

IN MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

2/51 P.K.
Form C-122

RECEIVED BY

JAN 19 1984

O. C. D.

ARTESIA, OFFICE

Type Test [x] Initial [] Annual [] Special				Test Date 11/26/83	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company	
Pool Pecos Slope <i>ABO</i>				Formation Abo	
Completion Date 7/9/83				Unit	
Total Depth 4150.0'		Plug Back TD 4104.0'		Elevation 3783.8'	
Csg Size 4.500"		Set At 4150.0'		Perforations: From 3677.0' To 3962.0'	
Tbg Size 2.375"		Set At 3650.0'		Perforations: From 0.0' To 0.0'	
Type Well Single				Packer Set At 3652.0'	
Producing Thru Tubing		Resv. Temp. °F 108 @ 3650'		Baro. Press. - Pa 13.2 psia.	
L 3650.0'		Gg .643		Prover 0.000"	
4 3650.0'		%CO2 .04		%H2 4.96	
		%H2S 0.00		Meter Run 2.000"	
				Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Size	Orifice Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	
SI	0.000	x 0.000	0	0.0	62	1010	0	0	0	0 hrs.
1.	2.067	x 1.375	130	23.5	62	921	62	0	0	24 hrs.
2.	2.067	x 1.375	140	32.3	62	892	62	0	0	24 hrs.
3.	2.067	x 1.375	150	38.6	62	841	62	0	0	24 hrs.
4.	2.067	x 1.375	160	62.0	60	800	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)	$\sqrt{hwP_m}$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	10.204	58.01	143.20	.998	1.247	1.011	745
2.	10.204	70.34	153.20	.998	1.247	1.012	904
3.	10.204	79.37	163.20	.998	1.247	1.012	1021
4.	10.204	103.63	173.20	1.000	1.247	1.014	1337
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.	.22	522	1.47	.979	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.23	522	1.47	.977	Specific Gravity Separator Gas	.643	xxxxxxxxxxxxxx
3.	.25	522	1.47	.976	Specific Gravity Flowing Fluid	xxxxxx	.643
4.	.26	520	1.46	.973	Critical Pressure	662.4 PSIA	662.4 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	356.2°R	356.2°R

Pc 1023.2	Pc2 1046.9						
NO	Pt2	Pw	Pw2	Pc2-Pw2	(1)	Pc2	(2)
1.	872.7	937.8	879.4	167.5	$\frac{Pc2}{Pc2-Pw2} = 2.8751$	$\left[\frac{Pc2}{Pc2-Pw2} \right]^n = 2.2211$	
2.	819.4	910.6	829.3	217.7			
3.	729.7	861.6	742.4	304.6			
4.	661.3	826.6	683.2	363.7			
5.	0.0	0.0	0.0	0.0			

$$AOF = Q \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 2969 \text{ Mcfd}$$

Absolute Open Flow 2969 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .756
Remarks:

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