

REC'D
N.L. MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

OCT 24 '90

15K file

Type Test [x] Initial [] Annual [] Special					Test Date 10/19/90	
Company Yates Petroleum Corporation					Connection Transwestern Pipeline Company	
Pool Abo			Formation Pecos Slope			
Completion Date 11/20/89		Total Depth 4200.0'		Plug Back TD 4046.0'		
Elevation 3924.1'		Farm or Lease Name Burrograss ABG Fed				
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4200.0'	Perforations: From 3895.0' To 4025.0'		
Well No. 1						
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3836.0'	Perforations: From 0.0' To 0.0'		
Unit Sec Twp Rge G 15 6S 25E						
Type Well Single				Packer Set At 3836.0'		
County Chaves						
Producing Thru Tubing		Resv. Temp. °F 105 @ 3800'		Mean Temp. °F 62.0		
Baro. Press. - Pa 13.2 psia.		State New Mexico				
L 3836.0'	H 3836.0'	Gg .641	%CO2 .04	%N2 4.70	%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	54	550	0	0	0	0 hrs.
1.	3.068 X .875	100	58.4	50	321	62	0	0	24 hrs.
2.	3.068 X .875	100	71.4	49	278	62	0	0	24 hrs.
3.	3.068 X .875	100	90.2	54	260	62	0	0	24 hrs.
4.	3.068 X .875	100	95.0	47	170	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.	3.650	81.31	113.20	1.010	1.249	1.009	378
2.	3.650	89.90	113.20	1.011	1.249	1.009	418
3.	3.650	101.05	113.20	1.006	1.249	1.009	467
4.	3.650	103.70	113.20	1.013	1.249	1.009	483
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 .641	Specific Gravity Flowing Fluid .641	Critical Pressure 662.9 PSIA	Critical Temperature 356.3°R
1.	.17	510	1.43	.982			xxxxxxx			
2.	.17	509	1.43	.982			xxxxxxx			
3.	.17	514	1.44	.983			xxxxxxx			
4.	.17	507	1.42	.982			xxxxxxx			
5.	0.00	0	0.00	0.000			xxxxxxx			

Pc	563.2	Pc ²	317.2							
NO	Pt ²	Pw	Pw ²	Pc ² -Pw ² (1)	Pc ² / (Pc ² -Pw ²) = 1.1343	(2) [Pc ² / (Pc ² -Pw ²)] ⁿ = 1.1014				
1.	111.7	337.1	113.7	203.5						
2.	84.8	295.3	87.2	230.0						
3.	74.6	278.7	77.7	239.5						
4.	33.6	192.0	36.9	280.3						
5.	0.0	0.0	0.0	0.0						

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 532 \text{ Mcfd}$$

Absolute Open Flow 532 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .766

Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Andrea Carpenter	Checked By:
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WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (Pw) C-122D

Adopted 9-1-65

DATE 10/24/90

COMPANY Yates Petroleum Corporation LEASE Burnogross ABG Fed WELL NO. 1

LOCATION: Unit G Section 15 Township 6S Range 25E

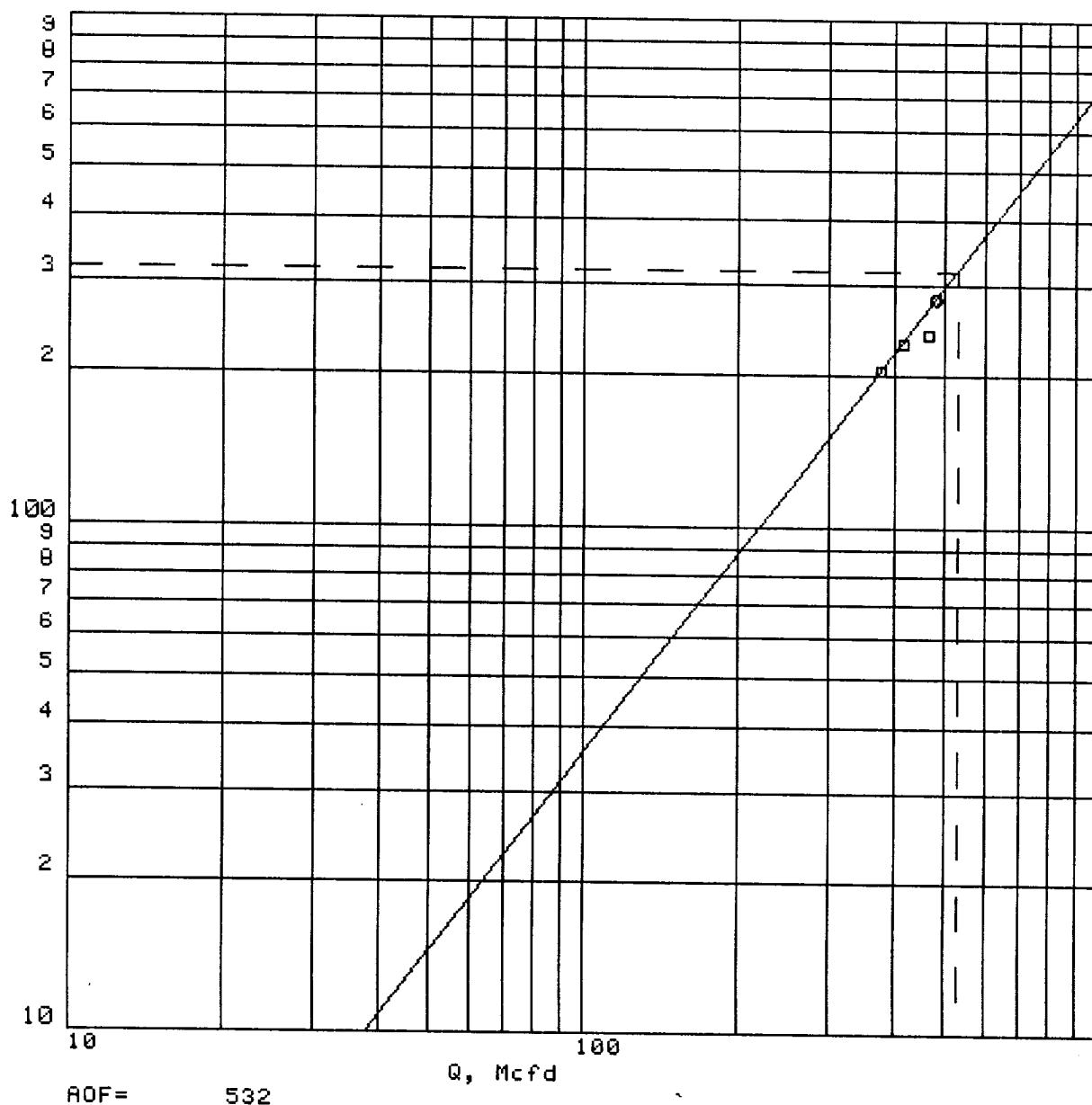
L 3836.0 H 3836.0 L/H 1.000 G .641 %CO₂ .04 %N₂ 4.70 %H₂S 0.00

d 1.995 Fr .017777 GH 2458.9 Pcr 662.9 Tcr 356.3

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.378	.418	.467	.483	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	565.0	565.0	565.0	565.0	0.0
4 T=(Tw+Ts)/2	543.5	543.5	543.5	543.5	0.0
5 Z(Est.)	.952	.958	.961	.972	0.000
6 TZ	517.2	520.7	522.1	528.5	0.0
7 GH/TZ	4.754	4.722	4.710	4.653	0.000
8 e ^s (Table XIV)	1.195	1.194	1.193	1.191	0.000
9 1-e ^{-s} (Table XIV)	.163	.162	.162	.160	0.000
10 Pt	334.2	291.2	273.2	183.2	0.0
11 Pt ² /1000	111.7	84.8	74.6	33.6	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	9.196	9.257	9.282	9.395	0.000
14 FcQm	3.473	3.869	4.337	4.540	0.000
15 L/H(FcQm) ²	12.059	14.972	18.813	20.611	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	1.969	2.430	3.046	3.300	0.000
17 Pw ² =Pt ² +Fw	113.7	87.2	77.7	36.9	0.0
18 Ps ² =e ^s Pw ²	135.8	104.1	92.7	43.9	0.0
19 Ps	368.6	322.7	304.4	209.5	0.0
20 P=(Pt+Ps)/2	351.4	306.9	288.8	196.3	0.0
21 Pr=(P/Pcr)	.53	.46	.44	.30	0.00
22 Tr=(T/Tcr)	1.53	1.53	1.53	1.53	0.00
23 Z(Table XI)	.952	.958	.961	.972	0.000

Company	Yates Petroleum Corporation
Well	Burrograss ABG Fed No. 1
Location	G, 15-6S-25E
County	Chaves
Date	10/24/90

$P_c^2 - P_w^2$, THOUSANDS



ROF= 532