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FILE

MAY 13 1991

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

Form C-122

Type Test [x] Initial [] Annual [] Special					Test Date 10/25/90	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company		
Pool Abo				Formation Pecos Slope		Unit
Completion Date 4/21/83		Total Depth 4150.0'		Plug Back TD 4083.0'		Elevation 3523.9'
Farm or Lease Name Mountain VR Fed						Well No. 3
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4147.0'	Perforations: From 3758.0' To 3774.0'		Unit Sec Twp Rge K 8 10S 25E
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3720.0'	Perforations: From 0.0' To 0.0'		
Type Well Single				Packer Set At 13720.0'		County Chaves
Producing Thru Tubing		Resv. Temp. °F 120 @ 3720'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia. New Mexico
L 3720.0'	H 3720.0'	Gg .660	%CO2 .37	%N2 8.77	%H2S 0.00	Proven 0.000"
						Meter Run 2.000"
						Taps Flange

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Proven 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	61	1029	0	0	0	0 hrs.
1.	2.067 X 1.000	110	7.0	64	964	62	0	0	24 hrs.
2.	2.067 X 1.000	115	11.0	65	925	62	0	0	24 hrs.
3.	2.067 X 1.000	125	14.9	61	908	62	0	0	24 hrs.
4.	2.067 X 1.000	135	20.0	60	870	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)	$\sqrt{hw/Pm}$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	4.947	29.37	123.20	.996	1.231	1.009	180
2.	4.947	37.55	128.20	.995	1.231	1.010	230
3.	4.947	45.38	138.20	.999	1.231	1.010	279
4.	4.947	54.44	148.20	1.000	1.231	1.011	335
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.	.19	524	1.49	.981	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.20	525	1.50	.981	Specific Gravity Separator Gas	.660	xxxxxxxxxxxxxx
3.	.21	521	1.49	.981	Specific Gravity Flowing Fluid	xxxxxx	.660
4.	.23	520	1.48	.979	Critical Pressure	656.8 PSIA	656.8 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	350.6°R	350.6°R

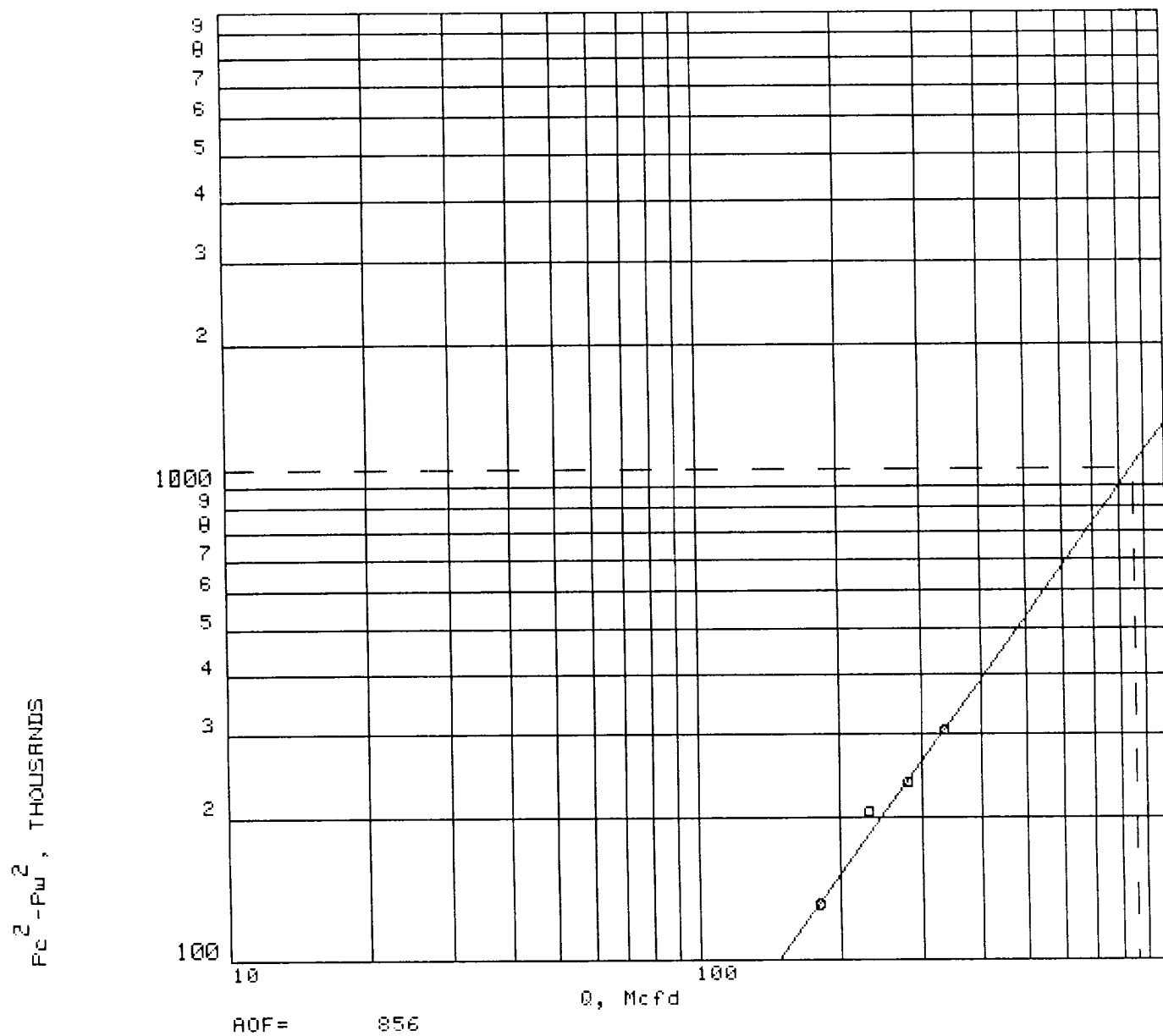
Pc 1042.2	Pc2 1086.2					
NO	Pt2	Pw	Pw2	Pc2-Pw2 (1)	$\frac{Pc2}{Pc2-Pw2} = \frac{3.5697}{}$	(2) $\left[\frac{Pc2}{Pc2-Pw2} \right]^n = \frac{2.5537}{}$
1.	954.9	977.4	955.3	130.8		
2.	880.2	938.6	880.9	205.3		
3.	848.6	921.7	849.6	236.6		
4.	780.0	884.0	781.5	304.7		
5.	0.0	0.0	0.0	0.0		

$$ROF = Q \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 856 \text{ Mcfd}$$

Absolute Open Flow 856 Mcfd @ 15.025 Angle of Slope, 0 36 Slope, n .737
Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Andrea Carpenter	Checked By:
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Company	Yates Petroleum Corporation
Well	Mountain VR Fed No. 3
Location	K, 8-0S-25E
County	Chaves
Date	5/13/91



WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (PW) C-122D

Adopted 9-1-65

DATE 5/13/91

COMPANY Yates Petroleum Corporation LEASE Mountain VR Fed WELL NO. 3

LOCATION: Unit K Section 8 Township 0S Range 25E

L 3720.0 H 3720.0 L/H 1.000 G .660 %CO₂ .37 %N₂ 8.77 %H₂S 0.00

d 1.995 Fr .017777 GH 2455.2 Pcr 656.8 Tcr 350.6

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.180	.230	.279	.335	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	580.0	580.0	580.0	580.0	0.0
4 T=(Tw+Ts)/2	551.0	551.0	551.0	551.0	0.0
5 Z(Est.)	.878	.882	.884	.888	0.000
6 TZ	483.8	486.1	487.1	489.4	0.0
7 GH/TZ	5.075	5.051	5.041	5.017	0.000
8 e ^s (Table XIV)	1.210	1.209	1.208	1.207	0.000
9 1-e ^{-s} (Table XIV)	.173	.173	.172	.171	0.000
10 Pt	977.2	938.2	921.2	883.2	0.0
11 Pt ² /1000	954.9	880.2	848.6	780.0	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.600	8.641	8.659	8.700	0.000
14 FcQm	1.547	1.986	2.413	2.915	0.000
15 L/H(FcQm) ²	2.392	3.944	5.825	8.497	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	.415	.681	1.003	1.457	0.000
17 Pw ² =Pt ² +Fw	955.3	880.9	849.6	781.5	0.0
18 Ps ² =e ^s Pw ²	1155.6	1064.6	1026.4	943.3	0.0
19 Ps	1075.0	1031.8	1013.1	971.2	0.0
20 P=(Pt+Ps)/2	1026.1	985.0	967.2	927.2	0.0
21 Pr=(P/Pcr)	1.56	1.50	1.47	1.41	0.00
22 Tr=(T/Tcr)	1.57	1.57	1.57	1.57	0.00