

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FORM

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Form C-122

JAN 3 1985

O. C. D.
ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8/29/84				
Company Yates Petroleum Corporation					Connection Transwestern Pipeline Company				
Pool Pecos Slope					Unit Abo				
Completion Date 4/26/83		Total Depth 4300.0'		Plug Back TD 4247.0'		Elevation 3649.0'		Farm or Lease Name Binnion "TT" Fed	
Csg Size 4.500"	Wt. 9.050#	d 4.090"	Set At 4300.0'	Perforations: From 3929.0' To 3940.0'		Well No. 2			
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3879.0'	Perforations: From 0.0' To 0.0'		Unit Sec Twp Rge K 24 7S 25E			
Type Well Single					Packer Set At 3879.0'		County Chaves		
Producing Thru Tubing		Resv. Temp. °F 106 @ 3878'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico	
L 3879.0'	H 3879.0'	Gg .641	%CO2 .03	%N2 5.76	%H2S 0.00	Prover 0.000"	Meter Run 2.000"	Taps Flange	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Orifice Size X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	
SI	0.000 X 0.000	0	0.0	70	1010	0	0	0	0 hrs.
1.	2.067 X 1.250	300	6.1	70	956	62	0	0	24 hrs.
2.	2.067 X 1.250	220	11.9	70	933	62	0	0	24 hrs.
3.	2.067 X 1.250	210	19.8	70	916	62	0	0	24 hrs.
4.	2.067 X 1.250	195	29.0	70	890	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)	1/hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	8.134	43.71	313.20	.991	1.249	1.024	450
2.	8.134	52.68	233.20	.991	1.249	1.017	539
3.	8.134	66.48	223.20	.991	1.249	1.016	680
4.	8.134	77.70	208.20	.991	1.249	1.015	794
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.	.47	530	1.50	.954	A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.
2.	.35	530	1.50	.967	Specific Gravity Separator Gas .641 xxxxxxxxxxxxxxx
3.	.34	530	1.50	.968	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

Pc 1023.2 Pc² 1046.9

NO	Pt ²	Pw	Pw ²	Pc ² -Pw ² (1)	Pc ² / (Pc ² -Pw ²) = 4.7381	(2) [Pc ² / (Pc ² -Pw ²)] ⁿ = 3.2511
1.	939.3	970.5	941.9	105.0		
2.	895.3	948.1	899.0	148.0		
3.	863.4	932.4	869.3	177.6		
4.	815.8	907.6	823.8	223.1		
5.	0.0	0.0	0.0	0.0		

AOF = Q [Pc² / (Pc²-Pw²)]ⁿ = 2580 Mcfd

Absolute Open Flow	2580 Mcfd @ 15.025	Angle of Slope, θ	37	Slope, n	.758
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Remarks: _____

Approved By:	Conducted By: David Weaver	Calculated By: Andie Carpenter	Checked By:
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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. 2

LOCATION: Unit K Section 24 Township S Range 25E

L 3879.0 H 3879.0 L/H 1.000 G .641 %CO₂ .03 %N₂ 5.76 %H₂S 0.00

d 1.995 Fr .017777 GH 2486.4 Pcr 661.1 Tcr 353.4

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.450	.539	.680	.794	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	566.0	566.0	566.0	566.0	0.0
4 T=(Tw+Ts)/2	544.0	544.0	544.0	544.0	0.0
5 Z(Est.)	.869	.872	.874	.877	0.000
6 TZ	472.9	474.4	475.5	477.1	0.0
7 GH/TZ	5.257	5.241	5.230	5.211	0.000
8 e ^S (Table XIV)	1.218	1.217	1.217	1.216	0.000
9 1-e ^{-S} (Table XIV)	.179	.178	.178	.178	0.000
10 Pt	969.2	946.2	929.2	903.2	0.0
11 Pt ² /1000	939.3	895.3	863.4	815.8	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.407	8.433	8.452	8.482	0.000
14 FcQm	3.786	4.547	5.746	6.732	0.000
15 L/H(FcQm) ²	14.330	20.676	33.021	45.318	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-S})	2.564	3.689	5.880	8.045	0.000
17 Pw ² =Pt ² +Fw	941.9	899.0	869.3	823.8	0.0
18 Ps ² =e ^S Pw ²	1147.2	1094.2	1057.6	1001.6	0.0
19 Ps	1071.1	1046.1	1028.4	1000.8	0.0
20 P=(Pt+Ps)/2	1020.1	996.1	978.8	952.0	0.0
21 Pr=(P/Pcr)	1.54	1.51	1.48	1.44	0.00
22 Tr=(T/Tcr)	1.54	1.54	1.54	1.54	0.00
23 Z(Table XI)	.869	.872	.874	.877	0.000

Company	Yates Petroleum Corporation
Well	Binnion "TT" Fed No. 2
Location	K, 24-S-25E
County	Chaves
Date	12/28/84

