

dsf file

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

Form C-122

RECEIVED

Type Test [x] Initial [] Annual [] Special						Test Date 3/31/88		APR 10 '89	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company					
Pool <u>EAGLE CREEK</u> Atoka Morrow				Formation Eagle Creek				Unit ARTESIAL CRACK	
Completion Date 6/21/83		Total Depth 8200.0'		Plug Back TD 7910.0'		Elevation 3530.0'		Farm or Lease Name Federal CB Com	
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 8190.0'	Perforations: From 7707.0' To 7841.0'				Well No. 3	
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 7674.0'	Perforations: From 0.0' To 0.0'				Unit Sec Twp Rge N 15 17S 25E	
Type Well Single						Packer Set At 7674.0'		County Eddy	
Producing Thru Tubing		Resv. Temp. °F 142 @ 7665'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico	
L 7674.0'	H 7674.0'	Gg .621	%CO2 .34	%N2 .40	%H2S 0.00	Prover 0.000"	Meter Run 2.000"	Taps Flange	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO	Prover Size	Orifice 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	1325	0	0	0	0 hrs.
1.	2.067	X .625	215	4.9	68	814	62	0	0	24 hrs.
2.	2.067	X .625	215	6.2	70	602	62	0	0	24 hrs.
3.	2.067	X .625	220	8.0	70	496	62	0	0	24 hrs.
4.	2.067	X .625	230	9.0	69	260	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.	1.866	33.44	228.20	.992	1.269	1.018	80
2.	1.866	37.61	228.20	.991	1.269	1.018	90
3.	1.866	43.19	233.20	.991	1.269	1.018	103
4.	1.866	46.78	243.20	.991	1.269	1.019	112
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.
1.	.34	528	1.46	.965	A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.
2.	.34	530	1.47	.965	Specific Gravity Separator Gas .621 xxxxxxxxxxxxxxx
3.	.35	530	1.47	.964	Specific Gravity Flowing Fluid xxxxxx .621
4.	.36	529	1.46	.963	Critical Pressure 672.1 PSIA 672.1 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature 361.2°R 361.2°R

Pc 1338.2 Pc2 1790.8				
NO	Pt2	Pw	Pw2	Pc2-Pw2 (1)
1.	684.3	827.3	684.4	1106.4
2.	378.5	615.4	378.7	1412.1
3.	259.3	509.5	259.6	1531.2
4.	74.6	273.8	75.0	1715.8
5.	0.0	0.0	0.0	0.0

$$\frac{Pc2}{Pc2-Pw2} = \frac{1.0470}{1.0360} \quad (2) \quad \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 1.0360$$

$$AOF = Q \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 116 \text{ Mcfd}$$

Absolute Open Flow 116 Mcfd @ 15.025 Angle of Slope, 0 38 Slope, n .769

Remarks: _____

Approved By:	Conducted By: Tracy Richardson	Calculated By: Andrea Carpenter	Checked By:
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