

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) 334-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico**Energy Minerals and Natural Resources****Oil Conservation Division**

1220 South St. Francis Dr.

Santa Fe, NM 87505

NEW OIL CONSERVATION

ARTESIA DISTRICT

Form C-101
Revised July 18, 2013

MAR 02 2018 ☐ AMENDED REPORT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Murchison Oil & Gas, Inc. 7250 Dallas Parkway, Ste. 1400, Plano, TX 75024		2. OGRID Number 15363
3. API Number 30-015-34206		4. Property Code 34953
5. Property Name Mudcat State Com		6. Well No.

7. Surface Location

UL - Lot P	Section 11	Township 17-S	Range 28-E	Lot Idn	Feet from 1300	N/S Line SOUTH	Feet From 810	E/W Line EAST	County EDDY
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8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
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9. Pool Information

Pool Name ANDERSON; WOLFCAMP, NORTH	Pool Code 97183 <input checked="" type="checkbox"/>
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Additional Well Information

PAVO Mesa Abo

97575 ☒

11. Work Type A	12. Well Type O	13. Cable/Rotary	14. Lease Type S	15. Ground Level Elevation 3579
16. Multiple	17. Proposed Depth 9,980 PB; 10,403 TD	18. Formation Abo/Wolfcamp	19. Contractor	20. Spud Date 10/20/2005
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	17.5	13.375	68	222	235	0
INT	12.25	9.625	43.5	2208	1200	0
PROD	8.5	5.5	17	10403	2666	0

Casing/Cement Program: Additional Comments

EXISTING CASING & CEMENT SHOWN; NO ADDITIONAL FOOTAGE WILL BE DRILLED. RECOMPLETION PROCEDURE ATTACHED.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.
Signature: *[Signature]*

Printed name: GARY R. COOPER
Title: VICE PRESIDENT OPERATIONS
E-mail Address: rcooper@jdmii.com
Date: 02/28/2018
Phone: 972-931-0700

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date: 3-13-2018

Expiration Date: 3-13-20

Conditions of Approval Attached

Apply for Commingle Abo-WFMP.

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1301 W. Grand Avenue, Artesia, NM 88210

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1005 Rio Brazos Rd., Aztec NM 87410

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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

NEW MEXICO OIL CONSERVATION DIVISION
ARTESIA DISTRICT

MAR 02 2005

Form C-102
Revised June 10, 2003
Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

RECEIVED

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-34206		Pool Code 97183	Pool Name ANDERSON; WOLFCAMP, NORTH
Property Code 34953	Property Name MUD CAT STATE COM		Well Number 1
OGRID No. 15363	Operation Name MURCHISON OIL & GAS, INC.		Elevation 3579

Surface Location

UL or Lot No. P	Section 11	Township 17-S	Range 28-E	Lot Idn.	Feet from the 1300	North/South line SOUTH	Feet from the 810	East/West line EAST	County EDDY
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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
Dedicated Acres 40		Joint or Infill	Consolidation Code	Order No.					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST 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.

Signature

Printed Name

Gary R. Cooper

Title and E-mail Address

VP Operations, rcooper@jdmii.com

Date

2/28/2018

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 KNOWLEDGE AND BELIEF.

LAT N32°50'47.4"
LON W104°08'28.5"

JUNE 28, 2005

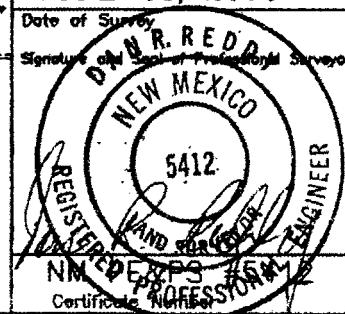
Date of Survey

Signature of Registered Professional Surveyor

Spacing Unit →

810'

1300'



Office
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State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-34206
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Murchison Oil & Gas, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator 7250 Dallas Parkway, Ste. 1400, Plano, TX 75024		7. Lease Name or Unit Agreement Name Mudcat State Com
4. Well Location Unit Letter P : 1300 feet from the S line and 810 feet from the E line Section 11 Township 17S Range 28E NMPM County Eddy		8. Well Number 1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3579' GL		9. OGRID Number 15363
		10. Pool name or Wildcat Anderson; Wolfcamp, North

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL. <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: Abandon Existing Zone and Add Perforations <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Murchison Oil & Gas respectfully requests permission to abandon the existing Morrow perforations and add perforations to the wellbore in the Abo and Wolfcamp as described in the attached.

See Changes to Procedure

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 13 2018

RECEIVED

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Cindy Cottrell* TITLE Regulatory Coordinator DATE March 13, 2018

Type or print name Cindy Cottrell E-mail address: ccottrell@jdmii.com PHONE: 972-931-0700

For State Use Only

APPROVED BY: *[Signature]* TITLE Staff Mgr DATE 3-21-18
Conditions of Approval (if any):

MURCHISON OIL & GAS INC.

Mudcat State Com #1

1300 FSL, 810 FEL

Sec 11 T17S, R28E

Eddy County, NM

Recompletion Procedure

The subject well is completed in the Morrow and is currently uneconomical to produce. The existing perfs will be abandoned and the well will be recompleted with the Wolfcamp and Abo commingled.

Casing: Surface – 13 3/8", 68#, K55 @ 222' w/ cmt circ
Intermediate - 9 5/8", 43.5#, L80 @ 2,208' w/ cmt circ
Production - 5 1/2", 17#, N80 & P110 @ 10,403' w/ cement circulated to surface

Tubing:

2 3/8", 4.7#, L80 EUE Mod w/ Arrow Set 1 packer set at 10,003'

Existing perfs:

Morrow – 10146'-10132', 10124'-10119', 10116'-10108'

Proposed perfs:

Wolfcamp – 7510'-7530', 7280'-7290'; Abo – 6790'-6895'

PROCEDURE:

1. Notify OCD of activities.
2. MIRU service rig.
3. TOH with tubing and packer. *10008*
4. RU wireline and set 10m CBP at *10008*'. And dump bail *28'* cement on plug.
5. Perforate Wolfcamp 7510'-7530' w/ 2spf and 7280'-7290' w/1spf.
6. Trip in hole w/ packer and set at 7200'.
7. Acidize WFC and ball out w/ bio balls. Shut down frac and wait for degradation of bio balls.
8. Frac Wolfcamp with 150,000# 20/40 sand.
9. Set CBP at 6950'.
10. Perforate Abo 6790'-6895' w/ 2spf.
11. Trip in hole w/ packer and set at 6700'.
12. Acidize Abo and ball out w/ bio balls. Shut down frac and wait for degradation of bio balls.
13. Frac Abo with 400,000# 20/40 sand.
14. Drill out CBP and clean out wellbore.
15. TIH with pumping assy, swab well to evaluate
16. Run pump and rods and return well to production.

35' class H cmt WOC + Tns

PROPOSED WELLBORE DIAGRAM

Mudcat State Com 1

30-015-34206

TAC: 6600'

Abo Formation

6895'-6790' 105' w/ 2spf 210 holes

SN: 7200'

Wolfcamp formation

7,530'-7,510' 30' w/ 2spf 40 holes

7,290-7,280' 10' w/ 1spf 10 holes

CIBP@ 10,000' w/ 20 ft cmt on top

Morrow Formation

