

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

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File

Form C-122

Type Test [x] Initial [ ] Annual [ ] Special				Test Date 8/26/84	
Company Yates Petroleum Corporation			Connection Transwestern Pipeline Company		
Pool Pecos Slope			Formation Abo		Unit
Completion Date 2/25/83		Total Depth 4200.0'		Plug Back TD 4135.0'	Elevation 3652.0'
Farm or Lease Name Binnion "TT" Fed					
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4196.0'	Perforations: From 3832.0' To 3940.0'	
Well No. 1					
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3793.0'	Perforations: From 0.0' To 0.0'	
Unit Sec Twp Rge G 24 7S 25E					
Type Well Single				Packer Set At 3793.0'	
County Chaves					
Producing Thru Tubing		Resv. Temp. °F 104 @ 3886'		Mean Temp. °F 62.0	
				Baro. Press. - Pa 13.2 psia.	
State New Mexico					
L 3793.0'	H 3793.0'	Gg .641	%CO2 .03	%N2 5.76	%H2S 0.00
Prover 0.000"		Meter Run 2.000"		Taps Flange	

NO	FLOW DATA			TUBING DATA		CASING DATA		Duration of Flow
	Prover Orifice Size X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	
SI	0.000 X 0.000	0	0.0	70	1010	0	0	0 hrs.
1.	2.067 X 1.250	210	8.1	70	953	62	0	24 hrs.
2.	2.067 X 1.250	190	13.1	70	935	62	0	24 hrs.
3.	2.067 X 1.250	190	68.0	70	784	62	0	24 hrs.
4.	2.067 X 1.250	190	70.0	70	750	62	0	24 hrs.
5.	0.000 X 0.000	0	0.0	0	0	0	0	0 hrs.

RATE OF FLOW CALCULATIONS

NO	Coefficient (24 HOUR)	√hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	8.134	42.52	223.20	.991	1.249	1.016	435
2.	8.134	51.59	203.20	.991	1.249	1.015	527
3.	8.134	117.55	203.20	.991	1.249	1.015	1200
4.	8.134	119.26	203.20	.991	1.249	1.015	1218
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.	.34	530	1.50	.968	A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.
2.	.31	530	1.50	.971	Specific Gravity Separator Gas .641 xxxxxxxxxxxxxxx
3.	.31	530	1.50	.971	Specific Gravity Flowing Fluid xxxxxx .641
4.	.31	530	1.50	.971	Critical Pressure 661.1 PSIA 661.1 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature 353.4°R 353.4°R

NO	Pt <sup>2</sup>	Pw	Pw <sup>2</sup>	Pc <sup>2</sup> -Pw <sup>2</sup>	(1) $\frac{Pc^2}{Pc^2-Pw^2}$	(2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n$
1.	933.5	967.4	935.9	111.1	2.3486	1.8842
2.	899.1	950.0	902.5	144.4		
3.	635.5	808.6	653.8	393.1		
4.	582.5	775.5	601.4	445.6		
5.	0.0	0.0	0.0	0.0		

AOF = Q  $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 2294$  Mcfd

Absolute Open Flow 2294 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .742  
Remarks:

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

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (Pw) C-122D

Adopted 9-1-65

DATE 12/28/84

COMPANY Yates Petroleum Corporation LEASE Binnion "TT" Fed WELL NO. 1

LOCATION: Unit G Section 24 Township 7S Range 25E

L 3793.0 H 3793.0 L/H 1.000 G .641 %CO<sub>2</sub> .03 %N<sub>2</sub> 5.76 %H<sub>2</sub>S 0.00

d 1.995 Fr .017777 GH 2431.3 Pcr 661.1 Tcr 353.4

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.435	.527	1.200	1.218	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	564.0	564.0	564.0	564.0	0.0
4 T=(Tw+Ts)/2	543.0	543.0	543.0	543.0	0.0
5 Z(Est.)	.869	.871	.889	.893	0.000
6 TZ	471.8	473.0	482.7	485.1	0.0
7 GH/TZ	5.153	5.140	5.036	5.012	0.000
8 e <sup>s</sup> (Table XIV)	1.213	1.213	1.208	1.207	0.000
9 1-e <sup>-s</sup> (Table XIV)	.176	.175	.172	.171	0.000
10 Pt	966.2	948.2	797.2	763.2	0.0
11 Pt <sup>2</sup> /1000	933.5	899.1	635.5	582.5	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.388	8.408	8.586	8.623	0.000
14 FcQm	3.647	4.429	10.305	10.501	0.000
15 L/H(FcQm) <sup>2</sup>	13.304	19.618	106.196	110.263	0.000
16 Fw=L/H(FcQm) <sup>2</sup> (1-e <sup>-s</sup> )	2.338	3.440	18.268	18.894	0.000
17 Pw <sup>2</sup> =Pt <sup>2</sup> +Fw	935.9	902.5	653.8	601.4	0.0
18 Ps <sup>2</sup> =e <sup>s</sup> Pw <sup>2</sup>	1135.4	1094.4	789.6	725.7	0.0
19 Ps	1065.5	1046.1	888.6	851.9	0.0
20 P=(Pt+Ps)/2	1015.9	997.2	842.9	807.5	0.0
21 Pr=(P/Pcr)	1.54	1.51	1.28	1.22	0.00
22 Tr=(T/Tcr)	1.54	1.54	1.54	1.54	0.00
23 Z(Table XI)	.869	.871	.889	.893	0.000

Company	<u>Yates Petroleum Corporation</u>
Well	<u>Binnion "TT" Fed No. 1</u>
Location	<u>G, 24-7S-25E</u>
County	<u>Chaves</u>
Date	<u>12/28/84</u>

