

Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-101  
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

API NO. (assigned by OCD on New Wells) <b>30-025-32309</b>
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. <b>V-3916</b>

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL <input checked="" type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Lease Name or Unit Agreement Name <b>Lone Ranger</b>			
b. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Well No. <b>21</b>			
2. Name of Operator <b>Phillips Petroleum Company</b>		9. Pool name or Wildcat <b>West Ranger lake (Dev.)</b>			
3. Address of Operator <b>4001 Penbrook Street, Odessa, TX 79762</b>		10. Proposed Depth <b>13,050'</b>			
4. Well Location Unit Letter <b>I</b> : <b>2260</b> Feet From The <b>South</b> Line and <b>450</b> Feet From The <b>East</b> Line Section <b>27</b> Township <b>12-S</b> Range <b>34-E</b> NMPM <b>Lea</b> County		11. Formation <b>Devonian</b>			
13. Elevations (Show whether DF, RT, GR, etc.) <b>4151.9' GR</b>		12. Rotary or C.T. <b>Rotary</b>			
14. Kind & Status Plug. Bond <b>Blanket</b>		15. Drilling Contractor <b>NA</b>			
16. Approx. Date Work will start <b>Upon Approval</b>		17. PROPOSED CASING AND CEMENT PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	48#	425'	400 sx "C"	Surface
11"	8-5/8"	32#	4200'	1000 sx "C" tail	Surface
				w/150 sx.	
7-7/8"	5-1/2"	17# & 20#	13,050'	350 sx. "H"	12000'
			2nd Stage:	800 sx. "H"	9500'

Unorthodox - Phillips has requested a hearing scheduled for November 4, 1993.

R-10014

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE L. M. Sanders TITLE Supv. Regulatory Affairs DATE 11-02-93  
(915)  
TYPE OR PRINT NAME L. M. Sanders TELEPHONE NO. 368-1488

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON  
DISTRICT I SUPERVISOR

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE NOV 18 1993

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval  
Date Unless Drilling Underway.

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

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WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator PHILLIPS PETROLEUM CO.		Lease LONE RANGER		Well No. 21
Unit Letter I	Section 27	Township 12 SOUTH	Range 34 EAST NMPM	County LEA
Actual Footage Location of Well: 2260 feet from the SOUTH line and 450 feet from the EAST line				
Ground Level Elev. 4151.9'	Producing Formation West Ranger Lake (Dev.)		Pool West Ranger Lake (Devonian)	Dedicated Acreage: 320 Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</p> <p>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</p> <p>3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation _____</p> <p>If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary. _____)</p> <p>No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>				
<div><div><p><b>OPERATOR CERTIFICATION</b></p><p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p><p>Signature <i>L. M. Sanders</i></p><p>Printed Name L. M. Sanders</p><p>Position Supv., Regulatory Affairs</p><p>Company Phillips Petroleum Co.</p><p>Date 11/2/93</p></div><div><p><b>SURVEYOR CERTIFICATION</b></p><p>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 knowledge and belief.</p><p>Date Surveyed OCTOBER 27, 1993</p><p>Signature &amp; Seal of Professional Surveyor <i>Ronald J. Jordan</i></p><p>Certificate No. 1578 1579 1580 1581</p></div></div> <div><p>R-10014</p><p>0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0</p></div>				

PROPOSED CASING & CEMENTING PROGRAM

Lone Ranger Well No. 21

13 3/8" 48 lb/ft J-55 Surface Casing Set at 425' - 17 1/2" Hole:

400 sacks of Class "C" + 2%  $\text{CaCl}_2$ . TOC = Surface.

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 ft <sup>3</sup> /sx
Water Requirement:	6.3 gals/sx

8 5/8" 32 lb/ft J-55 Intermediate Casing Set at 4200' - 11" Hole:

Lead: 1000 sx Class "C" 65/35 Poz + 6% Gel + 3% Salt. TOC = Surface.

Slurry Weight:	12.8 ppg
Slurry Yield:	1.85 ft <sup>3</sup> /sx
Water Requirement:	9.9 gals/sx

Tail: 150 sx Class "C" Neat.

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 ft <sup>3</sup> /sx
Water Requirement:	6.2 gals/sx

5 1/2" 17 & 20 lb/ft L-80 & J-55 Production Casing Set at 13050' - 7 7/8" Hole:

Set stage tool at 12000'.

1st Stage:

350 sx Class "H" + retarders as necessary. TOC = 12000'.

Slurry Weight:	16.2 ppg
Slurry Yield:	1.09 ft <sup>3</sup> /sx
Water Requirement:	4.55 gals/sx

2nd Stage:

800 sx Class "H" 50/50 Poz + 2% Gel + 3% Salt + retarders as necessary. TOC = 9500'.

Slurry Weight:	14.2 ppg
Slurry Yield:	1.33 ft <sup>3</sup> /sx
Water Requirement:	6.27 gals/sx

# PROPOSED MUD PROGRAM SUMMARY

LONE RANGER WELL NO. 21

DEPTH	MUD WEIGHT	VISCOSITY	FLUID LOSS	% SOLIDS	COMMENTS
Surf - 425'	8.5-9.1 ppg	35-45 sec/1000 cc	No Control	---	Spud Mud
425' - 1900'	9.1-9.6 ppg	32-34 sec/1000 cc	No Control	---	Fresh Water / Native Mud
1900' - 4200'	10.0-10.2 ppg	32-34 sec/1000 cc	No Control	---	Brine Water Added
4200' - 7600'	8.6-8.8 ppg	28-30 sec/1000 cc	No Control	---	
7600' - 11800'	8.7-9.1 ppg	32-36 sec/1000 cc	20 cc or less	< 2	Drispac+
11800' - 13050'	8.7-9.1 ppg	34-40 sec/1000 cc	10 cc or less	< 2	Drispac+