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

Form C-122

RECEIVED BY
JUN 26 1985
O. C. D.
ARTESIA, OFFICE

Type Test [x] Initial [ ] Annual [ ] Special						Test Date 1/3/85		
Company Yates Petroleum Corporation			Connection Transwestern Pipeline Company					
Pool Benson			Formation Strawn				Unit Benson Deep Unit	
Completion Date 3/31/84	Total Depth 12116.0'		Plug Back TD 11625.0'		Elevation 3414.0'		Farm or Lease Name	
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 12116.0'	Perforations: From 10829.0' To 10839.0'			Well No. 4	
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 10777.0'	Perforations: From 0.0' To 0.0'			Unit F	Sec 3 Twp 19S Rge 30E
Type Well Single			Packer Set At 10777.0'				County Eddy	
Producing Thru Tubing	Resv. Temp. °F 120 @ 10834'		Mean Temp. °F 62.0	Baro. Press. - Pa 13.2 psia.			State New Mexico	

L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps
10777.0'	10777.0'	.725	.29	1.88	0.00	0.000"	2.000"	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
NO	Prover Size	X Orifice Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	Duration of Flow
SI	0.000	X 0.000	0	0.0	70	2718	0	0	0	0 hrs.
1.	2.067	X .875	395	13.3	70	2515	62	0	0	24 hrs.
2.	2.067	X .875	400	15.5	70	2467	62	0	0	24 hrs.
3.	2.067	X .875	430	21.5	70	2410	62	0	0	24 hrs.
4.	2.067	X .875	440	30.0	70	2325	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)	$\sqrt{hwPm}$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	3.729	73.68	408.20	.991	1.174	1.046	334
2.	3.729	80.03	413.20	.991	1.174	1.046	363
3.	3.729	97.62	443.20	.991	1.174	1.050	445
4.	3.729	116.60	453.20	.991	1.174	1.051	532
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.61	530	1.35	.915
2.	.62	530	1.35	.914
3.	.67	530	1.35	.907
4.	.68	530	1.35	.905
5.	0.00	0	0.00	0.000

Gas Liquid Hydrocarbon Ratio	2.740 Mcf/bbl.	
A.P.I. Gravity of Liquid Hydrocarbons	47.000 Deg.	
Specific Gravity Separator Gas	.725	xxxxxxxxxxxx
Specific Gravity Flowing Fluid	xxxxx	1.640
Critical Pressure	665.7 PSIA	633.7 PSIA
Critical Temperature	391.5°R	693.4°R

Pc 2731.2 Pc^2 7459.5

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	6391.8	2529.3	6397.4	1062.1
2.	6151.4	2481.5	6157.8	1301.6
3.	5871.9	2425.2	5881.4	1578.1
4.	5467.2	2341.0	5480.2	1979.2
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2} = 3.7480$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 2.6689$

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 1419$ Mcfd

Absolute Open Flow	1419 Mcfd @ 15.025	Angle of Slope, θ 37	Slope, n .743

Remarks:

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