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ARTESIA, OFFICE

Type Test [x] Initial [] Annual [] Special				Test Date 4/10/84	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company	
Pool Pecos Slope				Formation Abo	
Completion Date 1/27/83				Total Depth 4425.0'	
Csg Size 4.500"				Wt. 9.500#	
d 4.090"				Set At 4425.0'	
Tbg Size 2.875"				Wt. 6.500#	
d 2.441"				Set At 3760.0'	
Type Well Single				Packer Set At 3760.0'	
Producing Thru Tubing				Resv. Temp. °F 102 @ 3901'	
				Mean Temp. °F 62.0	
				Baro. Press. - Pa 13.2 psia.	
L 3760.0'		H 3760.0'		Gg .649	
				%CO2 .03	
				%N2 5.71	
				%H2S 0.00	
				Prover 0.000"	
				Meter Run 2.000"	
				Taps Flange	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO	Prover Size	Orifice X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig		Temp. °F
SI	0.000	X 0.000	0	0.0	68	1006	0	0	0	0 hrs.
1.	2.067	X 1.375	150	11.9	50	951	62	0	0	24 hrs.
2.	2.067	X 1.375	145	13.1	68	938	62	0	0	24 hrs.
3.	2.067	X 1.375	140	26.4	68	918	62	0	0	24 hrs.
4.	2.067	X 1.375	135	34.0	69	900	62	0	0	24 hrs.
5.	0.000	X 0.000	0	0.0	0	0	0	0	0	0 hrs.

RATE OF FLOW CALCULATIONS

NO	Coefficient (24 HOUR)	$\sqrt{hw/P_m}$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	10.204	44.07	163.20	1.010	1.241	1.014	571
2.	10.204	45.52	158.20	.992	1.241	1.011	579
3.	10.204	63.60	153.20	.992	1.241	1.011	808
4.	10.204	70.98	148.20	.991	1.241	1.010	901
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/bbl.
1.	.25	510	1.43	.973	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.24	528	1.48	.978	Specific Gravity Separator Gas	.649	xxxxxxx
3.	.23	528	1.48	.978	Specific Gravity Flowing Fluid	.649	xxxxxxx
4.	.22	529	1.49	.979	Critical Pressure	660.9 PSIA	660.9 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	356.1°R	356.1°R

NO	Pt ²	Pw ²	Pw ²	Pc ² -Pw ² (1)	Pc ²	Pc ² -Pw ²	(2)	Pc ²	Pc ² -Pw ²	n
1.	929.7	964.9	931.1	107.7	5.2220					3.3750
2.	904.8	952.0	906.2	132.5						
3.	867.1	932.7	869.9	168.8						
4.	833.9	915.1	837.4	201.3						
5.	0.0	0.0	0.0	0.0						

$$ROF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3040 \text{ Mcfd}$$

Absolute Open Flow 3040 Mcfd @ 15.025 Angle of Slope, θ 36 Slope, n .736

Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Andie Carpenter	Checked By:
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Adopted 9-1-65

DATE 6/7/84

COMPANY Yates Petroleum Corporation LEASE Thorpe "MI" Federal WELL NO. 8LOCATION: Unit A Section 22 Township 7S Range 25EL 3760.0 H 3760.0 L/H 1.000 G .649 %CO₂ .03 %N₂ 5.71 %H₂S 0.00d 2.441 Fr .010495 GH 2440.2 Pcr 660.9 Tcr 356.1

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.571	.579	.808	.901	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	562.0	562.0	562.0	562.0	0.0
4 T=(Tw+Ts)/2	542.0	542.0	542.0	542.0	0.0
5 Z(Est.)	.864	.866	.868	.870	0.000
6 TZ	468.4	469.3	470.6	471.8	0.0
7 GH/TZ	5.210	5.200	5.185	5.172	0.000
8 e ^s (Table XIV)	1.216	1.215	1.215	1.214	0.000
9 1-e ^{-s} (Table XIV)	.177	.177	.177	.176	0.000
10 Pt	964.2	951.2	931.2	913.2	0.0
11 Pt ² /1000	929.7	904.8	867.1	833.9	0.0
12 Fr(Table XV)	.010495	.010495	.010495	.010495	0.000000
13 Fc=FrTZ	4.916	4.925	4.939	4.952	0.000
14 FcQm	2.809	2.850	3.991	4.460	0.000
15 L/H(FcQm) ²	7.890	8.125	15.932	19.892	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	1.400	1.439	2.815	3.507	0.000
17 Pw ² =Pt ² +Fw	931.1	906.2	869.9	837.4	0.0
18 Ps ² =e ^s Pw ²	1132.0	1101.3	1056.7	1016.7	0.0
19 Ps	1063.9	1049.5	1028.0	1008.3	0.0
20 P=(Pt+Ps)/2	1014.1	1000.3	979.6	960.8	0.0
21 Pr=(P/Pcr)	1.53	1.51	1.48	1.45	0.00
22 Tr=(T/Tcr)	1.52	1.52	1.52	1.52	0.00
23 Z(Table XI)	.864	.866	.868	.870	0.000

Company	Yates Petroleum Corporation
Well	Thorpe "MI" Federal no. 8
Location	R, 22-7S-25E
County	Chaves
Date	6/7/84

