

RECEIVED

MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 9-1-65

JUL 2 MULTIPPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-29-72									
Company EL PASO NATURAL GAS COMPANY		Connection None									
Pool Rocky Arroyo 2nd		Formation Morrow									
Completion Date 6-29-72		Total Depth 9253 8968	Plug Back ID 9182								
Elevation GL		Farm or Lease Name Rocky Arroyo B									
Csg. Size 5 1/2	Wt. 15.5	Set At 9268	Perforations: From 9011 To 9023								
Well No. 1											
Tbg. Size 2 3/8	Wt. 4.7	Set At 8968	Perforations: From To								
Unit C	Sec. 17	Twp. 22S	Rge. 22E								
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Gas-Gas Dual		Packer Set At 8968	County Eddy								
Producing Thru Tbg.	Reservoir Temp. °F 168 8968	Mean Annual Temp. °F	Baro. Press. - P _a 13.2								
State New Mexico											
L 8968	H 8968	Gg .598	% CO ₂								
% N ₂	% H ₂ S	Prover	Meter Run 4"								
Taps Flc.											
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	Duration of Flow
SI							2561				72 hr.
1.	4	X	2/4	320	8.5	87	2368	88			1 hr.
2.	4	X	3/4	325	27.0	80	2179	82			1 hr.
3.	4	X	3/4	330	36.0	85	2064	64			1 hr.
4.	4	X	3/4	325	60.0	85	1843	66			1 hr.
5.	4	X	3/4	320	85.0	85	1854	67			1 hr.
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	2.661	53.82	333.2	.9750	1.304	1.023	184				
2	2.661	97.56	333.2	.9813	1.304	1.024	333				
3	2.661	111.15	313.2	.9750	1.304	1.023	385				
4	2.661	142.45	333.2	.9750	1.304	1.023	493				
5	2.661	168.29	333.2	.9768	1.304	1.023	584				
NO.	R _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1	.50	547	1.56	.956	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2	.50	540	1.56	.953	Specific Gravity Separator Gas _____		X X X X X X X X				
3	.51	546	1.56	.955	Specific Gravity Flowing Fluid _____		X X X X X				
4	.50	546	1.56	.956	Critical Pressure _____ 672 P.S.I.A.		P.S.I.A.				
5	.50	545	1.56	.956	Critical Temperature _____ 350 R		R				
P _e 2574.2 P _w 6696.2					(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 2.116$						
					(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 2.116$						
NO.	P _e	P _w	P _w ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.236$						
1	5670.1	2381.4	5671.0	955.5							
2	4835.7	2192.9	4837.7	1017.3							
3	4314.8	2078.1	4313.7	1107.8							
4	3826.7	1977.2	3828.2	1203.3							
5	3466.4	1869.6	3469.5	1311.0							
Absolute Open Flow _____ 1.236 Mcfd @ 15.025					Angle of Slope @ _____ 45°		Slope, n _____ 1.000				
Remarks: No fluid made at any of these rates.											
Approved By Commission:			Conducted By:		Calculated By:		Checked By:				
			Reginald E. Reston		Reginald E. Reston						