

clsr
File

Type Test [x] Initial [] Annual [] Special				Test Date 3/4/88	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company	
Pool Pecos Slope ABO				Formation Abo	
Completion Date 8/14/82		Total Depth 4200.0'		Plug Back TD 4141.0'	
				Elevation 4046.5'	
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4196.0'	Perforations: From 3707.0' To 3865.0'	
Farm or Lease Name Monaghan OY Federal					
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3670.0'	Perforations: From 0.0' To 0.0'	
Well No. 7					
Unit Sec Twp Rge C 27 5S 24E					
Type Well Single				Packer Set At 3670.0'	
Producing Thru Tubing		Resv. Temp. °F 100 @ 3665'		Baro. Press. - Pa 13.2 psia.	
State New Mexico					
L 3670.0'	H 3670.0'	Gg .657	%CO2 .02	%N2 7.43	%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	45	989	0	0	0	0 hrs.
1.	2.067 X .750	100	2.5	45	735	62	0	0	24 hrs.
2.	2.067 X .750	100	4.8	45	503	62	0	0	24 hrs.
3.	2.067 X .750	100	6.3	45	430	62	0	0	24 hrs.
4.	2.067 X .750	100	8.0	45	180	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)	hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	2.709	16.82	113.20	1.015	1.234	1.009	58
2.	2.709	23.31	113.20	1.015	1.234	1.009	80
3.	2.709	26.71	113.20	1.015	1.234	1.009	91
4.	2.709	30.09	113.20	1.015	1.234	1.009	103
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.	A.P.I. Gravity of Liquid Hydrocarbons Deg.	Specific Gravity Separator Gas xxxxxxx	Specific Gravity Flowing Fluid xxxxxx	Critical Pressure 657.7 PSIA	Critical Temperature 354.0°R
1.	.17	505	1.43	.982						
2.	.17	505	1.43	.982						
3.	.17	505	1.43	.982						
4.	.17	505	1.43	.982						
5.	0.00	0	0.00	0.000						

Pc 1002.2 Pc2 1004.4

NO	Pt2	Pw	Pw2	Pc2-Pw2 (1)	Pc2 Pc2-Pw2	(2) $\left[\frac{Pc2}{Pc2-Pw2} \right]^n$
1.	559.8	748.2	559.8	444.6	1.0485	1.0364
2.	266.5	516.3	266.5	737.9		
3.	196.4	443.3	196.5	807.9		
4.	37.3	193.6	37.5	966.9		
5.	0.0	0.0	0.0	0.0		

$$ROF = Q \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 107 \text{ Mcfd}$$

Absolute Open Flow 107 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .755
Remarks:

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

Adopted 9-1-65

DATE 4/26/88

COMPANY Yates Petroleum Corporation LEASE Monaghan OY Federal WELL NO. 7

LOCATION: Unit C Section 27 Township 5S Range 24E

L 3670.0 H 3670.0 L/H 1.000 G .657 %CO2 .02 %N2 7.43 %H2S 0.00

d 1.995 Fr .017777 GH 2411.2 Pcr 657.7 Tcr 354.0

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.058	.080	.091	.103	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	560.0	560.0	560.0	560.0	0.0
4 T=(Tw+Ts)/2	541.0	541.0	541.0	541.0	0.0
5 Z(Est.)	.893	.925	.936	.972	0.000
6 TZ	483.4	500.7	506.3	525.6	0.0
7 GH/TZ	4.988	4.816	4.762	4.587	0.000
8 e ^s (Table XIV)	1.206	1.198	1.195	1.188	0.000
9 1-e ^{-s} (Table XIV)	.171	.165	.164	.158	0.000
10 Pt	748.2	516.2	443.2	193.2	0.0
11 Pt ² /1000	559.8	266.5	196.4	37.3	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.593	8.900	9.002	9.344	0.000
14 FcQm	.495	.710	.823	.963	0.000
15 L/H(FcQm) ²	.245	.504	.677	.926	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	.042	.083	.111	.146	0.000
17 Pw ² =Pt ² +Fw	559.8	266.5	196.5	37.5	0.0
18 Ps ² =e ^s Pw ²	675.0	319.3	235.0	44.5	0.0
19 Ps	821.6	565.1	484.7	211.0	0.0
20 P=(Pt+Ps)/2	784.9	540.6	464.0	202.1	0.0
21 Pr=(P/Pcr)	1.19	.82	.71	.31	0.00
22 Tr=(T/Tcr)	1.53	1.53	1.53	1.53	0.00
23 Z(Table XI)	.893	.925	.936	.972	0.000

Company	Yates Petroleum Corporation
Well	Monaghan QY Federal No. 7
Location	C, 27-5S-24E
County	Chaves
Date	4/26/88

