District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410

State of New Mexico

Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources ARVESIA OUSTRA

Oil Conservation Division

MAR 9.3 ? Mamended report

1220 South St. Francis Dr.

RECEIVED

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

Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

Santa Fe, NM 87505

APPLI	CATIC	N FOI	R PE	RMIT T	O DI	RILL, F	RE-EN	TER, D	EEPEN,	PLUGBAC	K, OR A	DD A ZONE	
Murc	hison C)il & G		erator Name	and Add	iress					OGRID N		
1			•	c. . 1400, P	lano.	TX 750	024			, , , , , ,	15363 API Nur	nber	
	arta Cada	30819	_	ar Bear S		J. 10	roperty N	ame		_1	30-015-3 	Well No.	
L	3	00819	Pol	ar bear S	tate		face Lo	cation			<u>!</u>		
UL - Lot	Section	Township	,	Range	Lo	t Idn	Feet fro		N/S Line	Feet From	E/W Line	County	
E	1	17-S		28-E			1980		ORTH	1270	WEST	1	
	,	,			8.]	Proposed	Botton	n Hole Lo	cation				
UL - Lot	Section	Township		Range	Lo	ot Idn	Feet fro	om :	N/S Line	Feet From	E/W Line	e County	
<u> </u>						9. Poo	l Inforn	nation	<u>.</u>		l		
				ANIDEI	DCON	Pool Na	Pool Code						
<u></u>				ANDE					DAI	10 Mesa	AND	97183 97575	
Additional Well Information '												Ground Level Elevation	
A O 16. Multiple 17. Proposed Depth								•		S		3609	
^{16.} M	ultiple	0 0		oposed Depth 3; 10,320		Abo	18. Format O/Wolf		1	19. Contractor	^{20.} Spud Date		
Depth to Grou	und water	12,2	00 F L			n nearest fre				Distance	to nearest sur	12/18/2002 face water	
<u></u>				<u></u>		· · · · · ·							
We will b	e using a	closed-loc	p syste	em in lieu o		-							
				21.	Propo	sed Casi	ing and	Cement P	rogram			Y	
Туре					Casing Weight/ft			Setti	ng Depth	Sacks of	Cement	Estimated TOC	
SURF	17	.5	13.3	375	<u> </u>	58		2	233	435	5	0	
INT	12	.25	9.6	525	-	47		24	155	1550)	0 .	
PROD	PROD 8.5 5.5 17							<u> </u>	320)	4956		
							·		Comment				
EXISTING	CASING	& CEME	NTSH	OWN; NO	ADDI	TIONAL	FOOTAG	GE WILL B	E DRILLED	RECOMPLETI	ON PROCI	EDURE ATTACHED.	
		,		22.	Propo	sed Blov	vout Pre	evention F	rogram				
Туре					Working	Pressure			Test Press	sure		Manufacturer	
								<u> </u>					
		····						···		·····			
^{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 cer	tify that I	have com		th 19.15.14.	9 (A) N	MAC 🗌 a	ınd/or	Approved	Bv.				
19.15.14.9 (I Signature:	B) NMAC	, if appl	licable.	to la))	126	2/		
Drives d name	GARY	R COOL	OFR OFR					Title	mym	one of so	orany		
Printed name: GARY R. COOPER Title: VICE PRESIDENT OPERATIONS								Title: 6706/09:37 Approved Date: 3-12-18					
E-mail Addre		per@jdm						Approved	Date. 3-7	5-10 I	Apriation Da	uc. 0 / 0 0 0	
	28/2018			hone: 972	-931-0	700		Conditions	of Approval	Attached	-		
			L <u>.</u>			, 00			P P				

Commingle AboWFMP

Office		ew iviexico		Form C-103
District I – (575) 393-6161	Energy, Minerals as	nd Natural Resource	es	Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.	į
<u>District II</u> - (575) 748-1283	OIL CONSERVA	ATION DIVISION	30-015-3253	J5
811 S. First St., Artesia, NM 88210			5. Indicate Type of	Lease
<u>District III</u> - (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410		St. Francis Dr.	STATE 🛛	FEE
District IV - (505) 476-3460	Santa Fe,	NM 87505	6. State Oil & Gas I	ease No.
1220 S. St. Francis Dr., Santa Fe, NM				
87505				
i e	ICES AND REPORTS ON			Init Agreement Name
(DO NOT USE THIS FORM FOR PROPO			Polar Bear State	Com
DIFFERENT RESERVOIR. USE "APPLI PROPOSALS.)	CATION FOR PERMIT" (FORM	C-101) FOR SUCH		
1. Type of Well: Oil Well	Gas Well Other		8. Well Number 1	
	das well Other		9. OGRID Number	15262
2. Name of Operator			9. OGRID Number	15363
Murchison Oil & Gas, Inc.			10 P1	7:1.1 4
3. Address of Operator	00 101 1717 85004		10. Pool name or W	1
7250 Dallas Parkway, Ste. 14	00, Plano, TX 75024		Anderson; Wo	lfcamp, North
4. Well Location				
Unit Letter E	: <u>1980</u> feet from the	N line and	feet from the	W line
				
Section 1	Township 17			ty Eddy
Sign of the second second	11. Elevation (Show whe	ther DR, RKB, RT, G	R, etc.)	Date: Hilliam Land
	3609' GL	···		6)462.0988
12 Check	Appropriate Box to Ind	icate Nature of No	otice Report or Other D	lata
12. CHCCR	appropriate Box to mu	icate ivature of ive	dice, report of Other D	aia
NOTICE OF I	NTENTION TO:	1	SUBSEQUENT REP	ORT OF:
PERFORM REMEDIAL WORK				
				LITERING CASING
TEMPORARILY ABANDON				AND A
PULL OR ALTER CASING	MULTIPLE COMPL	☐ CASING/CI	EMENT JOB	
DOWNHOLE COMMINGLE				
CLOSED-LOOP SYSTEM	1			
OTHER: Abandon Existing Zone	and Add Perforations	☐ OTHER:		П
13. Describe proposed or com			ils and give pertinent dates	including estimated date
	ork). SEE RULE 19.15.7.1			
proposed completion or re		Tivine. To much	ne completions. Attach we	moore diagram or
proposed completion of re	completion.			
Murchison Oil & Gas respectfully	requests permission to abou	lan the avieting Marre	over norforations and add nort	foretions to the wallhors
		ion the existing Mon	ow periorations and add peri	orations to the wendore
in the Abo and Wolfcamp as descri	bed in the attached.			
			Aine .	
				OIL CONSERVATION
				ARTESIA DISTRICT
				1415 . 0 . 0010
				MAR 13 2018
				DECENTED
				RECEIVED
<u> </u>				\neg
Spud Date:	Dia D	elease Date:		
Spud Date.	Kig K	cicase Daic.		
		<u> </u>		
I hereby certify that the information	n above is true and complete	to the best of my kno	owledge and belief.	Anna Carlo Car
7 110100 y 101011 y 11111 1110 1111111111				
<i>(</i>) ·	1/4/			
SIGNATURE / 1	///// TITI	E Regulatory Co	ordinator DATE	March 12 2019
SIGNATURE WAY	Work III	L Regulatory Co	DATE_	March 13, 2018
/				
			~	
Type or print name <u>Cindy Cottrel</u>	<u>LE-m</u>	ail address: ccottreil	@jdmii.com PH	ONE: <u>972-931-0700</u>
Type or print name Cindy Cottrel For State Use Only	<u>l</u> E-m	ail address: ccottrell(@jdmii.com PH6	ONE: <u>972-931-0700</u>
· · · · · · · · · · · · · · · · · · ·	<u>l</u> E-m	ail address: ccottrell(@jdmii.com PH	ONE: <u>972-931-0700</u>
· · · · · · · · · · · · · · · · · · ·	lE-nTITL		@jdmii.com PHO	

District I 1625 N. French Cr. Hobbs, NM 88240
District II 17 South First, Arlesia, NM 88210
District II 18 Part 18 Part 19 Par

State of New Mexico Revised March 17, 1998
Energy, Minerals & Natural Resources Office State Lease - 4 Copies

OUL CONCERNATION DIVISION For Lease - 3 Copies

OIL CONSERVATION DIVISION 9 3 78%

2040 South Pacheco Santa Fe, N M 87505

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	W	ELL	LOCA	TION	N A	ND	AC	REA	AGE_	DEDICA	TION F	PLAT				
API 30-0	3															
Property Co. 30819								me		E COM		Well Number				
OGRID No.						Operat	ion N	ame					7 Elevation			
15363									·	AS, INC.		3609				
UL or Lot No.	Section	Town	nship	Range	<u>Sui</u>	foce Lot ldn.	CE LOCATION It Idn. Feet from the North/South line Fe					set from the East/West line County				
E	1 . 1			17-5 28-			19.		30 NORTH		1270	WE	ST	EDDY		
UL or Lot Na.	Section		Bottom Hole nahip Ronge		<u>Lo</u>	Location 1		Different Feet from the		From Sur North/South line	From Surface North/South line Feet from the		est line	County		
Dedicated Acres	Joint or	Infill Co	onsolidation	Code	Ord	er No.		<u> </u>				<u></u>	-			
40	<u> </u>								·····							
										I UNTIL AI				BEEN		
1270),	1980	Spacing	y Unit							Signature Printed Nat Title Vice Date SURVE I HERREY ON FIELD NOTE ME OR UND THE SAME I REST OF ME	TRUE AND Y ENOUGH ENOUG	dent COLRT	Cooper Operations IFICATION E WELL ECATION FOR THE PROM FOR AND THEF D BELLEF 3. 2002		
					enter our des euro est des euro						NM Cortific	PESCH MENGH	6961V	Solveer Geneer		

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 with the Wolfcamp and Abo commingled.

<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:

Wolcamp - 7330'-7340', 7470'-7475', 7575'-7595'; Abo - 6815'-6885', 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'. And dump bail 20' cement on plug.
- 5. Perforate Wolfcamp 7330'-7340', 7470'-7475'w/ 1spf and 7575'-7595' w/2spf.
- 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 6980'.
- 10. Perforate Abo 6815'-6885', 6930'-6945' 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 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'

Abo Formation

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

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

SN: 7200'

Wolfcamp Formation

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

