

C/SF C-122 MULTIPOINT A ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-3-82		MAR - 8 1982	
Company W. A. MONCRIEF, JR.		Connection EPNG		O. C. D.	
Pool Wildcat <i>Strawn</i>		Formation Strawn <i>Line</i>		Unit ARTESIA, OFFICE	
Completion Date 3-3-82		Total Depth 11126		Plug Back TD 9990	
Elevation 3916 GL		Farm or Lease Name Jurnegan State COM		Well No. 1	
Coq. Size 4 1/2	Wt. 11.6#	Set At 11126	Perforations: From 9684 To 9706		Unit C
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 9575	Perforations: To	Sec. 8
Type well - Single - Drillinghead - G.C. or G.O. Multiple Single		Packer Set At 9575		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 170 @ 9575		Mean Annual Temp. °F 60°	
Baro. Press. - P _g 13.2		State New Mexico		Taps Flg.	
L 9575	H 9575	G _g .614	% CO ₂ .36	% N ₂ .80	H ₂ S Gr. .21 Gr.
Prover		Meter Run 4"		Taps Flg.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	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									24 hrs.	
1.	4 X 1.750	647	6.25	75	2777				30 min.	
2.	4 X 1.750	660	10.90	58	2750				30 min.	
3.	4 X 1.750	710	17.64	45	2720				30 min.	
4.	4 X 1.750	727	27.04	36	2625				45 min.	
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, F _{pv}	Rate of Flow O. Mcfd
1	14.93	64.24	660.2	.9859	1.276	1.132	1,363
2	14.93	85.66	673.2	1.002	1.276	1.179	1,928
3	14.93	112.94	723.2	1.015	1.276	1.180	2,577
4	14.93	141.47	740.2	1.024	1.276	1.209	3,337
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NO.	$\bar{r}$	Temp. °R	T _r	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	4.16	535	1.48	.780	498.4	57.1°	.614	671	362	365
2	4.12	518	1.43	.719						
3	4.07	505	1.40	.718						
4	3.93	496	1.37	.684						
5										

NO.	P _w	P _w ²	P _w 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	2799.8	7838.8	47.2	167.08	12.926
2	2782.5	7742.4	143.6		
3	2767.4	7658.4	227.6		
4	2697.9	7278.5	607.5		
5					

Absolute Open Flow		Angle of Slope		Slope, n	
17,618	Mcf @ 15.025	63.5°	.500		

Remarks:	
Made .835 BBLS. 57.1 API Gr. condensate during test.	
Made .835 BBLS. H ₂ O during test.	

Approved by Division	Conducted by	Calculated by	Checked by:
EE PASO EXPLORATION CO. Reston & McGowen	EE PASO EXPLORATION CO. J. B. Murray		