

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

SF
file
 Form C-122
 Revised 9-1-65
 C-122
RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-23-80		SEP 19 1980	
Company Yates Petroleum Corp.		Connection Transwestern Pipeline Company			
Pool <i>Pecos Slope - No Gas</i> <i>Wildcat</i>		Formation Abo		Unit ARTESIA OFFICE	
Completion Date 7-3-80		Total Depth 5150'	Plug Back TD 4811'	Elevation 3726'	Form or Lease Name Five Mile Draw LX Fed
Csg. Size 5-1/2"	Wt. 14#	d 5.012"	Set At 5146	Perforations: From 3816 To 3836	Well No. 1
Tub. Size 2-7/8"	Wt. 6.5#	d 2.441	Set At 4811	Perforations: From 4777 To 4778	Unit Sec. Twp. Rge. O 24 6S 25E
Type Well - Single - Blindhead - G.C. or G.O. Multiple Single				Packer Set At 4811'	County Chaves
Producing Thru Tubing		Reservoir Temp. °F 107 @ 4778	Mean Annual Temp. °F 62	Boro. Press. - P _a 13.2	State New Mexico
L 3821	H 3821	G _g 0.645	% CO ₂ 0.22	% N ₂ 5.31	% H ₂ S Nil
Prover		Meter Run 2"		Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow Days
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.	
SI							1015	92	1050	
1.	2.067 x 0.875			670	15	75	876	86	950	1 hour
2.				671	28	75	839	87	915	1 hour
3.				671	52	75	788	89	865	1 hour
4.				672	93	75	712	90	790	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	3.729	101.23	683.2	.9859	1.245	1.0557	489
2	3.729	138.41	684.2	.9859	1.245	1.0558	669
3	3.729	188.62	684.2	.9859	1.245	1.0558	912
4	3.729	252.44	685.2	.9859	1.245	1.0559	1220
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	1.034	535	1.494	.8972						
2	1.035	535	1.494	.8971						
3	1.035	535	1.494	.8971						
4	1.036	535	1.494	.8970						
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	1136.2	1291	1056	2.1881	2.1479
2			969		
3			856		
4			701		
5					

Absolute Open Flow		2620	Mcf @ 15.025	Angle of Slope	45.69 deg	Slope, n	0.9763
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Remarks: Static pressures by Bennett Wireline; Flowing pressures by DWT.
 Calculations worksheet C-122D attached. Casing pressure from gauges.

Approved By Comincons:	Conducted By: Don Weaver	Calculated By: Eddie Mahfood	Checked By:
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