NEW MEXICO OIL CONSERVATION COMMISSION — Form C-122

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

clsr file

RECEIVED

JUL 22 '88

O. C. D.
ARTESIA, OFFICE

Type Test [x] Initial [ ] Annual [ ] Special						Test Date 4/9/88		
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company				
Pool Pecos Slope Abo				Formation Abo			Unit	
Completion Date 6/1/84		Total Depth 4070.0'		Plug Back TD 3979.0'		Elevation 4022.0'	Farm or Lease Name Estoril YZ Federal	
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4070.0'	Perforations: From 3582.0'	To 3860.0'		Well No. 1	
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3530.0'	Perforations: From 0.0'	To 0.0'		Unit I	Sec 34 Twp 4S Rge 24E
Type Well Single				Packer Set At 3530.0'			County Chaves	
Producing Thru Tubing		Resv. Temp. °F 107 @ 3721'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.	State New Mexico	

L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps
3530.0'	3530.0'	.655	.01	6.07	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	61	1006	0	0	0	0 hrs.
1.	2.067	X 1.000	95	20.5	61	596	62	0	0	24 hrs.
2.	2.067	X 1.000	85	26.1	61	506	62	0	0	24 hrs.
3.	2.067	X 1.000	85	30.7	61	457	62	0	0	24 hrs.
4.	2.067	X 1.000	80	36.0	61	380	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.	4.947	47.10	108.20	.999	1.236	1.008	290
2.	4.947	50.63	98.20	.999	1.236	1.007	311
3.	4.947	54.91	98.20	.999	1.236	1.007	338
4.	4.947	57.92	93.20	.999	1.236	1.006	356
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.16	521	1.46	.985
2.	.15	521	1.46	.987
3.	.15	521	1.46	.987
4.	.14	521	1.46	.988
5.	0.00	0	0.00	0.000

Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.
Specific Gravity Separator Gas .655 xxxxxxxxxxxx
Specific Gravity Flowing Fluid xxxxx .655
Critical Pressure 660.0 PSIA 660.0 PSIA
Critical Temperature 357.1°R 357.1°R

Pc 1019.2 Pc^2 1038.8

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	371.1	610.1	372.2	666.6
2.	269.6	520.4	270.8	768.0
3.	221.1	471.7	222.5	816.2
4.	154.6	395.3	156.2	882.5
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2} = 1.1801$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 1.1296$

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 402$ Mcfd

Absolute Open Flow 402 Mcfd @ 15.025 | Angle of Slope, θ 36 | Slope, n .736

Remarks:

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