

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 152648

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 30-015-40585
4. Property Code 30819	5. Property Name POLAR BEAR STATE COM	6. Well No. 005H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	1	17S	28E	1	1130	N	250	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 3648
14. Multiple N	15. Proposed Depth 3929	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	3826	730	0
Liner1	6.125	4.5	11.6	8372	0	

Casing/Cement Program: Additional Comments

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 NMOCD guidelines <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	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: 8/8/2012	Expiration Date: 8/8/2014
Date: 8/7/2012	Phone: 972-931-0700	

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 96210	³ Pool Name Empire; Glorieta-Yeso
⁴ Property Code 30819	⁵ Property Name POLAR BEAR	⁶ Well Number 5H
⁷ OGRID No. 15363	⁸ Operator Name MURCHISON OIL & GAS, INC.	⁹ Elevation 3647.8

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	1	17 S	28 E		1130	NORTH	250	EAST	EDDY

¹¹ 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
4	1	17 S	28 E		970	NORTH	330	WEST	EDDY

¹² Dedicated Acres 158.72	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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>S89°10'36"W 2678.89 FT</p> <p>NW CORNER SEC. 1 LAT. = 32°52'19.647"N LONG. = 104°08'19.413"W</p> <p>LOT 4 - 40.37 AC</p> <p>330' - BOTTOM OF HOLE</p> <p>BOTTOM OF HOLE LAT. = 32°52'10.130"N LONG. = 104°08'15.268"W</p> <p>COMPUTED</p> <p>SW CORNER SEC. 1 LAT. = 32°51'27.605"N LONG. = 104°08'18.002"W</p> <p>S/4 CORNER SEC. 1 LAT. = 32°51'27.721"N LONG. = 104°07'47.371"W</p> <p>N89°38'07"E 2613.47 FT</p>		<p>S89°10'48"W 2681.02 FT</p> <p>N/4 CORNER SEC. 1 LAT. = 32°52'19.977"N LONG. = 104°07'48.012"W</p> <p>LOT 1 - 40.65 AC</p> <p>1130' - SURFACE LOCATION</p> <p>POLAR BEAR 5H ELEV. = 3647.8' LAT. = 32°52'09.095"N (NAD83) LONG. = 104°07'19.566"W</p> <p>E/4 CORNER SEC. 1 LAT. = 32°54'54.063"N LONG. = 104°07'16.701"W</p> <p>N89°38'18"E 2611.60 FT</p>		<p>¹⁷ 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 undivided 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order as informed by the division.</p> <p><i>Michael S. Daugherty</i> 8/7/12 Signature Date</p> <p>Michael S. Daugherty Printed Name</p> <p>mdaugherty@jdmii.com E-mail Address</p> <p>¹⁸ 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>AUGUST 8, 2012 Date of Survey</p> <p><i>[Signature]</i> Signature and Seal of Professional Surveyor</p> <p>Certificate Number: ELMON F. JARAMILLO, PLS 12797 SURVEY NO. 1213A</p>	
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Permit Comments

Operator: MURCHISON OIL & GAS INC , 15363

Well: POLAR BEAR STATE COM #005H

API: 30-015-40585

Created By	Comment	Comment Date
CSHAPARD	Land s/S	8/1/2012
CSHAPARD	Revise BHL; Reject APD	8/1/2012