NEW MEXICO OIL CONSERVATION COMMISSION — Form C-122

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

JAN 11 1983

O. C. D.

ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11/08/82	
Company: Yates Petroleum Corporation		Connection: Transwestern Pipeline Company			
Pool: Pecos Slope - Abo		Formation: Abo			Unit
Completion Date: 04/01/82	Total Depth: 4100.0'	Plug Back TD: 3976.0'	Elevation: 4017.5'		Farm or Lease Name: Redman "OY" State
Csg Size: 4.500" / Wt.: 9.500# / d: 4.090" / Set At: 4035.0'		Perforations: From 3624.0' To 3883.0'			Well No.: 5
Tbg Size: 2.375" / Wt.: 4.700# / d: 1.995" / Set At: 3618.0'		Perforations: From 0.0' To 0.0'			Unit: F / Sec: 35 / Twp: 4S / Rge: 24E
Type Well: Single		Packer Set At: 3618.0'			County: Chaves
Producing Thru: Tubing	Resv. Temp. °F: 100 @ 3754'	Mean Temp. °F: 62.0	Baro. Press. - Pa: 13.2 psia.		State: New Mexico

L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps
3618.0'	3618.0'	.679	3.81	5.21	0.00	0.000"	2.000"	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
NO	Prover Size	X Orifice Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	Duration of Flow
SI	0.000	X 0.000	0	0.0	72	983	0	0	0	0 hrs.
1.	2.067	X 1.125	140	51.7	70	771	62	0	0	24 hrs.
2.	2.067	X 1.125	135	66.0	70	735	62	0	0	24 hrs.
3.	2.067	X 1.125	130	79.0	70	700	62	0	0	24 hrs.
4.	2.067	X 1.125	130	97.7	72	655	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)	$\sqrt{h_w P_m}$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	6.397	89.00	153.20	.991	1.214	1.012	692
2.	6.397	98.90	148.20	.991	1.214	1.011	769
3.	6.397	106.36	143.20	.991	1.214	1.011	827
4.	6.397	118.28	143.20	.989	1.214	1.010	917
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.23	530	1.46	.977
2.	.22	530	1.46	.978
3.	.21	530	1.46	.979
4.	.21	532	1.46	.979
5.	0.00	0	0.00	0.000

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons: 0.000 Deg.

Specific Gravity Separator Gas	.679	xxxxxxxxxxxxx
Specific Gravity Flowing Fluid	xxxxx	.679
Critical Pressure	677.0 PSIA	677.0 PSIA
Critical Temperature	364.0°R	364.0°R

Pc 996.2 P_c^2 992.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	615.0	788.0	621.0	371.4
2.	559.8	753.2	567.3	425.1
3.	508.7	719.3	517.4	475.0
4.	446.5	676.2	457.3	535.1
5.	0.0	0.0	0.0	0.0

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8552$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6098$

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1477$ Mcfd

Absolute Open Flow: 1477 Mcfd @ 15.025 | Angle of Slope, θ: 38 | Slope, n: .770

Remarks:

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