

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-14-82	
Company Petro-Lewis Corp.		Connection El Paso Natural Gas Co.	
Pool South Blanco		Formation Pictured Cliff	
Completion Date 5-4-1982		Total Depth 3050	Plug Back TD 3024
		Elevation 7313 G.L.	Form or Lease Name PLC Wasson Federal
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 3050
Perforations: From 2907	To 2919		
Well No. 2-26			
Trp. Size 1.660	Wt. 2.3#	d 1.380	Set At 2904
Perforations: From Open	To Ended		
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At None	County Rio Arriba
Producing Thru Tubing	Reservoir Temp. °F 8	Mean Annual Temp. °F	Baro. Press. - P _a 12 psia (est.)
State New Mexico			
L	H	C _g .650	% CO ₂ % N ₂ % H ₂ S Prover Meter Run Tops

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	
SI	10 days						317		651		
1.	2 inch		.750	12			12	60°	378		3 hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, F _{py}	Rate of Flow Q, Mcfd
1	12.3650		24	1.000	.9608	1.000	285
2.							
3.							
4.							
5.							

NO.	P _t	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	P.S.I.A.	P.S.I.A.
1							XXXXXX	XXXXX				
2.												
3.												
4.												
5.												

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²
1	663	390	152100	287469
2.				
3.				
4.				
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.5291$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 409$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.43471$$

Absolute Open Flow	409	Mcfd @ 15.025	Angle of Slope θ	Slope, n .85
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Remarks:

Approved By Division	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: Lynn Hatley
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