

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2/14/72	
Company W. M. Gallaway		Connection None	
Pool Tapacito		Formation Pictured Cliffs	
Completion Date 2-5-72	Total Depth 3732	Plug Back TD 3700	Elevation 7151 KB
Perforations: From 3657 To 3678	Name of Lessee Name Mechol		
Well No. 6			
Perforations: From Open end To	Unit F	Sec. 9	Twp. 25N Rye. 3W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At None	County Rio Arriba
Producing Thru Tubing	Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _a 12
State New Mexico			
L 3665	H	G _g 0.620	% CO ₂ % N ₂ % H ₂ S Prover Meter Run Pips

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	2"		3/4"				185		185		9 Days
1.							31	52°	165		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf
1	12.3650		43	1.0078	0.9837	1.000	527
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcl/bbl.
1					A.P.I. Gravity Liquid Hydrocarbon
2					Specific Gravity Separator Gas
3					Specific Gravity Bottoming Fluid
4					Critical Pressure P.S.I.A.
5					Critical Temperature °R

P _c 197	P _c ² 38,809			
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		177	31,329	7480
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 5.1884$$

$$ADP = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1609$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.0530$$

Absolute Open Flow	1609	Mscf @ 15.025	Angle of Slope	Slope, n	0.85
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Remarks:

Approved By Commission:	Conducted By: Kenneth E. Roddy	Calculated By: Kenneth E. Roddy	Checked By: Kenneth E. Roddy
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