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C-122

CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 4-17-74		APR 25 1974	
Company Pennzoil Company		Connection El Paso Natural Gas Company		O. C. C.	
Loc. South Carlsbad (Wolfcamp)		Formation Wolfcamp		ARTESIA, OFFICE	
Completion Date 10-23-73		Total Depth 11,775		I	
Plug Back TD 9753		Elevation 3178 Gr		Farm or Lease Name Moore Comm	
Coq. Size 5 1/2	Wt. 17	Set At 4.892	9802	Perforations: From 9605 To 9628	Well No. 1
Coq. Size 2 3/8 EUE	Wt. 4.7	Set At 1.995	9544	Perforations: From To	Unit I
Type Well - single - Grasshopper - G.C. or G.O. Multiple Single				County Eddy	Sec. 23 Twp. 22-S Rge. 26-E
Producing Thru Tubing		Reservoir Temp. °F 140	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2	State New Mexico
9617	H 9617	C _g .700	% CO ₂ .0012	% N ₂ .0069	% H ₂ S .04
Prover		Meter Run X		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
Co.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	D.H. in	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
1	4.0	1.5	7.5	2.0	76	1125	70				28 Hr
2	4.0	1.5	7.5	2.5	74	1111	72				1 Hr
3	4.0	1.5	7.6	3.7	69	1096	79				1 Hr
4	4.0	1.5	7.6	4.5	66	1082	86				1 Hr
5	4.0	1.5	7.6	4.5	66	1067	86				1 Hr

RATE OF FLOW CALCULATIONS							
Co.	Coefficient (24 Hour)	$\sqrt{h_{wp} P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mscf
1	11.82	443.2		.9850	1.1952	1.051	694
2	11.82	443.2		.9868	1.1952	1.048	865
3	11.82	458.8		.9915	1.1952	1.049	1306
4	11.82	458.8		.9943	1.1952	1.049	1593

Co.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	Mol/bbl.
1	.66	532	1.36	.906	89.54	
2	.66	539	1.38	.911	56.3	
3	.66	546	1.39	.909		
4	.69	546	1.39	.909		

Co.	P ₁	P _w	P _w ²	P ₁ ² - P _w ²	(1) $\frac{P_1^2}{P_1^2 - P_w^2} =$	(2) $\left[\frac{P_1^2}{P_1^2 - P_w^2} \right]^n =$
1	1124.2	1263	55		8.728	1.00
2	1109.2	1230	88			
3	1095.2	1199	119			
4	1080.2	1167	151			

Co.	P ₁	P _w	P _w ²	P ₁ ² - P _w ²	AOP = Q $\left[\frac{P_1^2}{P_1^2 - P_w^2} \right]^n =$
1	1124.2	1263	55		13904
2	1109.2	1230	88		
3	1095.2	1199	119		
4	1080.2	1167	151		

Absolute Open Flow		13904	Mscf @ 15.025	Angle of Slope @	45°	Slope, n	1.00
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The drop in pressure between rates was so small that using recorded sub-surface to calculate surface pressure, we get more flowing pressure than the shut-in surface pressure, consequently, we have plotted observed surface pressures.

Checked By: R G Roberson H L Hagler

WEST TEXAS CONSULTING SERVICE, INC.