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File

Type Test [x] Initial [] Annual [] Special				Test Date 12/21/88			
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company		APR 10 '89	
Pool <i>PECOS Slope ABO</i>				Formation Pecos Slope		Unit O. C. O.	
Completion Date 12/20/82		Total Depth 4200.0'		Plug Back TD 4148.0'		Elevation 3694.0'	
Csg Size 4.500"		Wt. 9.500#		d 4.090"		Set At 4188.0'	
Tbg Size 2.375"		Wt. 4.700#		d 1.995"		Set At 3653.0'	
Perforations: From 3684.0' To 3859.0'		Perforations: From 0.0' To 0.0'		Farm or Lease Name Savage NI Federal		Well No. 3	
Type Well Single		Packer Set At 3653.0'		County Chaves		State New Mexico	
Producing Thru Tubing		Resv. Temp. °F 95 @ 3653'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.	
L 3653.0'		H 3653.0'		Gg .638		%CO2 .12	
%N2 4.79		%H2S 0.00		Prover 0.000"		Meter Run 2.000"	
Taps Flange							

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Orifice Size 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	49	920	0	0	0	0 hrs.
1.	2.067 X .750	180	2.0	48	618	62	0	0	24 hrs.
2.	2.067 X .750	180	3.1	50	581	62	0	0	24 hrs.
3.	2.067 X .750	170	4.1	49	371	62	0	0	24 hrs.
4.	2.067 X .750	165	5.0	49	200	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)	hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	2.709	19.66	193.20	1.012	1.252	1.017	69
2.	2.709	24.47	193.20	1.010	1.252	1.016	85
3.	2.709	27.41	183.20	1.011	1.252	1.016	95
4.	2.709	29.85	178.20	1.011	1.252	1.015	104
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.	.29	508	1.43	.968	A.P.I. Gravity of Liquid Hydrocarbons	0.000 Deg.
2.	.29	510	1.44	.968	Specific Gravity Separator Gas	.638
3.	.28	509	1.43	.970	Specific Gravity Flowing Fluid	.638
4.	.27	509	1.43	.971	Critical Pressure	663.2 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	354.9°R

Pc	933.2	Pc ²	870.9					
NO	Pt ²	Pw	Pw ²	Pc ² -Pw ²	(1)	$\frac{Pc^2}{Pc^2-Pw^2} = \frac{1.0640}{}$	(2)	$\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = \frac{1.0478}{}$
1.	398.4	631.2	398.5	472.4				
2.	353.1	594.3	353.2	517.7				
3.	147.6	384.4	147.7	723.1				
4.	45.5	213.5	45.6	825.3				
5.	0.0	0.0	0.0	0.0				

ROF = Q

$\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = \frac{109 \text{ Mcfd}}{}$

Absolute Open Flow 109 Mcfd @ 15.025 Angle of Slope, θ 37 Slope, n .752

Approved By: Conducted By: David Weaver Calculated By: Andrea Carpenter Checked By: