

**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 164433

**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 30-025-41167
5. Property Name JACKSON UNIT		6. Well No. 016H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	15	24S	33E	B	200	N	2485	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
O	15	24S	33E	O	330	S	2290	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 3611
16. Multiple N	17. Proposed Depth 11200	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	1250	800	0
Int1	12.25	9.625	40	5160	1375	0
Prod	8.75	7	26	10920	700	4000
Liner1	6.125	4.5	11.6	15600	400	10820

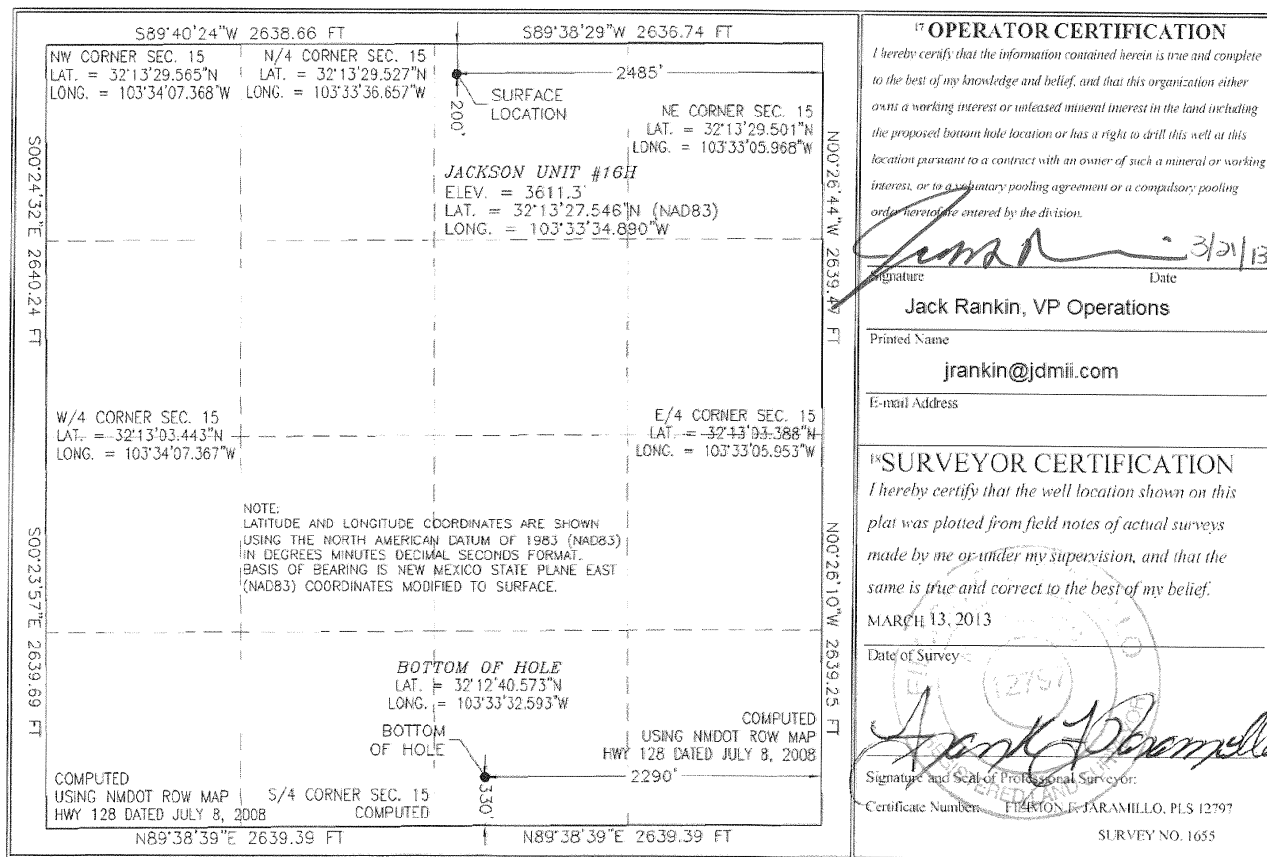
**Casing/Cement Program: Additional Comments**

Cement with 35% 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	Approved By: Paul Kautz
Title: COO	Title: Geologist
Email Address: ccottrell@jdmii.com	Approved Date: 5/9/2013   Expiration Date: 5/9/2015
Date: 5/9/2013   Phone: 972-931-0700	Conditions of Approval Attached



## Permit Comments

Operator: MURCHISON OIL & GAS INC , 15363

Well: JACKSON UNIT #016H

API: 30-025-41167

Created By	Comment	Comment Date
pkautz	Land s/S	5/9/2013
CHERRERA	OCD RECEIVED FORM C144 CLEZ. OCD PERMIT# P1-06185	5/9/2013

## Permit Conditions of Approval

Operator: MURCHISON OIL & GAS INC , 15363

Well: JACKSON UNIT #016H

API: 30-025-41167

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