

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

c/SF
File

Form C-122

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3/10/83		MAY 20 1983	
Company Yates Petroleum Corporation					Connection Transwestern Pipeline Company		O. C. D.	
Pool Pecos Slope - Abo					Formation Abo		Unit ARTESIA, OFFICE	
Completion Date 6/18/82		Total Depth 4100.0'		Plug Back TD 4035.0'		Elevation 3959.0'		Farm or Lease Name Mike Harvey "TR" Fed
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4099.0'	Perforations: From 3521.0' To 3795.0'		Well No. 1		
Tbg Size 2.875"	Wt. 4.700#	d 1.995"	Set At 3475.0'	Perforations: From 0.0' To 0.0'		Unit Sec Twp Rge I 3 5S 24E		
Type Well Single					Packer Set At 3475.0'		County Chaves	
Producing Thru Tubing		Reso. Temp. °F 102 @ 3475'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico
L 3475.0'	H 3475.0'	Gg .649	%CO2 .03	%N2 6.06	%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	
01	0.000 X 0.000	0	0.0	0	1005	0	0	0	0 hrs.
1.	2.067 X 1.125	310	5.0	68	972	62	0	0	24 hrs.
2.	2.067 X 1.125	140	18.0	69	823	62	0	0	24 hrs.
3.	2.067 X 1.125	135	38.0	69	890	62	0	0	24 hrs.
4.	2.067 X 1.125	135	51.0	69	885	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.	6.397	40.20	323.20	.992	1.241	1.025	325
2.	6.397	52.51	153.20	.991	1.241	1.011	418
3.	6.397	75.04	148.20	.991	1.241	1.010	597
4.	6.397	86.94	148.20	.991	1.241	1.010	691
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.	Specific Gravity Separator Gas .649	Specific Gravity Flowing Fluid .649	Critical Pressure 660.3 PSIA	Critical Temperature 355.2°R
1.	.49	528	1.49	.951						
2.	.23	529	1.49	.979						
3.	.22	529	1.49	.980						
4.	.22	529	1.49	.980						
5.	0.00	0	0.00	0.000						

Pc 1018.2	Pc² 1036.7						
NO	Pt²	Pw	Pw²	Pc²-Pw² (1)	Pc² = 4.1276	(2) $\left[\frac{Pc²}{Pc²-Pw²} \right]^n$	n = 2.2113
1.	970.6	985.8	971.8	64.9			
2.	699.2	837.4	701.3	335.5			
3.	815.8	905.5	819.9	216.8			
4.	806.8	901.3	812.3	224.4			
5.	0.0	0.0	0.0	0.0			

$$ROF = Q \left[\frac{Pc²}{Pc²-Pw²} \right]^n = 1529 \text{ Mcfd}$$

Absolute Open Flow 1529 Mcfd @ 15.025 Angle of Slope, 0 29 Slope, n .560
Remarks:

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