

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-24-80			
Company Southand Royalty Company				Connection Southern Union Gathering					
Pool Basin				Formation Dakota				Unit	
Completion Date 9-24-80		Total Depth 7440'		Plug Back TD 7407'		Elevation 6198' GR		Farm or Lease Name Davis	
Case Size 7.000	Wt. 23#	d 6.366	Set At 4920'	Perforations: From To		Well No. 11E			
4.500	10.5# 1.6	d 4.052	4782' 7437'						
Thq. Size 2.375	Wt. 4.7#	d 1.995	7344'	Perforations: From 7162' To 7355'		Unit Sec. Twp. Rye. K 3 -31N -12W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At —		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _g 12.2		State New Mexico	
L	H	G _g .700	% CO ₂	% N ₂	% H ₂ S	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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							1194		1302		
1.	2" X 1.995						1/2 oz.		164		72 Hours
2.							----- P I T O T -----				
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							105
2.							
3.							
4.							
5.							

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

NO.	P _t ²	P _w 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						

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

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

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

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope @ _____	Slope, n _____
Remarks: _____		

Approved By Division	Conducted By: Dick Irvin	Calculated By: James Smith	Checked By: L. O. Van Ryan
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