

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6/15/74	
Company Texas West Oil & Gas Corp.		Connection None	
Pool Antelope Ridge		Formation Morrow	
Completion Date		Total Depth 14,134'	Plug Back TD 14,080'
		Elevation 3552' GR	Farm or Lease Name Federal "9"
Csg. Size 5-1/2"	Wt. 26#	Set At 4,548"	Perforations: 14,132'
Tbg. Size 2-7/8"	Wt. 6.5#	Set At 2.441"	Perforations: 13,480'
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 13,480'	Well No. 1
Producing Thru Tubing	Reservoir Temp. °F 175 14,000'	Mean Annual Temp. °F	Baro. Press. - P _a 13.2
L 13,480'	H 13,480'	G _g .595	% CO ₂ .72
		% N ₂	% H ₂ S
		Prover	Meter Run Taps

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
1	(Tested w/2" orifice well tester)						6000				72 hrs.
2	2" X 1-1/4"			26.4		96	650	75			3 hrs.
3	2" X 1-1/4"			26.4		92	400	80			3 hrs.
4	2" X 1-1/4"			26.4		90	250	82			3 hrs.
5	2" X 1-1/4"			26.4		89	175	82			3 hrs.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	620 MCF		1.0	.9671	1.296	1.044	811
2	620 MCF		1.0	.9706	1.296	1.029	802
3	620 MCF		1.0	.9723	1.296	.965	754
4	620 MCF		1.0	.9732	1.296	.974	762
5							

NO.	P _t	Temp. °R	T _f	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	.989	556	1.57	.917	Dry	None	.595	X X X X X	672	354
2	.618	552	1.56	.945						
3	.394	550	1.55	.965						
4	.283	549	1.55	.974						
5										

P _c 6013.2 P _c ² 36,158.6		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.001}$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.001}$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		663.2	439.8	35,718.8	
2		413.2	170.7	35,987.9	
3		263.2	69.3	36,089.3	
4		188.2	35.4	36,123.2	
5					

Absolute Open Flow 763 Mcfd @ 15.025		Angle of Slope θ 45	Slope, n 1.000
Remarks: No condensate made during test.			
Approved By Commission:	Conducted By: Roy K. Valla	Calculated By: Roy K. Valla	Checked By: