

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

Form C-122
Revised 9-1-65

912
File
RECEIVED

NOV 2

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/28/82		NOV 2	
Company TRANSWESTERN GAS SUPPLY CO.				Direction AIR		O. C. O. ARTESIA, OFFICE	
Pool <i>Und. Abo</i>				Formation ABO		Unit	
Completion Date 10/18/82		Total Depth 3610		Plug Back To 3504		Elevation 4458 KB	
Casing Size 4 1/2		Wt. 10.5		Set At <i>3576</i> 3504		Perforations: From 3047 To 3109	
Tub. Size 2 3/8		Wt. 10.5		Set At <i>2968</i> 2954		Perforations: From To	
Type well - Single - Production - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES	
Producing Thru TBG.		Reservoir Temp. °F 105-3078		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
3078		3078		G _g .6298		% CO ₂ .116	
				% N ₂ 6.748		% H ₂ S	
				Prover		Meter Run 4"	
						Page FLG.	

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.	
SI							1148		1141	
1.	4 x 1.000			165	6.5	102	1050		1050	
2.	4 x 1.000			160	12.0	98	912		912	
3.	4 x 1.000			150	12.0	100	620		700	
4.	4 x 1.000			150	6.0	108	496		624	
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	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mhd
1	4.753	34.03	178.2	.9619	1.260	1.013	199
2	4.753	45.59	173.2	.9653	1.260	1.013	267
3	4.753	44.25	163.2	.9568	1.260	1.012	258
4	4.753	31.29	163.2	.9568	1.260	1.012	181
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/ubl.
1.	.27	562	1.53	.974	A.P.I. Gravity of Liquid Hydrocarbons	
2.	.26	558	1.52	.974	Specific Gravity Separator Gas	.6298
3.	.24	560	1.52	.976	Specific Gravity Flowing Fluid	X X X X X
4.	.24	568	1.54	.977	Critical Pressure	670 P.S.I.A.
5.					Critical Temperature	368 °R

NO.	BHP	P _w	P _w ²	P _e ² - P _w ²
1	1138.2	1052.8	1108.3	240.1
2	999.2	925.6	856.8	291.6
3	702.2	652.4	425.7	922.7
4	721.2	670.0	448.9	899.5
5	1247.2	S.I.P.		

(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 5.616$

ADP = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = .472$

(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 2.370$

Post ID-2 12-3-82 Comp.

Absolute Open Flow	472	Mhd @ 15.025	Angle of Slope	63.5	Slope, n	.500
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Remarks: THE WELL LOADED WITH H₂O DURING THE 3rd and 4th RATES.

Approved By: Conventional	Conducted By: DAVIS SERVICES, INC.	Calculated By: RICK PAGAN	Checked By:
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