

As per BJ Services specs/procedure



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PRODEDURE:

1. Insure deadman anchors have been properly tested prior to RU.
2. RU workover rig. Remove the wellhead and install a 3,000 PSIG BOP stack. Test as per SOP's to 3,000 PSIG. Release the 5 1/2" Loc-Set injection packer and TOOHP with 289 joints of 2 3/8" IPC tubing.
3. PU 5 1/2" CIBP and TIH on 2 3/8" to set at 8900'.
4. RU pump truck, close the pipe rams and pressure test casing to 2,000 PSIG for 30 minutes. If the casing holds pressure continue with the procedure, if the casing does not test, TOOHP with the tubing and PU a PIPE casing inspection log and RIH to log from 8800' back to surface. Re-evaluate recompletion and generate AFE to repair the casing if required.
5. If the casing test held pressure, spot a 30 bbl, 9 ppg brine pill from PETD to the 7600'. PU to the bottom perf at 7660' and spot 500 gals of 15% HCL across the proposed Strawn perforation interval. TOOHP laying down the tubing. Send the tubing in to ICO for inspection
6. RU Baker Atlas. Install lubricator and TIH with 4" hollow carrier perforating guns with Gamma Ray loaded 2 JSPF in 120 degree phasing with the HSC 4000 317 T charges to perforate the following Strawn interval: (Correlation from Welex GR-Neurton log dated 9/10/57)

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>
Strawn (2 SPF, 120° phasing)	7646'- 7670'	24'	49

7. Change the pipe rams for 2 7/8" tubing and test the BOP to 3,000 PSIG as per SOP.
8. TIH with 2 7/8", N-80 workstring with 5 1/2" CS-1 treating packer, wireline re-entry guide with a 2.19" ID "R" nipple. Set the packer at 7,600'. Pressure test the annulus to 2,000 PSIG.
9. RU BJ. Install a staked treating line with a nitrogen actuated relief valve on the tubing/casing annulus and a second nitrogen actuated valve on the treating line with a remote automated ball injector. Pressure test treating lines to the frac valve to 5,000 PSIG. Set relief valve at 4300 PSIG. **Close the casing valve and pressure up on the casing to set the backside relief valve at 2000 PSIG. Bleed off casing pressure to 1500 PSIG and maintain backside pressure throughout the treatment.**

- a. Load the tubing and establish breakdown with treated brine water. As soon as a rate is established pump breakdown across Strawn interval by pumping 2000 gals of 20% NEFE containing 75, 7/8" 1.3 SG ball sealers at a rate of 4 BPM.
- b. Displace acid to bottom perforation and shut down to record 5, 10 and 15 minute ISIP pressures.
- b. Surge balls off perforations.

TREATING LINE TEST PRESSURE: A minimum 1000 psig over MATP	5000	PSIG
MAXIMUM ALLOWABLE WORKING PRESSURE: Based on weakest component in system. (100% of Rated Burst 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 (90% of Rated Burst Pressure)	4300	PSIG
MAXIMUM ALLOWABLE TREATING PRESSURE: If reached, human action required. (83% of Rated Burst Pressure)	4000	PSIG
MAXIMUM ANTICIPATED TREATING PRESSURE: Based on frac design	3600	PSIG

10. RD BJ. Swab test well into a modified (with downcomer) temporary test tank to determine productivity.

a. If the well is considered to be commercial, load the tubing to kill the well. Release the packer, TOOH and lay down the packer and tubing. ND the BOP stack. Reinstall adapter flange on the tubing head. RDMO. An AFE to finish the completion and to purchase and install artificial lift equipment and surface facilities will be required prior to completing the remainder of the procedure.

b. If the well is considered non-commercial, load the tubing to kill the well. Notify the NMOC 24 hours prior to the abandonment. Release the packer, TOOH with the packer and tubing. RU electrical line company. PU wireline dump bailer and RIH to dump 35' of cement on top of the CIBP set at 8900'. If required, pressure test plug to 500 PSIG for 30 minutes. PU 5 1/2" wireline set CIBP and RIH to set at 7600'. PU dump bailer and RIH to dump 35' of cement on top of the CIBP at 7600'. TIH with 2 7/8" tubing and circulate packer fluid from PBTD to surface. TOOH laying down tubing. Reinstall adapter flange. Perform casing integrity pressure test as per NMOC regulations for permanent shut-in status. RDMO.

BLM
(505) 393 -
3612

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Box 1980, Hobbs. NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-10

Revised February 21, 199

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-07854	2 Pool Code 96893	3 Pool Name North Hardy Strawn
4 Property Code	5 Property Name Warren Unit	6 Well Number #22
7 OGRID No. 005073	8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500	9 Elevation

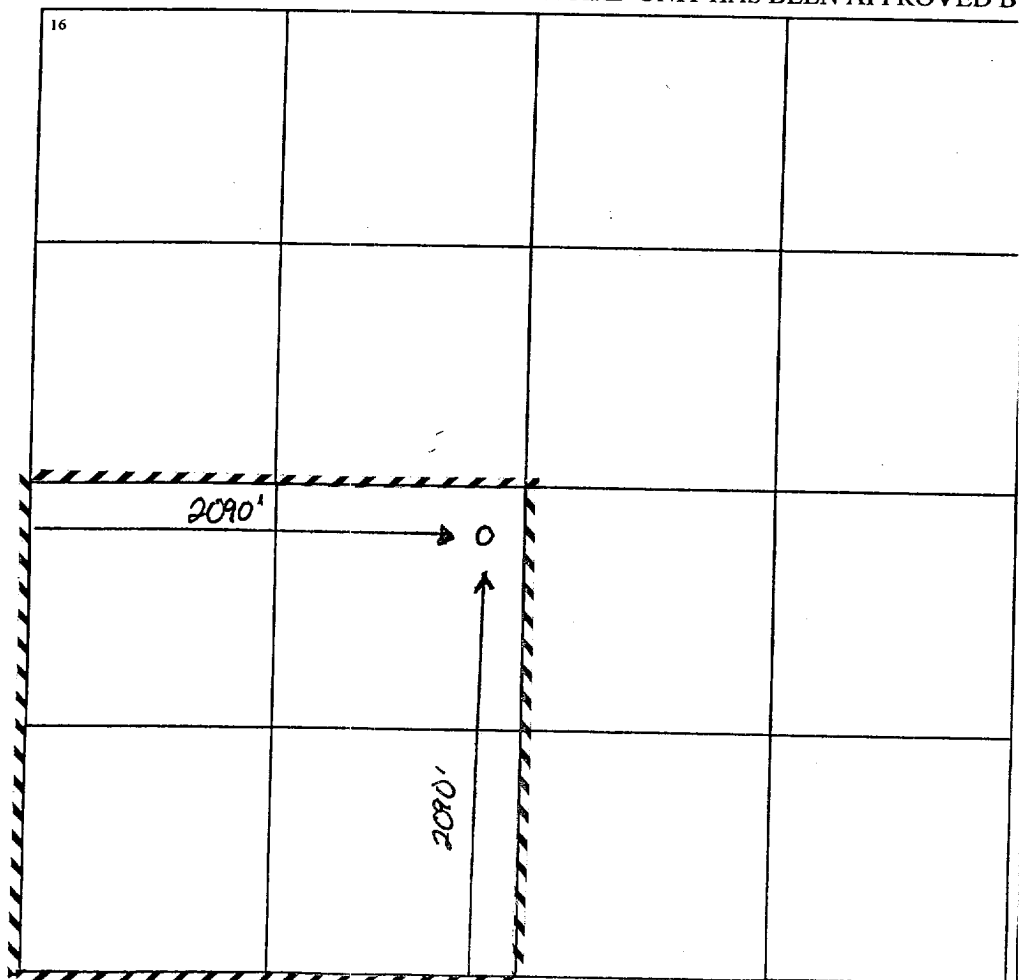
10 Surface Location

UL or lot no. K	Section 29	Township 20S	Range 38E	Lot Idn	Feet from the 2090	North/South line South	Feet from the 2090	East/West line West	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
12 Dedicated Acres 160	13 Joint or In'll	14 Consolidation Code	15 Order No. NSL # 4673						

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



17 OPERATOR CERTIFICATION

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

Kay Maddox
Signature: Kay Maddox

Printed Name
Regulatory Agent

Title
June 18, 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



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

August 6, 2001

Conoco, Inc.
10 Desta Drive - Suite 100W
Midland, Texas 79705
Attention: Kay Maddox/*m-kay.Maddox@USA.Conoco.com*

Telefax No. (915) 686-5780

Administrative Order NSL-4623

Dear Ms. Maddox:

Reference is made to the following: (i) your application submitted to the New Mexico Oil Conservation Division ("Division") in Santa Fe on July 16, 2001; and (ii) the Division's records in Santa Fe, including the file in Cases No. 12182 and 12532: all concerning Conoco, Inc.'s request for an exception to Rule 4 of the "*Special Pool Rules for the North Hardy-Strawn Pool*," as promulgated by Division Order No. R-11221, issued in Case No. 12182 and dated July 12, 1999, as amended by Division Order No. R-11221-A, issued in Cases No. 12182 (Reopened) and 12532 on February 2, 2001, for the existing Warren Unit Well No. 22 (**API No. 30-025-07854**), located at an unorthodox oil well location 2090 feet from the South and East lines (Unit K) of Section 29, Township 20 South, Range 38 East, NMPM, Lea County, New Mexico.

It is our understanding that the Warren Unit Well No. 22 was originally drilled by Conoco, Inc. (Continental Oil Company) in 1957 to a total depth of 9,200 feet and completed in the Warren-McKee (Simpson) Pool at a standard oil well location within a standard 40-acre oil spacing and proration unit comprising the NE/4 SW/4 of Section 29. It is further understood that, upon issuance of this order, this well will be recompleted up-hole into the Strawn interval.

The SW/4 of Section 29, being a standard 160-acre oil spacing and proration unit within the governing limits of the North Hardy-Strawn Pool, is to be dedicated to this well.

The subject application has been duly filed under the provisions of Division Rule 104.F, revised by Division Order No. R-11231, issued by the New Mexico Oil Conservation Commission in Case No. 12119 on August 12, 1999, and the applicable provisions of the rules governing this pool.

By the authority granted me under the provisions of: (i) Rule 5 of these special pool rules; and (ii) Division Rule 104.F (2), the unorthodox oil well location within the Undesignated North

Administrative Order NSL-4623

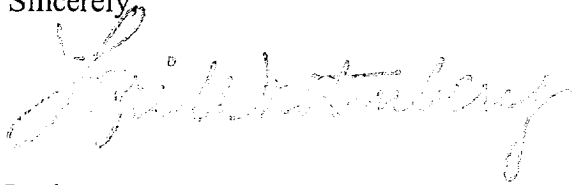
Conoco Inc.

August 6, 2001

Page 2

Hardy-Strawn Pool of Conoco, Inc.'s existing Warren Unit Well No. 22 is hereby approved.

Sincerely,



Lori Wrotenbery
Director

LW/MES/kv

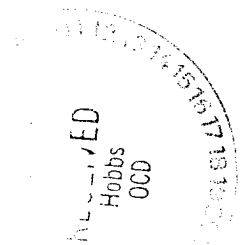
cc: New Mexico Oil Conservation Division - Hobbs

U. S. Bureau of Land Management - Carlsbad

File: Case No. 12182

Case No. 12532

W. Thomas Kellahin, Legal Counsel for Conoco, Inc. - Santa Fe



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