

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 12-13-70	
Company Cities Service					Connection -	
Pool Undesignated					Formation Morrow	
Completion Date 12-13-70		Total Depth 11,341		Plug Back TD 11,735		
Elevation 11,773					Farm or Lease Name Strackbein A	
Csg. Size 5 1/2	Wt. 17 1/2	d 20 3/4	Set At 11,325	Perforations: 11,763 to 11,773		
Tbg. Size 2 3/8	Wt. 4.7	d 1.935	Set At 11,310	Perforations: 11,400 to 11,400		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 11310	
Producing Thru Tubing		Reservoir Temp. °F 11340 @ 1/8		Mean Annual Temp. °F 69		
Baro. Press. - P _a 13.2		State New Mexico				
L 11,310	H 11,310	Gg .56	% CO ₂ 1.04	% N ₂ .24	% H ₂ S -	
Prover Orifice		Meter Run 4'		Taps Flange		

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.	
SI							2507			
1.	4		2	900	9.5	80	2365	72		
2.	4		2	910	15	83	1932	72		
3.	4		2	920	15	83	1708	72		
4.	4		2	935	24	80	1259	72		
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	19.81	93.03	913.2	.9758	1.313	1.063	2.512
2	19.81	117.7	923.2	.9756	1.313	1.065	3.131
3	19.81	129.6	933.2	.9786	1.313	1.066	3.516
4	19.81	150.14	943.2	.9813	1.313	1.063	4.031
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcft/bbl.
1	1.35	546	1.55	.835	A.P.I. Gravity of Liquid Hydrocarbons No Liquid _____ Deg.
2	1.37	543	1.54	.801	Specific Gravity Separator Gas .58 _____ X X X X X X X X
3	1.33	543	1.54	.800	Specific Gravity Flowing Fluid .58 _____ X X X X X
4	1.40	546	1.53	.877	Critical Pressure 676 _____ P.S.I.A.
5					Critical Temperature 352 _____ R

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.61$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.208$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.25 \text{ mm}$ Point 4
1		3234.2	1.046	340	
2		2662.2	.819	587	
3		2633.2	.692	694	
4		2231.2	.525	861	

Absolute Open Flow 5.250 _____ Mcfd @ 15.025		Angle of Slope θ _____		Slope, n .533
Remarks: Pw was taken from bottom hole pressure bomb.				
Approved By Commission:		Conducted By: Jerry Sexton		Calculated By: Jerry Sexton
				Checked By: