

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
811 S. 1st Street, Artesia, NM 88210-2834  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-101  
Revised October 18, 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

<sup>1</sup> Operator name and Address Phillips Petroleum Company 4001 Penbrook Street Odessa, TX 79762		<sup>2</sup> OGRID Number 017643
<sup>4</sup> Property Code 24398	<sup>3</sup> Property Name PRAIRIE FIRE STATE	<sup>5</sup> API Number 30-0 25-34590
		<sup>6</sup> Well No. 1

<sup>7</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
7	2	21-S	34-E		1980	NORTH	1650	EAST	LEA

<sup>8</sup> 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
<sup>9</sup> Proposed Pool 1 OSUDO WEST (MORROW) #82240					<sup>10</sup> Proposed Pool 2 OSUDO (ATOKA)				

<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code G	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3710'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 13,500'	<sup>18</sup> Formation MISSISSIPPIAN	<sup>19</sup> Contractor UNKNOWN	<sup>20</sup> Spud Date BEFORE 04/15/99

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	54.5#	1400'	1050	SURFACE
12-1/4"	9-5/8"	40#	5850'	2940	SURFACE
8-3/4"	7-5/8"	33.7#	12,600'	425	5350'
6-1/2"	5"	18#	13,500'	100	12,400'

<sup>22</sup> 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.

SEE ATTACHED

Permit Expires 1 Year From Approval Date Unless Drilling Underway

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Larry M. Sanders*  
Printed name: LARRY M. SANDERS  
Title: SUPERVISOR, REGULATION/PRORATION

OIL CONSERVATION DIVISION

Approved by: ORIGINAL SIGNATURE OF LARRY M. SANDERS  
DISTRICT ENGINEER

Title:

Approval Date: 10/10/99 Expiration Date:

**D. Drilling Prognosis:**

**Drilling Contract:** This well will be drilled by ?????Drilling Rig on a day-rate basis to TD. Drilling Co will provide fuel for the rig.

**Well Control:** Well Control equipment and procedures will be in accordance with the Phillips Petroleum Company Well Control Manual, Second Edition, Revision Two, dated August 1994.

**Directional Program:** Do not allow well to deviate more than 5 degrees off vertical per 500'.

**Alterations:** Any changes in the drilling procedure regarding equipment, services, drilling practices, etc. must be cleared in advance with PPCO DRILLING DEPARTMENT.

**Well Classification:** This well is classified as NON-TIGHT, but access to well information by any person other than Phillips personnel should be restricted.

**SECTION II SURFACE HOLE: 660' RKB; 17-1/2" Bit**

**A. Mud:** Drill the surface hole with fresh water/fresh gel flocculated lime. Use paper to control seepage. Add yellow starch @ TD to stabilize hole for running casing. (See attached Mud Program for details)

**B. Potential Problems:** Drilling paper additions should be sufficient to control minor seepage losses.

**C. Casing:** 13-3/8", 54.5 lb/ft, J-55, ST&C set at ~~660'~~ 1400'  
PPCo. Allowables

Burst, psi	2560
Collapse, psi	1060
Tension, K lbs	343

Make-up Torque, ft-lbs:

Optimum	5140
Minimum	3860
Maximum	6430

**D. Cement:** Pump 20 bbls of fresh water ahead of lead slurry.

Lead: 710 sx of Halliburton light premium plus + .25 lb/sx flocele

Slurry Weight:	12.4 lb/gal
Slurry Yield:	1.97 ft <sup>3</sup> /sk
Water Requirement:	10.92 gals/sx

Tail: 340 sx premium plus + 2% Calcium Chloride mixed w/ fresh water

Slurry Weight:	14.8 ppg
Slurry Yield:	1.34 ft <sup>3</sup> /sx
Water Requirement:	6.31 gals/sx