

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 11-21-74		NOV 21 1974	
Company Yates Petroleum Corp.				Connection Transwestern Pipeline Co.				
Pool Atoka West				Formation Morrow				Unit O.C.E. ARTESIA, OFFICE
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name
				8796'		3438' KB		Vandiver "DO" Com
Csg. Size	Wt.	d	Set At	Perforations:		Well No.		
5 1/2"	17#		8861'	From 8654 1/2' To 8710'		1		
Tbg. Size	Wt.	d	Set At	Perforations:		Unit Sec. Twp. Rge.		
2 7/8"	6.5#		8639'	From To		N 7 18S 26E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple					Packer Set At		County	
Single					8639'		Eddy	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State
Tubing		@ 140				13.4		New Mexico
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps
	8682'	0.626	0.68	0.37	Nil		4.026"	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.	
SI							1242			
1.	4		2.750	380	10	91	1180	70		
2.	4		2.750	390	19	95	1115	76		
3.	4		2.750	398	40	94	965	77		
4.	4		2.750	415	74	89	598	74		
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	41.10	62.69	393	.9715	1.264	1.035	3.275
2	41.10	87.50	403	.9680	1.264	1.035	4.554
3	41.10	128.22	411	.9683	1.264	1.035	6.679
4	41.10	177.97	428	.9732	1.264	1.037	9.313
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
					282.6	
					A.P.I. Gravity of Liquid Hydrocarbons	53
					Specific Gravity Separator Gas	0.626
					Specific Gravity Flowing Fluid	XXXXXX
					Critical Pressure	671 P.S.I.A.
					Critical Temperature	366 °R

NO.	P _r	P _w	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		1578.4	2491.3	102.1		11.6	11.6
2		1562.4	2441.1	152.3			
3		1532.4	2369.8	223.6			
4		1510.4	2281.3	312.1			
5							

Absolute Open Flow <u>77.476</u> Mcfd @ 15.025				Angle of Slope <u>45</u>		Slope, n <u>1.000</u>	
Remarks: <u>Witnessed by Brent Line Carrier, Transwestern Pipeline Company</u>							
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	
		Don Weaver		Eddie Mahfood			