C/SF File

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

Form C-122

RECEIVED
MAY 04 '88
O. C. D.
ARTESIA, OFFICE

87330 ✓ 4-96

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 4/1/88	
Company: Yates Petroleum Corporation			Connection: Transwestern Pipeline Company		
Pool: Pecos Slope Abo			Formation: Abo		Unit
Completion Date: 6/13/84	Total Depth: 6456.0'		Plug Back TD: 4950.0'	Elevation: 3804.0'	Farm or Lease Name: Whitworth RU State
Csg Size: 5.500" / Wt.: 14.000#	d: 5.012"	Set At: 6454.0'	Perforations: From 4862.0' To 4872.0'		Well No.: 3
Tbg Size: 2.875" / Wt.: 6.500#	d: 2.441"	Set At: 4800.0'	Perforations: From 0.0' To 0.0'		Unit: M / Sec: 12 / Twp: 9S / Rge: 26E
Type Well: Single			Packer Set At: 4800.0'		County: Chaves
Producing Thru: Tubing	Resv. Temp. °F: 102 @ 4972'	Mean Temp. °F: 62.0	Baro. Press. - Pa: 13.2 psia.		State: New Mexico

L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps
4800.0'	4800.0'	.613	.18	3.09	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	50	1028	0	0	0	0 hrs.
1.	2.067 X 1.250	195	42.2	50	778	62	0	0	24 hrs.
2.	2.067 X 1.250	160	57.7	50	753	62	0	0	24 hrs.
3.	2.067 X 1.250	160	70.6	50	643	62	0	0	24 hrs.
4.	2.067 X 1.250	160	100.0	50	590	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.	8.134	93.73	208.20	1.010	1.277	1.017	1000
2.	8.134	99.97	173.20	1.010	1.277	1.014	1063
3.	8.134	110.58	173.20	1.010	1.277	1.014	1176
4.	8.134	131.61	173.20	1.010	1.277	1.014	1400
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.31	510	1.45	.967
2.	.26	510	1.45	.973
3.	.26	510	1.45	.973
4.	.26	510	1.45	.973
5.	0.00	0	0.00	0.000

Gas Liquid Hydrocarbon Ratio 1039.100 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 52.100 Deg.
Specific Gravity Separator Gas .613 xxxxxxxxxxxx
Specific Gravity Flowing Fluid xxxxx .616
Critical Pressure 667.2 PSIA 667.1 PSIA
Critical Temperature 351.3°R 352.3°R

Pc 1041.2 Pc^2 1084.1

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	626.0	794.5	631.3	452.8
2.	587.1	770.1	593.0	491.1
3.	430.6	661.8	438.0	646.1
4.	363.9	612.0	374.5	709.6
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2}$ = 1.5279 (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n$ = 1.3731

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n$ = 1922 Mcfd

Absolute Open Flow 1922 Mcfd @ 15.025 | Angle of Slope, θ 37 | Slope, n .748

Remarks:

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