

**State of New Mexico**  
**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**

1. Operator Name and Address MURCHISON OIL & GAS INC 1100 MIRA VISTA BLVD. PLANO, TX 75093		2. OGRID Number 15363
		3. API Number 30-015-37325
4. Property Code 37854	5. Property Name STRONG	6. Well No. 004H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
J	34	24S	26E	J	2485	S	1980	E	EDDY

**8. Pool Information**

PJ;DELAWARE	50381
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**Additional Well Information**

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type Private	13. Ground Level Elevation 3291
14. Multiple N	15. Proposed Depth 4900	16. Formation Delaware	17. Contractor	18. Spud Date 10/1/2009
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> mls thick      Clay <input type="checkbox"/> Pit Volume:      bbls      Drilling Method: Closed Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

**19. Proposed Casing and Cement Program**

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	24	400	300	0
Prod	7.875	5.5	17	2450	320	0
Liner1	4.892	2.875	6.5	4900	0	

**Casing/Cement Program: Additional Comments**

8.625" Surf Casing: Cement w/ 300 sacks Prem Plus C1 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. 5.500" Prod. Casing: Cement w/ 210 sacks 35:65 Poz:Prem Plus C1 C+additives w/ yield=1.88 cu.ft./sack, tail w/ 110 sacks Prem Plus C1 C+additives w/ yield=1.33 cu./ft./sack; circ cement to surf. If cement does not circ, will run temp surv to find actual TOC and run 1" tubing into annulus pump cement as required to achieve circ to surf. Completion will be 5-1/2" x 2-7/8" open-hole, uncemented packer system from 2,350' to 4,900' TD.

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Blind	5000	3000	TBD
Pipe	5000	3000	TBD
Annular	5000	3000	TBD

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 NMOCD guidelines <input type="checkbox"/> a general permit <input type="checkbox"/> or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronically filed by Michael Daugherty	Approved By: Jacqueta Reeves
Title: President	Title: District Geologist
Email Address: ctracy@jdmii.com	Approved Date: 10/20/2009   Expiration Date: 10/20/2011
Date: 9/4/2009	Phone: 972-931-0700

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

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

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		Pool Code	Pool Name
Property Code	Property Name <b>STRONG</b>		Well Number 4-H
OGRID No.	Operator Name <b>MURCHISON OIL &amp; GAS, INC.</b>		Elevation 3291'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	34	24-S	26-E		2485	SOUTH	1980	EAST	EDDY

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
0	34	24-S	26-E		330	SOUTH	1980	EAST	EDDY
Dedicated Acres 80		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

<p>GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=426721.8 N X=517101.7 E</p> <p>LAT.=32.173163° N LONG.=104.278062° W</p> <p>BOTTOM HOLE LOCATION Y=424567.4 N X=517082.4 E</p>	<p>S.L.</p> <p>1980'</p> <p>GRID AZ - 180°30'39"</p> <p>HORZ. DIST. - 2155.1'</p> <p>2485'</p> <p>B.H.</p> <p>330'</p> <p>1980'</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>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.</p> <p>9/1/09 Date</p> <p>Signature A. Arnold Nall Printed Name</p> <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 belief.</p> <p>RONALD J. EIDSON AUGUST 12 2009 Date Surveyed Signature &amp; Seal of Professional Surveyor 8-26-09</p> <p>Certificate No. GARY EIDSON 12641 RONALD EIDSON 3239</p>
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## Permit Comments

Operator: MURCHISON OIL & GAS INC , 15363

Well: STRONG #004H

API: 30-015-37325

Created By	Comment	Comment Date
MSDAUGHERTY	We respectfully request a variance for the 8-5/8" 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 surf casing & drilling of the 8-5/8" hole, we do not anticipate pressures greater than 1000 psi & we are requesting a variance to test the 8-5/8" casing & BOP syst to 1000 psi and to use the rig pumps instead of an independent svc co.	8/28/2009
MSDAUGHERTY	Equivalent or adequate grades and weights of casing may be substituted at the time casing is run, depending on availability.	8/28/2009
MSDAUGHERTY	Rotary Drill. Closed Loop System (Form C-144 to follow).	8/28/2009