

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-5-82		AUG 11 1982	
Company Penroc Oil Corporation ✓			Connection Phillips		O. C. D. ARTESIA OFFICE
Pool Winchester Morrow Gas			Formation Morrow		Unit
Completion Date 7-30-82		Total Depth 11,252'		Plug Back TD 11,145'	
Elevation 3295 GR		Farm or Lease Name Dero Federal Com.			
Csq. Size 4 1/2"	Wt. 13.50#	d 3,920"	Set At 11,252	Perforations: From 11,024' To 11,087'	
Thg. Size 2 3/8"	Wt. 4.70#	d 1.995"	Set At	Perforations: Open Ended From To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At 10,950'	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F	
L		H		Baro. Press. - P _c	
G _g		% CO ₂		% N ₂	
% H ₂ S		Frover		Meter Run	
Taps		County Eddy		State New Mexico	

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											
1.											
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							
2							
3							
4							
5							

NO.	R	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1					109,600	55.5 @ 60				
2										
3										
4										
5										

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1							
2							
3							
4							
5							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ Produced 5 bbls cond. 24 hours.

Absolute Open Flow 548		Mcfd @ 15.025		Angle of Slope ϕ		Slope, n	
Remarks: Well would not 4-pt. into line. Flowing pressure insufficient. Well is on a compressor and above volume is actual 24 hour measurement.							
Approved By Division		Conducted By: Gray Pumping		Calculated By:		Checked By:	