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ARTESIA, OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 8/7/84	
Company: Yates Petroleum Corporation			Connection: Transwestern Pipeline Company		
Pool: Pecos Slope Abo			Formation: Abo		Unit
Completion Date: 1/13/83	Total Depth: 4150.0′		Plug Back TD: 4087.0′	Elevation: 3923.3′	Farm or Lease Name: Skinny "QO" State
Csg Size: 4.500" / Wt.: 9.500# / d: 4.090" / Set At: 4127.0′			Perforations: From 3684.0′ To 3853.0′		Well No.: 5
Tbg Size: 2.375" / Wt.: 4.700# / d: 1.995" / Set At: 3650.0′			Perforations: From 0.0′ To 0.0′		Unit Sec Twp Rge: P 16 S 25E
Type Well: Single			Packer Set At: 23650.3′		County: Chaves
Producing Thru: Tubing	Resv. Temp. °F: 100 @ 3635′		Mean Temp. °F: 62.0	Baro. Press. - Pa: 13.2 psia.	State: New Mexico

L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps
3650.0′	3650.0′	.643	.01	5.16	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	70	1010	0	0	0	0 hrs.
1.	2.067	X 1.125	160	18.2	70	957	62	0	0	24 hrs.
2.	2.067	X 1.125	160	25.1	70	945	62	0	0	24 hrs.
3.	2.067	X 1.125	180	59.5	70	890	62	0	0	24 hrs.
4.	2.067	X 1.125	190	65.0	70	865	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.	6.397	56.14	173.20	.991	1.247	1.012	449
2.	6.397	65.93	173.20	.991	1.247	1.012	527
3.	6.397	107.22	193.20	.991	1.247	1.014	859
4.	6.397	114.93	203.20	.991	1.247	1.015	922
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.26	530	1.49	.976
2.	.26	530	1.49	.976
3.	.29	530	1.49	.972
4.	.31	530	1.49	.971
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: .643 | xxxxxxxxxxxx
Specific Gravity Flowing Fluid: xxxxx | .643
Critical Pressure: 661.9 PSIA | 661.9 PSIA
Critical Temperature: 355.7°R | 355.7°R

Pc 1023.2 Pc^2 1046.9

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	941.3	971.4	943.7	103.3
2.	918.1	959.9	921.4	125.5
3.	815.8	908.1	824.6	222.3
4.	771.2	884.0	781.4	265.5
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2} = 4.7053$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 3.7148$

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 3192$ Mcfd

Absolute Open Flow	Angle of Slope, θ	Slope, n
3192 Mcfd @ 15.025	40	.847

Remarks:

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