

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

Form C-122

RECEIVED

45P. File

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12/27/82		FEB 1 1983	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company				O. C. D.	
Pool Pecos Slope - Abo				Formation Abo				Unit ARTESIA, OFFICE	
Completion Date 5/28/82		Total Depth 4050.0'		Plug Back TD 3986.0'		Elevation 3922.4'		Farm or Lease Name Smernoff "NL" State	
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4030.0'	Perforations: From 3528.0' To 3801.0'		Well No. 4			
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3481.0'	Perforations: From 0.0' To 0.0'		Unit Sec Top Rge N 2 58 24E			
Type Well Single						Packer Set At 3481.0'		County Chaves	
Producing Thru Tubing		Resv. Temp. °F 94 @ 3478'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico	
L 3481.0'	H 3481.0'	Gg .644	%CO2 .01	%N2 5.92	%H2S 0.00	Proven 0.000"	Meter Run 2.000"	Taps Flange	

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	45	990	0	0	0	0 hrs.
1.	2.067 X 1.250	140	21.8	45	882	62	0	0	24 hrs.
2.	2.067 X 1.250	140	25.1	45	848	62	0	0	24 hrs.
3.	2.067 X 1.250	140	40.9	45	818	62	0	0	24 hrs.
4.	2.067 X 1.250	140	52.0	45	780	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.	8.134	57.79	153.20	1.015	1.246	1.013	602
2.	8.134	62.01	153.20	1.015	1.246	1.013	646
3.	8.134	79.16	153.20	1.015	1.246	1.013	825
4.	8.134	89.25	153.20	1.015	1.246	1.013	930
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.	.23	505	1.43	.974	Specific Gravity Separator Gas .644	xxxxxxxxxxxxxx	
2.	.23	505	1.43	.974	Specific Gravity Flowing Fluid	xxxxxx	.644
3.	.23	505	1.43	.974	Critical Pressure	660.6 PSIA	660.6 PSIA
4.	.23	505	1.43	.974	Critical Temperature	353.9°R	353.9°R
5.	0.00	0	0.00	0.000			

Pc 1003.2 Pc2 1006.4				
NO	Pt2	Pw	Pw2	Pc2-Pw2 (1)
1.	801.4	897.5	805.5	200.9
2.	741.7	864.0	746.5	260.0
3.	690.9	835.9	698.7	307.7
4.	629.2	799.5	639.2	367.2
5.	0.0	0.0	0.0	0.0

$$\frac{Pc2}{Pc2-Pw2} = \frac{2.7533}{(2)} \left[\frac{Pc2}{Pc2-Pw2} \right]^n = \frac{2.0815}{AOF = 0 \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 1936 \text{ Mcfd}}$$

Absolute Open Flow	1936 Mcfd @ 15.025	Angle of Slope, 0	36	Slope, n .724
Remarks:				

Approved By:	Conducted By: David Weaver	Calculated By: Andie Alderson	Checked By:
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