

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

| | | |
|--|--|---|
| ¹ Operator Name and Address PURVIS OPERATING CO. PO BOX 51990, MIDLAND, TX 79710-1990 | | ² OGRID Number 131559 |
| ³ Property Code 35882 | ⁴ Property Name BADGER STATE | ⁵ API Number 30 - 025 - 38036 |
| ⁹ Proposed Pool 1 Morton WILDCAT MISSISSIPPIAN (Gas) | | ¹⁰ Proposed Pool 2 |

7 Surface Location

| | | | | | | | | | |
|--------------------|--------------|-----------------|--------------|---------|----------------------|---------------------------|----------------------|------------------------|---------------|
| UL or lot no. P | Section 6 | Township 15S | Range 35E | Lot Idn | Feet from the 660 | North/South line South | Feet from the 660 | East/West line East | County LEA |
|--------------------|--------------|-----------------|--------------|---------|----------------------|---------------------------|----------------------|------------------------|---------------|

8 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|

Additional Well Information

| | | | | |
|---|--|---|------------------------------------|--|
| ¹¹ Work Type Code N | ¹² Well Type Code G | ¹³ Cable/Rotary R | ¹⁴ Lease Type Code S | ¹⁵ Ground Level Elevation 4037 |
| ¹⁶ Multiple No | ¹⁷ Proposed Depth 13,500' MD | ¹⁸ Formation L. Mississippian | ¹⁹ Contractor | ²⁰ Spud Date 1-1-2007 |
| Depth to Groundwater 80' | | Distance from nearest fresh water well 0.4 miles | | Distance from nearest surface water Miles and miles |
| Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume: 2000 bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/> | | | | |

21 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" | 48# | 400' | 400 sbs | Surface |
| 12 1/4" | 9 5/8" | 36# - 40# | 6200' | 1400 sbs | 700' |
| 8 3/4" | 5 1/2" | 17# - 20# | 13,500' | 800 sbs | 9500' |


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.

Drill 400' and case off all fresh water zones. Set intermediate to 6200' and cement off any water flows and corrosive zones. Drill to a total depth of 13,500' and DST prospective zones. Run open hole logs. Run production casing, if justified and cement 600' above uppermost pay. Perforate and stimulate where justified.

A 5000 psi BOP will be installed on 9 5/8" casing and pressure tested before drilling deeper.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

| | |
|--|--|
| OIL CONSERVATION DIVISION | |
| Approved by: |  |
| Title: | PETROLEUM ENGINEER |
| Approval Date: | AUG 01 2006 |
| Expiration Date: | |
| Conditions of Approval Attached <input type="checkbox"/> | |

Printed name: Donnie E. Brown

Title: PETROLEUM ENGINEER

Approval Date: AUG 01 2006

Title: Petroleum Engineer

E-mail Address: eng@purvisop.com

Date: July 11, 2006

Phone: 432-682-7346

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

| | | |
|-----------------------------------|--|--|
| API Number 30-025-38036 | Pool Code 96593 | Pool Name Morton WILDCAT MISSISSIPPIAN (GAS) |
| Property Code 35882 | Property Name BADGER STATE | Well Number 1 |
| OGRID No. 131559 | Operator Name PURVIS OPERATING COMPANY | Elevation 4037' |

Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P | 6 | 15-S | 35-E | | 660 | SOUTH | 660 | EAST | LEA |

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 |
|-------------------------------|-----------------|--------------------|-----------|---------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |
| Dedicated Acres 320 | Joint or Infill | Consolidation Code | 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

| | | | |
|----------|----------|----------|----------|
| LOT 4 | LOT 3 | LOT 2 | LOT 1 |
| 44.54 AC | 43.56 AC | 43.26 AC | 42.95 AC |
| LOT 5 | | | |
| 40.52 AC | | | |
| LOT 6 | | | |
| 40.44 AC | | | |
| LOT 7 | | | |
| 40.36 AC | | | |

GEODETIC COORDINATES
NAD 27 NME
Y=743500.2 N
X=773742.8 E
LAT.=33.040745° N
LONG.=103.440055° W
LAT.=33°02'26.68" N
LONG.=103°26'24.20" W

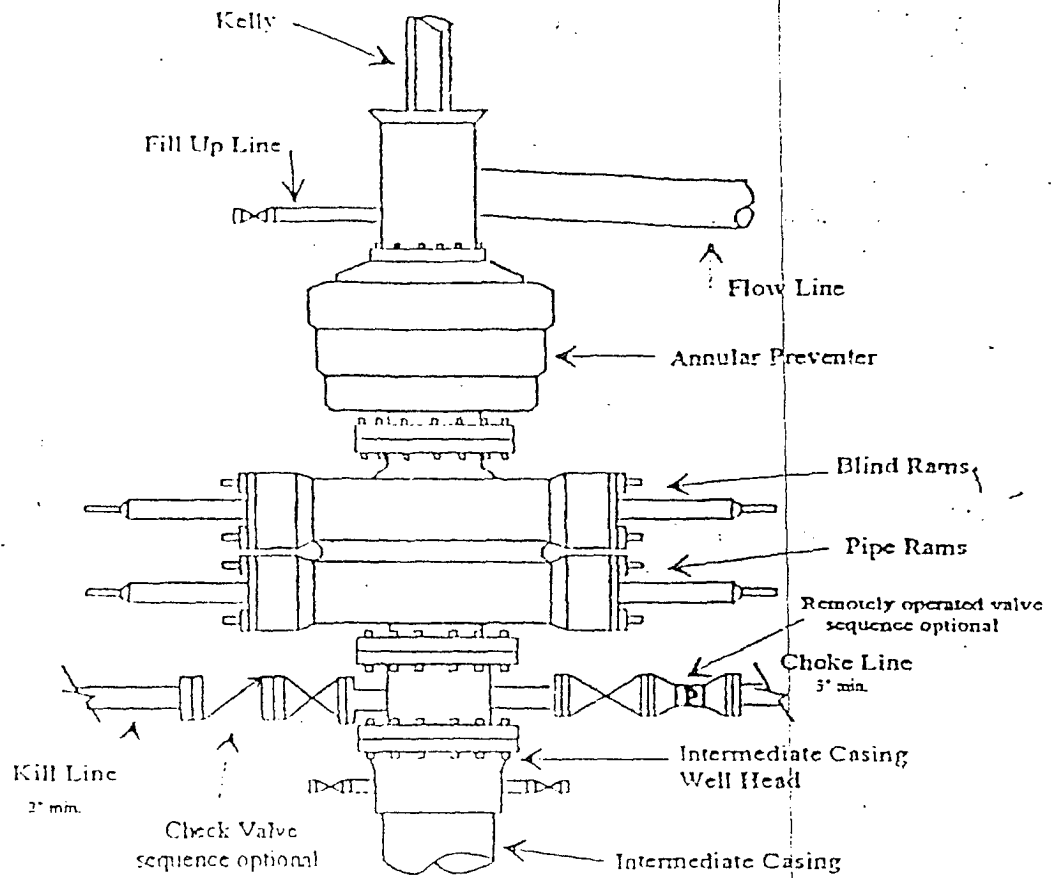
660'
660'

OPERATOR CERTIFICATION
I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
Signature Donnie E. Brown Date 7-31-06
Printed Name Donnie E. Brown

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.
JULY 26, 2006
Date Surveyed _____ MR
Signature & Seal of Professional Surveyor Ronald J. Eidson 7/28/06
Certificate No. GARY EIDSON 12641
RONALD J. EIDSON 3239



Typical 5,000 psi Pressure System Schematic Annular with Double Ram Preventer Stack



Typical 5,000 psi choke manifold assembly with at least these minimum features

