

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

Form C-122

RECEIVED

c122
File

JAN 20 1983

Type Test [x] Initial [] Annual [] Special					Test Date 12/13/82		O. C. D. ARTESIA, OFFICE	
Company Yates Petroleum Corporation					Connection Transwestern Pipeline Company			
Pool Wildcat			Formation Strawn			Unit		
Completion Date 11/13/82		Total Depth 8350.0'		Plug Back TD 7865.0'		Elevation 3342.0'		Farm or Lease Name Sharp "OS" Com
Csg Size 4.500"	Wt. 11.600#	d 4.000"	Set At 8350.0'	Perforations: From 7802.0' To 7808.0'			Well No. 1	
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 7769.0'	Perforations: From 0.0' To 0.0'			Unit Sec Twp Rge P 4 17S 26E	
Type Well Single				Packer Set At 7769.0'			County Eddy	
Producing Thru Tubing		Resv. Temp. °F 138 @ 7800'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico
L 7769.0'	H 7769.0'	Gg .686	%CO2 4.61	%N2 1.24	%H2S 0.00	Proven 0.000"	Meter Run 2.000"	Taps Flanges

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Proven 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	50	2095	0	0	0	0 hrs.
1.	2.067 X .375	400	7.3	50	1779	62	0	0	24 hrs.
2.	2.067 X .375	440	13.6	50	1546	62	0	0	24 hrs.
3.	2.067 X .375	430	23.5	50	1233	62	0	0	24 hrs.
4.	2.067 X .375	400	40.0	50	400	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.	.669	54.92	413.20	1.010	1.207	1.043	47
2.	.669	78.51	453.20	1.010	1.207	1.048	67
3.	.669	102.05	443.20	1.010	1.207	1.046	87
4.	.669	128.56	413.20	1.010	1.207	1.043	109
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.	.60	510	1.37	.919	A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.
2.	.66	510	1.37	.911	Specific Gravity Separator Gas .686
3.	.65	510	1.37	.913	Specific Gravity Flowing Fluid .686
4.	.60	510	1.37	.919	Critical Pressure 686.9 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature 373.2°R

Pc 2109.2 Pc2 4444.5				
NO	Pt2	- Pw	Pw2	Pc2-Pw2 (1)
1.	3212.0	1792.2	3212.0	1232.5
2.	2431.1	1559.2	2431.2	2013.3
3.	1553.0	1246.3	1553.2	2891.3
4.	170.7	413.6	171.1	4273.4
5.	0.0	0.0	0.0	0.0

$$\frac{Pc^2}{Pc^2 - Pw^2} = \frac{1.5397}{1} \quad (2) \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 1.3709$$

$$AOF = Q \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 119 \text{ Mcfd}$$

Absolute Open Flow 119 Mcfd @ 15.025 Angle of Slope, 0 36 Slope, n .731

Remarks: _____

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