

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

RECEIVED

Form C-122

dsf file

JAN 11 '91

Type Test [X] Initial [] Annual [] Special				Test Date 06/09/90		O. G. D. ARTESIA OFFICE	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company			
Pool 82730				Formation South Pecos Slope			
Abo Pecos Slope 4-1-96				Unit			
Completion Date 2-23-90		Total Depth 5450.0'		Plug Back TD 5165.0'		Elevation 3828.3'	
Farm or Lease Name Whitworth RU State				Well No. 5			
Csg Size 5.500"	Wt. 14.000#	d 5.012"	Set At 5450.0'	Perforations: From 4930.0' To 4936.0'			
Tbg Size 2.875"	Wt. 6.500#	d 2.441"	Set At 4794.0'	Perforations: From 0.0' To 0.0'			
Type Well Single				Packer Set At 4794.0'		County Chaves	
Producing Thru Tubing		Resv. Temp. °F 105 @ 4933'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.	
L 4794.0'		H 4794.0'		Gg .656		%CO2 1.47	
				%N2 4.82		%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	93	250	0	0	0	0 hrs.
1.	2.067 X 1.000	160	5.0	95	222	62	0	0	24 hrs.
2.	2.067 X 1.000	150	15.2	91	188	62	0	0	24 hrs.
3.	2.067 X 1.000	140	25.5	93	168	62	0	0	24 hrs.
4.	2.067 X 1.000	140	29.0	100	150	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	29.43	173.20	.968	1.235	1.012	176
2.	4.947	49.81	163.20	.971	1.235	1.011	299
3.	4.947	62.50	153.20	.970	1.235	1.010	374
4.	4.947	66.65	153.20	.964	1.235	1.010	396
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	Mcfd/bbl.
1.	.26	555	1.55	.977	A.P.I. Gravity of Liquid Hydrocarbons	0.000 Deg.
2.	.24	551	1.54	.978	Specific Gravity Separator Gas	.656
3.	.23	553	1.54	.979	Specific Gravity Flowing Fluid	xxxxxx
4.	.23	560	1.56	.980	Critical Pressure	668.3 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	358.5°R

Pc	263.2	Pc2	69.3			
NO	Pt2	Pw	Pw2	Pc2-Pw2	(1)	(2)
1.	55.3	235.6	55.5	13.8	$\frac{Pc2}{Pc2-Pw2} = 1.6652$	$\left[\frac{Pc2}{Pc2-Pw2} \right]^n = 1.4533$
2.	40.5	202.6	41.0	28.2		
3.	32.8	183.6	33.7	35.6		
4.	26.6	166.1	27.6	41.7		
5.	0.0	0.0	0.0	0.0		

$$ROF = Q \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 576 \text{ Mcfd}$$

Absolute Open Flow 576 Mcfd @ 15.025 Angle of Slope, 0 36 Slope, n .733
 Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Mykol Williams	Checked By:
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