

NEW MEXICO OIL 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 1-24-79		MAR 26 1979	
Company Yates Petroleum Corp. ✓			Connection Transwestern Pipeline Co.		
Pool Wildcat Wolfcamp			Unit ARTESIA, OFFICE		
Completion Date 11-14-78		Total Depth 7141' KB		Plug Back TD 4850' KB	
Elevation 3765' KB		Farm or Lease Name Divide "JW" Federal			
Csg. Size 4-1/2"	Wt. 10.5#	Set At 4.052	Perforations: From 4641 To 4727'		Well No. 1
Tbg. Size 2-3/8"	Wt. 4.7#	Set At 1.995	Perforations: From To		Unit Sec. Twp. Rye. K 4 17S 24E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At 4578' KB		County Eddy
Producing Thru Tubing		Reservoir Temp. °F 105 @ 4684'	Mean Annual Temp. °F 62	Boro. Press. - P _d 13.2	State New Mexico
L 4680	H 4680	G _g .647	% CO ₂ 0.05	% N ₂ 0.85	% H ₂ S Nil
Prover				Meter Run 2"	Taps Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1502	35			months
1.	2.067 x 0.750			300	8	66	1430	44			1 hour
2.				300	15	66	1389	54			1 hour
3.				300	29	66	1288	63			1 hour
4.				300	59	66	1056	71			1 hour
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, Mcfd
1	2.709	50.06	313.2	.9943	1.251	1.0292	174
2	2.709	68.54	313.2	.9943	1.251	1.0292	238
3	2.709	95.30	313.2	.9943	1.251	1.0292	330
4	2.709	135.94	313.2	.9943	1.251	1.0292	471
5							

NO.	P _t	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	0.468	526	1.425	.944	363.2 Mcf/bbl.	57.5 Deg.	0.639	XXXXXX	669.5 P.S.I.A.	369 R
2	0.468	526	1.425	.944				XXXXXX		
3	0.468	526	1.425	.944						
4	0.468	526	1.425	.944						
5										

P _c 1747.3 P _c ² 3053				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9286$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4554$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1			2749	304			
2			2574	479			
3			2201	852			
4			1470	1583			
5							

Absolute Open Flow 685 Mcfd @ 15.025				Angle of Slope @ 60.25 deg		Slope, n 0.5714	
Remarks: Pressures by dead weight testers. Calculations worksheet C-122D attached.							
Approved By Commission:		Conducted By: Bill Trembley, Jr.		Calculated By: Eddie Mahfood		Checked By:	