

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1/10/67	
Company Southern Union Production Co.				Connection El Paso Natural Gas Company		
Pool Basin				Formation Dakota		Unit
Completion Date 12/28/66		Total Depth 6855		Plug Back TD 6815		Elevation 6426
Farm or Lease Name Hodges		Well No. 8				
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 6856	Perforations: From 6561 To 6796		
Tbg. Size 1.900	Wt. 2.90	d 1.610	Set At 6695	Perforations: From 6684 To 6690		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At		County San Juan
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12
State New Mexico						
L 6674	H	Gg .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
1.	2"		3/4"				2051		2044		9 days
2.							250	68°	1201		3 hrs.
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, Fpv	Rate of Flow Q, Mcfd
1.	12.3650		262	.9924	.9258	1.030	3.066
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

P _c 2,063	P _c ² 4,255,969			
NO.	P _t ²	P _w ²	R _w ²	P _c ² - R _w ²
1.		1,213	1,471,369	2,784,600
2.				
3.				
4.				
5.				

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$$(1) \frac{P_c^2}{P_c^2 - R_w^2} = \frac{4,255,969}{2,784,600} = 1.5284$$

$$(2) \left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.3745$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 4,214$$

Absolute Open Flow 4,214 Mcfd @ 15.025	Angle of Slope θ	Slope, n .75
Remarks:		
Original signed by		
Approved By Commission:	Conducted By Kenneth E. Roddy	Calculated By: Kenneth E. Roddy
	Kenneth E. Roddy	Kenneth E. Roddy
		Checked By: Kenneth E. Roddy