

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
LC 031695B

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
ConocoPhillips Company

3a. Address  
P.O. Box 51810  
Midland, Texas 79710-1810

3b. Phone No. (include area code)  
432-688-6913

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2090' FSL & 2090' FWL, Sec 29, T20S, R38E

Unit K

7. If Unit of CA/Agreement, Name and/or No.  
Warren Unit

8. Well Name and No.  
Warren Unit #22

<31488>

9. API Well No.  
30-025-07854

10. Field and Pool or Exploratory Area  
Warren McKee

11. Country or Parish, State  
Lea County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

ConocoPhillips respectfully submits the attached procedure to attempt a recompleation into the Warren Drinkard and Tubb Formations from 6503-6932'

Warren

Warren (Dil)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Justin C. Firkins

Title Regulatory Specialist

Signature

Date 01/21/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

PETROLEUM ENGINEER

Date

FEB 20 2009

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title  
Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

FEB 10 2009

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-07854	<sup>2</sup> Pool Code 63280	<sup>3</sup> Pool Name Warren: Tubb
<sup>4</sup> Property Code 31488	<sup>5</sup> Property Name Warren Unit	<sup>6</sup> Well Number 22
<sup>7</sup> OGRID No. 217817	<sup>8</sup> Operator Name ConocoPhillips Company	<sup>9</sup> Elevation 3519' GR

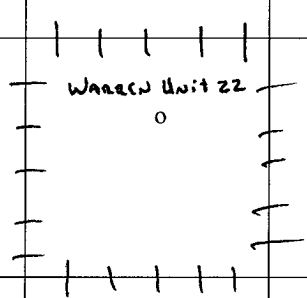
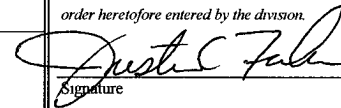
<sup>10</sup> Surface Location

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, NM
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	-----------------------	------------------------	-------------------

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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.

<sup>16</sup>				<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  01/28/2009 Signature Date Justin C. Firkins Printed Name
				<sup>18</sup> 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

Warren Unit McKee #22  
Recomplete to Tubb/Drinkard Zones

**AFE Number:** WA5.CNM.\_\_\_\_\_

**API Number:** 30-025-07854

**Field:** Warren-McKee

**Location:** 2090' FSL & 2090' FWL, Sec. 29, T-20-S, R-38-E, Lea County, NM

**Depths:** TD = 9,207' PBD = 7,565'

**Elevation:** GR = 3,519' KB = 3,532'

**Casing Data:**

**Existing & Proposed Casing, Tubing and Packer Information**

	OD (in)	Depth (ft)	ID/Drift (inches)	Weight (#/ft)	Grade	Burst	Burst w/ 1.15 D.F.	Collapse (psi)	Collapse w/ 1.05 D.F.	Volume (Bbls/Ft)
Int. Csg.	7½"	3998'	7.025/6.900	24#	H-40	2750	2391	2040	1943	.0479
Prod. Csg	5½"	9206'	4.892/4.767"	17#	J-55	5320	4626	4910	4676	.0232
Prod. Tbg	2½"	5570'±	2.441/2.347	6.5#	J-55	7260	6313	7680	7314	.00579

Top of Cement: 5450' (Temperature Survey)

Casing Fluid: 2% KCl (0.438 psi/ft)

**Proposed Cased Hole Perforations**

Formation	Perforations (MD)	Frac Grad	Perf Feet	SPF	Phase	Zero Hole	Holes	Anticipated Reservoir Pressure	Reservoir Temp
Tubb {	6503-6508'	.75	5	4	60°	No	20	3024	106°
	6607-6611'	.75	4	4	60°	No	16	3072	106°
Drinkard {	6794-6800'	.8	6	4	60°	No	24	3159	110°
	6868-6878'	.8	10	4	60°	No	40	3194	110°
	6925-6932'	.8	7	4	60°	No	28	3220	110°

Correlation Log: Welex Jet Services Radioactivity log dated 9/10/57

Gun Type: 3½" High Shot Density, 34JL Ultrajet, HMX 22.7g, (API 19B: Pen – 28.94", EHD - 0.37")

**Prepared by: David McPherson: Contract Production Engineer, Panhandle/Permian Group**  
**Mobile: 1(903) 316-4272 Home: 1(903) 894-3547**

## GENERAL NOTES

1. No project or task is to be performed unless it can be done safely and without harm to the environment. All work must comply with all State and Federal regulations and with COPC Safety and Environmental Policies.
2. Conduct daily safety meetings and review all procedures with all contractors prior to performing the operation.
3. Report all activity on the WellView Daily Completion Work-Over Report.
4. Insure contractors are familiar with and comply with all relevant COPC safety/environmental policies.
5. Spills are to be prevented. Utilize a vacuum truck as necessary.
6. **All references to 2% KCl water is powdered 2% KCl.**
7. Throughout the entire completion process, any fluids from the well-bore that are displaced or produced must be sent through the flow-back equipment so that the fluids can be properly disposed.
8. Verify that all pressured lines and fittings meet or exceed the MPSP (Maximum Predicted Surface Pressure) for the treatment lines of **5500 psi** for the pressure test during stimulation operations. Maximum treatment pressure during the frac jobs will be **5500 psi**. MPSP from the zone should not be greater than 2000 psi before & after stimulation operations of the Tubb/Drinkard zones.
9. Well control for this well will be Class 2, Category 1 before and after stimulation. Expected Shut in Casing Pressures (SICP) before & after stimulation should not exceed 600 psi.

### Mid-Continent / Permian / Hobbs East Contact List:

Reservoir Engineer:	D. Pecore	832-486-2145
Geologist:	G. Borges	832-486-2606
Production Engineer:	J. Lowder	432-368-1609
Facilities Engineer Tech:	L. Johansen	432-368-1223
Operations Supervisor:	J. Coy	575-391-3127
Projects Planner:	D. Garrett	432-368-1410
Production Foreman:	V. Mackey	575-391-3129

**Recommended Procedure**

1. MIRU well service unit. ND wellhead and NU BOPs and test. Load casing with 9 ppg brine, test to 700 psi, and hold for 30 minutes. Haul in 2 $\frac{7}{8}$ ", 6.5# production tubing for use as a workstring.
2. PU and RIH with 4 $\frac{3}{4}$ " bit on 2 $\frac{7}{8}$ ", 6.5# production tubing as workstring to 7565'±, circulating well clean with 2% KCL water. POOH with 2 $\frac{7}{8}$ " workstring and bit. Lay down drill bit.
3. MIRU Schlumberger wireline. RU 1000 psi lubricator. Run GR-CCL log from 7565'± to 3500'±. Correlate to Jet Services Radioactivity log dated 9/10/57. Perforate the Drinkard from 6794-6800', with 4 SPF, 60° phasing (24 holes), 6868-6878' (40 holes), and 6925-6932' (28 holes) with 4 SPF, 60° phasing using 3 $\frac{3}{8}$ " High Shot Density, 34JL Ultrajet, HMX 22.7g, (API 19B: Pen – 28.94", EHD - 0.37").
4. RDMO wireline and lubricator.
5. PU 3 $\frac{1}{2}$ " workstring and RIH with 5 $\frac{1}{2}$ " packer. Test 3 $\frac{1}{2}$ " workstring to 8,000 psi while RIH. Set packer at 6750'±.
6. Spot three 500 bbl clean, lined frac tanks and fill frac tanks with 2% KCl. Add biocide to the first load of each tank. Design = 1238 bbls total. At 20,000 gallons of useable fluid per tank, that would be 3 tanks; the excess will be 190 bbls.
7. MIRU Schlumberger pumping services fracturing equipment. RU and test all lines to 7,500 psi and monitor for 5 min. Make sure the pressure does not decrease more than 300 psi over the 5 min. Pressure up casing / tubing annulus to 300 psi and monitor during job.
8. Perform acid ballout with 1500 gals 15% HCl acid @ 6 bpm with 115± 1.1 SG bio balls as per attached procedure. Surge the well 2-3 times to dislodge balls. Shut down for 30 minutes to allow balls to fall.  
  
Note: It is a ConocoPhillips policy to have shower facilities on location when using acid.
9. Fracture treat the Drinkard with 33,000 gal of YF125ST containing 60,000 lbs of 20/40 resin coated sand as per attached treating schedule. Set treating line pop off at 7000 psi. Set pump trips at 6500 psi. Set annulus pop off at 700 psi. Frac at 30± BPM with maximum wellhead treating pressure of 5500 psi.
10. Obtain ISIP and 5 minute, 10 minute, and 15 minute shut-in pressures. Close Hydraulic Master Valve. RD Schlumberger Iron.
11. Unseat packer and reverse out any excess sand from tubing if flush volume not achieved. POOH with 5 $\frac{1}{2}$ " packer and 3 $\frac{1}{2}$ " workstring. Stand back 3 $\frac{1}{2}$ " workstring.
12. MIRU Schlumberger wireline. RU 1000 psi lubricator. TIH and set composite plug @ 6700'±. Perforate the Tubb from 6503-6508', with 4 SPF, 60° phasing (20 holes), and 6607-6611' with 4 SPF, 60° phasing (24 holes), using 3 $\frac{3}{8}$ " High Shot Density, 34JL Ultrajet, HMX 22.7g, (API 19B: Pen – 28.94", EHD - 0.37").
13. RDMO wireline and lubricator.

14. PU 3½" workstring and RIH with 5½" packer. Test 3½" workstring to 8,000 psi while RIH. Set packer at 6450'±.
15. Fill three 500 bbl clean, lined frac tanks and fill frac tanks with 2% KCl. Add biocide to the first load of each tank. Design = 1142 bbls total. At 20,000 gallons of useable fluid per tank, that would be 3 tanks; the excess will be 285 bbls.
16. MIRU Schlumberger pumping services fracturing equipment. RU and test all lines to 7,500 psi and monitor for 5 min. Make sure the pressure does not decrease more than 300 psi over the 5 min. Pressure up casing / tubing annulus to 300 psi and monitor during job.
17. Perform acid ballout with 1000 gals 15% HCl acid @ 6 bpm with 120± 1.1 SG bio balls as per attached procedure. Surge the well 2-3 times to dislodge balls. Shut down for 30 minutes to allow balls to fall.

Note: It is a ConocoPhillips policy to have shower facilities on location when using acid.

18. Fracture treat the Tubb with 28,700 gal of YF125ST containing 50000 lbs of 20/40 resin coated sand as per attached treating schedule. Set treating line pop off at 7000 psi. Set pump trips at 6500 psi. Set annulus pop off at 700 psi. Frac at 30± BPM with maximum wellhead treating pressure of 5500 psi.
19. Obtain ISIP and 5 minute, 10 minute, and 15 minute shut-in pressures. Close Hydraulic Master Valve. RD Schlumberger Iron.
20. Unseat packer and reverse out any excess sand from tubing if flush volume not achieved. POOH with 5½" packer and 3½" workstring. Lay down 3½" workstring.
21. TIH with 4¾" bit on 2⅞" workstring to 6700'±. Drill out composite plug. Continue GIH to 7565'±. Circulate out any excess sand from frac job. When wellbore is clean, POOH with 2⅞" workstring.
22. RIH with the 2⅞" production tubing (per tubing design in WellView). Place the EOT at 6963'± with the tubing anchor at 5834'±. Maintain a dynamic fluid column (DFC) while running tubing. (Trickle some 2% KCl water down the tubing head valve.)
23. ND BOPs and NU wellhead. RIH with pump and rods (per rod design in WellView). Space and hang well on. Load tubing and check pump action.
24. RDMO well service rig. Release any ancillary equipment. Clean up location.
25. Turn well over to Operations. Place well on production. Report well tests on morning report. Place stabilized well test in FieldView. Contact chemical representative to place well on corrosion inhibition and scale squeeze program if needed. Submit change of status report.

# WARREN UNIT McKEE #22

## CURRENT WELLBORE DIAGRAM

**API #:** 30-025-07854  
**FIELD:** Warren McKee  
**CO ST:** Lea, NM **AREA:** Hobbs East  
**SECTION:** 29 **TOWNSHIP:** 20S **RANGE:** 38E  
**LOCATION:** 2090' FSL & 2090' FWL  
**DATES:** SPUD: 7/12/57 IC: 9/3/57  
**LATEST RIG WORKOVER:** 10/17/01  
**DIAGRAM REVISED:** 12/15/08 by D. McPherson

10 3/4" @ 256' cmt w/ 250 sxs

TOC @ 1375' (Temp Survey)

7 7/8" @ 3998' cmt w/ 700 sxs

TOC @ 5450' (Temp Survey)

TAC @ 6453'±

PERFS: 6503-6508', 6607-6611'

PERFS: 6794-6800', 6868-6878', 6925-6932'

35' cmt on top  
CIBP @ 7600' (10/17/01)

PERFS: 7646-70' (Strawn)

35' cmt on top  
CIBP @ 8890' (10/31/01)

Locset plug @ 8904' (6/9/96)

PERFS: 8954-60', 8963-73', 8985-9020', 9024-34'  
 9038-48', 9052-79' (10/23/99)  
 PERFS: 8965-66', 8976-77', 8998-99', 9025-26', 9035-36'  
 9049-50', 9071-72', 9108-09', 9123-24' (7/57)

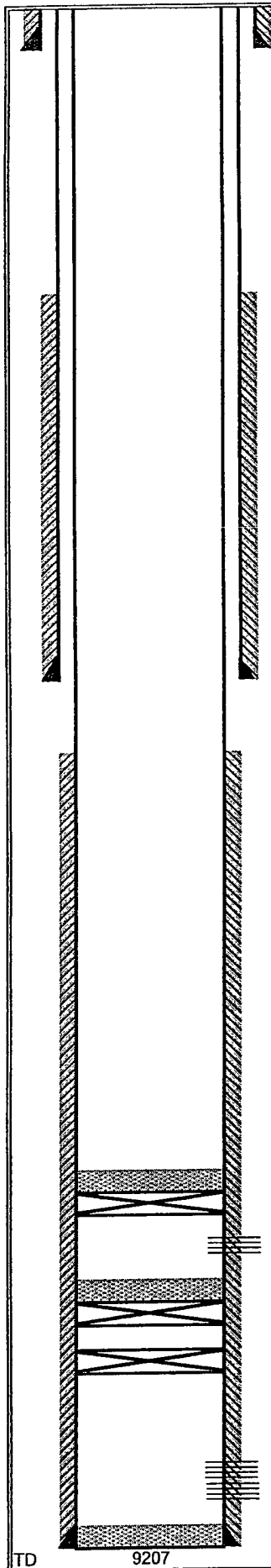
5 1/2" @ 9206' cmt w/ 230 sxs

	CASING			TUBING
Hole Size	13 3/4"	9"	6 3/4"	
Pipe Size	10 3/4"	7 7/8"	5 1/2"	2 7/8"
Weight	32.75#	24#	17#	6.5#
Grade	H-40	H-40	J-55	J-55
Thread	8rd	8rd	8rd	
Depth	256'	3998'	9206'	6963'±

**ELEVATION:** GR - 3519', KB 3532'  
**TREE CONNECTION:**

## COMMENTS

1. McKee 335,609 BO; 498,755 Mcf, 15,154 BW



10 3/4" @ 256' cmt w/ 250 sxs

TOC @ 1375' (Temp Survey)

7 5/8" @ 3998' cmt w/ 700 sxs

TOC @ 5450' (Temp Survey)

35' cmt on top  
CIBP @ 7600' (10/17/01)

PERFS: 7646-70' (Strawn)

35' cmt on top  
CIBP @ 8890' (10/31/01)

Locset plug @ 8904' (6/9/96)

PERFS: 8954-60', 8963-73', 8985-9020', 9024-34'  
9038-48', 9052-79' (10/23/99)  
PERFS: 8965-66', 8976-77', 8998-99', 9025-26', 9035-36'  
9049-50', 9071-72', 9108-09', 9123-24' (7/57)

5 1/2" @ 9206' cmt w/ 230 sxs

## WARREN UNIT McKEE #22

### CURRENT WELLBORE DIAGRAM

API #: 30-025-07854

FIELD: Warren McKee

CO ST: Lea, NM

AREA: Hobbs East

SECTION: 29

TOWNSHIP: 20S

RANGE: 38E

LOCATION: 2090' FSL & 2090' FWL

DATES: SPUD: 7/12/57

IC: 9/3/57

LATEST RIG WORKOVER: 10/17/01

DIAGRAM REVISED: 9/23/08 by D. McPherson

CASING				TUBING	
Hole Size	13 3/4"	9 7/8"	6 3/4"		
Pipe Size	10 3/4"	7 7/8"	5 1/2"		none
Weight	32.75#	24#	17#		
Grade	H-40	H-40	J-55		
Thread	8rd	8rd	8rd		
Depth	256'	3998'	9206'		

ELEVATION: GR - 3519', KB 3532'

TREE CONNECTION:

Tubing Description	Length	From	To
None			

Rod Description	Length	From	To
None			

Pump Unit:	None
------------	------

### COMMENTS

1. McKee 335,609 BO; 498,755 Mcf; 15,154 BW