

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-3-83	
Company Petro-Lewis Corporation				Connection El Paso Natural Gas Co.	
Pool Blanco				Formation Mesaverde	
Completion Date 2-23-83		Total Depth 8436		Plug Back TD 6180(BP)	
Elevation 7352 K.B.		Farm or Lease Name Florance			
Csg. Size 5 1/2	Wt. 15.5	d 4.950	Set At 8432	Perforations: From 5551 To 6080	
Tub. Size 2 3/8	Wt. 4.7	d 1.995	Set At 5498	Perforations: From open To ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At B.P. @ 6180	
Producing Thru Tubing		Reservoir Temp. °F A		Mean Annual Temp. °F Baro. Press. - P _a	
L		H		County Rio Arriba	
G _g		% CO ₂		State New Mexico	
Prover		Meter Run		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	x	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	8 days						1101		1114		
1.	2 inch		3/4				127	60°	487	60°	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		139	1.000	.9608	1.013	1673
2.							
3.							
4.							
5.							

NO.	R	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1126	P _c 1267	876			
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	
1		499	249001	1,018,875	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2444$
2					(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.17819$
3					
4					
5					

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1971$$

Absolute Open Flow 1971 Mcfd @ 15.025 Angle of Slope 0 Slope, n .75

Remarks:

Approved By Division	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: William D. Fulton
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