

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
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

| | | |
|---|---|---|
| ¹ Operator Name and Address. Yates Petroleum Corporation 105 S. 4th Street Artesia, New Mexico 88210 | | ² OGRID Number 025575 |
| | | ³ API Number 30-015-30444 |
| ⁴ Property Code 20795 | ⁵ Property Name Archimedes "ARE" State Com. | ⁶ Well No. 2 |

⁷ Surface Location

| UL or lot no. | Section | Township | Range | Lot Ida | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| E | 18 | 21S | 24E | | 1980' | North | 990' | West | Eddy |

⁸ Proposed Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Ida | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |

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|---|--|
| ⁹ Proposed Pool 1 Cemetery Morrow | ¹⁰ Proposed Pool 2 74640 |
|---|--|

| | | | | |
|-----------------------------------|---------------------------------------|-----------------------------------|--|---|
| ¹¹ Work Type Code N | ¹² Well Type Code G | ¹³ Cable/Rotary R | ¹⁴ Lease Type Code S | ¹⁵ Ground Level Elevation 3818' |
| ¹⁶ Multiple No | ¹⁷ Proposed Depth 9800' | ¹⁸ Formation Morrow | ¹⁹ Contractor Not determined | ²⁰ Spud Date ASAP |

²¹ Proposed Casing and Cement Program

| Hole Size | Casing Size | Casing weight/foot | Setting Depth | Sacks of Cement | Estimated TOC |
|--------------|-------------|------------------------------------|---|-----------------|---------------|
| 14 3/4" | 9 5/8" | 36# | 1200' | 1200 sx | Circulate |
| 8 3/4" | 4 1/2" | 11.6# | 9800' | 900 sx | TOC 6000' |
| 18 Hours WOC | | Post ID-1 10-23-98 API # 600 | Notify N.M.O.C.C. in sufficient time to witness cementing 9 5/8" | | |

²² 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.

Yates Petroleum Corporation proposes to drill and test the Morrow and intermediate formations. Approximately 1200' of surface casing will be set and cement circulated to shut off gravel and cavings. If commercial, production casing will be run and cemented, will perforate and stimulate as needed for production.

MUD PROGRAM: 0-1200' FW Fel/LCM; 1200'-6500' FW; 6500'-7500' Cut Brine; 7500'-8600' Salt Gel/Starch; 8600'-9800' Salt Gel/Starch/2% KCL.

BOPE PROGRAM: POPE will be installed on the 9 5/8" casing and tested daily for operational.

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

Signature:

Printed name:

KEN BEARDEMPHL

Title:

LANDMAN

Date: October 12, 1998

Phone:

505-748-4348

OIL CONSERVATION DIVISION

Approved by:

ORIGINAL SIGNED BY TIM W. GUN
DISTRICT II SUPERVISOR

Title:

Approval Date: 10-15-98

Expiration Date: 10-15-99

Conditions of Approval:

Attached ☐