

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6-15-81	
Company Jerome P. McHugh				Connection		
Pool Basin Dakota				Formation Dakota		Unit
Completion Date 5-16-81		Total Depth 7496'		Plug Back TD 7470'		Elevation
Farm or Lease Name Hardie						
Coq. Size 4 1/2"	Wt. 10.5#	d 4.052	Set At 7496'	Perforations From 7166' To 7418'		Well No. 2E
Tng. Size 1 1/4"	Wt. 2.4#	d 1.380	Set At 7310'	Perforations From Open End To		Unit Sec. Twp. Rge. M 28 29N 8W
Type Well - Single - Riderhead - G.G. or G.O. Multiple Single-Gas				Packer Set At		County San Juan
Producing Interval		Interval Temp. °F		Mean Annual Temp. °F		State New Mexico
L	H	Gg .650 est	% 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	
51							2080		2080		7 days
1.											
2.											
3.	3/4" pos. choke			125		60°			920		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, Mcfd
1							
2							
3	12.365		137	1.000	.9608	1.013	1649
4							
5							

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

P _c 2092	P _c ² 4,376,464	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.2476$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.1805$
NO.	P _r	P _w	P _r ² - P _w ²
1			
2			
3	932	868,624	3,507,840
4			
5			

Absolute Open Flow 1946 Mcfd @ 15.025		Angle of Slope 0	Slope, n .75
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Remarks: Light mist H₂O & condensate throughout test.

Approved by Division	Conducted By	Calculated By	Checked By
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