

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

Form C-122

971
File

Type Test [x] Initial [] Annual [] Special						Test Date 6/5/83		AUG 02 1983	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company				O. C. D. ARTESIA, OFFICE	
Pool Pecos Slope: <i>abo</i>				Formation Abo				Unit	
Completion Date 9/3/82		Total Depth 4327.0'		Plug Back TD 4261.0'		Elevation 3583.2'		Farm or Lease Name Skink "SK" State	
Csg Size 4.500"	Wt. 3.500#	d 4.090"	Set At 4327.0'	Perforations: From 3755.0' To 4079.0'		Well No. 3			
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 4037.0'	Perforations: From 0.0' To 0.0'		Unit Sec Twp Rge C 32 7S 26E			
Type Well Single						Packer Set At 4037.0'		County Chaves	
Producing Tubing		Resv. Temp. °F 100 @ 4030'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico	
L 4037.0'	G 4037.0'	Gg .643	%CO2 .04	%N2 5.33	%H2S 0.00	Prover 0.000"	Meter Run 2.000"	Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Size	Orifice Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	
SI	0.000	x 0.000	0	0.0	0	950	0	0	0	0 hrs.
1.	2.067	x 1.000	330	15.0	70	825	62	0	0	24 hrs.
2.	2.067	x 1.000	290	29.0	70	760	62	0	0	24 hrs.
3.	2.067	x 1.000	285	49.0	70	685	62	0	0	24 hrs.
4.	2.067	x 1.000	225	95.0	70	590	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.	4.347	71.75	343.20	.991	1.247	1.027	450
2.	4.347	93.77	303.20	.991	1.247	1.023	586
3.	4.347	120.88	298.20	.991	1.247	1.023	756
4.	4.347	150.43	238.20	.991	1.247	1.018	936
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 .643	Specific Gravity Flowing Fluid xxxxxxx .643	Critical Pressure 661.8 PSIA	661.8 PSIA	Critical Temperature 355.2°R	355.2°R
1.	.52	530	1.49	.949								
2.	.46	530	1.49	.955								
3.	.45	530	1.49	.956								
4.	.36	530	1.49	.965								
5.	0.00	0	0.00	0.000								

Pc	963.2	Pc2	927.8
NO	Pt2	Pw	Pw2
1.	702.6	839.8	705.3
2.	597.8	776.2	602.4
3.	487.5	703.7	495.2
4.	363.9	613.1	375.9
5.	0.0	0.0	0.0

$$(1) \frac{Pc^2}{Pc^2 - Pw^2} = 1.6823$$

$$(2) \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 1.5842$$

$$AOF = Q \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 1482 \text{ Mcfd}$$

Absolute Open Flow 1482 Mcfd @ 15.025 Angle of Slope, 0 41 Slope, n .885

Remarks: _____

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