

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011
Permit 146379

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 30-015-40130
4. Property Code 30819	5. Property Name POLAR BEAR STATE COM	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
H	1	17S	28E	H	2260	N	150	E	EDDY

8. Pool Information

EMPIRE; GLORIETA-YESO	96210
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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 3668
14. Multiple N	15. Proposed Depth 3950	16. Formation Paddock	17. Contractor	18. Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	352	210	0
Prod	8.75	7	26	3851	727	0
Liner1	6.125	4.5	11.6	8483	0	

Casing/Cement Program: Additional Comments

100% excess cement will be used on all sections; circulate cement to surface.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	Shaffer
DoubleRam	3000	3000	Shaffer

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
Printed Name: Electronically filed by Michael Daugherty	Approved By: Randy Dade
Title: COO	Title: District Supervisor
Email Address: ccottrell@jdmii.com	Approved Date: 4/12/2012 Expiration Date: 4/12/2014
Date: 3/30/2012 Phone: 972-931-0700	Conditions of Approval Attached

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Form C-102
August 1, 2011
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WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-40130	2. Pool Code 96210	3. Pool Name EMPIRE; GLORIETA-YESO
4. Property Code 30819	5. Property Name POLAR BEAR STATE COM	6. Well No. 004H
7. OGRID No. 15363	8. Operator Name MURCHISON OIL & GAS INC	9. Elevation 3668

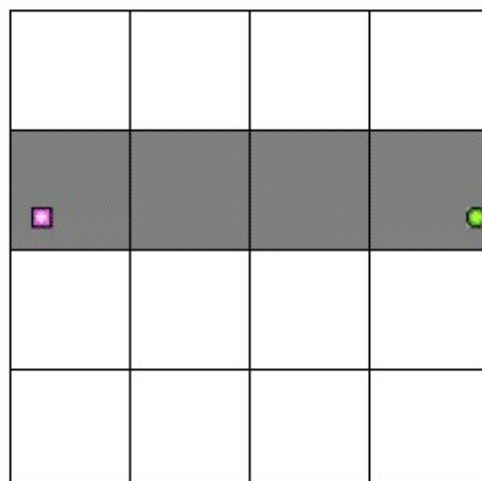
10. Surface Location

UL - Lot H	Section 1	Township 17S	Range 28E	Lot Idn	Feet From 2260	N/S Line N	Feet From 150	E/W Line E	County EDDY
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11. Bottom Hole Location If Different From Surface

11. Bottom Hole Location If Different From Surface									
UL - Lot E	Section 1	Township 17S	Range 28E	Lot Idn E	Feet From 2260	N/S Line N	Feet From 330	E/W Line W	County EDDY
12. Dedicated Acres 160.00		13. Joint or Infill		14. Consolidation Code		15. 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



OPERATOR CERTIFICATION

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(s) or has a right to drill this well at this 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.

E-Signed By: Michael Daugherty
Title: COO
Date: 3/30/2012

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.

Surveyed By: Filimon Jaramillo
Date of Survey: 3/27/2012
Certificate Number: 12797

Permit Comments

Operator: MURCHISON OIL & GAS INC , 15363

Well: POLAR BEAR STATE COM #004H

API: 30-015-40130

Created By	Comment	Comment Date
CSHAPARD	Land s/S	4/2/2012
CSHAPARD	APD will be approved with hard copy due to acreage overlap requirement.	4/2/2012

Permit Conditions of Approval

Operator: MURCHISON OIL & GAS INC , 15363

Well: POLAR BEAR STATE COM #004H

API: 30-015-40130

OCD Reviewer	Condition
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string