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NA RECEIVED DHC

TRICT 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First St., Artesia, NM 88210 B11 South First St., Attente,

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505 State of New Mexico
Energy, Minerals and Natural Resources Department V 1 2 2002 Revised August 1999
APPROVAL PROCESS:

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

TION FOR DOWNHOLE COMMINGLING

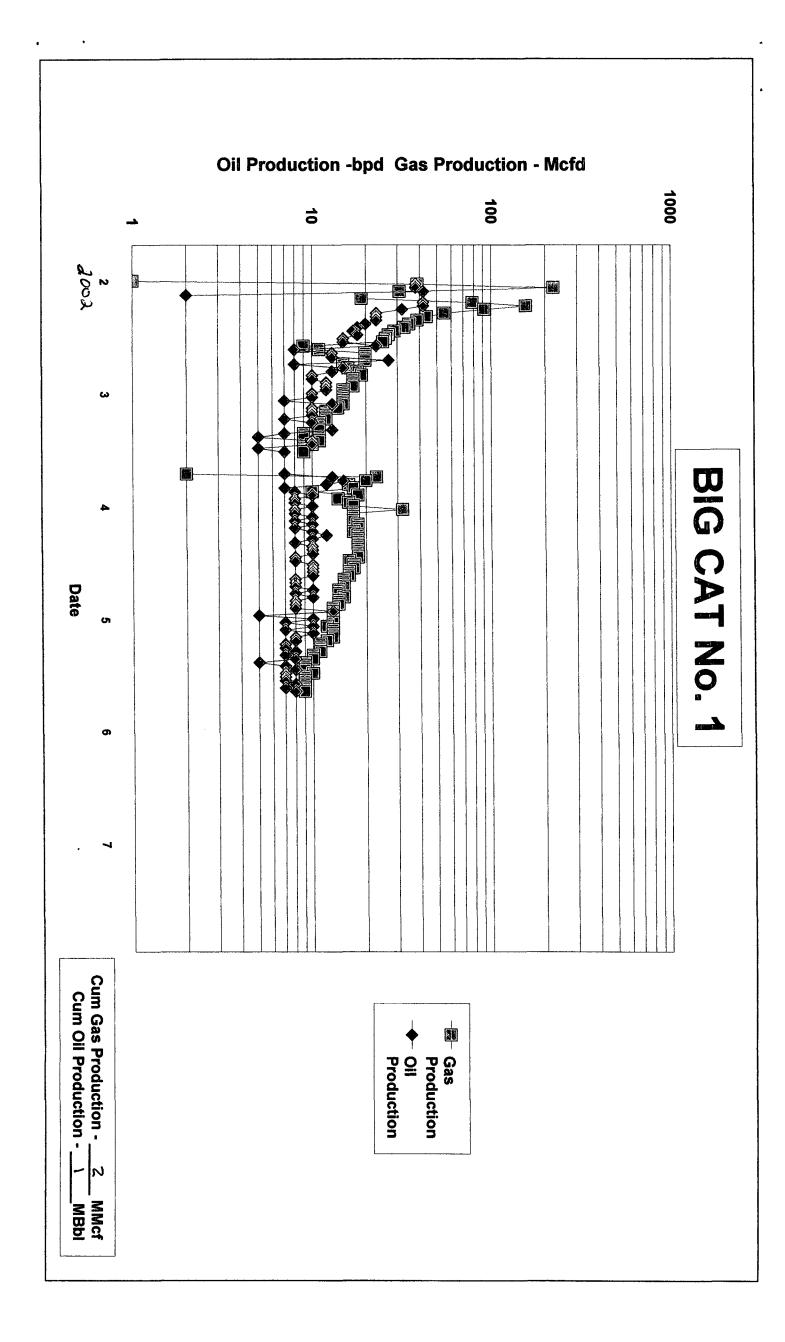
OIL CONSERVATION Administrative
DIVISION
EXISTING WELLBORE
X VES NO

APPLICATION FOR DOWNHOLE COMMINGLING

			NO
Murchison Oil & Gas, I	nc. 1100 Mira V	ista Blvd., Plano, Te	xas 75093
Operator Big Cat State Com #1 Lease	G Sec. 11, T-1	7S, R-2&E Eddy Count	.y
0		Sp	acing Unit Lease Types: (check 1 or more)
AT HE TOUS WITE ECLE SEE AUDMITTECH IN SEE		Particular de la companya de la comp	700 3 (4) 1
Pool Name and Pool Code	UNDES	North anderson (w	BENEFIT HAR BOYN AND THE SERVICE SHEET HERE
Top and Bottom of Pay Section (Perforations)	ABO 6772-6805 9 1365	North Anderson (W Wolfcamp 7528-7540 and	
Type of production (Oil or Gas)	oil	oie	
Method of Production (Flowing or Artificial Lift)	Pumping ·	Pumping	
5. Bottomhole Pressure	a. (Current)	a. 150	a.
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. ^(Original)	b. 10 BOPV 10 MCFV	b
6. Oil Gravity (EAPI) or Gas BTU Content	42	42	·
7. Producing or Shut-In?	Shut-in	Producing	·
Production Marginal? (yes or no)	Yes	Yes	
If Shut-in, give date and oil/gas/ water rates of last production	Date: Rates:	Date: Rates:	Date: Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date:	Date:	Date:
If Producing, give date andoll/gas/ water rates of recent test (within 60 days)	Rates:	Rates:	Rates:
Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%).	Oil: Gas: %	Oil; Ges: %	Oil: Gas: %
If allocation formula is based up attachments with supporting data.	oon something other than curren ata and/or explaining method and	t or past production, or is based of providing rate projections or other.	upon some other method, submit her required data.
Are all working, overriding, and If not, have all working, overriding	royalty interests identical in all cong, and royalty interests been no	ommingled zones? Lifled by certified mail?	_ Yes No _ Yes No
11. Will cross-flow occur? Ye flowed production be recovered, an	es X No $$ If yes, are fluids cold will the allocation formula be re	mpatible, will the formations not eliable Yes No (If N	be damaged, will any cross- o, attach explanation)
12. Are all produced fluids from all o			
 Will the value of production be d If this well is on, or communitize 		Yes X No (If Yes, attact ther the Commissioner of Public	•
 If this well is on, or communitize United States Bureau of Land M NMOCD Reference Cases for R 			• •
16. ATTACHMENTS: * C-102 for each zone * Production curve for * For zones with no pro	to be commingled showing its seach zone for at least one year. oduction history, estimated production method or formula	pacing unit and acreage dedicat (if not available, attach explanation function rates and supporting data prests for uncommon interest casted to support commingling.	tion. on.)
I hereby certify that the information	above is true and complete to the	e best of my knowledge and belie	ıf.
SIGNATURE // LLJ	rbo-	TITLE Production Mana	ger _{DATE} 10/25/02
TYPE OR PRINT NAME	W. Folsom	TELEPHONE	NO.(_ <u>505_</u>)628-3932

MURCHISON OIL AND GAS, INC. BIG CAT STATE COM. #1 NMOCD ATTACHMENT TO FORM C-107-A

- 1. A C-102 is attached, it is understood that the spacing unit for each formation is 40 acres.
- 2. The current producing formation is from the Wolfcamp formation 7,528' to 7,540' production was started on 01/14/02, and has not been on production for a year. The current production is 10 BOPD, 10 MCFD and 30 BWPD. A production curve is attached.
- 3. We have not completed the ABO formation at this time. We would like to complete it and commingle it with the Wolfcamp. We will conduct a production test of the ABO during the workover by swab test. We would like to then commingle the two formations during the same workover to reduce the cost of working on the well two separate times.
- 4. There is no offset production from the ABO to this well. However there is ABO production that is near to this area and looks similar in log character. It is felt that the ABO in this well will start production at 30 to 40 BOPD, 40 to 50 MCFPD, and 1 to 2 BWPD on pump.



MURCHISON OIL AND GAS, INC.

Big Cat State Com #1 Section 11, T-17S, R-28E 1500' FNL and 1980' FEL Eddy County, New Mexico

ABO COMPLETION PROCEDURE

OCTOBER 22,2002

CASING:

Surface	13 3/8" - 61# J -55	@ 205'	Cmt Cir.
Intermediate	9 5/8" - 47# N-80	@ 2,200'	Cmt Cir.
Production Csg	5 1/2" - 17# N-80	@ 10,446'	Cmt

Cir.

TUBING DETAIL:

2 7/8" N-80 IN WELL 7,549'

REFERENCE LOGS:

CNLDGR & ALL, Micro-CFLGR dated 12/26/01

PERFORATIONS:

WOLFCAMP 7,528' TO 7,540'

ELEVATION:

K. B. 3628' G.L. 3,612' KB Correction - 16'

EQUIPMENT:

There is 7,549' of 2 7/8" tbg in the hole along with a tbg anchor, rods and a pump. The production facilities are in place to include two 300 Bbl steel oil tanks, one 500 Bbl fiberglass water tank, and a 4 x 20 three phase treater.

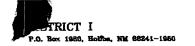
DISCUSSION:

The well is currently producing around 10 BOPD, 10 MCFD, and 30 BWPD in a pumping operation. It is felt that the ABO 6772' to 6805' should be completed and commingled with the current Wolfcamp production. The oil gravity should be comparable and water from either zone should not have any adverse conditions to the other zone. The Wolfcamp is a Lime Stone and the Abo is Dolomite. It is expected that he Abo could start production at 30 to 40 BOPD, 40 to 50 MCFD with water production. This commingled with the current production would help make this well more economical.

Murchison Oil and Gas, Inc. Big Cat State Com #1 Abo Completion Procedure Page 2 of 2

PROCEDURE:

- 1. RUPU, matting boards and PU. POOH w/ rods and pump, NUBOP and POOH w/ tbg.
- 2. TIH w/ RBP and set at 7000' ±. Test RBP and csg to 2000 psi, POOH w/ tbg and pour 3 sacks sand on RBP.
- 3. RU wireline company and perforate ABO 6,772' to 6,805' w/ 4" csg gun 90 degree phasing at 4 JSPF. Total 33' 132 holes.
- 4. TIH w/ 2 jts tail pipe, packer and tbg, spot 200 gals 15% HCL NEFE across perforations. Pull up hole and clear acid from behind packer, set packer and break down formation.
- 5. Open by pass on packer and spot acid down tbg, acid treat w/ 3500 gals 15% HCL NEFE dropping 150 1.3 RCN ball sealers evenly spaced in treatment.
- 6. RU swab and swab test well.
- 7. If required frac treat w/ 35K 20/40 ottwa sand in crosslink delayed Viking system.
- 8. Swab for clean up and production test.
- 9. File pressure and production data with NMOCD. Clean off top of RBP and pull same for commingled production.
- 10. Release packer and POOH w/ tbg and packer. TIH w/ RBP fishing tool, circulate ball sealers and sand off RBP. Latch on to RBP release and POOH w/ same.
 - NOTE: (If the well will not circulate Bull Dog Bailor can be used to clean off RBP)
- 11. TIH w/ tbg, anchor and bottom hole assembly, set anchor w/ 12 points tension, set SN below bottom set of perforations, and anchor above top set of perforations.
- 12. ND BOP and NU well head. TIH w/ rods and pump, place well on production





State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. BOX 2068, SANTA FR, N.M. 87504-2068

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	•			
30-015-32091					
Property Code	Prop	Well Number			
29051	BIG C	AT STATE	1		
OGRID No.	Oper	ator Name	Elevation		
016363	MURCHISON	OIL & GAS, INC.	3612		

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	11	17 S	28 E		1500	NORTH	1980	EAST	EDDY

Bottom Hole Location If Different From Surface

UL	or lo	ot	N	o.	T	Section	n	To	wnsh	ip	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
De	dicate	ed		Acr	es	Joi	nt o	r In	ıfill	Cor	solidation (ode	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

200,	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
1980'	Signature Tommyw. Folsone Printed Name Production Manager Title
	Production Manager Title 10/25/02 Date SURVEYOR CERTIFICATION
GEODETIC COORDINATES NAD 27 NMEZ Y=674067.8 X=558022.8	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 supervison and that the same is true and correct to the best of my belief.
LAT = 32'51'10.63" N LONG = 104'08'39.81"W	NOVEMBER 6, 2001 Date Surveyed LMP Signature a Scallor Professional Surveyor AMELIA (107/01)
	Certificate No. RONALD & EIDSON 3239 GARY EIDSON 12641

10/25/2002 15:09 FAX 9729310701 District !
FO lies 1960, Robbs, NM 98241-1960
District !!
FO Drawer DD, Artesia, NM 88211-6715

Dia 100 Dia

State of New Mexico
Exercy, Marchie & Natural Resources Department

Form C-104 Revised February 10, 1994 Instructions on back

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17	7-1/2"		1	3-3/8"			20	25'		2	35 SXS	
12	2-1/4"			9-5/8"			220	20'			00 SXS	
	8-1/2"			5-1/2"			1044	46'			3530 SXS	
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