

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

Form C-122

OCT 24 '89

Type Test [x] Initial [] Annual [] Special				Test Date 9/23/89	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company	
Pool Wolfcamp				Formation Undesignated	
Completion Date 8/21/89		Total Depth 8350.0'		Plug Back TD 5300.0'	
				Elevation 3704.0'	
Farm or Lease Name Laney AGJ Fed Com					
Csg Size 5.500"	Wt. 14.000#	d 5.012"	Set At 8350.0'	Perforations: From 5021.0' To 5135.0'	
Well No. 1					
Tbg Size 2.875"	Wt. 6.500#	d 2.441"	Set At 4919.0'	Perforations: From 0.0' To 0.0'	
Unit Sec Twp Rge F 11 18S 24E					
Type Well Single				Packer Set At 4919.0'	
Producing Thru Tubing				Baro. Press. - Pa 13.2 psia.	
State New Mexico					
L 4919.0'	H 4919.0'	Gg .680	%CO2 .92	%N2 1.29	%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	81	1490	0	0	0	0 hrs.
1.	2.067 X .875	215	21.0	82	1350	62	0	0	24 hrs.
2.	2.067 X .875	220	27.3	76	1334	62	0	0	24 hrs.
3.	2.067 X .875	220	41.2	79	1259	62	0	0	24 hrs.
4.	2.067 X .875	220	62.1	81	1177	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.	3.729	69.23	228.20	.979	1.213	1.019	313
2.	3.729	79.79	233.20	.985	1.213	1.021	363
3.	3.729	98.02	233.20	.982	1.213	1.020	444
4.	3.729	120.34	233.20	.980	1.213	1.020	544
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.	A.P.I. Gravity of Liquid Hydrocarbons	0.000 Deg.
1.	.34	542	1.44	.962	Specific Gravity Separator Gas .680	xxxxxx	xxxxxx
2.	.35	536	1.42	.960	Specific Gravity Flowing Fluid	xxxxxx	.680
3.	.35	539	1.43	.961	Critical Pressure	671.0 PSIA	671.0 PSIA
4.	.35	541	1.43	.961	Critical Temperature	377.3°R	377.3°R
5.	0.00	0	0.00	0.000			

Pc 1503.2	Pc2 2259.6						
NO	Pt2	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2}$	(2) $\left[\frac{Pc2}{Pc2-Pw2}\right]^n$	
1.	1858.3	1363.4	1858.9	400.8	2.6878	2.0948	
2.	1814.9	1347.5	1815.7	443.9			
3.	1618.5	1272.6	1619.6	640.0			
4.	1416.6	1190.9	1418.2	841.4			
5.	0.0	0.0	0.0	0.0			

$$ROF = Q \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 1140 \text{ Mcfd}$$

Absolute Open Flow 1140 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .748

Remarks:

Approved By:	Conducted By: Ed Perry	Calculated By: Andrea Carpenter	Checked By:
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