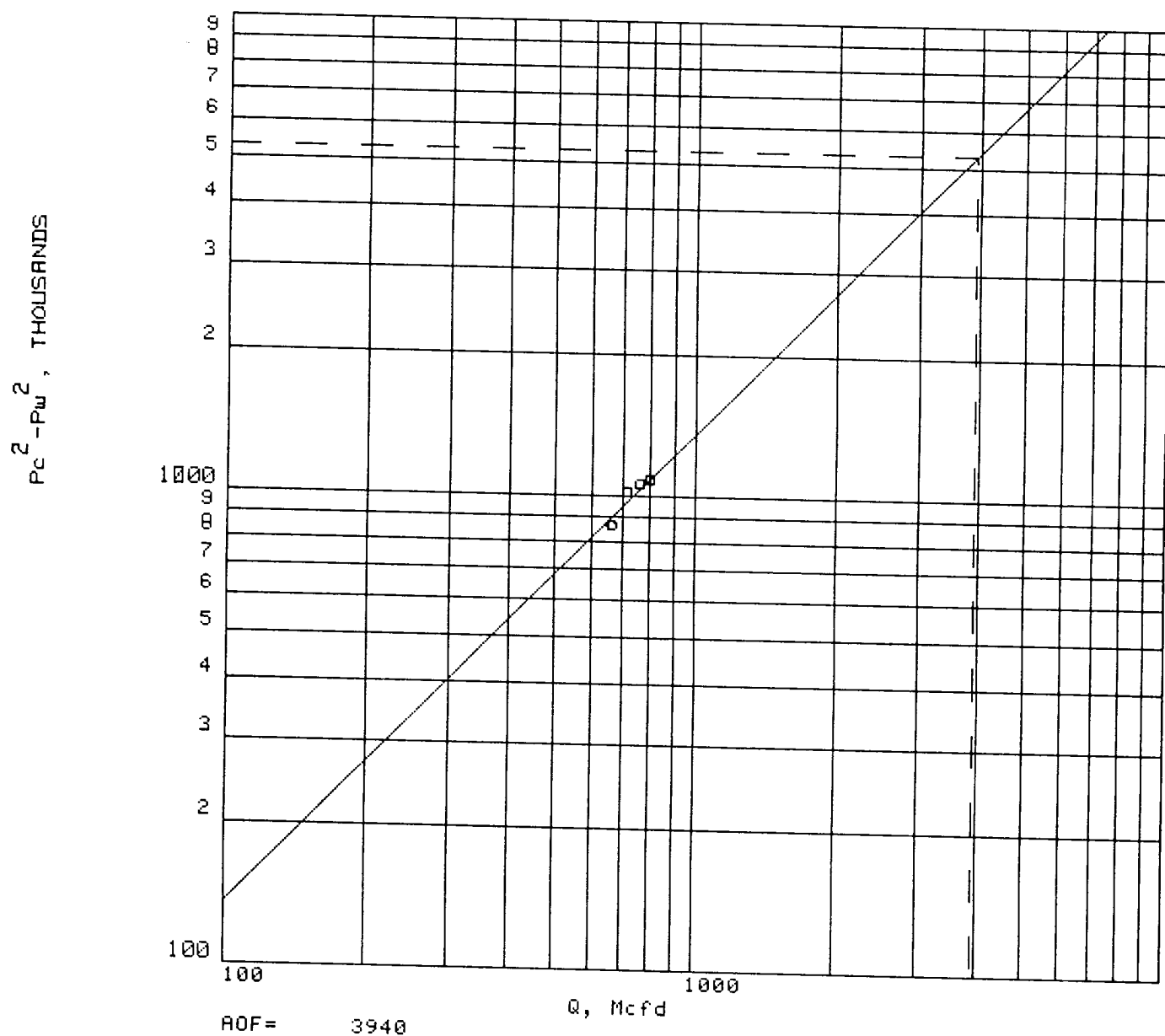


Company	Yates Petroleum Corporation
Well	N Turkey Track MU No. 2
Location	E, 34-18S-29E
County	Eddy
Date	10/28/91



WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (Pw) C-1220

Adopted 9-1-65

DATE 10/28/91

COMPANY Yates Petroleum Corporation LEASE N Turkey Track MU WELL NO. 2

LOCATION: Unit E Section 34 Township 18S Range 29E

L 11283.0 H 11283.0 L/H 1.000 G .646 %CO₂ 6.75 %N₂ 5.82 %H₂S 0.00

d 1.995 Fr .017777 GH 7288.8 Pcr 689.9 Tcr 343.6

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.665	.715	.761	.800	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	626.0	626.0	626.0	626.0	0.0
4 T=(Tw+Ts)/2	574.0	574.0	574.0	574.0	0.0
5 Z(Est.)	.851	.851	.851	.851	0.000
6 TZ	488.5	488.6	488.6	488.6	0.0
7 GH/TZ	14.920	14.919	14.919	14.918	0.000
8 e ^s (Table XIV)	1.750	1.750	1.749	1.749	0.000
9 1-e ^{-s} (Table XIV)	.428	.428	.428	.428	0.000
10 Pt	2113.2	2076.2	2065.2	2059.2	0.0
11 Pt ² /1000	4465.6	4310.6	4265.1	4240.3	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.685	8.687	8.688	8.688	0.000
14 FcQm	5.773	6.215	6.609	6.949	0.000
15 L/H(FcQm) ²	33.331	38.624	43.673	48.288	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	14.281	16.547	18.709	20.685	0.000
17 Pw ² =Pt ² +Fw	4479.9	4327.1	4283.7	4261.0	0.0
18 Ps ² =e ^s Pw ²	7838.5	7570.4	7494.1	7454.2	0.0
19 Ps	2799.7	2751.4	2737.5	2730.2	0.0
20 P=(Pt+Ps)/2	2456.5	2413.8	2401.4	2394.7	0.0
21 Pr=(P/Pcr)	3.56	3.50	3.48	3.47	0.00
22 Tr=(T/Tcr)	1.67	1.67	1.67	1.67	0.00
23 Z(Table XI)	.851	.851	.851	.851	0.000

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

Form C-122

clsf
File

Type Test [x] Initial [] Annual [] Special					Test Date 11/25/91		RECEIVED		
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company				OCT 29 1991	
Pool Morrow				Formation North Turkey Track				Unit O. C. D. ARTESIA OFFIC	
Completion Date 3/22/82		Total Depth 11600.0'		Plug Back TD 11549.0'		Elevation 3239.6'		Farm or Lease Name N Turkey Track MU	
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 11600.0'	Perforations: From 11318.0' To 11335.5'				Well No. 2	
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 11283.0'	Perforations: From 0.0' To 0.0'				Unit Sec Twp Rge E 34 18S 29E	
Type Well Single					Packer Set At 11283.0'			County Eddy	
Producing Thru Tubing		Resv. Temp. °F 166 @ 11200'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico	
L 11283.0'	H 11283.0'	Gg .646	%CO2 6.75	%N2 5.82	%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	47	2299	0	0	0	0 hrs.	
1.	2.067 X .875	400	46.0	52	2100	62	0	0	24 hrs.	
2.	2.067 X .875	390	54.3	49	2063	62	0	0	24 hrs.	
3.	2.067 X .875	380	63.2	50	2052	62	0	0	24 hrs.	
4.	2.067 X .875	370	71.3	47	2046	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.	3.729	137.87	413.20	1.008	1.244	1.031	665
2.	3.729	147.97	403.20	1.011	1.244	1.031	715
3.	3.729	157.64	393.20	1.010	1.244	1.030	761
4.	3.729	165.29	383.20	1.013	1.244	1.030	800
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.	.60	512	1.49	.941	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.58	509	1.48	.941	Specific Gravity Separator Gas	.646	xxxxxxxxxxxxxx
3.	.57	510	1.48	.943	Specific Gravity Flowing Fluid	xxxxxx	.646
4.	.56	507	1.48	.943	Critical Pressure	689.9 PSIA	689.9 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	343.6°R	343.6°R

Pc 2312.2 Pc2 5346.3	
NO	Pt2 Pw2 Pc2-Pw2 (1) Pc2 = 4.9263 (2) [Pc2 / (Pc2-Pw2)]^n = 4.9263
1.	4465.6 2116.6 4479.9 866.4
2.	4310.6 2080.2 4327.1 1019.1
3.	4265.1 2069.7 4283.7 1062.5
4.	4240.3 2064.2 4261.0 1085.3
5.	0.0 0.0 0.0 0.0

Absolute Open Flow 3940 Mcfd @ 15.025		Angle of Slope, 0 45		Slope, n1.000	
Remarks:					

Approved By:	Conducted By: Eddy	Calculated By: Andrea Carpenter	Checked By:
--------------	-----------------------	------------------------------------	-------------