

MULTIPOINT AND ONE POINT BACK PRESSURE TEST OR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-14-82		MAY 12 1982	
Company PETROLEUM CORP. CO. DISTRICT		Connection EPNG		O. C. D.	
Pool Buston Flat Und. Atoka		Formation Atoka		Unit G ARTESIA, OFFICE	
Comp. Date 2-13-82		Total Depth 11533		Plug Back TD 11096	
Casing Size 4 1/2		Well No. 9		Farm or Lease Name Parkway West Ut.	
Well No. 9		Perforations: From 10928 To 10948		Well No. 9	
Perforations: From 10670 To		Unit G		Sec. 21	
Twp. 19		Rge. 29		County Eddy	
Type - Single - Blindhead - G.C. or G.O. Multiple Single		Packer Set At 10,640		State New Mexico	
Producing Thru Tbg.		Reservoir Temp. °F 183 @ 10,928		Mean Annual Temp. °F 60°	
Baro. Press. - P _a 13.2		Prover		Meter Run 4"	
L 10928		H 10928		C _g .633	
% CO ₂ .28		% N ₂ 1.20		% H ₂ S .	
FLOW DATA		TUBING DATA		CASING DATA	
NO.	Flow Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
SI					
1.	4 X 2.000		426	2.25	79
2.	4 X 2.000		450	10.9	75
3.	4 X 2.000		465	19.8	67
4.	4 X 2.000		480	33.06	68
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
1	19.81	31.436	439.2	.9822	1.257
2	19.81	71.055	463.2	.9859	1.257
3	19.81	97.305	478.2	.9933	1.257
4	19.81	127.692	493.2	.9924	1.257
5					
NO.	$\bar{r}$	Temp. °R	T_r	Z	Gas Liquid Hydrocarbon Ratio
1	.66	539	1.46	.927	71.4 Mcf/bbl.
2	.69	535	1.45	.922	A.P.I. Gravity of Liquid Hydrocarbons 57.5 @ 60°
3	.71	521	1.43	.916	Specific Gravity Separator Gas .633
4	.74	528	1.43	.913	Specific Gravity Flowing Fluid .674
5					Critical Pressure 670 P.S.I.A.
					Critical Temperature 368 °R
NO.	P_c	P_w	P_c^2	P_w^2	$P_c^2 - P_w^2$
1	3308.2	10944.2	11000.0	11977.0	977.0
2					
3					
4					
5					
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.724$					
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.724$					
AOR = 0 $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.697$					
Absolute Open Flow		5,697		Mcf @ 15.025	
Angle of Slope		45		Slope, n	
Slope, n		1.000			
Remarks: Made 5.04 bbls of condensate & .8 bbls. of water during test.					
Approved by Division		Conducted by		Checked by:	
EL PASO EXPLORATION CO. Reston & McGowen		EL PASO EXPLORATION CO. J. B. Murray			