Form 3 160-5
(June 1990)

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 3 1 ,1993

5. Lease Designation and Seriai No.
LC 031695(A)

6. If Indian, Allonee or Tribe Name

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 TRIPLICA TE

7. If Unit or CA, Agreement Designation

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
SEMU # 154

2. Name of Operator
CONOCO INC.

9. API Well No.
30-025-35383

3. Address and Telephone No.
10 DESTA DR. STE. 100W, MIDLAND, TX. 79705-4500 (915) 686-5424

10. Field and Pool, or Exploratory Area
North Hardy Tubb Drinkard

4. Location of Well (Footage. Sec., T. R. M. or Survey Description)
Section 30, T-20-S, R-38-E, K
1760' FSL & 2310' FEL

11. County or Parish, State
Lea Co., NM

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

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Repon	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracrunng
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other PerforateTubb & Drinkard	☐ Dispose Water

(Note: Reponresuitsof multiplecompitiononWdl Completion or Recompletion Report and Log form.)

13. Describe Proposed or Compieted Operations (Clearly state ail 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 abandon the unproductive Strawn in this newly drilled well and come up hole and perforate the Tubb and the Drinkard using the attached procedure. This intent/procedure will replace the Sundry notice sent & approved April 18, 2001.

5073
13492
96356
5/21/01
30-025-35383

APPROVED
MAY 14 2001
ALEXIS C. SWOBODA
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct
Signed Kay Maddox Title - Kay Maddox Regulatory Agent (915) 686-5798 Date May 8, 2001

(This space for Federai or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval if any:

BLM(6), NMOCD(1), SHEAR, PONCA, COST ASST, 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 junsdiction

GWW

*See Instruction on Reverse Side

SEMU No. 154
Tubb/Drinkard Recompletion Procedure
May 4, 2001

Spud Date: Feb. 25, 2001
Last Action To Well: Permanently abandoned the Strawn by setting CIBP at 7550' with 35' of cement. Layed down tubing.

Location: 2310' FEL & 1760' FSL of Sec. 30, T20S, R38E
Zone (Pool): North Hardy Tubb/Drinkard
Battery: North Hardy Strawn Battery (Commingle with SEMU No. 150 Tubb)

TD: 7900'
Original PBTD: 7815' (Depth of float collar)
Current PBTD: 7550' (Depth of CIBP...Dumped 35' Cmt on Top of CIBP)
Stage Collar: 3922' (Drilled out)

Ground Elevation: 3515'
KB Elevation: 3526' (11' ABGL)

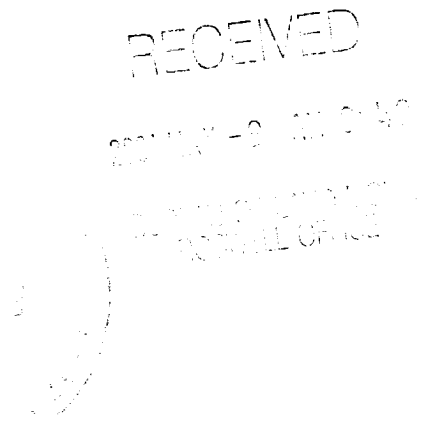
Cementing Summary:
First stage cemented with 355 sks 50/50 Poz Class C with 10% bentonite. Tailed in with 355 sks 15/61/11 PoZ Class C: CSE. Circulated 21 bbls to surface after opening stage tool.

Second stage cemented with lead slurry of 560 sks of 50/50 Poz Class C cement containing 10% gel followed by tail slurry of 410 sks of 15:61:11 Poz Class C cement. Circulated cement to surface.

Recompletion Summary:
This procedure will test the upper Drinkard zone and if productive will be commingled with the Tubb sometime after the Tubb has been completed. The Drinkard completion will consist of perforating using "Stim-Guns" in an attempt to not communicate with the lower wet Drinkard interval. If, after perforating, the well swabs down without sufficient inflow to evaluate the Drinkard a small, low rate acid breakdown will be performed. After swab testing the Drinkard a decision will be made to either temporarly abandon the zone with a RBP or permanently abandon with a CIBP and cement.

The Tubb will then be perforated and sand frac'd via the 5 ½" casing similar to other recent Tubb completions. It is expected that the Tubb will be similar to the No. 150 well and will be completed as a flowing "oil well" with a GOR of 6,000 - 7,000/1. The well will be tested using temporary testing facilities then shut-in until a flowline can be layed to the SEUM Strawn battery. Assuming the well produces below the allowable of 142 BOPD, the No. 154 well will be commingled tied into the SEMU No. 150 separator.

			Burst	Collapse	Drift
Casing:	8 5/8", 24 #/ft	0 to 1494'			
	5 ½", 17 #/Ft., J-55, LT&C	0 to 7,900'	5,310	4,910	4.767
Proposed Tubing:	2 7/8", J-55 or L-80, 6.5#/Ft., EUE		10,570	11,160	2.347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ESTIMATED RESERVOIR INFORMATION:
Wellbore Fluids:

Tubb	±38° API oil with sour (1200-1400 ppm H_2S),
Drinkard	±38° API oil with sour (1200-1400 ppm H_2S),

Proposed Perforations:

Tubb	**Select Fire Gun (3 SPF)**	6342', 43, 44, 45, 46, 47, 48, 6382', 83 6410, 11 6423, 24, 25 6438, 39, 6474, 75, 76	**NEP**	**Shots**
	Select Fire Total	19 Select fires		57
	Standard 4" Hollow Carrier	6490' to 6510'	20'	40
	Total Tubb			**97**
Drinkard	**3 1/8 Slick Stim-Guns**	6793' to 6803'	10'	40
		6817' to 6832'	15'	60
		6846' to 6864'	18'	72
	Total Drinkard		**43'**	**172**

Tubb Temp/Press:	105°F / 2450 PSI (assuming 0.38 psi/ft gradient)
Drinkard Temp/Press:	105° F/ 2600 PSI (assuming 0.38 psi/ft gradient)

Expected Production:

Tubb	130 BOPD & 800 MCFG (6000/1 GOR)
Drinkard	30 BOPD & 200 MCFG (Possible watercut)

1. RU workover rig. Install 7 1/16", 3,000 WP BOP stack and test to 3,000 PSIG according to SOP's.

2. PU 2 7/8" tubing with seating nipple and TIH to 6510'. RU pump truck and spot 500 gals of 15% HCL containing ---- CI, ---- gals iron sequestering agent..... Trip out of the hole to 500'. Swab fluid level down to a depth of 500' from surface. TOOH with remainder of tubing.

3. RU electric line company. Install lubricator with grease injection and TIH with 3 1/8" slick carrier "Stim-guns" loaded 4 JSPF with 23 gm charges in 120 degree phasing to perforate the following Drinkard intervals "**from the top down**":

   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.

	Interval	NEP	Total Shots
3 1/8 Slick	6793' to 6803'	10'	40
Stim-Guns	6817' to 6832'	15'	60
	6846' to 6864'	18'	72
Total Drinkard		**43'**	**172**

4. TIH with 2 7/8", J-55 or L-80 production tubing with 5 ½" CS-1 treating packer and loc-set RBP with ball catcher. Hydrostatically testing tubing to 8,000 PSIG. Set the RBP at 6880' and the packer at 6750'. Prepare to swab test the Drinkard.

5. Install a test manifold and an temporary test tank. Swab test the Drinkard to the test tank to determine productivity. If required install a test separator with a gas flare.

6. If the Drinkard swabs dry, continue with procedure to perform acid breakdown in Step 7. If the Drinkard has sufficient inflow to determine productivity skip the acid breakdown and proceed to Step 9.

7. Release the packer and drop down to set at 6836'. RU BJ and perform acid breakdown across each of the three perforated intervals. 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 5,000 PSIG and test. Open the casing valve and leave open to the pit during breakdown. Pump acid breakdown treatments as follows:

   a.) Load tubing with 40 bbls treated slick water.
   b.) Pump 500 gals (12 bbls) 15% HCL at 2 BPM dropping 50, 7/8", 1.3 SG ball sealers throughtout the treatment.
   c.) Displace treatment with 42 bbls of treated slick water.
   d.) Release the packer and drop down to pick up RBP at 6880'. Reset the RBP at 6838' and set the packer at 6808'.
   e.) Load tubing with 40 bbls treated slick water
   f.) Pump 500 gals (12 bbls) 15% HCL at 2 BPM dropping 50, 7/8", 1.3 SG ball sealers throughtout the treatment.
   g.) Displace treatment with 42 bbls of treated slick water.
   h.) Release the packer and drop down to pick up RBP at 6838'. Reset the RBP at 6808' and set the packer at 6750'.
   i.) Load tubing with 40 bbls treated slick water
   j.) Pump 500 gals (12 bbls) 15% HCL at 2 BPM dropping 50, 7/8", 1.3 SG ball sealers throughtout the treatment.
   k.) Displace treatment with 42 bbls of treated slick water.

TREATING LINE TEST PRESSURE: A minimum 1000 psig over MATP	**6000**	**PSIG**
MAXIMUM ALLOWABLE WORKING PRESSURE: Based on weakest component in system	**8000**	**PSIG**
NITROGEN POP OFF SET PRESSURE: Relief pressure set at the lesser of : **300 psig less than 90% MAWP or,** **300 psig over MATP**	**5000**	**PSIG**
MAXIMUM ALLOWABLE TREATING PRESSURE: If reached, human action required.	**4500**	**PSIG**
MAXIMUM ANTICIPATED TREATING PRESSURE: Based on frac design	**4200**	**PSIG**

8. Release the packer and drop down to pick up the RBP at 6808'. Run the RBP down below all perforations to 6900' and set. Pick up to 6750' and resume swab testing the Drinkard until a determination of productivity can be made.

9. Release the packer, retrieve the RBP and TOOH with 2 7/8" tubing. If the Drinkard is considered to be non-commercial a CIBP will be set at 6,750' (43' above the top perforation) and 35' of cement will be placed on the CIBP for permanent abandonment.

10. If the Drinkard is considered to be commercial, PU RBP and TIH on 2 7/8" tubing to set at 6750'.

11. RU . RU electric line company. Install lubricator with grease injection and RIH with 4" hollow carrier perforating guns loaded 2 JSPF with 19 gm charges in 120 degree phasing to perforate the Tubb interval interval from 6490' to 6510'. PU Select Fire Gun and RIH to perforate the Tubb intervals as noted below:

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.

		Interval		
Tubb	**Select Fire Gun (3 SPF)**	6342' , 43, 44, 45, 46, 47, 48, 6382', 83 6410, 11 6423, 24, 25 6438, 39, 6474, 75, 76	**NEP**	**Shots**
	Select Fire Total	19 Select fires		57
	Standard 4" Hollow Carrier	6490' to 6510'	20'	40
	Total Tubb			**97**

12. TIH with 2 7/8", J-55 or L-80 production tubing with 5 ½" CS-1 treating packer and loc-set RBP with ball catcher. Hydrostatically testing tubing to 8,000 PSIG. Set the RBP at 6550'. Pick up to set the packer at 6450'.

13. RU BJ and perform 3,000 gal acid breakdown. 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 5,000 PSIG and test. Open the casing valve and leave open to the pit during breakdown. Pump acid breakdown treatments as follows:

a.) Load tubing with 40 bbls treated slick water.
b.) Pump 1000 gals (24 bbls) 15% HCL at 4 BPM dropping 75, 7/8", 1.3 SG ball sealers throughtout the treatment.
c.) Displace treatment with 42 bbls of treated slick water. Record 5, 10 and 15 minute shut-in pressures.
d.) Release the packer, TIH to retrieve the RBP. PU to set the RBP at 6460' and test to 4,000 PSIG. PU to set the packer at 6395'
e.) Load tubing with 40 bbls treated slick water.
f.) Pump 1000 gals (24 bbls) 15% HCL at 4 BPM dropping 50, 7/8", 1.3 SG ball sealers throughtout the treatment.
g.) Displace treatment with 42 bbls of treated slick water. Record 5, 10 and 15 minute shut-in pressures.
h.) Release the packer, TIH to retrieve the RBP. PU to set the RBP at 6395' and test to 4,000 PSIG. PU to set the packer at 6320'
i.) Load tubing with 40 bbls treated slick water.
j.) Pump 1000 gals (24 bbls) 15% HCL at 4 BPM dropping 50, 7/8", 1.3 SG ball sealers throughtout the treatment.
k.) Displace treatment with 42 bbls of treated slick water. Record 5, 10 and 15 minute shut-in pressures. RD BJ.

TREATING LINE TEST PRESSURE: A minimum 1000 psig over MATP	**6000**	**PSIG**
MAXIMUM ALLOWABLE WORKING PRESSURE: Based on weakest component in system	**8000**	**PSIG**
NITROGEN POP OFF SET PRESSURE: Relief pressure set at the lesser of : **300 psig less than 90% MAWP or,** **300 psig over MATP**	**5000**	**PSIG**
MAXIMUM ALLOWABLE TREATING PRESSURE: If reached, human action required.	**4500**	**PSIG**
MAXIMUM ANTICIPATED TREATING PRESSURE: Based on frac design	**4200**	**PSIG**

14. Release the packer and TIH to latch on to the RBP. Drop down to 6550' to wipe ball sealers off perforations. TOOH with packer and plug.

15. ND BOP's and 7 1/16" 5K PSIG frac spool and valve. Test the frac valve to 4,500 PSIG.

16. RU BJ services to the 5,000 PSIG WP frac valve to sand frac the Tubb via 5 ½" J-55 casing. Install treating line with a nitrogen actuated relief valve. Pump the Spectra G-3500 treatment as per attached BJ Services procedure. Tag the frac with a single radioactve isotope.

a.) Load casing with (145 bbls) of Base Gel and establish injection rate at 40 BPM Pump 1,000 gals (24 bbls) Spectra Frac G 3500
b.) Pump 25,000 gals (595 bbls) Spectra Frac G 3500 Pad containing 0.5 ppg 100 mesh sand with 50 ppt S-8 (silica flour)
c.) Pump 3,000 gals (71 bbls) Spectra Frac G 3500 Pad
d.) Pump 7,000 gals (167 bbls) Spectra Frac G 3500 with 2 to 5 ppg 16/30 Tempered LC
e.) Pump 7,000 gals (167 bbls) Spectra Frac G 3500 with 5 to 8 ppg 16/30 Tempered LC
f.) Pump 7,000 gals (167 bbls) Spectra Frac G 3500 with 8 to 10 ppg 16/30 Tempered LC
g.) Pump 4,000 gals (95 bbls) Spectra Frac G 3500 with 10 ppg 16/30 Super LC with 5 gpt Superset O
h.) Pump 6,100 gals (145 bbls) Base Gel Flush (2 bbls short of top perf)

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	**4500**	**PSIG**
NITROGEN POP OFF SET PRESSURE: Relief pressure set at the lesser of : **300 psig less than 90% MAWP or,** **300 psig over MATP**	**3750**	**PSIG**
MAXIMUM ALLOWABLE TREATING PRESSURE (MATP): If reached, human action required.	**3450**	**PSIG**
MAXIMUM ANTICIPATED TREATING PRESSURE: Based on frac design	**2600**	**PSIG**

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

18. Flow back to the pit until the well cleans up or dies. RD frac valve and spool. If necessary, kill the well with 8.6 ppg brine water prior to rigging down frac valve.

19. NU BOP and test to 3,000 PSIG according to SOP's.

20. PU 4-3/4" bit and RIH w/ tubing. Tag sand and clean out wellbore to PBTD (+/-6,550', RBP). POOH with bit and tubing.

21. MIRU wireline company. Run post-treatment gamma ray/CCL over Tubb perforated intervals to determine placement of fracture fluids and proppant. POOH with logging tool. RDMO wireline company.

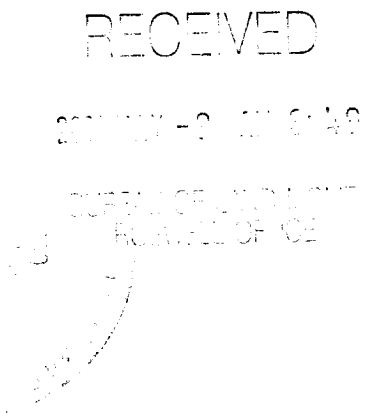
23. PU 2 7/8", J-55 or L-80 production tubing and the production bottom assembly as follows:

    a) wireline re-entry guide with a 2.19" ID No-Go "R" profile nipple
    b) 5 1/2" , MX 1 packer
    c) 2 7/8", J-55 or L-80 tubing to surface

22. Space out the packer at 6,300'. Reverse circulate packer fluid. Set the packer and land the tubing in the tubing head. . Install back pressure valve in tubing hanger. Install a 5,000 WP production tree (2 9/16" single master valve, flow tee, 2 1/16" wing valve with 64/64" adjustable choke & 2 9/16" swab valve.) Remove BPV.

23. Swab well to initiate flowback to the temporary test tank. Once it begins to clean up switch the well into the test separator until the well completely cleans up. After cleanup shut the well in until the flowline and separator are installed.

25. Once the permanent facilities are installed open the well and produce it at a constant rate for a 5 day period. At the end of the flow period RU ARC wireline service and RIH with tandem bottom hole pressure bombs and land in the "R" profile nipple. Release wireline and shut-in well to conduct 7-day pressure buildup. Retrieve bombs and return the well to production through the production facilities.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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-102
Revised February 21, 1994
instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	2 Pool Code	3 Pool Name
30-025-35383	96356	North Hardy Tubb Drinkard

4 Property Code	5 Property Name	6 Well Number
	SEMU	# 154

7 OGRID No.	8 Operator Name	9 Elevation
005073	Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500	3515'

10 Surface Location

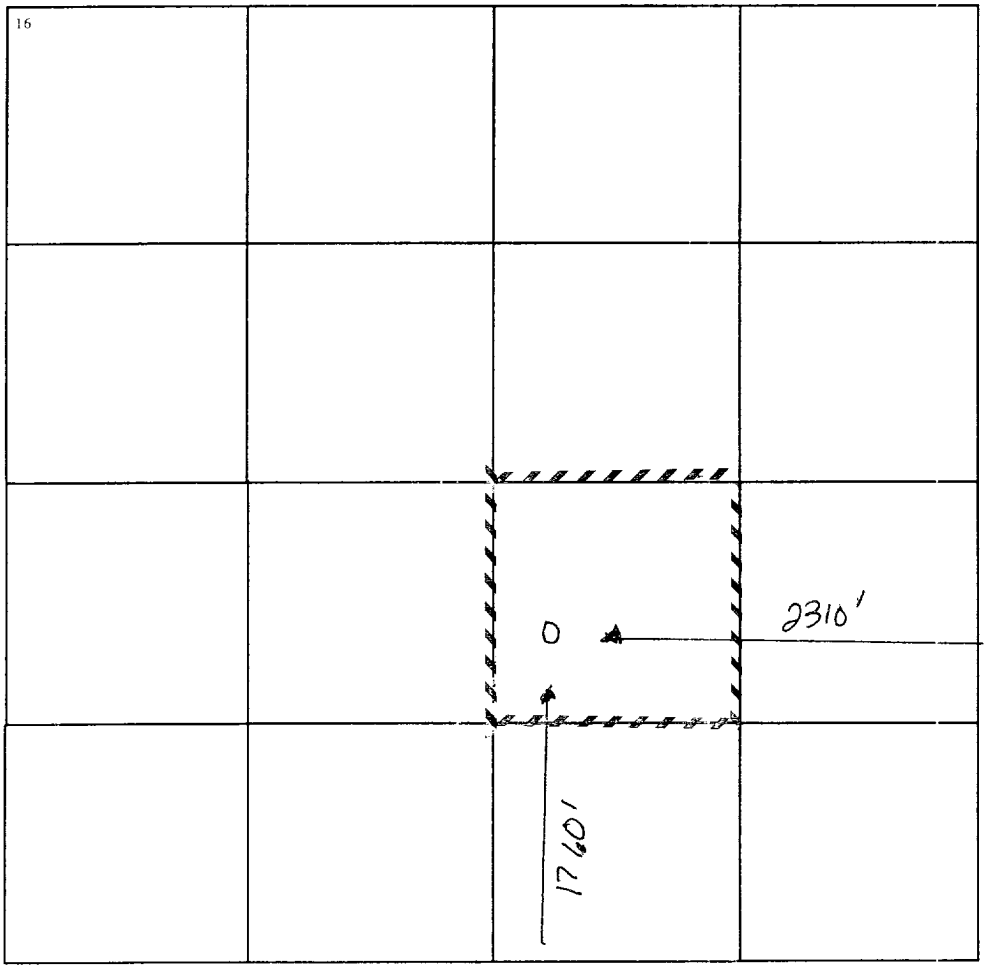
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	30	20S	38E		1760	South	2310	East	Lea

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	13 Joint or Infill	14 Consolidation Code	15 Order No.
40			

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

Signature

Kay Maddox

Printed Name

Regulatory Agent

Title

April 18, 2001

Date

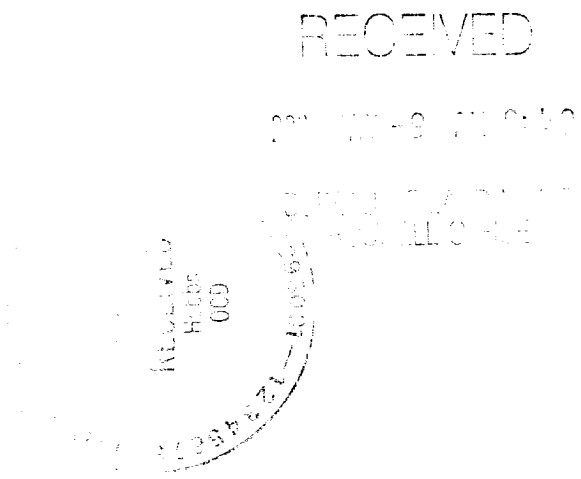
18 SURVEYOR CERTIFICATION

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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Form 3 160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 3 1 ,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

5. Lease Designation and Serial No.
LC 031695(A)

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SUBMIT IN TRIPLICA TE

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☒ Oil Well ☐ Gas Well ☐ Other

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2. Name of Operator
CONOCO INC.

9. API Well No.
30-025-35383

3. Address and Telephone No.
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North Hardy Tubb Drinkard

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1760' FSL & 2310' FEL

11. County or Parish, State
Lea Co., NM

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TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other PerforateTubb	☐ 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 abandon the unproductive Strawn in this newly drilled well and come up hole and perforate the Tubb using the following procedure:

1. Release packer at 7625' and trip out of hole with tubing and RBP.
2. Rig up electric line. Run in hole with 5 1/2" CIBP and set at 7550'. (Approximately 50' Perforations at 7598' to 7650')
3. RIH with bailer and dump 35' of cement on top of CIBP.
4. Trip in hole with 2 7/8" tubing and circulate packer fluid.
5. Pressure test casing to 500 PSIG

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

Signed Kay Maddox Title Regulatory Agent (915) 686-5798 Date April 18, 2001

(This space for Federal or State office use)

Approved by Steven L. Svoboda Title PETROLEUM ENGINEER Date April 18, 2001
Conditions of approval, if any:

BLM(6), NMOCD(1), SHEAR, PONCA, COST ASST. FILE ROOM

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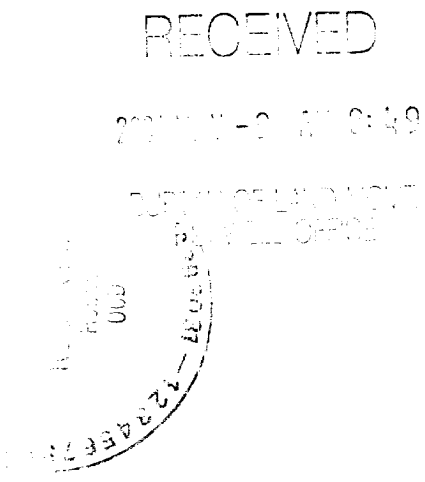
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