

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR

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NOV 24 1997

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-10-97	
Company Caulkins Oil Company		Connection	
Pool Blanco Mesa Verde		Formation Mesa Verde	
Completion Date 7-19-90		Total Depth 7647'	Plug Back TD (RBP) 5900'
		Elevation 6630 GR	
Casing Size 7"		Well 23# & 26#	Set At 7647
Perforations From 4911' To 5816'		Well No. 144-E	
Tubing Size 2 3/8"		Well 23# & 26#	Set At 5879'
Perforations From 4911' To 5816'		Unit Sec. Twp. Rys. C 12 26N 6W	
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Single		Packer Set At	
Producing Thru Tubing		Baro. Press. - P _a	
Reservoir Temp. °F		Mean Annual Temp. °F	
County Rio Arriba		State New Mexico	
L	H	G _q	% CO ₂
			% N ₂
			% H ₂ S
			Prover
			Meter Run
			Taps

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1010#		1040#		7 day SI
1.	3/4						120#		440#		3 hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mc/d
1	14.1605		132	1.000	1.000	1.000	1,869
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1	1052	1,106,704			
2					
3					
4					
5					

NO.	P _c ²	P _w ²	P _c ² - P _w ²
1	17,424	452	204,304
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2264$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 0.9198$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,719$			

Absolute Open Flow 1,719 Mc/d @ 15.025		Angle of Slope 0		Slope, n .75	
Remarks					
Conducted By					
Calculated By					
Checked By					

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

AMENDED

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Caulkins Oil Company P. O. Box 340 Bloomfield, NM 87413		² OGRID Number 003824
		³ Reason for Filing Code RC
⁴ API Number 30 - 039 - 24386	⁵ Pool Name BLANCO MESA VERDE	
⁷ Property Code 002457	⁸ Property Name BREECH "C"	⁶ Pool Code 72319
		⁹ Well Number 144-E

II. ¹⁰ Surface Location

UL or lot no. C	Section 12	Township 26N	Range 6W	Lot Idn	Feet from the 990'	North/South Line NORTH	Feet from the 1650'	East/West line WEST	County RIO ARRIBA
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¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code	¹³ Producing Method Code F		¹⁴ Gas Connection Date		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
025244	Williams Field Services Company Salt Lake City, Utah 84158-0900	2820164 0659530	G	Unit C, Sec. 12-26N-6W Breech "C" 144-E location
009018	Giant Refinery Farmington, New Mexico 87401	2820163 0659510	O	Unit C, Sec. 12-26N-6W Breech "C" 144-E location

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IV. Produced Water

²³ POD 0659550	²⁴ POD ULSTR Location and Description Unit C, Sec. 12-26N-6W 990' F/N 1650' F/W Breech "C" 144-E location
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OIL CON. DIV.
DIST. 3

V. Well Completion Data

²⁵ Spud Date 5-30-90	²⁶ Ready Date (7-19-90) 11-3-97	²⁷ TD 7647'	²⁸ RBPTD 5879'	²⁹ Perforations 4911' - 5816'	³⁰ DHC, DC, MC
³¹ Hole Size 12 1/4"		³² Casing & Tubing Size 9 5/8"		³³ Depth Set 451'	
8 3/4"		7"		4647' 7647'	
		2 3/8"		5818'	

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
	ASAP	11-10-97	3 hours	132#	452#
⁴¹ Choke Size 3/4"	⁴² Oil TSTM	⁴³ Water 2 bbl	⁴⁴ Gas 1719 MCF/D	⁴⁵ AOF 1719 MCF/D	⁴⁶ Test Method Flowing

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Robert L. Verquer*
Printed name: Robert L. Verquer
Title: Superintendent
Date: November 24, 1997
Phone: (505) 632-1544

OIL CONSERVATION DIVISION

Approved by: *328*
Title: SUPERVISOR DISTRICT #3
Approval Date: NOV 25 1997

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date
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