

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

Form C-122

Revised 12-1-55

Pool Wildcat			Formation Gallup			County Rio Arriba		
Initial X		Annual		Special		Date of Test January 8, 1965		
Company Sawyer and August			Lease Mobil Federal			Well No. 1		
Unit J	Sec. 36	Twp. 24N	Range 1W		Purchaser El Paso Natural Gas Co.			
Casing 4 1/2	Wt. 9.5	I.D. 4.090	Set at 4123		Perf. 3845		To 4123	
Tubing 2 3/8	Wt. 4.7	I.D. 1.995	Set at 3841		Perf.		To 3841	
Gas Pay: From 3845		To 4123		L 3841		G 0.600 est.		GL Bar. Press. 12.0
Producing Through:			Casing		Tubing X		Type Well - Single - Braden head - G.G. or G.O. Dual Single	
Date of Completion January 4, 1965			Packer		Reservoir Temp.			

OBSERVED DATA										
Tested Through: Prover ☐ Choke ☒ THC 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.		
1.						870		856		
2.										
3.		3/4THC	39		46			173		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.	12.365		51	1.0137	1.0000	1.0000	649
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 868 P _s 777.924				

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.							743,699		1.046
4.									
5.									

ABSOLUTE POTENTIAL: **671** MCFPD: **0.75/1.0342**

COMPANY **Sawyer and August & R. D. Williams** WITNESSED **R. D. Williams**

ADDRESS **1736 Westwood Blv., L.A. 24, Calif.** COMPANY **Sawyer and August**

AGENT AND TITLE **Morris B. Jones** **Engineer**

Original Signed **MORRIS B. JONES**

