NEW MEXICO OIL CONSERVATION COMMISSION — Form C-122

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

APR 10 '89

Type Test: [x] Initial [ ] Annual [ ] Special							Test Date: 5/21/88		
Company: Yates Petroleum Corporation				Connection: Transwestern Pipeline Company					
Pool: ~~Abo~~ Pecos Slope ABO				Formation: Pecos Slope				Unit	
Completion Date: 4/19/83		Total Depth: 4650.0'		Plug Back TD: 4584.0'		Elevation: 3652.0'		Farm or Lease Name: Huckaby TJ Federal	
Csg Size: 4.500"	Wt.: 9.500#	d: 4.090"	Set At: 4650.0'	Perforations: From 4164.0' To 4488.0'				Well No.: 5	
Tbg Size: 2.375"	Wt.: 4.700#	d: 1.995"	Set At: 4115.0'	Perforations: From 0.0' To 0.0'				Unit: K	Sec: 19	Twp: 8S	Rge: 26E
Type Well: Single				Packer Set At: 4115.0'				County: Chaves	
Producing Thru: Tubing		Resv. Temp. °F: 103 @ 4105'		Mean Temp. °F: 62.0		Baro. Press. - Pa: 13.2 psia.		State: New Mexico	

L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps
4115.0'	4115.0'	.662	.05	7.68	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	85	1000	0	0	0	0 hrs.
1.	3.068	X 1.000	120	10.4	83	792	62	0	0	24 hrs.
2.	3.068	X 1.000	130	13.4	86	734	62	0	0	24 hrs.
3.	3.068	X 1.000	130	19.3	85	568	62	0	0	24 hrs.
4.	3.068	X 1.000	155	30.0	86	350	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)	$\sqrt{hwPm}$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	4.788	37.22	133.20	.979	1.229	1.009	216
2.	4.788	43.81	143.20	.976	1.229	1.010	254
3.	4.788	52.57	143.20	.977	1.229	1.010	305
4.	4.788	71.04	168.20	.976	1.229	1.012	413
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.20	543	1.53	.981
2.	.22	546	1.54	.980
3.	.22	545	1.54	.980
4.	.26	546	1.54	.977
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: .662 | xxxxxxxxxxxx

Specific Gravity Flowing Fluid: xxxxx | .662

Critical Pressure: 657.2 PSIA | 657.2 PSIA

Critical Temperature: 354.9°R | 354.9°R

Pc 1013.2 Pc^2 1026.6

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	648.3	805.6	649.0	377.6
2.	558.3	747.8	559.2	467.4
3.	337.8	582.4	339.1	687.4
4.	131.9	366.7	134.5	892.1
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2} = 1.1509$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 1.1113$

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 459$ Mcfd

Absolute Open Flow: 459 Mcfd @ 15.025 | Angle of Slope, θ: 37 | Slope, n: .751

Remarks:

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