

N. NE 100 OIL CONSERVATION COMMISSION
MULTIPOINT AND PLUG BACK PRESSURE TEST FOR

RECEIVED BY
JUL 09 1984
O. C. D.
ARTESIA, OFFICE

Type Test	[x] Initial [] Special			Test Date	5/9/84		
Company	Yates Petroleum Corporation Transwestern Pipeline Company						
Pool	Farm or Lease Name						
Pecos Slope	F.H.			Unit	A 34 75 256		
Completion Date	5/2/83		Total Depth	4951.0'		Plug Back TD	3981.0'
Elevation	3931.0'		Farm or Lease Name				
Csg Size	Wt.	d	Perforations:				
4.530"	9.580#	4.03"	4647.0' to 5719.0' to 6187.0'				
Tbg Size	Wt.	d	Perforations:				
2.375"	4.723#	1.495"	3984.0' to 4000.0' to 4000.0'				
Type Well	Single			Packer Set At	2386.0'		
Producing Thru	103 @ 3670'			Res. Temp. °F	102.0		
Flowing	103 @ 3670'			Flow Temp. °F	102.0		
L	H	Q	Q	Q	Q	Q	Q
3685.0'	3685.0'	.647	.62	5.10	0.00	0.000"	2.000"
FLOW DATA				TUBING DATA		CASING DATA	

NO	Prover Orifice Size X Size	Press. psig	Diff. in. Hg	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	Duration of Flow
1.	3.000 X 0.300	110	1.1	69	1004	0	0	0	0 hrs.
2.	2.067 X .750	120	1.0	55	915	0	0	0	24 hrs.
3.	2.067 X .750	135	1.0	55	823	0	0	0	24 hrs.
4.	2.067 X .750	125	1.0	55	606	0	0	0	24 hrs.
5.	3.000 X 0.300	0	0.0	0	570	0	0	0	24 hrs.

TYPE OF FLOW CALCULATIONS

NO	Coefficient (24 HOUR)	Flow Rate	Pressure	Factor	Factor	Super Compress.	Rate of Flow
1.	2.709	3.18	1.20	.501	1.360	1.010	145
2.	2.709	25.28	1.30	.501	1.343	1.310	237
3.	2.709	93.27	1.40	.501	1.331	1.010	315
4.	2.709	181.16	1.50	.501	1.241	1.014	410
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °F	Grav. Ratio	Grav. Ratio	Grav. Ratio	Grav. Ratio	Grav. Ratio
1.	.19	523	1.43	.331	Specific Gravity Separator Gas .647	Specific Gravity Flowing Fluid .647	Specific Gravity Flowing Fluid .647
2.	.20	523	1.43	.331	Specific Gravity Separator Gas .647	Specific Gravity Flowing Fluid .647	Specific Gravity Flowing Fluid .647
3.	.21	523	1.43	.331	Specific Gravity Separator Gas .647	Specific Gravity Flowing Fluid .647	Specific Gravity Flowing Fluid .647
4.	.28	523	1.43	.331	Specific Gravity Separator Gas .647	Specific Gravity Flowing Fluid .647	Specific Gravity Flowing Fluid .647
5.	0.00	0	0.00	0.000	Specific Gravity Separator Gas .647	Specific Gravity Flowing Fluid .647	Specific Gravity Flowing Fluid .647

Fe 1017.2	Pc2 1034.7	Pc1 1017.2	Pc2 1034.7	Pc1 1017.2	Pc2 1034.7	Pc1 1017.2	Pc2 1034.7
NO	Pt2	Pu2	Pu2 - Pt2	Pc2	Pc2 - Pu2	Pc2	Pc2 - Pu2
1.	361.6	928.3	566.7	171.3	1.4965	1.4965	1.4965
2.	699.2	836.6	137.4	324.9	1.3477	1.3477	1.3477
3.	488.3	788.1	299.8	541.8	1.000	1.000	1.000
4.	348.1	582.1	234.0	682.4	1.000	1.000	1.000
5.	9.0	6.3	2.7	6.3	1.000	1.000	1.000

Absolute Open Flow 300 Mcfd @ 15.005 Angle of Slope .6 37 Slope, n .748
Remarks:

Approved By: Conducted By: Calculated By: Checked By:
David Newton Andie Carpenter

Adopted 9-1-65

DATE 7/6/84

COMPANY Yates Petroleum Corporation (Case Federal) NY Well No. 7

LOCATION: Unit 3 Section 31 Township 29 Range 25E

L 3698.3 H 1513.2 L-H 2185.1 2047 NOC2 1.11 NH2 5.78 NH28 0.00

d 0.643 Fr 0.017777 Gr 0.8 Pcr 666.8 Tcr 355.3

LINE	1. ΔP_{ent}	2. ΔP_{ent}	3. ΔP_{ent}	4. ΔP_{ent}	5. ΔP_{ent}
1. ΔP_{ent}	148	148	148	148	0.000
2. $T_w(\text{H.L. } ^\circ\text{F})$	521.0	521.0	521.0	521.0	0.0
3. $T_s(\text{H.L. } ^\circ\text{F})$	541.0	541.0	541.0	541.0	0.0
4. $T = (T_w + T_s) / 2$	541.0	541.5	542.5	542.5	0.0
5. $Z(\text{Est.})$	1.370	1.382	1.390	1.316	0.000
6. TZ	470.2	470.5	468.5	496.9	0.0
7. GH/TZ	0.000	0.004	4.064	4.799	0.000
8. $a^2(\text{Table MW})$	1.200	1.205	1.201	1.197	0.000
9. $1 - a^2(\text{Table MW})$	1.173	1.170	1.107	1.165	0.000
10. P_t	638.2	638.2	638.2	638.2	0.0
11. $P_t^2 \times 1000$	407.0	638.2	408.9	346.1	0.0
12. $F_r(\text{Table MW})$	0.017777	0.017777	0.017777	0.017777	0.000000
13. $P_c = P_t \times TZ$	0.096	0.587	0.601	0.937	0.000
14. $P_c \Delta m$	0.221	2.015	2.752	0.625	0.000
15. $L/H(P_c \Delta m)^2$	1.460	4.630	1.462	13.138	0.000
16. $P_w = L/H(P_c \Delta m)^2 \times (1 - a^2)$	0.257	0.692	1.149	2.166	0.000
17. $P_w^2 = P_t^2 + P_w$	601.3	638.2	498.1	342.3	0.0
18. $P_s^2 = a^2 P_w^2$	10-1.5	043.8	538.6	409.8	0.0
19. P_s	100.5	918.6	757.2	648.1	0.0
20. $P = (P_t + P_s) \times 2$	074.4	077.4	733.2	611.7	0.0
21. $P_r = (P/P_{cr})$	1.47	1.33	1.11	0.93	0.00
22. $T_r = (T/T_{cr})$	1.53	1.53	1.03	1.53	0.00
23. $Z(\text{Table MW})$	0.070	0.002	0.000	0.916	0.000

Company	Valle Petroleum Corporation
Well	Well No. 7
Location	100-100
County	100
Date	100

$P_{01} - P_{02}$, THOUSANDS

