

3 OGC 1 Cont.
1 McHugh 1 File
2 EPNG

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	
Company Jerome P. McHugh		Lease Bolin-Hardie		Date of Test 9/18/67	
Unit D		Sec. 34		Twp. 29N	
Casing 4 1/2		Wt. 11.6&10.5		I.D.	
Tubing 1 1/4		Wt. 2.4		I.D.	
Gas Pay:		From 7221		To 7470	
		L		G 0.600	
		GL		Bar. Press.	
Producing Through:		Casing		Tubing X	
Date of Completion 9/9/67		Packer		Reservoir Temp.	
				Type Well - Single - Braden head - G.G. or G.O. Dual Single - Gas	

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.				
1.						2145		2226					
2.													
3.	2"	3/4"	263		64°			1374		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		275	.9962	1.0000	1.023	3465
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 F_c _____ $(1-e^{-S})$ _____ P_c **2236** P_c^2 **4,999,696**

No.	$\frac{P_w}{P_t}$ psia	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-S})$	P_w^2	$P_c^2 - P_w^2$	Cal P_w	$\frac{P_w}{P_c}$
1.									
2.									
3.	1386					1,920,996	3,078,700		1.6239
4.									
5.									

ABSOLUTE POTENTIAL: **4983** MCFPD; n **0.75 - 1.438**

COMPANY **Jerome P. McHugh** WITNESSED _____

ADDRESS **Box 234, Farmington, N. M.** COMPANY _____

AGENT AND TITLE **Original signed by T. A. Dugan Engineer**