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Form C-122
Revised 9-1-65

NE MEXICO OIL CONSERVATION COMM' ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-26-79		NOV 26 1979	
Company Yates Petroleum Corp.				Connection Transwestern Pipeline Company			
Pool Ken ... <u>Wildcat Upper Permian</u>				Formation Cisco			
Completion Date 10-7-79		Total Depth 8732' KB		Plug Back TD 7215' KB		Elevation 3365' KB	
Csg. Size 4-1/2"		Wt. 11.6#		Set At 8658 KB		Perforations: From 7105 To 7124' KB	
Thq. Size 2-3/8"		Wt. 4.7#		Set At 7054 KB		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 7054' KB		Unit Sec. Twp. Rge. H 28 17S 26E	
Producing Thru Tubing		Reservoir Temp. °F 128 @ 7115 KB		Mean Annual Temp. °F 62		Baro. Press. - P _a 13.2	
L 7108		H 7108		G _g 0.770		% CO ₂ 0.14	
				% N ₂ 1.90		% H ₂ S Nil	
				Prover 2"		Meter Run Flange	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
SI							1855
1.	2.067 x 0.750			130	10	75	1768
2.				130	21	75	1708
3.				130	41	75	1567
4.				130	76	75	1328
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	2.720	37.84	143.2	.9859	1.175	1.0443	125
2	2.720	54.84	143.2	.9859	1.175	1.0443	180
3	2.720	76.62	143.2	.9859	1.175	1.0443	252
4	2.720	104.32	143.2	.9859	1.175	1.0443	343
5							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 64.25 Mcf/bbl.		
1	0.584	535	1.361	.917	A.P.I. Gravity of Liquid Hydrocarbons 55.6 Deg.		
2	0.584	535	1.361	.917	Specific Gravity Separator Gas 0.724 XXXXXXXXXX		
3	0.584	535	1.361	.917	Specific Gravity Flowing Fluid XXXXX 0.770		
4	0.584	535	1.361	.917	Critical Pressure 667 P.S.I.A. 664 P.S.I.A.		
5					Critical Temperature 393 R 409 R		
F _c 2464.2 P _c ² 6072					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9921$		
NO	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4828$		
1			5511	561			
2			5135	937			
3			4289	1783			
4			3024	3048			
5							
Absolute Open Flow 509 Mcfd @ 15.025					Angle of Slope 60.25 deg		Slope, n 0.5716
Remarks: Static pressures by Bennett Wireline Company; Flowing pressures by DWT. Calculations worksheet C-122D attached.							
Approved By Commission:		Conducted By: Don Weaver		Calculated By: Eddie Mahfood		Checked By:	