

3 OCC
1 McHugh
1 Cont.

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 11/7/67		
Company Jerome P. McHugh		Lease liardie		Well No. 4	
Unit M	Sec. 24	Twp. 29N	Range 3W	Purchaser	
Casing 4 1/2"	Wt. 11.6&10.5#	I.D.	Set at 7606'	Perf. 7336'	To 7586'
Tubing 1 1/4"	Wt. 2.4#	I.D.	Set at 7517'	Perf. Open Ended	To
Gas Pay:	From 7336'	To 7586'	L	G 0.64	GL Bar. Press.
Producing Through:		Casing	Tubing X	Type Well - Single - Braden head - G.O. Dual Single - Gas	
Date of Completion 10/10/67		Packer		Reservoir Temp.	

OBSERVED DATA

Tested Through:		Prover ☐	Choke ☒	Meter ☐	Type of Taps
FLOW DATA					TUBING DATA
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.
1.					
2.					
3.	2"	3/4"	209		51
4.					
5.					
CASING DATA					DURATION OF FLOW HR.
					3 hrs.

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 P.D. @ 15,025 psia
1.							
2.							
3.	12.3650		221	1.0088	0.9682	1.022	2728
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 **2537** P_c² **6,436,369**

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.	1852					3,429,904	3,006,465		2.1408
4.									
5.									

ABSOLUTE POTENTIAL: **4829** MCFPD; n **0.75** **1.770**

COMPANY **Jerome P. McHugh** WITNESSED _____

ADDRESS **930 Petroleum Club Bldg., Denver, Colo.** COMPANY _____

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