NEW MEXICO OIL CONSERVATION COMMISSION — Form C-122

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

JAN 20 1983

O. C. D.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special							Test Date: 12/17/82	
Company: Yates Petroleum Corporation				Connection: Transwestern Pipeline Company				
Pool: Undesignated Eagle Creek				Formation: Atoka Morrow			Unit	
Completion Date: 5/13/82		Total Depth: 8700.0'		Plug Back TD: 8575.0'		Elevation: 3396.0'	Farm or Lease Name: Sherrel "SR" Com	
Csg Size: 5.500"	Wt.: 17.000#	d: 4.892"	Set At: 8700.0'	Perforations: From 8481.5' To 8528.5'			Well No.: 1	
Tbg Size: 2.875"	Wt.: 6.500#	d: 2.441"	Set At: 8424.0'	Perforations: From 0.0' To 0.0'			Unit Sec: L 32	Twp: 17S Rge: 26E
Type Well: Single				Packer Set At: 8426.0'			County: Eddy	
Producing Thru: Tubing		Resv. Temp. °F: 177 @ 8420'		Mean Temp. °F: 62.0		Baro. Press. - Pa: 13.2 psia.	State: New Mexico	

L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps
8424.0'	8424.0'	.633	1.26	.42	0.00	0.000"	2.000"	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
NO	Prover Size	X Orifice Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	Duration of Flow
SI	0.000	X 0.000	0	0.0	54	2430	0	0	0	0 hrs.
1.	2.067	X .625	190	9.4	54	2151	62	0	0	24 hrs.
2.	2.067	X .625	180	21.1	55	1984	62	0	0	24 hrs.
3.	2.067	X .625	170	46.6	54	1705	62	0	0	24 hrs.
4.	2.067	X .625	170	80.0	51	1220	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)	$\sqrt{hw}Pm$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	1.866	43.70	203.20	1.006	1.257	1.018	105
2.	1.866	63.85	193.20	1.005	1.257	1.017	153
3.	1.866	92.40	183.20	1.006	1.257	1.016	221
4.	1.866	121.06	183.20	1.009	1.257	1.017	291
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.30	514	1.41	.965
2.	.29	515	1.42	.967
3.	.27	514	1.41	.968
4.	.27	511	1.41	.968
5.	0.00	0	0.00	0.000

Gas Liquid Hydrocarbon Ratio	Dry	Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
Specific Gravity Separator Gas	.633	xxxxxxxxxxxxx
Specific Gravity Flowing Fluid	xxxxx	.633
Critical Pressure	675.6 PSIA	675.6 PSIA
Critical Temperature	363.6°R	363.6°R

Pc 2443.2 Pc^2 5969.2

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	4683.8	2164.2	4683.8	1285.4
2.	3988.8	1997.3	3989.0	1980.2
3.	2952.2	1718.3	2952.6	3016.6
4.	1520.8	1233.5	1521.5	4447.7
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2} = 1.9778$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 1.8166$

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n =$ 402 Mcfd

Absolute Open Flow	Angle of Slope, θ	Slope, n
402 Mcfd @ 15.025	41	.875

Remarks:

Approved By:	Conducted By:	Calculated By:	Checked By:
	Ed Perry	Andie Alderson	