

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

Form C-122

RECEIVED

clerk file

Type Test [x] Initial [] Annual [] Special					Test Date 5/27/88		JUL 22 '88	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company			O. C. D. ARTESIA, OFFICE	
Pool Hoag Tank <i>MORROW</i>				Formation Morrow			Unit	
Completion Date 9/28/82		Total Depth 9284.0'		Plug Back TD 9040.0'		Elevation 3686.0'		Farm or Lease Name Eng TX Federal
Csg Size 5.500"	Wt. 14.000#	d 5.012"	Set At 9284.0'	Perforations: From 8988.0' To 9024.0'			Well No. 1	
Tbg Size 2.875"	Wt. 6.500#	d 2.441"	Set At 8937.0'	Perforations: From 0.0' To 0.0'			Unit Sec Twp Rge E 35 19S 24E	
Type Well Single				Packer Set At 8937.0'			County Eddy	
Producing Thru Tubing		Resv. Temp. °F 150 @ 9006'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico
L 8937.0'	H 8937.0'	Gg .595	%CO2 .71	%N2 .22	%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	77	2690	0	0	0	0 hrs.
1.	2.067 X .875	280	3.9	78	2214	62	0	0	24 hrs.
2.	2.067 X .875	280	5.1	78	2034	62	0	0	24 hrs.
3.	2.067 X .875	270	7.0	77	1978	62	0	0	24 hrs.
4.	2.067 X .875	270	8.0	76	1900	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.	3.729	33.82	293.20	.983	1.296	1.020	164
2.	3.729	38.67	293.20	.983	1.296	1.020	188
3.	3.729	44.52	283.20	.984	1.296	1.020	216
4.	3.729	47.60	283.20	.985	1.296	1.020	231
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.	.43	538	1.53	.961	A.P.I. Gravity of Liquid Hydrocarbons	0.000 Deg.
2.	.43	538	1.53	.961	Specific Gravity Separator Gas	.595
3.	.42	537	1.52	.962	Specific Gravity Flowing Fluid	xxxxxx .595
4.	.42	536	1.52	.962	Critical Pressure	674.9 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	352.5°R

Pc 2703.2 Pc2 7307.3

NO	Pt2	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2}$	(2) $\left[\frac{Pc2}{Pc2-Pw2} \right]^n$
1.	4960.4	2227.3	4960.6	2346.7	$\frac{2.0040}{Pc2-Pw2}$	$\frac{1.7184}{Pc2-Pw2}$
2.	4191.0	2047.3	4191.3	3116.0		
3.	3964.9	1991.3	3965.3	3342.0		
4.	3660.3	1913.3	3660.8	3646.5		
5.	0.0	0.0	0.0	0.0		

ROF = Q $\left[\frac{Pc2}{Pc2-Pw2} \right]^n$ = 397 Mcfd

Absolute Open Flow 397 Mcfd @ 15.025 Angle of Slope, 0 38 Slope, n .779
Remarks:

Approved By:	Conducted By: Tracy Richardson	Calculated By: Andrea Carpenter	Checked By:
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