STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☒ Initial ☐ Annual ☐ Special			Test Date: 12-31-97	
Company: Caulkins Oil Company	Connection:			
Pool: Wildcat 26N-7W-23M: Gallup	Formation: Gallup		Unit:	
Completion Date:	Total Depth: 7565'	Plug Back TD: 7565'	Elevation: 6917' GR	Farm or Lease Name: Breech
Csg. Size: 5 1/2" / Wt.: 15.5# 17# / d: 4.892 / Set At: 7565'		Perforations: From 6455' To 6892'		Well No.: 377
Tbg. Size: 2 3/8" / Wt.: 4.70# / d: 1.995 / Set At: 6868'		Perforations: From To		Unit: M / Sec.: 23 / Twp.: 26N / Rge.: 7W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual		Packer Set At:		County: Rio Arriba
Producing Thru: Tubing	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a:	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI						1125		1125		7 day SI
1.	3/4"					163		452		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 Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1			175	1.000	1.000	1.000	2,478
2.	14.1605						
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1137 P_c^2 1,292,769

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	30,625	464	215,296	1,077,473
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1998$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2443$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3083$

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JAN 13 1998
OIL CON. DIV.
DIST. 3

Absolute Open Flow 3083 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n _____

Remarks: _____

Approved By Division | Conducted By: | Calculated By: | Checked By: