

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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 9-02-80		
Company Caulkins Oil Company			Connection After workover		
Pool Basin Dakota			Formation Dakota		
Completion Date 8-25-80		Total Depth 7620'	Plug Back TD 7620'		Elevation 6689'
Form or Lease Name Breech D			Well No. 346		
Csg. Size 5.50	Wt. 15.5	d 4.892	Set At 7620	Perforations: From 7264 To 7603	
Tub. Size 1 1/4	Wt. 2.3	d 1.660	Set At 7363	Perforations: From 7363 To	
Type Well - Single - Brodenhead - G.C. or G.O. Multiple Gas-Gas Multiple				Packer Set At 5487'	
Producing thru Tubing		Reservoir Temp. °F #	Mean Annual Temp. °F		Baro. Press. - P _a
County Rio Arriba					
State New Mexico					
L 7363	H	Gg	% 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							1229		PKR		7 Days
1.							121		PKR		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, Mcfd
1	14.1605		133	1.000	1.000	1.000	1,883
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 _____ XXXXXXXXXX			
3.					Specific Gravity Flowing Fluid _____ XXXXXX			
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.			
5.					Critical Temperature _____ R _____ R			

NO.	P _t ²	P _w ²	P _t ² - P _w ²	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1	176,689	490	240,708	1,299,373		1.185	1.1359
2							
3							
4							
5							

AOF = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 2,139$

Absolute Open Flow 2,139 Mcfd @ 15.025 Angle of Slope @ .75

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
----------------------	---------------	----------------	-------------