

NE 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 4-23-76		APR 28 1976	
Company Yates Petroleum Corp.				Connection None		Unit D. C. C.	
Pool Kennedy Farms				Formation Morrow		ARTESIA, OFFICE	
Completion Date 4-6-76		Total Depth 8597 8460		Plug Back TD 8460		Elevation 3362 KB	
Csg. Size 4 1/2		Wt. 11.6		Set At 4.000		Perforations: From 8382 To 8394	
Tbg. Size 2-3/8		Wt. 4.7		Set At 1.995		Perforations: From 8324 To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 8324		County Eddy	
Producing Thru tubing		Reservoir Temp. °F @ 140		Mean Annual Temp. °F 62		Baro. Press. - P _a 13.2	
L 8388		H 8388		G _g 0.620		Prover 3	
				% CO ₂ 0.116		% H ₂ S Nil	
				% N ₂ 0.390		Meter Run 3	
						orifice	

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.	
SI							2567			
1.	3	X	1.000	295	5.5	79	2474	75		
2.				300	19	92	2340	75		
3.				300	39	90	2186	75		
4.				307	63	85	1972	75		
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	4.801	41.17	308.2	.9822	1.270	1.024	252
2		75.08	313.2	.9706	1.270	1.022	454
3		110.52	313.2	.9723	1.270	1.023	670
4		147.55	320.2	.9768	1.270	1.023	899
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	TSTM	Mcf/bbl.
1	.46	539	1.50	.953	A.P.I. Gravity of Liquid Hydrocarbons		
2	.46	552	1.54	.957	Specific Gravity Separator Gas	0.620	X X X X X X X X
3	.46	550	1.53	.956	Specific Gravity Flowing Fluid	X X X X X	
4	.47	545	1.52	.955	Critical Pressure	678	P.S.I.A.
5					Critical Temperature	359	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) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		3144.2	9886	802	2.508	2.017
2		2977.2	8864	1824		
3		2794.2	7808	2880		
4		2535.2	6427	4261		
5						

Absolute Open Flow		1820	Mcf/d @ 15.025	Angle of Slope	52.7	Stn	7632
Remarks:							
Approved By Commission:		Conducted By: Don Weaver		Calculated By: Eddie Mahfood		Checked By:	