

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

Form C-122

OCT 24 '90

Type Test [x] Initial [] Annual [] Special				Test Date 6/21/89	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company	
Pool Atoka Morrow				Formation Undes S. Eagle Creek	
Completion Date 4/27/89		Total Depth 7970.0'		Elevation 3790.0'	
Csg Size 4.500"		Wt. 9.500#		Perforations: From 7613.0' To 7780.0'	
Tbg Size 2.375"		Wt. 4.700#		Perforations: From 0.0' To 0.0'	
Type Well Single				Packer Set At 7563.0'	
Producing Thru Tubing		Resv. Temp. °F 115 @ 4880'		Baro. Press. - Pa 13.2 psia.	
L 7563.0'		H 7563.0'		Gg .643	
CO2 .04		N2 .85		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	
SI	0.000	X 0.000	0	0.0	90	1555	0	0	0 hrs.
1.	2.067	X .750	185	18.0	88	1100	62	0	24 hrs.
2.	2.067	X .750	175	28.4	86	916	62	0	24 hrs.
3.	2.067	X .750	170	34.4	87	898	62	0	24 hrs.
4.	2.067	X .750	165	41.0	90	697	62	0	24 hrs.
5.	0.000	X 0.000	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.	2.709	59.73	198.20	.974	1.247	1.014	199
2.	2.709	73.11	188.20	.976	1.247	1.014	244
3.	2.709	79.39	183.20	.975	1.247	1.013	265
4.	2.709	85.48	178.20	.972	1.247	1.013	284
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.	.30	548	1.49	.972	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.28	546	1.48	.973	Specific Gravity Separator Gas	.643	xxxxxxxxxxxxxx
3.	.27	547	1.49	.974	Specific Gravity Flowing Fluid	xxxxxx	.643
4.	.27	550	1.50	.975	Critical Pressure	669.2 PSIA	669.2 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	367.7°R	367.7°R

Pc 1568.2 Pc2 2459.3

NO	Pt2	Pw	Pw2	Pc2-Pw2	(1)	Pc2	=	1.2600	(2)	Pc2	=	1.1901
1.	1239.2	1113.6	1240.1	1219.2								
2.	863.4	929.9	864.7	1594.5								
3.	830.3	912.1	831.9	1627.4								
4.	504.4	711.5	506.3	1953.0								
5.	0.0	0.0	0.0	0.0								

$$AOF = Q \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 338 \text{ Mcfd}$$

Absolute Open Flow 338 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .753
Remarks:

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