

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual 60-day test ☒ Special		Test Date 4/2/76		APR 30 1976	
Company Yates Drilling Co.			Connection Transwestern Pipeline Co.		
Pool Burton Flat (Morrow)			Formation Morrow		Unit
Completion Date 5/22/75		Total Depth 11700		Plug Back TD 11489/370	
Elevation 3214 KB		Farm or Lease Name Avalon Fed.			
Csg. Size 5 1/2	Wt. 20#	d 4.778	Set At 11628	Perforations: From 11256 To 11266	
Tbg. Size 2-7/8	Wt. 6.5#	d 2.441	Set At 11218	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11208	
Producing Thru Tbg		Reservoir Temp. °F 186 @ 11000		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State N.M.			
L 11218	H 11218	G _g 0.580	% CO ₂ 1.001	% N ₂ 0.275	% H ₂ S Nil
Prover 4.026		Meter Run Flange		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.	4 x 1.375			650	4.0	65	1948	74			60 min.
2.				650	8.5	75	1749	74			60 min.
3.				650	18	76	1685	74			60 min.
4.				642	59	75	1492	74			60 min.
5.											

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.	9.071	51.505	663.2	.9952	1.313	1.052	642
2.		75.081	663.2	.9859	1.313	1.049	925
3.		109.259	663.2	.9850	1.313	1.048	1343
4.		196.613	655.2	.9859	1.313	1.049	2422
5.							

NO.	P _t	Temp. °R	T _i	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.	.993	525	1.504	.903	422/1		0.580		668	349
2.	.993	535	1.533	.909						
3.	.993	536	1.536	.910						
4.	.981	535	1.533	.909						
5.										

NO.	P _t ²	P _w	P _w ²	P _c 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.	2835.2	8038	1666		2.199	2.199
2.	2722.2	7410	2294			
3.	2636.2	6950	2754			
4.	2300.2	5291	4413			
5.						

Absolute Open Flow 5326 Mcfd @ 15.025				Angle of Slope θ 45°		Slope, n 1.00	
Remarks: 60-day connection 4-point							
Approved by Commission:		Conducted By: John Gray Howard L. Madison		Calculated By: Eddie M. Mahfood		Checked By: Ramon Hernandez	