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FILE

(May 13 1991)

OIL FIELD
Form C-122

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

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 10/25/90		Total Depth 4350.0'		Plug Back TD 4345.0'	Elevation 3518.6'	
Farm or Lease Name Mountain VR Fed						
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4350.0'	Perforations: From 3792.0' To 3809.0'		
Well No. 1						
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3746.0'	Perforations: From 0.0' To 0.0'		
Unit Sec Twp Rge 0 8 08 25E						
Type Well Single				Packer Set At 3746.0'		
Producing Thru Tubing				County Chaves		
Resv. Temp. °F 114 @ 3746'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		
State New Mexico						
L 3746.0'	H 3746.0'	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	60	1027	0	0	0	0 hrs.
1.	2.067 X 1.375	140	10.0	64	960	62	0	0	24 hrs.
2.	2.067 X 1.375	140	13.1	65	955	62	0	0	24 hrs.
3.	2.067 X 1.375	160	16.9	61	919	62	0	0	24 hrs.
4.	2.067 X 1.375	160	19.0	60	911	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)	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	10.204	39.14	153.20	.996	1.231	1.012
2.	10.204	44.80	153.20	.995	1.231	1.012
3.	10.204	54.10	173.20	.999	1.231	1.013
4.	10.204	57.37	173.20	1.000	1.231	1.013
5.	0.000	0.00	0.00	0.000	0.000	0.000

NO	Pr °R	Tr °R	Z	Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.
1.	.23	524	1.49	.977
2.	.23	525	1.50	.977
3.	.26	521	1.49	.975
4.	.26	520	1.48	.975
5.	0.00	0	0.00	0.000

NO	Pt ²	Pw	Pw ²	Pc ² -Pw ² (1)	Pc ² = 4.8619	(2) $\left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n$ = 3.2219
1.	947.1	974.8	950.3	131.8		
2.	937.4	970.3	941.5	140.5		
3.	869.0	935.5	875.1	206.9		
4.	854.1	927.9	861.0	221.0		
5.	0.0	0.0	0.0	0.0		

Absolute Open Flow 2351 Mcfd @ 15.025 Angle of Slope, 0 36 Slope, n .740
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 5/13/91

COMPANY Yates Petroleum Corporation LEASE Mountain VR Fed WELL NO. 1

LOCATION: Unit 0 Section 8 Township 08 Range 25E

L 3746.0 H 3746.0 L/H 1.000 G .660 %CO₂ .37 %N₂ 8.77 %H₂S 0.00

d 1.995 Fr .017777 GH 2472.4 Pcr 656.8 Tcr 350.6

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.496	.567	.688	.730	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	574.0	574.0	574.0	574.0	0.0
4 T=(Tw+Ts)/2	548.0	548.0	548.0	548.0	0.0
5 Z(Est.)	.876	.876	.880	.881	0.000
6 TZ	479.9	480.1	482.3	482.8	0.0
7 GH/TZ	5.152	5.149	5.126	5.121	0.000
8 e ^s (Table XIV)	1.213	1.213	1.212	1.212	0.000
9 1-e ^{-s} (Table XIV)	.176	.176	.175	.175	0.000
10 Pt	973.2	968.2	932.2	924.2	0.0
11 Pt ² /1000	947.1	937.4	869.0	854.1	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.537	8.535	8.574	8.582	0.000
14 FcQm	4.230	4.836	5.895	6.263	0.000
15 L/H(FcQm) ²	17.895	23.388	34.745	39.224	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	3.142	4.107	6.076	6.854	0.000
17 Pw ² =Pt ² +Fw	950.3	941.5	875.1	861.0	0.0
18 Ps ² =e ^s Pw ²	1152.6	1142.1	1060.5	1043.3	0.0
19 Ps	1073.6	1068.7	1029.8	1021.4	0.0
20 P=(Pt+Ps)/2	1023.4	1018.4	981.0	972.8	0.0
21 Pr=(P/Pcr)	1.56	1.55	1.49	1.48	0.00
22 Tr=(T/Tcr)	1.56	1.56	1.56	1.56	0.00
23 Z(Table XI)	.876	.876	.880	.881	0.000

Company	Yates Petroleum Corporation
Well	Mountain VR Fed No. 1
Location	O, 8-0S-25E
County	Chaves
Date	5/13/91

$P_c^2 - P_w^2$, THOUSANDS

