

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

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ST file
 Form C-122
 Revised 9-1-65
 C-122

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-14-80		SEP 19 1980	
Company Yates Petroleum Corp.		Connection Transwestern Pipeline Company		O. C. D.	
Pool Wildcat Penn		Formation Penn		Unit ARTESIA, OFFICE	
Completion Date 7-3-80		Total Depth 5150' KB		Plug Back TD 4600'	
Csg. Size 5-1/2"		ID 5.012		Elevation 3726' KB	
Tbg. Size 2-7/8"		ID 2.441		Five Mile Draw LX Re	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual		Packer Set At 4811		Well No. 1	
Producing Thru Tubing L 4873 H 4873		Reservoir Temp. °F 107 ° 4878		Mean Annual Temp. °F 62	
Baro. Press. - P _a 13.2		State New Mexico		County Chaves	
Prover 2"		Meter Run 2"		Taps Flange	
G _g 0.636		% CO ₂ 0.40		% N ₂ 5.69	
% H ₂ S Nil		Prover		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	
1.	2.065 x 0.625			690	11	75	1600	92	1 hour
2.				690	20	75	1521	86	1 hour
3.				691	38	75	1364	88	1 hour
4.				691	61	75	1140	90	1 hour
5.				691		75	900	91	1 hour

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 O. Mcfd
1.	1.866	87.95	703.2	.9859	1.258	1.054	215
2.	1.866	118.59	703.2	.9859	1.258	1.054	289
3.	1.866	163.58	704.2	.9859	1.258	1.054	399
4.	1.866	207.26	704.2	.9859	1.258	1.054	506
5.							

NO.	P _r	Temp. °R	T _r	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.	1.063	535	1.520	.9003	894 Mcf/bbl.	48.3 Deg.	0.632	.636	661.5 P.S.I.A.	352 R
2.	1.063	535	1.520	.9003						
3.	1.064	535	1.520	.9002						
4.	1.064	535	1.520	.9002						
5.										

NO.	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1.	1860.2	3461	3042	1.4409	1.2597
2.			2440		
3.			1700		
4.			1059		
5.					

Absolute Open Flow 637 Mcfd @ 15.025		Angle of Slope θ 57.7 degrees		Slope, n .6321	
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Remarks: Static pressures by Bennett Wireline; Flowing pressures by CWT. Calculations worksheet C-122D attached. NOTE: Well loading up rapidly. Flow would not stabilize.

Approved By Bob Gary	Conducted By Eddie Mahfood	Checked By
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