

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

RECEIVED
Form C-122

45F
File

JUL 22 '88

Type Test [x] Initial [] Annual [] Special				Test Date 6/2/88		J. C. D. ARTESIA, OFFICE	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company			
Pool Pecos Slope A00				Formation Abo		Unit	
Completion Date 2/4/83		Total Depth 4200.0'		Plug Back TD 4160.0'		Elevation 3901.8'	
Farm or Lease Name Cities UO Federal				Well No. 1			
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4200.0'	Perforations: From 3714.0' To 3877.0'			
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3680.0'	Perforations: From 0.0' To 0.0'		Unit Sec Twp Rge H 7 5S 25E	
Type Well Single				Packer Set At 3680.0'		County Chaves	
Producing Thru Tubing		Resv. Temp. °F 106 @ 3675'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.	
L 3680.0'		H 3680.0'		Gg .654		%CO2 .02	
				%N2 7.11		%H2S 0.00	
				Prover 0.000"		Meter Run 2.000"	
						Taps Flange	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Prover 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	90	939	0	0	0	0 hrs.
1.	3.068 X 1.000	110	59.0	89	735	62	0	0	24 hrs.
2.	3.068 X 1.000	100	71.5	89	717	62	0	0	24 hrs.
3.	3.068 X 1.000	95	83.0	90	677	62	0	0	24 hrs.
4.	3.068 X 1.000	95	93.8	90	673	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.	4.788	85.26	123.20	.973	1.237	1.008	495
2.	4.788	89.97	113.20	.973	1.237	1.008	522
3.	4.788	94.77	108.20	.972	1.237	1.007	550
4.	4.788	100.74	108.20	.972	1.237	1.007	584
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	Mcfd/bbl.
1.	.19	549	1.55	.983	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.17	549	1.55	.985	Specific Gravity Separator Gas	.654	xxxxxxxxxxxxxx
3.	.16	550	1.55	.986	Specific Gravity Flowing Fluid	xxxxxx	.654
4.	.16	550	1.55	.986	Critical Pressure	658.3	PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	353.9	°R

Pc	952.2	Pc ²	906.7				
NO	Pt ²	Pw	Pw ²	Pc ² -Pw ²	(1)	$\frac{Pc^2}{Pc^2-Pw^2} = \frac{2.1013}{}$	(2) $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = \frac{1.7149}{}$
1.	559.8	750.3	562.9	343.8			
2.	533.2	732.6	536.7	370.0			
3.	476.4	693.0	480.2	426.4			
4.	470.9	689.4	475.2	431.4			
5.	0.0	0.0	0.0	0.0			

ROF = Q $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = \frac{1002 \text{ Mcfd}}{}$

Absolute Open Flow 1002 Mcfd @ 15.025 Angle of Slope, 0 36 Slope, n .726
Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Theresa Sloan	Checked By:
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