

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Revised 12-1-55

Pool Basin				Formation Dakota				County San Juan			
Initial X		Annual		Special		Date of Test 9/9/67					
Company Jerome P. McHugh				Lease Hardie				Well No. 2			
Unit D	Sec. 28	Twp. 29N	Range 8W	Purchaser							
Casing 4 1/2	Wt. 11.6-10.5	I.D.	Set at 7580	Perf. 7294	To 7556						
Tubing 1 1/4	Wt. 2.4	I.D.	Set at 7519	Perf. Open End	To						
Gas Pay:	From 7294	To 7556	L	G 0.60	GL	Bar. Press.					
Producing Through:		Casing	Tubing X	Type Well - Single - Braden head - G.G. or G.O. Dual Single - Gas							
Date of Completion 8/2/67		Packer		Reservoir Temp.							

OBSERVED DATA										
Tested Through: Prover ☐ Choke ☒ Meter ☐								Type of Taps		
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
SI						1924		2194		
1.										
2.										
3.	2"	3/4"	2/3		58°			1332		3 hrs.
4.										
5.										

FLOW CALCULATIONS							
No.	Coefficient (24 Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15,025 psia
1.							
2.							
3.	12.3650		225	1.0019	1.000	1.025	2857
4.							
5.							

PRESSURE CALCULATIONS							
Gas Liquid Hydrocarbon _____ cf/bbl.				Specific Gravity Separator Gas _____			
Gravity of Liquid Hydrocarbons _____ deg.				Specific Gravity Flowing Fluid _____			
F _c _____				P _c 2206 P _c ² 4,866,436			

No.	$\frac{P_w}{P_t}$ psia	$\frac{P_c^2}{P_t^2}$	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	$\frac{P_w^2}{P_c^2}$	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.								
2.								
3.	1344					3,060,100		1.5902
4.								
5.								

ABSOLUTE POTENTIAL: **4,046** MCFPD; n **0.75** - **1.416**COMPANY **Jerome P. McHugh** WITNESSED _____ADDRESS **Box 234, Farmington, New Mexico** COMPANY _____AGENT AND TITLE _____ **Engineer**