

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

c/sf
File

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Form C-122
NOV 08 1984
O. C. D.
ARTESIA, OFFICE

Type Test [x] Initial [] Annual [] Special					Test Date 6/5/84		ARTESIA, OFFICE	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company				
Pool Pecos Slope <i>Also</i>				Formation Abo				Unit
Completion Date 2/26/83		Total Depth 4200.0'		Plug Back TD 4193.0'		Elevation 3904.7'		Farm or Lease Name Margaret RQ State
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4193.0'	Perforations: From 3635.0' To 3803.0'		Well No. 3		
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3595.0'	Perforations: From 0.0' To 0.0'		Unit Sec P 36	Twp 4S	Rge 24E
Type Well Single					Packer Set At 3595.0'		County Chaves	
Producing Thru Tubing		Resv. Temp. °F 102 @ 3590'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico
L 3595.0'	H 3595.0'	Gg .653	%CO2 .01	%N2 6.27	%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	0	1008	0	0	0	0 hrs.
1.	2.067 X 1.000	125	17.2	69	948	62	0	0	24 hrs.
2.	2.067 X 1.000	130	35.2	69	895	62	0	0	24 hrs.
3.	2.067 X 1.000	140	88.8	69	801	62	0	0	24 hrs.
4.	2.067 X 1.000	155	97.0	69	765	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.	4.947	48.75	138.20	.991	1.237	1.010	299
2.	4.947	71.00	143.20	.991	1.237	1.010	435
3.	4.947	116.64	153.20	.991	1.237	1.011	716
4.	4.947	127.73	168.20	.991	1.237	1.012	785
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.	.21	529	1.49	.981	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.22	529	1.49	.980	Specific Gravity Separator Gas	.653	xxxxxxxxxxxxxxx
3.	.23	529	1.49	.979	Specific Gravity Flowing Fluid	xxxxxx	.653
4.	.25	529	1.49	.976	Critical Pressure	659.7 PSIA	659.7 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	355.9°R	355.9°R

Pc 1021.2 Pc2 1042.8				
NO	Pt2	Pw	Pw2	Pc2-Pw2
1.	923.9	961.8	925.0	117.9
2.	824.8	909.4	827.1	215.8
3.	662.9	818.0	669.2	373.7
4.	605.6	783.0	613.1	429.7
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2 - Pw^2} = 2.4463$ (2) $\left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 1.9573$

ROF = $Q \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 1536 \text{ Mcfd}$

Absolute Open Flow 1536 Mcfd @ 15.025 Angle of Slope, θ 37 Slope, n .751

Remarks: _____

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