

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

c/SF
F./c
Form C-122

RECEIVED

MAY 31 1983

Type Test [x] Initial [] Annual [] Special					Test Date 3/29/83		MAY 31 1983	
Company Yates Petroleum Corporation					Connection Transwestern Pipeline Company		O. C. D.	
Pool Pecos Slope <i>Alc</i>					Formation Abo		ARTESIA, OFFICE	
Completion Date 7/24/82		Total Depth 5000.0'		Plug Back TD 4918.0'		Elevation 3724.2'		Farm or Lease Name Bestwall "ST" Com
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4856.0'	Perforations: From 4258.0' To 4613.0'		Well No. 1		
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 4220.0'	Perforations: From 0.0' To 0.0'		Unit Sec N 20 88 26E		
Type Well Single					Packer Set At 4220.0'		County Chaves	
Producing Thru Tubing		Resv. Temp. °F 106 @ 4210'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico
L 4220.0'	H 4220.0'	Gg .655	%CO2 .21	%N2 7.91	%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	0	981	0	0	0	0 hrs.
1.	2.067 X 1.000	220	25.0	66	695	62	0	0	24 hrs.
2.	2.067 X 1.000	210	22.0	66	680	62	0	0	24 hrs.
3.	2.067 X 1.000	210	37.0	66	690	62	0	0	24 hrs.
4.	2.067 X 1.000	215	52.0	66	650	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)	hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	4.947	76.35	233.20	.994	1.236	1.017	472
2.	4.947	70.07	223.20	.994	1.236	1.017	433
3.	4.947	90.88	223.20	.994	1.236	1.017	561
4.	4.947	108.93	228.20	.994	1.236	1.017	673
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 .655	Specific Gravity Flowing Fluid _____
1.	.35	526	1.50	.966			xxxxxxx	.655
2.	.34	526	1.50	.968			xxxxxxx	.655
3.	.34	526	1.50	.968			xxxxxxx	.655
4.	.35	526	1.50	.967			xxxxxxx	.655
5.	0.00	0	0.00	0.000			xxxxxxx	.655

Pc	994.2	Pc2	988.4					
NO	Pt2	Pw	Pw2	Pc2-Pw2 (1)	Pc2	Pc2-Pw2	(2)	Pc2
1.	501.5	710.5	504.8	483.7				
2.	480.5	695.2	483.3	505.2				
3.	494.5	706.4	499.1	489.4				
4.	439.8	668.2	446.5	542.0				
5.	0.0	0.0	0.0	0.0				

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1228 \text{ Mcfd}$$

Absolute Open Flow 1228 Mcfd @ 15.025 Angle of Slope, 0 45 Slope, n1.000
Remarks:

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

Adopted 9-1-65

DATE 05/31/83

COMPANY Yates Petroleum Corporation LEASE Bestwall "ST" Com WELL NO. 1

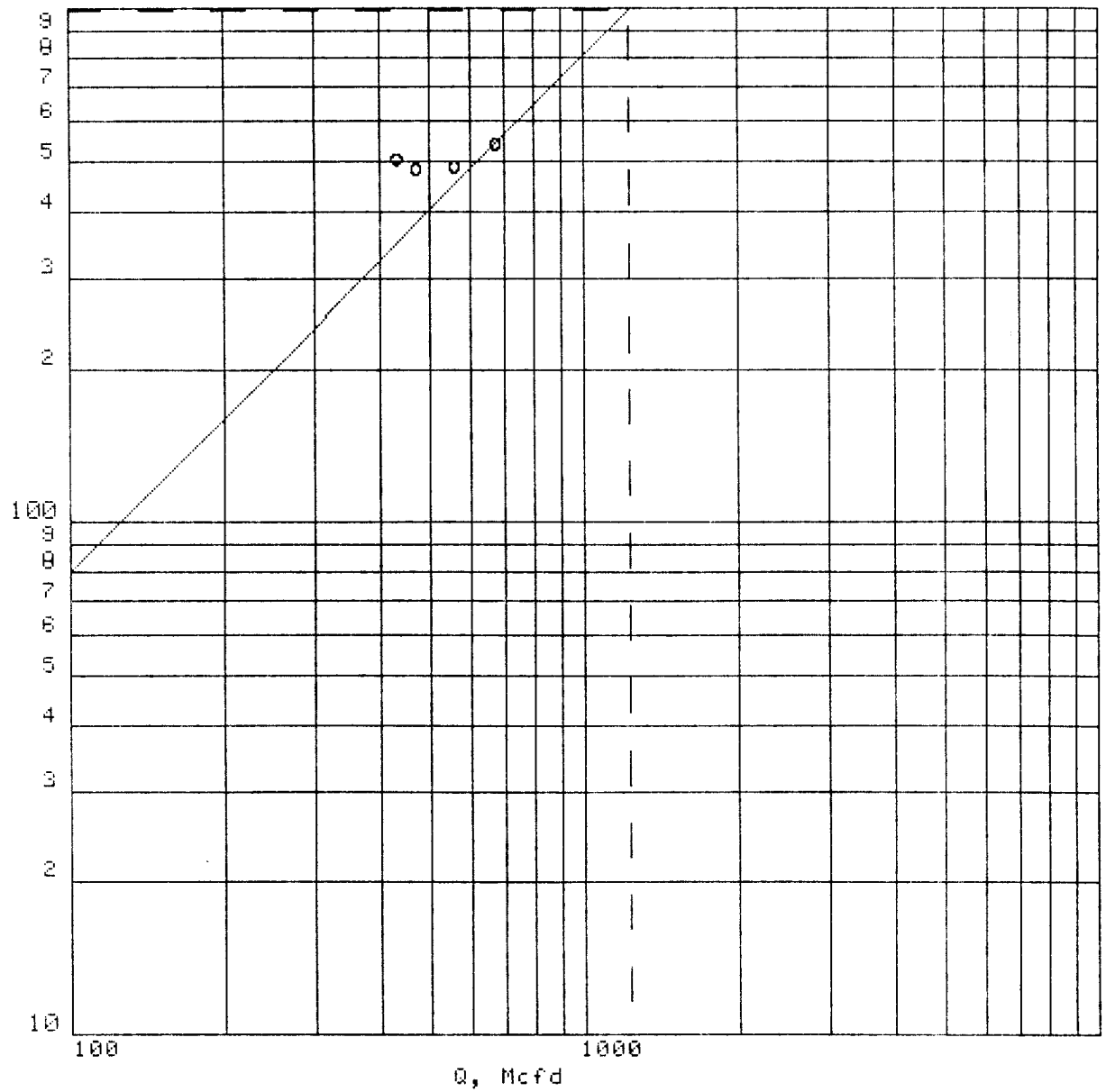
LOCATION: Unit N Section 20 Township 8S Range 26E

L 4220.0 H 4220.0 L/H 1.000 G .655 %CO₂ .21 %H₂ 7.91 %H₂S 0.00

d 1.995 Fr .017777 GH 2764.1 Pcr 657.8 Tcr 351.7

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.472	.433	.561	.673	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	566.0	566.0	566.0	566.0	0.0
4 T=(Tw+Ts)/2	544.0	544.0	544.0	544.0	0.0
5 Z(Est.)	.902	.904	.903	.908	0.000
6 TZ	491.0	492.0	491.3	494.0	0.0
7 GH/TZ	5.630	5.618	5.626	5.595	0.000
8 e ^s (Table XIV)	1.235	1.235	1.235	1.233	0.000
9 1-e ^s (Table XIV)	.190	.190	.190	.189	0.000
10 Pt	708.2	693.2	703.2	663.2	0.0
11 Pt ² /1000	501.5	480.5	494.5	439.8	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.728	8.746	8.733	8.782	0.000
14 FcQm	4.121	3.787	4.903	5.913	0.000
15 L/H(FcQm) ²	16.980	14.340	24.043	34.966	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	3.232	2.724	4.574	6.618	0.000
17 Pw ² =Pt ² +Fw	504.8	483.3	499.1	446.5	0.0
18 Ps ² =e ^s Pw ²	623.4	596.6	616.3	550.7	0.0
19 Ps	789.6	772.4	785.0	742.1	0.0
20 P=(Pt+Ps)/2	748.9	732.8	744.1	702.6	0.0
21 Pr=(P/Pcr)	1.14	1.11	1.13	1.07	0.00
22 Tr=(T/Tcr)	1.55	1.55	1.55	1.55	0.00
23 Z(Table XI)	.902	.904	.903	.908	0.000

Company	Yates Petroleum Corporation
Well	Bestwall "ST" Com No. 1
Location	N, 20-8S-26E
County	Chaves
Date	05/31/83



ROF= 1228