

NE MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT and ONE POINT BACK PRESSURE TEST FOR GAS WELL

c/SF F.1e
Form C-122

RECEIVED BY

JUN 08 1984

O. C. D.

ARTESIA, OFFICE

Type Test [x] Initial [] Annual [] Special					Test Date 4/10/84				
Company Yates Petroleum Corporation					Connection Transwestern Pipeline Company				
Pool Pecos Slope 260					Formation Abo				
Completion Date 5/6/83					Total Depth 4200.0'		Plug Back TD 4142.0'		Elevation 3993.3'
Farm or Lease Name Monaghan "QY" Fed									
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4197.0'	Perforations: From 3846.0' To 3850.0'					Well No. 9
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3811.0'	Perforations: From 0.0' To 0.0'					Unit Sec Twp Rge I 34 5S 24E
Type Well Single					Packer Set At 3811.0'				
County Chaves									
Producing Thru Tubing					Resv. Temp. °F 114 @ 3810'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.
State New Mexico									
L 3811.0'	H 3811.0'	Gg .648	%CO2 .02	%N2 5.57	%H2S 0.00	Prover 0.000"	Meter Run 2.000"	Taps Flange	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Size	Orifice X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	
SI	0.000	X 0.000	0	0.0	68	910	0	0	0 hrs.
1.	2.067	X .875	205	36.0	50	707	62	0	24 hrs.
2.	2.067	X .875	220	50.3	68	646	62	0	24 hrs.
3.	2.067	X .875	270	54.6	68	557	62	0	24 hrs.
4.	2.067	X .875	290	66.0	70	490	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)	1/hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	3.729	88.63	218.20	1.010	1.242	1.019	422
2.	3.729	108.30	233.20	.992	1.242	1.018	507
3.	3.729	124.35	283.20	.992	1.242	1.022	584
4.	3.729	141.46	303.20	.991	1.242	1.024	664
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.	.33	510	1.43	.963	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.35	528	1.48	.965	Specific Gravity Separator Gas	.648	xxxxxxx
3.	.43	528	1.48	.957	Specific Gravity Flowing Fluid	xxxxx	.648
4.	.46	530	1.49	.955	Critical Pressure	661.1 PSIA	661.1 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	356.2°R	356.2°R

Pc	923.2	Pc ²	852.3					
NO	Pt ²	Pw	Pw ²	Pc ² -Pw ²	(1)	$\frac{Pc^2}{Pc^2-Pw^2} = \frac{1.4409}{}$	(2)	$\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = \frac{1.3273}{}$
1.	518.7	721.8	521.0	331.3				
2.	434.5	661.8	438.0	414.3				
3.	325.1	574.2	329.7	522.6				
4.	253.2	509.1	259.2	593.1				
5.	0.0	0.0	0.0	0.0				

ADP = Q $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = \frac{882 \text{ Mcfd}}{}$

$$ADF = Q \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 882 \text{ Mcfd}$$

Absolute Open Flow 882 Mcfd @ 15.025 Angle of Slope, 0 38 Slope, n .775
Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Andie Carpenter	Checked By:
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Adopted 9-1-65

DATE 6/4/84

COMPANY Yates Petroleum Corporation LEASE Monaghan "QY" Fed WELL NO. 9LOCATION: Unit I Section 34 Township 5S Range 24EL 3811.0 H 3811.0 L/H 1.000 G .648 %CO₂ .02 %N₂ 5.57 %H₂S 0.00d 1.995 Fr .017777 GH 2469.5 Pcr 661.1 Tcr 356.2

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.422	.507	.584	.664	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	574.0	574.0	574.0	574.0	0.0
4 T=(Tw+Ts)/2	548.0	548.0	548.0	548.0	0.0
5 Z(Est.)	.900	.908	.920	.929	0.000
6 TZ	493.2	497.6	504.1	509.0	0.0
7 GH/TZ	5.007	4.963	4.899	4.852	0.000
8 e ^s (Table XIV)	1.206	1.204	1.202	1.199	0.000
9 1-e ^{-s} (Table XIV)	.171	.170	.168	.166	0.000
10 Pt	720.2	659.2	570.2	503.2	0.0
11 Pt ² /1000	518.7	434.5	325.1	253.2	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.772	8.849	8.963	9.051	0.000
14 FcQm	3.706	4.485	5.238	6.013	0.000
15 L/H(FcQm) ²	13.734	20.114	27.433	36.159	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	2.350	3.415	4.603	6.014	0.000
17 Pw ² =Pt ² +Fw	521.0	438.0	329.7	259.2	0.0
18 Ps ² =e ^s Pw ²	628.6	527.5	396.2	310.9	0.0
19 Ps	792.8	726.3	629.5	557.6	0.0
20 P=(Pt+Ps)/2	756.5	692.8	599.8	530.4	0.0
21 Pr=(P/Pcr)	1.14	1.05	.91	.80	0.00
22 Tr=(T/Tcr)	1.54	1.54	1.54	1.54	0.00
23 Z(Table XI)	.900	.908	.920	.929	0.000

Company	Yates Petroleum Corporation
Well	Monaghan "QY" Fed No. 9
Location	T, 34-5S-24E
County	Chaves
Date	6/4/84

