

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-177
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7-9-81			
Company Jerome P. McHugh					Connection			
Pool Undesignated P.C.					Formation Pictured Cliffs		Unit	
Completion Date 5-13-81		Total Depth 1300'		Plug Back TD 1249'		Elevation 6020' GL		Farm or Lease Name Chaco Plant
Coq. Size 2-7/8"	Wt. 6.4	d 2.441	Set At 1275'	Perforations From 1052 To 1176		Well No. #22		
Thq. Size 1-1/4"	Wt. 2.4	d 1.380	Set At 1065'	Perforations From open end To		Unit A	Soc. 24	Twp. 26N
Type Well - Single - Bradenhead - G.C. or G.O. Multiple single - gas					Packer Set At		County San Juan	
Producing Thru tbg.		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State NM
L	H	G _g .62	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Tapo

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							235		235		14 days
1.											
2.											
3.	1/2" pos. choke		1					78	48		3 hrs
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, Mscd
1							
2							
3	5.4315		13	.9831	.9837	1.000	68
4							
5							

NO.	P _r	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	X X X X
3					Specific Gravity Flowing Fluid	X X X X
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	°R

NO.	P _r	P _w	P _r ² - P _w ²
1			
2			
3	60	3600	57,409
4			
5			

(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.0627$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^{.85} = 1.0530$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 72$

Absolute Open Flow	72	Mscd @ 15.025	Angle of Slope	Slope, n	.85
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Remarks:			
Approved By Division	Conducted By	Calculated By	Checked By
	Hall	Hall	