

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

Form C-122

RECEIVED

dst
File

Type Test [x] Initial [] Annual [] Special				Test Date 1/11/89		JAN 23 '90	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company			
Pool West Pecos Slope				Formation Abo		Unit O.C.D. ARTESIA, OFFICE	
Completion Date 7/27/83		Total Depth 3450.0'		Plug Back TD 3394.0'		Elevation 3932.9'	
Farm or Lease Name Blazer XN State				Well No. 1			
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 3441.0'	Perforations: From 2898.0' To 3132.0'		Unit Sec Twp Rge C 15 7S 23E	
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 2875.0'	Perforations: From 0.0' To 0.0'			
Type Well Single				Packer Set At 2875.0'		County Chaves	
Producing Thru Tubing		Resv. Temp. °F 116 @ 2875'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.	
L 2875.0'		H 2875.0'	Gg .603	%CO2 .01	%N2 7.62	%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	59	924	0	0	0	24 hrs.
1.	2.067 X .375	160	6.1	58	785	62	0	0	24 hrs.
2.	2.067 X .375	200	12.5	55	588	62	0	0	24 hrs.
3.	2.067 X .375	210	19.2	59	506	62	0	0	24 hrs.
4.	2.067 X .375	210	30.0	57	210	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)	$\sqrt{hwP_m}$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	.669	32.50	173.20	1.002	1.288	1.012	28
2.	.669	51.62	213.20	1.005	1.288	1.015	45
3.	.669	65.46	223.20	1.001	1.288	1.015	57
4.	.669	81.83	223.20	1.003	1.288	1.016	72
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.	.26	518	1.54	.976	A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.
2.	.32	515	1.53	.970	Specific Gravity Separator Gas .603 xxxxxxxxxxxxxxx
3.	.34	519	1.55	.970	Specific Gravity Flowing Fluid xxxxxx .603
4.	.34	517	1.54	.970	Critical Pressure 659.2 PSIA 659.2 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature 335.6°R 335.6°R

Pc 937.2 Pc² 878.3

NO	Pt ²	Pw	Pw ²	Pc ² -Pw ² (1)	$\frac{Pc^2}{Pc^2-Pw^2} = 1.0644$	(2) $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = 1.0481$
1.	637.1	798.2	637.1	241.2		
2.	361.4	601.2	361.5	516.9		
3.	269.6	519.2	269.6	608.7		
4.	49.8	223.3	49.9	828.5		
5.	0.0	0.0	0.0	0.0		

$$AOF = Q \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 75 \text{ Mcfd}$$

Absolute Open Flow 75 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .754
Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Andrea Carpenter	Checked By:
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WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (Pw) C-122D

Adopted 9-1-65

DATE 1/22/90

COMPANY Yates Petroleum Corporation LEASE Blazer XN State WELL NO. 1

LOCATION: Unit C Section 15 Township 7S Range 23E

L 2875.0 H 2875.0 L/H 1.000 G .603 %CO₂ .01 %N₂ 7.62 %H₂S 0.00

d 1.995 Fr .017777 GH 1733.6 Pcr 659.2 Tcr 335.6

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.028	.045	.057	.072	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	576.0	576.0	576.0	576.0	0.0
4 T=(Tw+Ts)/2	549.0	549.0	549.0	549.0	0.0
5 Z(Est.)	.914	.933	.942	.976	0.000
6 TZ	501.5	512.4	517.2	535.7	0.0
7 GH/TZ	3.457	3.383	3.352	3.236	0.000
8 e ^s (Table XIV)	1.138	1.135	1.134	1.129	0.000
9 1-e ^{-s} (Table XIV)	.122	.119	.118	.114	0.000
10 Pt	798.2	601.2	519.2	223.2	0.0
11 Pt ² /1000	637.1	361.4	269.6	49.8	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.918	9.110	9.195	9.524	0.000
14 FcQm	.253	.413	.527	.684	0.000
15 L/H(FcQm) ²	.064	.171	.278	.467	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	.008	.020	.033	.053	0.000
17 Pw ² =Pt ² +Fw	637.1	361.5	269.6	49.9	0.0
18 Ps ² =e ^s Pw ²	725.3	410.4	305.7	56.3	0.0
19 Ps	851.6	640.6	552.9	237.3	0.0
20 P=(Pt+Ps)/2	824.9	620.9	536.1	230.2	0.0
21 Pr=(P/Pcr)	1.25	.94	.81	.35	0.00
22 Tr=(T/Tcr)	1.64	1.64	1.64	1.64	0.00
23 Z(Table XI)	.914	.933	.942	.976	0.000

Company	Yates Petroleum Corporation
Well	Blazer XN State No. 1
Location	C, 15-7S-23E
County	Chaves
Date	1/22/90

