State of New Mexico

Form C-101 Permit 82227

Energy, Minerals and Natural Resources

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

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

| | in the state of th | | | | | | |
|------------------|--|-----------------|--|--|--|--|--|
| 1. | Operator Name and Address | 2. OGRID Number | | | | | |
| MUR | 15363 | | | | | | |
| 110 | 00 MIRA VISTA BLVD. PLANO , TX 75093 | 3. API Number | | | | | |
| | TEANO, TA 75095 | 30-025-39248 | | | | | |
| 4. Property Code | 5. Property Name | 6. Well No. | | | | | |
| 37448 | CAPROCK FEE | 001 | | | | | |

7. Surface Location

| | 7. Surface Location | | | | | | | | | | |
|----------|---------------------|----------|-------|---------|-----------|----------|-----------|----------|--------|--|--|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County | | |
| M | 26 | 12S | 33E | M | 990 | S | 660 | W | LEA | | |

8. Pool Information

| HIGHTOWER; PERMO PENN | 31350 |
|-----------------------|-------|
|-----------------------|-------|

Additional Well Information

| | _ | | | | |
|--|-------|------------------|---|--|-----------------------------------|
| 9. Work Type 10. Well Type New Well OIL 14. Multiple 15. Proposed Depth | | 11. Cable/Rotary | 11. Cable/Rotary 12. Lease Type Private | | |
| | | sed Depth | 16. Formation | . 17. Contractor | 18. Spud Date |
| N | 10 | 305 | Pennsylvania | m | 1/1/2009 |
| Depth to Ground | water | | Distance from nearest: | fresh water well | Distance to nearest surface water |
| t: Liner: Synthetic [Closed Loop System | | mils thick | Clay Pit Volume: | bbls Drilling Method: Fresh Water 🗙 Brine | Diesel/Oil-based Gas/Air |

19. Proposed Casing and Cement Program

| Туре | Hole Size | Casing Type | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5 | 13.375 | 48 | 1800 | 390 | 0 |
| Int1 | 12.25 | 9.625 | 40 | 3800 | 815 | 0 |
| Prod | 8.5 | 5.5 | 17 | 10305 | 2025 | 3300 |

Casing/Cement Program: Additional Comments

13.375" Surf Casing: Cement w/390 sacks Prem Plus Cl C+addtvs w/yield=1.35 cu. ft/sack; circ cement to surf. If cement doesn't circ, will run temp surv to find actual TOC & run 1" tubing into annulus/pump cement as nec to achieve circ to surf. 9.625" Int Casing: Cement w/615 sacks 50:50 Poz:Prem Plus Cl C+additives w/yield=2.44 cu.ft/sack, tail w/200 sacks Prem Plus Cl C+additives w/yield=1.34 cu.ft/sack; circ cement to surf. If cement doesn't circ, will run temp surv to find actual TOC & run 1" tubing into annulus/pump cement as nec to achieve circ to surf. 5.5" Prod Casing: Cement w/1300 sacks 35:65 Poz:Prem Plus Cl H+additives w/yield=1.98 cu.ft./sack, tail w/725 sacks 15:61:11 Poz: Prem Plus Cl C:CSE-2+additives w/yield=1.51 cu.ft./sack; circ cement to planned 500' overlap inside 9-5/8" int casing shoe planned to be set @ 3800' for a TOC of 3300'.

Proposed Blowout Prevention Program

| · // | | - | 777 |
|-----------|------------------|---------------|--------------|
| Туре | Working Pressure | Test Pressure | Manufacturer |
| DoubleRam | 5000 | 5000 | |
| Hadril | 3000 | 3000 | (d) |

| 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 | OIL CONSERVATION DIVISION | | |
|---|---|--|--|
| NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan . | Approved By: Paul Kautz | | |
| Printed Name: Electronically filed by Michael Daugherty | Title: Geologist | | |
| Title: President | Approved Date: 11/13/2008 Expiration Date: 11/13/2010 | | |
| Email Address: ctracy@jdmii.com | | | |
| Date: 10/23/2008 Phone: 972-931-0700 | | | |

DISTRICT I 1895 M. Franch Re., Hobbs, 104 06346 DISTRICT II 1301 W. Grand Assesse, Arbeids, 104 06310

State of New Mexico Energy. Minerals and Natural Resources Department

Form C-102 Revised October 12, 2006

Submit to Appropriate District Office

State Louis - 4 Copies Fee Louis - 3 Copies

DISTRICT III 1000 Bio Brusses Ed., Astec, NM 87410

DISTRICT IV

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| APT | Number | | | Pool Code 350 | | lightower; | Pool Name | enn | | |
|----------------|---------|--------------|-------------|------------------|-----------------|------------------|---------------|----------------|-------------|--|
| Property (| Code | 1 | | | Property Nam | ne | | Vell Nu | Vell Number | |
| , | | | | | CAPROCK F | | | 1 | 1 | |
| OGRID N | D. | | | | Operator Nex | te | | Beval | ion | |
| 1530 | 3 | | | MURCH | IISON OIL & | GAS, INC. | | 423 | 8' | |
| | | | | | Surface Loc | ation | | | | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | |
| М | 26 | 12 S | 33 E | | 990 | SOUTH | 660 | WEST | LEA | |
| | · | | Bottom | Hole Loc | cation If Diffe | erent From Sur | face | | | |
| UL or lat No. | Section | Township | Rango | Lot Idn | Feet from the | North/South line | Foot from the | East/Vost line | County | |
| Dedicated Acre | Joint | or Infill Co | nsolidation | Code Or | der No. | <u> </u> | | <u> </u> | | |
| 40 | 1 | | | | | | | | | |

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

| UK A NUN-SIANI | | |
|--|-------------|---|
| | | OPERATOR CERTIFICATION I havely certify that the information centenned havein to true and complete to the best of my immulating and belief, and that this organization either wans a working interest or unhanced mineral interest in the lend including the proposed bottom hole location parament to a contract with an owner of such a mineral or working interest, or to a voluntary posting agreement or a compalarry posting agreement or a compalarry posting order hardingers undered by the objection. |
| | | Signature Date Printed Name |
| | | SURVEYOR CERTIFICATION I havely cartify that the well location shown on this plat was platfed from field notes of actual surveys made by see or under my |
| | | supervison and that the man is frue and carrect to the best of my belief. SEPTEMBET 12008 Date Survey of the service of the |
| SURFACE LOCATION LAT-N33"14'42.59" LONG-W103"35'27.97" SPC-N.: 817541.424 E.: 768258.969 (NAD 83) | | W. Sept. 8 Certificate No. Ggry L. Jones 7977 |
| | | BASIN SURVEYS |

Permit Comments

Operator: MURCHISON OIL & GAS INC , 15363

Well: CAPROCK FEE #001

API: 30-025-39248

| Created By | Comment | Comment Date |
|---------------|---|-----------------|
| IMSDANGHERLY | We respectfully request a variance for the 13-3/8" surf casing & BOP testing from Onshore Order No. 2, which states all casing strings below the conductor shall be pressure tested to 0.22 psi/ft. or 1500 psi, whichever is greater, but not to exceed 70% of the min internal yield. During the running of the surf casing & drilling of the int hole, we do not anticipate pressures greater than 1000 psi, & we are requesting a variance to test the 13-3/8" casing & BOP syst to 1000 psi and to use the rig pumps instead of an independent svc co. | 9/17/2008 |
| MSDAUGHERTY | May perform a two-stage cement job utilizing a DV tool if determined to be necessary to raise cement to the above described height. | 9/17/2008 |
| MSDAUGHERTY | Equivalent or adequate grades and weights of casing may be substituted at the time casing is run, depending on availability. | 9/17/2008 |
| MSDAUGHERTY | Rotary Drill. Closed Loop System (Form C-144 to follow). | 10/23/2008 |
| DMULL | OCD received form C-144 "Pit Registration". OCD Permit Number P1-00670. | 11/13/2008 |
| pkautz | Surface casing must be set 25' below top of Rustler Anhydrite | 11/13/2008 |