

**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 30-015-37264
4. Property Code 8132	5. Property Name OGDEN STATE	6. Well No. 005

**7. Surface Location**

UL - Lot O	Section 2	Township 25S	Range 26E	Lot Idn O	Feet From 825	N/S Line S	Feet From 1650	E/W Line E	County EDDY
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**8. Pool Information**

BLACK RIVER; DELAWARE, SOUTH	96451
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**Additional Well Information**

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3370
14. Multiple N	15. Proposed Depth 2100	16. Formation Delaware	17. Contractor	18. Spud Date 9/10/2009
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> mils 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	14.75	11.75	42	270	200	0
Int1	11	8.625	24	2000	400	0
Prod	7.875	2.875	6.5	2100	0	0

**Casing/Cement Program: Additional Comments**

11.750" Surf Casing: Cement w/ 200 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 surf to find actual TOC & run 1" tubing into annulus/pump cement as nec to achieve circ to surf. 8.625" Int1 Casing: Cement w/ 150 sacks 35:65 Poz:Prem Plus C1 C+additives w/ yield=1.98 cu.ft./sack, tail w/ 200 sacks Poz:Prem Plus C1 C+additives w/ yield=1.51 cu./ft./sack; circ cement to surf. If cement does not circ, will run temp surf to find actual TOC and run 1" tubing into annulus pump cement as required to achieve circ to surf. Completion will be open-hole from 2000' to 2100' beneath 8-5/8" csg.

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	1000	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>	
	Approved By: Jacqueta Reeves	
	Title: District Geologist	
	Approved Date: 9/14/2009	Expiration Date: 9/14/2011
	Printed Name: Electronically filed by Michael Daugherty Title: President Email Address: ctracy@jdmii.com Date: 8/26/2009 Phone: 972-931-0700	

DISTRICT I  
1626 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 OGDEN STATE	Well Number 5A
OGRID No.	Operator Name MURCHISON OIL & GAS, INC.	Elevation 3370'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	2	25 S	26 E		825	SOUTH	1650	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
Dedicated Acres 40	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

<div><p><u>SURFACE LOCATION</u> Lat - N 32°09'14.18" Long - W 104°15'38.11" NMSPCE- N 419745.966 E 563850.317 (NAD-83)</p><p>1650'</p><p>825'</p></div>	<div><p>OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained 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 pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p><p>8/20/09</p><p>Signature _____ Date _____</p><p>A. Arnold Nall Printed Name</p><p>SURVEYOR CERTIFICATION</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>Date Surveyed _____ Signature &amp; Seal of Professional Surveyor _____</p><p>Certificate No. Gary L. Jones 7977</p><p>BASIN SURVEYS</p></div>
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## Permit Comments

Operator: MURCHISON OIL & GAS INC , 15363

Well: OGDEN STATE #005

API: 30-015-37264

Created By	Comment	Comment Date
MSDAUGHERTY	We respectfully request a variance for the 11-3/4" 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 prod hole, we do not anticipate pressures greater than 1000 psi & we are requesting a variance to test the 11-3/4" casing & BOP syst to 1000 psi and to use the rig pumps instead of an independent svc co.	8/20/2009
MSDAUGHERTY	Equivalent or adequate grades and weights of casing may be substituted at the time casing is run, depending on availability.	8/20/2009
MSDAUGHERTY	Rotary Drill. Closed Loop System (Form C-144 to follow).	8/20/2009
JVREEVES	BOP needs to be tested by the service company.	9/14/2009
JVREEVES	Must use the min. grades and weights of casing if substitutions are made to Casing program.	9/14/2009