

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

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

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-26-76		APR 30 1976	
Company Yates Petroleum Corp				Connection			
Pool Ind. Kennedy Farms - Morrow				Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 3-18-76		Total Depth 3997'		Plug Back TD 8810'		Elevation 3312' KB	
Farm or Lease Name Sweet Yates "FM" Com				Well No. 1			
Csg. Size 4 1/2"	Wt. 11.6	d 4.000	Set At 8857'	Perforations: From 8550 To 8556		Unit Sec. Twp. Rge. G 25 17S 26E	
Tbg. Size 2-3/8"	Wt. 4.6	d 1.995	Set At 8548	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 8493'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 62		Baro. Press. - P _a 13.2		State New Mexico	
L 8553	H 8553	Gg .626	% CO ₂ 0.26	% N ₂ 0.46	% H ₂ S Nil	Prover	Meter Run 3.0
						Flaps Flange	

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.	2.000			300	4	80	2315	75			1 hr
2.				300	22	68	2441	81			1 hr
3.				380	38	64	2298	81			1 hr
4.				580	50	63	2047	82			1 hr
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd
1	21.32	35.395	313.2	.9813	1.264	.027	961
2		83.008	313.2	.9924	1.264	.025	2275
3		122.236	393.2	.9962	1.264	.033	3390
4		172.221	593.2	.9971	1.264	.050	4852
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.465	540	1.458	.948	A.P.I. Gravity of Liquid Hydrocarbons	56
2.	.465	528	1.474	.952	Specific Gravity Separator Gas	.626
3.	.584	524	1.474	.927	Specific Gravity Flowing Fluid	X X X X X
4.	.881	523	1.477	.907	Critical Pressure	673 P.S.I.A.
5.					Critical Temperature	367 °R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.877$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.283$
1		3447.2	11883	544		
2		3247.2	10544	1893		
3		3079.2	9481	2946		
4		2847.2	8107	4320		
5						

Absolute Open Flow				11093	Mcf/d @ 15.025	Angle of Slope θ	45	Slope, n	.781
Remarks: EHP by Bennett Wireline. Test Witnessed by TWPLCO									
Approved By Commission:			Conducted By: Don Weaver			Calculated By: Eddie Mahfood			Checked By: