HIM OIL CONSERVATION

State of New Mexico

ARTESIA DISTRICT

Form C-101

Energy Minerals and Natural Resources MAR 26 2018

Revised July 18, 2013

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

District I

Oil Conservation Division 1220 South St. Francis Dr.

X AMENDED REPORT RECEIVED

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Santa Fe, NM 87505

Phone: (505) 476	·	,											
APPLI	APPLICATION FOR PERMIT TO DRILL, RE-EN Operator Name and Address							ITER, DEEPEN, PLUGBACK, OR ADD A ZONE OGRID Number					
Murchison Oil & Gas, Inc.								15363	15363				
7250 Dallas Parkway, Ste. 1400, Plano, TX 75024							30-015-32535						
4. Prop	erty Code	30819	Polar Bear S	State Co	? Property N								
					7. Surface Lo	cation							
UL - Lot E	Section 1	Township 17-S	Range 28-E	4	Lot Idn Feet from 1986		N/S Line ORTH	Feet From 1270	E/W Line WEST	County EDDY			
				* Pı	roposed Bottor	n Hole La	ocation						
UL - Lot	Section	Township	Range	Lot Idn Feet		om	N/S Line	Feet From	E/W Line	County			
					9. Pool Inform	mation							
			ANDE	RSON;	Pool Name WOLFCAM	IP, NORTH				Pool Code 97183			
				Ad	ditional Well I	nformatio	o n	_					
	P 12. Well Type O				^{13.} Cable/R					15 Ground Level Elevation 3609			
^{16.} M	16 Multiple 17 Proposed Depth				18. Forma					20. Spud Date			
Depth to Grou	Depth to Ground water 9,980 PB; 10,320 TD Wolfd Distance from nearest fresh water												
☐We will b	e using a	closed-loo	p system in lieu o	of lined pi	its	· · · · · · · · · · · · · · · · · · ·		 _					
			21.	Propos	ed Casing and	Cement l	Program						
Туре	Hol	e Size	Casing Size Casing Weight/ft			Setting Depth		Sacks of (Cement	Estimated TOC			
SURF	17	.5	13.375		68		233	435		0			
INT	T 12.25		9.625 47		7	2455		1550)	0			
PROD	PROD 8.5 5.		5.5				10320 150			0 4956			
DAMAGE 16	CAODIC	0.000.00			ent Program: A								
EXISTING	CASING	& CEME						D. RECOMPLETI	ON PROCE	DURE ATTACHED.			
			22.	Propos	ed Blowout Pr	evention	Program			 			
Туре				Working P	ressure	Test Pressure		sure	Manufacturer				
						<u> </u>			<u> </u>				
23. I hereby o	artific that t	he informat	ion given above is	true and co	omplete to the	T	 						
^{23.} I hereby certify that the information given above is true and complete to the best of my knowledge and belief.						OIL CONSERVATION DIVISION							
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:						Laymond W. Today							
Printed name	Printed name: GARY R. COOPER							Title: Gracologist					
Title: VICE PRESIDENT OPERATIONS							Approved Date: 3-30-18 Expiration Date: 3-30-20						
E-mail Addre	ess: rcoo	per@jdmi	i.com										
Date: 03/22/2018 Phone: 972-931-0700							Conditions of Approval Attached						

MURCHISON OIL & GAS INC.

Polar Bear State Com #1

1980 FNL, 1270 FWL

Sec 1 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 in the Wolfcamp.

<u>Casing:</u> Surface – 13 3/8", 68#, K55 @ 233' w/ cmt circ

Intermediate - 9 5/8", 47#, N80 @ 2,455' w/ cmt circ

Production - 5 1/2", 17#, N80 & P110 @ 10320' w/ TOC @ 4,956' CBL

Tubing:

2 3/8", 4.7#, L80 EUE Mod w/ Arrow Set 1 packer set at 9,978'

Existing perfs:

Morrow - 10136'-10127', 10124'-10120', 10103'-10075', 10072'-10068'

Proposed perfs:

Wolfcamp ~ 7330'-7340', 7470'-7475', 7575'-7595', 6815'-6885' and 6930'-6945'

PROCEDURE:

- 1. Notify OCD of activities.
- 2. MIRU service rig.
- 3. TOH with tubing and packer.
- 4. RU wireline and set 10m CIBP at 10,000'. Dump bail 20' cement on plug for T&A of Morrow zone.
- 5. Perforate 7330'-7340', 7470'-7475'w/ 1spf and 7575'-7595' w/2spf.
- 6. Trip in hole w/ packer and set at 7200'
- 7. Acidize and ball out w/ bio balls. Shut down frac and wait for degradation of bio balls.
- 8. Frac with 150,000# 20/40 sand.
- 9. Set CBP at 6980'.
- 10. Perforate 6815'-6885', 6930'-6945' w/ 2spf.
- 11. Trip in hole w/ packer and set at 6700'.
- 12. Acidize and ball out w/ bio balls. Shut down frac and wait for degradation of bio balls.
- 13. Frac with 300,000# 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.

PROPOSED WELLBORE DIAGRAM

Polar Bear St Com #1 30-015-32535

TAC: 6700'

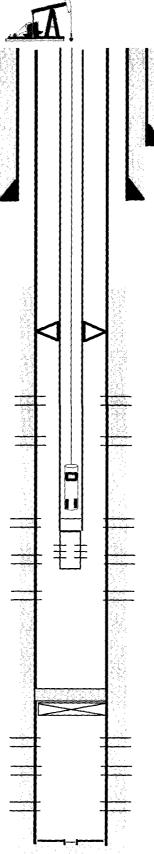
Wolfcamp Formation 6885'-6815' 70' w/ 2spf 140 holes

6945'-6930' 15' w/ 2spf 30 holes

SN: 7200' 7340'-7330' 10' w/ 1spf 20 holes 7475'-7470' 5' w/ 1spf 5 holes 7595'-7575' 20' w/ 2spf 40 holes

CIBP@ 10000' w/ 20 ft cmt on top

Morrow Formation



HM OIL CONSERVATION OZ

District 1 1625 H. Franch Or. Hobbs, NM B8240

District II 811 South First, Artesia, NM 88210

District #1 1000 Rio Brozos Rd., Aztec NH 87410

District IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, N M 87505 ARTESIA DISENSET March 17, 1998
Submit to Appropriate District Office
MAR 2 6 Spot 8 8 as - 4 Copies
Fee Legse - 3 Copies

RECEIVED

X AMENDED REPORT

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WELL LOCATION AND ACREAGE DEDICATION PLAT												
API Number Pool Code 97183					ANDERSON; WOLFCAMP, NORTH							
Property Code 30819				P	Property No OLAR BE	AR STAT		Well Number				
0GRID No. 15363			1	MUR	Operation N CHISON	OIL & G		Elevation 3609				
			Su	rface Loc	ation							
UL or Lot No. Section E' 1	1	ownship 17-S	Range 28-	E	Lot Idn.	Feet from the 1980	North/South time	Feet from the 1270	East/West line WEST	County EDDY		
<u> </u>	Rattam	Hale		Location If Different From Surface					<u> </u>			
UL or Lot No. Section	Ť	Township Ronge			Lot kin.	Feet from the	North/South line		East/West line	County		
Dedicated Acres Joint	or Infill	Consolidation	n Code	Ord	er No.	<u> </u>		L	alier maar tiisseeri, seeri geeri aanisti, eestis de			
NO ALLOWABLE CONSOLIDATED										BEEN		
1270'	1980	- Spacing	g Unit					Signature Printed None Title Vice Date 2 SURVEY I HEREST ON MY PREST OF MY NOVE Date of Su	HIS PLAT WAS 1 OF ACTUAL SU STRUCK AND COLUMN AND COLUM	TOPORMATION FOR TO THE TO BELLEY. Cooper Operations IFICATION E WELL LOCATION FOR THE THOM AND THAT FOR THE TO THE TO BELLEY. 3. 2002		
						1			PE&PS de ROHESEN	WE 12		