

**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 166097

**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
4. Property Code 8127		3. API Number 30-025-41140
5. Property Name JACKSON UNIT		6. Well No. 021H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	21	24S	33E	P	200	S	970	E	LEA

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	21	24S	33E	A	330	N	970	E	Lea

**9. Pool Information**

TRIPLE X;BONE SPRING, WEST	96674
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3534
16. Multiple N	17. Proposed Depth 11127	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 10/1/2013
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	16	13.375	54.5	1480	800	0
Int1	12.25	9.625	40	5184	1375	0
Prod	8.5	7	26	10920	700	4000
Liner1	6.125	4.5	11.6	14980	400	10820

**Casing/Cement Program: Additional Comments**

Cement with 50% excess and circulate to surface on surface casing and intermediate casing. Cement with 50% excess on production casing to bring TOC to 4000' MD. Cement liner with 25% excess to bring TOC to 10820' MD.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	Schaffer
DoubleRam	5000	5000	Schaffer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature:	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronically filed by Michael Daugherty Title: COO	Approved By: Paul Kautz Title: Geologist
Email Address: ccottrell@jdmii.com Date: 4/24/2013	Approved Date: 4/25/2013   Expiration Date: 4/25/2015 Conditions of Approval Attached

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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

<sup>1</sup> API Number	<sup>2</sup> Pool Code 96674	<sup>3</sup> Pool Name Triple X, Bone Spring, West
<sup>4</sup> Property Code 8127	<sup>5</sup> Property Name JACKSON UNIT	<sup>6</sup> Well Number 21H
<sup>7</sup> OGRID No. 15363	<sup>8</sup> Operator Name MURCHISON OIL & GAS, INC.	<sup>9</sup> Elevation 3534.2

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	21	24 S	33 E		200	SOUTH	970	EAST	LEA

<sup>11</sup> 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
A	21	24 S	33 E		330	NORTH	970	EAST	LEA

<sup>12</sup> Dedicated Acres 160	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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>N89°40'20"E 2640.15 FT</p> <p>COMPUTED USING NMDOT ROW MAP HWY 128 DATED JULY 8, 2008</p> <p>N/4 CORNER SEC. 21 COMPUTED</p> <p>BOTTOM OF HOLE</p> <p>330'</p> <p>970'</p> <p>COMPUTED USING NMDOT ROW MAP HWY 128 DATED JULY 8, 2008</p> <p>350'</p> <p>W/4 CORNER SEC. 21 LAT. = 32°12'11.327"N LONG. = 103°35'08.807"W</p> <p>NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) IN DEGREES MINUTES DECIMAL SECONDS FORMAT. BASIS OF BEARING IS NEW MEXICO STATE PLANE EAST (NAD83) COORDINATES MODIFIED TO SURFACE.</p> <p>E/4 CORNER SEC. 21 LAT. = 32°12'14.212"N LONG. = 103°34'07.372"W</p> <p>JACKSON UNIT #21H ELEV. = 3534.2' LAT. = 32°11'47.095"N (NAD83) LONG. = 103°34'18.663"W</p> <p>SE CORNER SEC. 21 LAT. = 32°11'45.091"N LONG. = 103°34'07.372"W</p> <p>SURFACE LOCATION</p> <p>200'</p> <p>970'</p> <p>SW CORNER SEC. 21 LAT. = 32°11'45.204"N LONG. = 103°35'08.794"W</p> <p>S/4 CORNER SEC. 21 LAT. = 32°11'45.157"N LONG. = 103°34'38.093"W</p> <p>S89°42'11"W 2638.65 FT</p> <p>S89°44'22"W 2639.89 FT</p> <p>N00°25'16"W 2634.92 FT</p> <p>N00°25'22"W 2640.40 FT</p> <p>S00°24'28"E 2639.66 FT</p> <p>S00°23'51"E 2640.18 FT</p>	<p><b><sup>17</sup> OPERATOR CERTIFICATION</b></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 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.</p> <p><i>Michael S. Daugherty</i> 4/24/13 Signature Date</p> <p>Michael S. Daugherty, COO Printed Name</p> <p>msdaugherty@jdmii.com E-mail Address</p> <p><b><sup>18</sup> 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>MARCH 25, 2013 Date of Survey</p> <p><i>Filimon P. Jaramillo</i> Signature and Seal of Professional Surveyor</p> <p>Certificate Number: FILIMON P. JARAMILLO, PLS 12797 SURVEY NO. 1659</p>
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## Permit Comments

Operator: MURCHISON OIL & GAS INC , 15363

Well: JACKSON UNIT #021H

API: 30-025-41140

Created By	Comment	Comment Date
pkautz	Land s/S	4/25/2013
CHERRERA	OCD RECEIVED FORM C144 CLEZ. OCD PERMIT # P1-08109	4/25/2013

## Permit Conditions of Approval

Operator: MURCHISON OIL & GAS INC , 15363

Well: JACKSON UNIT #021H

API: 30-025-41140

OCD Reviewer	Condition
pkautz	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
pkautz	In order to seal off protectable water, surface casing must be set 25' below top Rustler Anhydrite.