

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10/13/1999	
Company Yates Petroleum Corp				Connection Agave Energy			
Pool Pecos Slope Abo				Formation Abo			
Completion Date 4/23/1984		Total Depth 4600		Plug Back TD 4553		Elevation 3741	
Csg. Size 4.500	Wt. 9.500	d 4.090	Set At 4600	Perforations: From 4150 To 4214		Unit Sec. Twp. Rge. K 4 8S 26E	
Tbg. Size 2.375	Wt. 4.700	d 1.995	Set At 4110	Perforations: From 4150 To 4214		Well No.	
Type Well Single				Packer Set At 4110		County Chaves	
Producing Thru		Resv. Temp. °F 94 @ 4594		Mean Temp. °F 62		Baro. Press. - Pa 13.2	
Tubing						State New Mexico	
L 4600	H 4600	Gg 0.650	%CO ₂ 0.013	%N ₂ 5.900	%H ₂ S 0.000	Prover 0.000	Meter Run 2.000
						Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
Sl.	0.000	x	0.000	0	0.0	0	395	0			0
1.	2.067	x	1.375	200	2.0	60	370	60			24
2.	2.067	x	1.375	200	3.0	60	360	60			24
3.	2.067	x	1.375	200	4.0	60	350	60			24
4.	2.067	x	1.375	200	5.0	60	340	60			24
5.		x									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{hwP_m}$	Pressure P _m	Flow Temp Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	10.200	20.6	213.2	1.0000	1.240	1.018	266
2.	10.200	25.3	213.2	1.0000	1.240	1.018	326
3.	10.200	29.2	213.2	1.0000	1.240	1.018	376
4.	10.200	32.6	213.2	1.0000	1.240	1.018	421
5.							

NO.	Pr	Temp °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.32	520	1.46	0.964	0	
2.	0.32	520	1.46	0.964	0.000	
3.	0.32	520	1.46	0.964	0.650	xxxxxxx
4.	0.32	520	1.46	0.964	xxxxxxx	0.650
5.						

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.	146.8	384.7	148.0	18.7	5.137	2.705
2.	139.3	375.5	141.0	25.6		
3.	131.9	366.3	134.2	32.4		
4.	124.8	357.2	127.6	39.0		
5.						

Absolute Open Flow 1018 Mcfd @ 15.025		Angle of Slope θ 31	Slope, n 0.608
Remarks:			

Approved By Commission:	Conducted By: Bill Hansen	Calculated By: Katie Brunson	Checked By: Pinson McWhorter
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WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (Pw) C-122D

DATE 10/13/1999

COMPANY Yates Petroleum Corp LEASE Rita TZ Federal WELL NO. 2

LOCATION: Unit K Section 4 Township 8S Range 26E

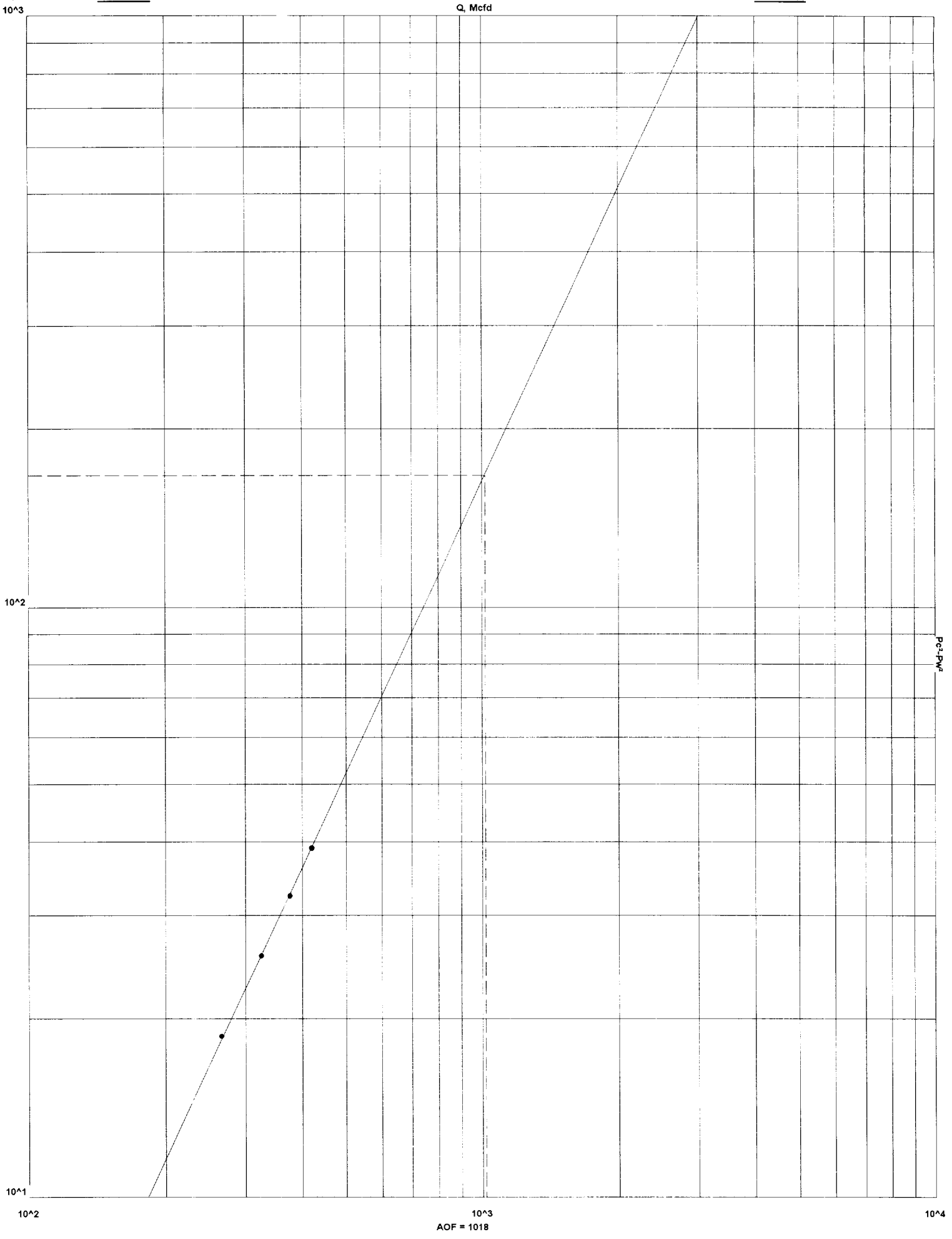
L 4600 H 4600 L / H 1.000 G 0.650 %CO₂ 0.013 %N₂ 5.900 %H₂S 0.000

d 1.995 Fr 0.017777 GH 2990.0 Pcr 660.4 Tcr 356.0

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	0.266	0.326	0.376	0.421	
2 Tw(W.H.°R)	520	520	520	520	
3 Ts(B.H.°R)	554	554	554	554	
4 T = (Tw+Ts) / 2	536.7	536.7	536.7	536.7	
5 Z (Est.)	0.939	0.941	0.942	0.944	
6 TZ	504.2	505.0	505.8	506.6	
7 GH / TZ	5.930	5.921	5.912	5.903	
8 e ^{As} (Table XIV)	1.249	1.249	1.248	1.248	
9 1-e ^{As} (Table XIV)	0.199	0.199	0.199	0.199	
10 Pt	383.2	373.2	363.2	353.2	
11 Pt ² / 1000	146.8	139.3	131.9	124.8	
12 Fr (Table XV)	0.017777	0.017777	0.017777	0.017777	
13 Fc = FrTZ	8.963	8.977	8.991	9.005	
14 FcQm	2.38	2.93	3.38	3.79	
15 L / H(FcQm) ²	5.7	8.6	11.4	14.4	
16 Fw = L / H(FcQm) ² (1-e ^{As})	1.13	1.70	2.28	2.85	
17 Pw ² = Pt ² +Fw	148.0	141.0	134.2	127.6	
18 Ps ² = e ^{As} Pw ²	184.8	176.0	167.5	159.2	
19 Ps	429.9	419.6	409.3	399.0	
20 P = (Pt+Ps) / 2	406.6	396.4	386.2	376.1	
21 Pr = (P / Pcr)	0.62	0.60	0.58	0.57	
22 Tr = (T / Tcr)	1.51	1.51	1.51	1.51	
23 Z (Table XI)	0.939	0.941	0.942	0.944	

Company Yates Petroleum Corp
Well Rita TZ Federal #2
Location K 4-S-26E

County Chaves
Date 10-13-1999



AOF = 1018