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

Form C-122

Type Test			Test Date	
[x] Initial	[ ] Annual	[ ] Special	6/15/90	
Company		Connection		
Yates Petroleum Corporation		Transwestern Pipeline Company		
Pool		Formation		Unit
Pecos Slope		Abo		

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
2/17/90	4115.0'	4026.0'	3871.2'	Geneva UI

Csg Size	Wt.	d	Set At	Perforations:	Well No.
4.500"	9.500#	4.090"	4115.0'	From 3570.0' To 3882.0'	2

Tbg Size	Wt.	d	Set At	Perforations:	Unit	Sec	Twp	Rge
2.375"	4.700#	1.995"	3478.0'	From 0.0' To 0.0'	B	20	6S	25E

Type Well	Packer Set At	County
Single	3478.0'	Chaves

Producing Thru	Resv. Temp. °F	Mean Temp. °F	Baro. Press. - Pa	State
Tubing	92 @ 3726'	62.0	13.2 psia.	New Mexico

L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps
3478.0'	3478.0'	.646	.02	4.89	0.00	0.000"	2.000"	Flange

	FLOW DATA					TUBING DATA		CASING DATA		
NO	Prover Size	X Orifice Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	Duration of Flow
SI	0.000	X 0.000	0	0.0	97	825	0	0	0	0 hrs.
1.	2.067	X 1.000	290	8.0	98	794	62	0	0	24 hrs.
2.	2.067	X 1.000	310	31.8	99	734	62	0	0	24 hrs.
3.	2.067	X 1.000	330	42.0	97	718	62	0	0	24 hrs.
4.	2.067	X 1.000	335	57.0	99	690	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)	$\sqrt{hwPm}$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	4.947	49.25	303.20	.965	1.244	1.020	298
2.	4.947	101.38	323.20	.964	1.244	1.021	614
3.	4.947	120.06	343.20	.966	1.244	1.023	730
4.	4.947	140.88	348.20	.964	1.244	1.023	855
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.46	558	1.56	.962
2.	.49	559	1.56	.959
3.	.52	557	1.56	.956
4.	.53	559	1.56	.956
5.	0.00	0	0.00	0.000

Gas Liquid Hydrocarbon Ratio	Dry	Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
Specific Gravity Separator Gas	.646	xxxxxxxxxxxx
Specific Gravity Flowing Fluid	xxxxx	.646
Critical Pressure	662.3 PSIA	662.3 PSIA
Critical Temperature	357.5°R	357.5°R

Pc 838.2 Pc^2 702.6

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	651.6	807.8	652.6	50.0
2.	558.3	750.1	562.7	139.9
3.	534.7	735.4	540.9	161.7
4.	494.5	709.3	503.1	199.5
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2} = 3.5252$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 2.6094$

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n =$ 2232 Mcfd

Absolute Open Flow	Angle of Slope, θ	Slope, n
2232 Mcfd @ 15.025	37	.761

Remarks:

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

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

Adopted 9-1-65

DATE 5/6/90

COMPANY Yates Petroleum Corporation LEASE Geneva UI WELL NO. 2

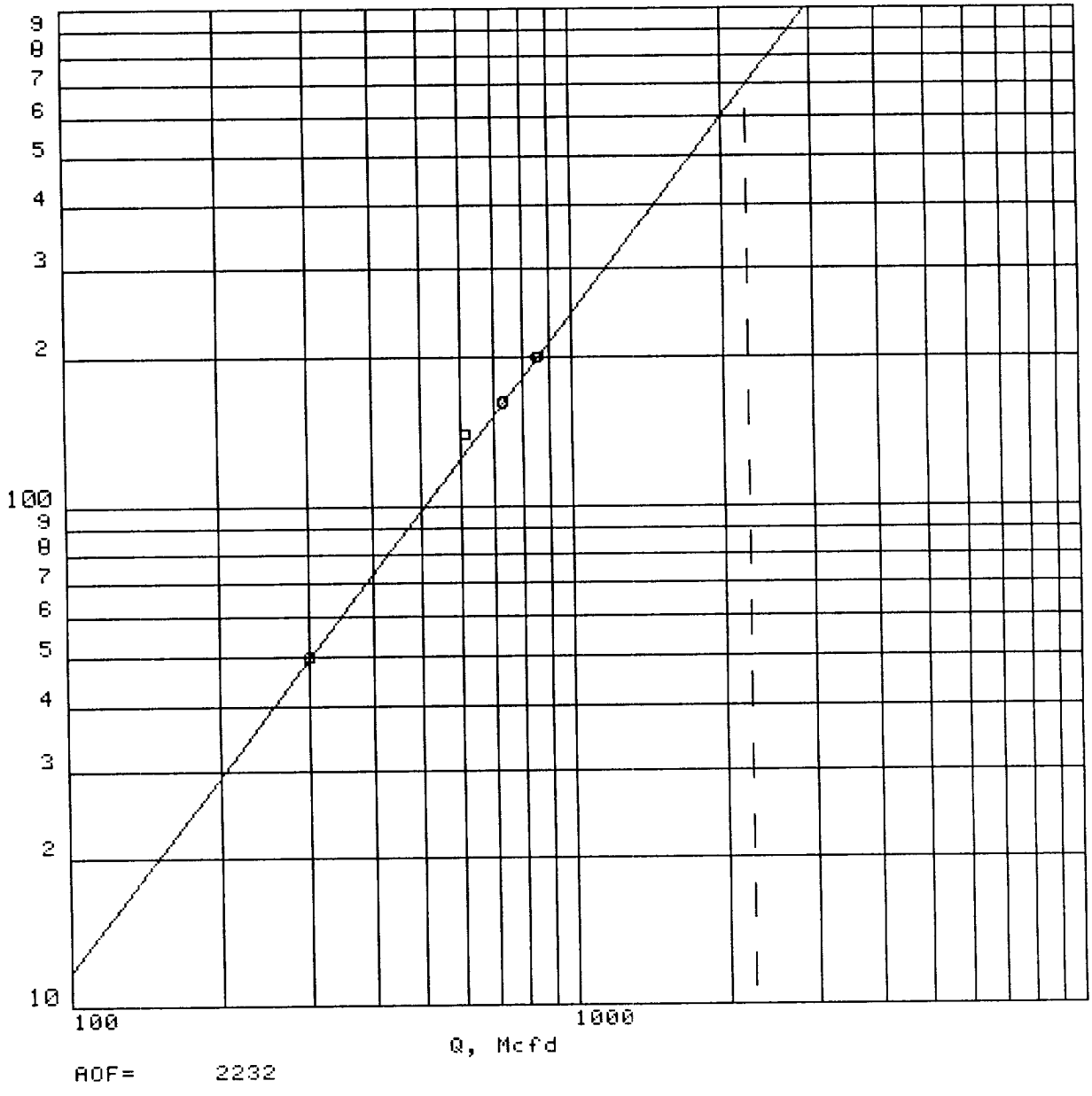
LOCATION: Unit B Section 20 Township 6S Range 25E

L 3478.0 H 3478.0 L/H 1.000 G .646 %CO2 .02 %N2 4.89 %H2S 0.00

d 1.995 Fr .017777 GH 2246.8 Pcr 662.3 Tcr 357.5

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.298	.614	.730	.855	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	552.0	552.0	552.0	552.0	0.0
4 T=(Tw+Ts)/2	537.0	537.0	537.0	537.0	0.0
5 Z(Est.)	.879	.887	.890	.894	0.000
6 TZ	472.1	476.6	477.7	479.8	0.0
7 GH/TZ	4.759	4.715	4.703	4.683	0.000
8 e^s(Table XIV)	1.195	1.193	1.193	1.192	0.000
9 $1-e^{-s}$(Table XIV)	.163	.162	.162	.161	0.000
10 Pt	807.2	747.2	731.2	703.2	0.0
11 $Pt^2/1000$	651.6	558.3	534.7	494.5	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.393	8.472	8.497	8.534	0.000
14 FcQm	2.505	5.206	6.205	7.299	0.000
15 $L/H(FcQm)^2$	6.273	27.100	38.500	53.283	0.000
16 $Fw=L/H(FcQm)^2(1-e^{-s})$	1.025	4.392	6.222	8.577	0.000
17 $Pw^2=Pt^2+Fw$	652.6	562.7	540.9	503.1	0.0
18 $Ps^2=e^sPw^2$	780.1	671.5	645.1	599.6	0.0
19 Ps	883.2	819.5	803.2	774.3	0.0
20 P=(Pt+Ps)/2	845.2	783.3	767.2	738.8	0.0
21 Pr=(P/Pcr)	1.28	1.18	1.16	1.12	0.00
22 Tr=(T/Tcr)	1.50	1.50	1.50	1.50	0.00
23 Z(Table XI)	.879	.887	.890	.894	0.000

Company	Yates Petroleum Corporation
Well	Geneva UI No. 2
Location	B, 20-6S-25E
County	Chaves
Date	5/6/90



AOF= 2232