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

Form C-122
RECEIVED

APR 22 '88

Type Test [x] Initial [] Annual [] Special				Test Date 3/10/88	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company	
Pool E. EAGLE CREEK ATOKA-MORROW				Formation ATOKA MORROW	
Completion Date 4/6/83				Total Depth 8220.0'	
Csg Size 4.500"				Wt. 9.500#	
Tbg Size 2.375"				Wt. 4.700#	
Type Well Single				Packer Set At 7726.0'	
Producing Thru Tubing				Resv. Temp. °F 166 @ 7715'	
Mean Temp. °F 62.0				Baro. Press. - Pa 13.2 psia.	
Farm or Lease Name JACKSON EST BY				Well No. 17	
Unit Sec H 21				Twp Rge 17S 25E	
County EDDY				State New Mexico	

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	70	2200	0	0	0	0 hrs.
1.	2.067 X 1.000	245	8.9	70	2013	62	0	0	24 hrs.
2.	2.067 X 1.000	240	22.6	70	1812	62	0	0	24 hrs.
3.	2.067 X 1.000	240	61.0	70	1416	62	0	0	24 hrs.
4.	2.067 X 1.000	235	88.0	70	1150	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.	4.947	47.94	258.20	.991	1.182	1.026	285
2.	4.947	75.65	253.20	.991	1.182	1.025	449
3.	4.947	124.28	253.20	.991	1.182	1.025	738
4.	4.947	147.79	248.20	.991	1.182	1.025	877
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.38	530	1.37	.950	18.310 Mcf/bbl.	55.000 Deg.	.716	xxxxxxx	680.9 PSIA	385.6°R
2.	.37	530	1.37	.951				xxxxxxx	675.5 PSIA	436.4°R
3.	.37	530	1.37	.951						
4.	.36	530	1.37	.952						
5.	0.00	0	0.00	0.000						

NO	Pt ²	Pw	Pw ²	Pc ² -Pw ² (1)	Pc ² /Pc ² -Pw ²	(2) [Pc ² /Pc ² -Pw ²] ⁿ
1.	4105.5	2026.6	4107.2	791.0	1.3920	1.3131
2.	3331.4	1826.4	3335.6	1562.6		
3.	2042.6	1433.3	2054.4	2843.9		
4.	1353.0	1170.9	1371.1	3527.2		
5.	0.0	0.0	0.0	0.0		

AOF = Q [Pc²/Pc²-Pw²]ⁿ = 1152 Mcfd

Absolute Open Flow 1152 Mcfd @ 15.025 Angle of Slope, 0 39 Slope, n .824

Remarks:

Approved By:	Conducted By: TRACY RICHARDSON	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 4/21/88

COMPANY Yates Petroleum Corporation LEASE JACKSON EST BY WELL NO. 17

LOCATION: Unit H Section 21 Township 17S Range 25E

L 7725.0 H 7725.0 L/H 1.000 G .870 %CO₂ 3.41 %N₂ 1.08 %H₂S 0.00

d 1.995 Fr .017777 GH 6721.2 Pcr 675.5 Tcr 436.4

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.285	.449	.738	.877	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	626.0	626.0	626.0	626.0	0.0
4 T=(Tw+Ts)/2	574.0	574.0	574.0	574.0	0.0
5 Z(Est.)	.649	.640	.651	.692	0.000
6 TZ	372.6	367.3	373.8	397.2	0.0
7 GH/TZ	18.040	18.300	17.981	16.921	0.000
8 e ^s (Table XIV)	1.966	1.986	1.963	1.886	0.000
9 1-e ^{-s} (Table XIV)	.491	.497	.490	.470	0.000
10 Pt	2026.2	1825.2	1429.2	1163.2	0.0
11 Pt ² /1000	4105.5	3331.4	2042.6	1353.0	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	6.626	6.529	6.645	7.061	0.000
14 FcQm	1.887	2.932	4.903	6.193	0.000
15 L/H(FcQm) ²	3.560	8.599	24.040	38.351	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	1.750	4.270	11.791	18.017	0.000
17 Pw ² =Pt ² +Fw	4107.2	3335.6	2054.4	1371.1	0.0
18 Ps ² =e ^s Pw ²	8076.4	6625.2	4032.0	2585.9	0.0
19 Ps	2841.9	2574.0	2008.0	1608.1	0.0
20 P=(Pt+Ps)/2	2434.1	2199.6	1718.6	1385.6	0.0
21 Pr=(P/Pcr)	3.60	3.26	2.54	2.05	0.00
22 Tr=(T/Tcr)	1.32	1.32	1.32	1.32	0.00
23 Z(Table XI)	.649	.640	.651	.692	0.000

Company	Yates Petroleum Corporation
Well	JACKSON EST BY No. 17
Location	H, 21-17S-25E
County	EDDY
Date	4/21/88

