

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-8161 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) 334-8178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3482

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 191413

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 30-025-42076
5. Property Name JACKSON UNIT		6. Well No. 033H

7. Surface Location

UL - Lot	B	Section	16	Township	24S	Range	33E	Lot Idn	B	Feet From	90	N/S Line	N	Feet From	1508	E/W Line	E	County	Lea
----------	---	---------	----	----------	-----	-------	-----	---------	---	-----------	----	----------	---	-----------	------	----------	---	--------	-----

8. Proposed Bottom Hole Location

UL - Lot	O	Section	16	Township	24S	Range	33E	Lot Idn	O	Feet From	330	N/S Line	S	Feet From	1670	E/W Line	E	County	Lea
----------	---	---------	----	----------	-----	-------	-----	---------	---	-----------	-----	----------	---	-----------	------	----------	---	--------	-----

9. Pool Information

TRIPLE X;BONE SPRING, WEST	96674
----------------------------	-------

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3618
16. Multiple N	17. Proposed Depth 14720	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 10/15/2014
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	16	13.375	54.5	1300	700	0
Int1	12.25	9.625	40	5200	1300	0
Prod	8.5	7	26	9500	900	0
Prod	8.5	4.5	11.6	14720	1200	0

Casing/Cement Program: Additional Comments

--

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	Schaffer
Double Ram	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 ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Michael Daugherty	Approved By: Paul Kautz
Title: COO	Title: Geologist
Email Address: ccottrell@jdmii.com	Approved Date: 8/27/2014 Expiration Date: 8/27/2016
Date: 8/27/2014 Phone: 972-931-0700	Conditions of Approval Attached

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) 7-8-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 374-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 96674	³ Pool Name Triple X, Bone Spring, West
⁴ Property Code 8127	⁵ Property Name JACKSON UNIT	⁶ Well Number 33H
⁷ OGRID No. 15363	⁸ Operator Name MURCHISON OIL & GAS, INC.	⁹ Elevation 3617.8

¹⁰ Surface Location

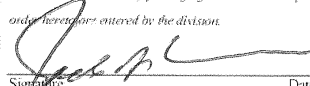
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	16	24 S	33 E		90	NORTH	1508	EAST	LEA

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
O	16	24 S	33 E		330	SOUTH	1670	EAST	LEA

¹² Dedicated Acres 160	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.

N89°44'57"E 2639.61 FT NW CORNER SEC. 16 LAT. = 32°13'29.702"N LONG. = 103°35'08.843"W N/4 CORNER SEC. 16 LAT. = 32°13'29.634"N LONG. = 103°34'38.121"W JACKSON UNIT #33H ELEV. = 36°7.8' LAT. = 32°13'28.713"N (NAD83) LONG. = 103°34'24.920"W NE CORNER SEC. 16 LAT. = 32°13'29.565"N LONG. = 103°34'07.368"W W/4 CORNER SEC. 16 LAT. = 32°13'03.675"N LONG. = 103°35'08.821"W E/4 CORNER SEC. 16 LAT. = 32°13'03.443"N LONG. = 103°34'07.367"W 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. BOTTOM OF HOLE LAT. = 32°12'40.615"N LONG. = 103°34'26.805"W SE CORNER SEC. 16 LAT. = 32°12'37.335"N LONG. = 103°34'07.379"W SW CORNER SEC. 16 LAT. = 32°12'37.404"N LONG. = 103°35'08.838"W S/4 CORNER SEC. 16 LAT. = 32°12'37.404"N LONG. = 103°35'08.838"W SCALED S89°44'20"W 2640.15 FT		N89°44'44"E 2642.23 FT 1508' SURFACE LOCATION 90' 500°24'32"E 2640.24 FT 500°23'57"E 2639.69 FT 1670' 1670' S89°44'20"W 2640.15 FT	17 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 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 compressor pooling order heretofore entered by the division.  8/25/14 Signature Date Jack Rankin Printed Name jrankin@jdmii.com E-mail Address 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plan 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. APRIL 4, 2014 Date of Survey  Signature and Seal of Professional Surveyor Certificate Number: FLS MON R. JARAMILLO, PLS 12797 SURVEY NO. 2629		

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-8161 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) 476-3482

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

Form APD Comments

Permit 191413

PERMIT COMMENTS

Operator Name and Address: MURCHISON OIL & GAS INC [15363] 1100 Mira Vista Blvd. Plano, TX 75093	API Number: 30-025-42076
	Well: JACKSON UNIT #033H

Created By	Comment	Comment Date
------------	---------	--------------

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-8161 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) 476-3482

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

Form APD Conditions

Permit 191413

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MURCHISON OIL & GAS INC [15363] 1100 Mira Vista Blvd. Plano, TX 75093	API Number: 30-025-42076
	Well: JACKSON UNIT #033H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
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	If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well.
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement.
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water