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C/SF F/E

Form C-122

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

Type Test [x] Initial [ ] Annual [ ] Special						Test Date 7/2/89			
Company Yates Petroleum Corporation				Connection Gas Co of NM					
Pool Atoka				Formation Avalon				Unit	
Completion Date 9/28/84		Total Depth 11432.0'		Plug Back TD 10715.0'		Elevation 3140.0'		Farm or Lease Name South Avalon YI Com	
Csg Size 5.500"	Wt. 14.000#	d 5.012"	Set At 11432.0'	Perforations: From 10394.0' To 10404.0'				Well No. 1	
Tbg Size 2.875"	Wt. 6.500#	d 2.441"	Set At 10349.0'	Perforations: From 0.0' To 0.0'				Unit K	Sec 23 Twp 21S Rge 26E
Type Well Single				Packer Set At 10349.0'				County Eddy	
Producing Thru Tubing		Resv. Temp. °F 220 @ 10394'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico	
L 10349.0'	H 10349.0'	Gg .783	%CO2 .01	%N2 1.33	%H2S 0.00	Prover 0.000"	Meter Run 2.000"	Taps Flange	

	FLOW DATA				TUBING DATA		CASING DATA		
NO	Prover Size	Orifice X 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	99	3779	0	0	0	0 hrs.
1.	2.067	X .875	7	3.1	100	2714	62	0	0	24 hrs.
2.	2.067	X .875	7	4.9	101	2216	62	0	0	24 hrs.
3.	2.067	X .875	8	6.1	99	1447	62	0	0	24 hrs.
4.	2.067	X .875	8	8.0	102	1000	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	7.91	20.20	.964	1.130	1.001	32
2.	3.729	9.95	20.20	.963	1.130	1.001	40
3.	3.729	11.37	21.20	.964	1.130	1.002	46
4.	3.729	13.02	21.20	.962	1.130	1.001	53
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.03	560	1.36	.997
2.	.03	561	1.36	.997
3.	.03	559	1.35	.997
4.	.03	562	1.36	.997
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 .783 | xxxxxxxxxxxx
Specific Gravity Flowing Fluid xxxxx | .783
Critical Pressure 663.4 PSIA | 663.4 PSIA
Critical Temperature 412.7°R | 412.7°R

Pc 3792.2 Pc^2 14380.8

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	7437.6	2727.2	7437.6	6943.2
2.	4969.3	2229.2	4969.3	9411.5
3.	2132.2	1460.2	2132.2	

(1) $\frac{Pc^2}{Pc^2-Pw^2} = 1.0756$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 1.0569$

12248.6 4D.D

AOF = Q $\frac{Pc^2}{\quad}$ = 56 Mcfd

4. 1026.6 | 1013.2 | 1026.6

13354.2 4D.D

Pc^2-Pw^2

5. 0.0 | 0.0 | 0.0 | 0.0

Absolute Open Flow 56 Mcfd @ 15.025 | Angle of Slope, θ 37 | Slope, n .759

Remarks: