STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Sr file + file

Form C-122
Revised 10-1-78

RECEIVED
JUN 9 1982
O. C. D.
ARTESIA, OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 4-8-82	
Company: Yates Petroleum Corp.	Connection: Transwestern Pipeline Co.			
Pool: Eagle Creek-Strawn E. Eagle Creek-Atoka Morrow	Formation: Atoka-Morrow & Strawn			Unit
Completion Date: 3-8-82	Total Depth: 8560	Plug Back TD: 8530 KB	Elevation: 3424 KB	Farm or Lease Name: Menefee NT Com
Csg. Size: 4½ / Wt.: 11.6 / d: 4.000 / Set At: 8560		Perforations: From 7658 To 8300		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 7637		Perforations: From To		Unit: H / Sec.: 30 / Twp.: 17S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual Commingled		Packer Set At: 7637		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 140@ 8000'	Mean Annual Temp. °F: 62	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
7980	7980	0.697	0.23	0.98	Nil	--	2"	Flanged

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					2262	58			weeks
1.	2.067 x 0.625	230	3.3	64	250	68			19 hrs.
2.									
3									
4									
5									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	1.866	28.33	243.2	.9962	1.198	1.0273	65
2							
3							
4							
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.361	524	1.347	.9475
2				
3				
4				
5				

Gas Liquid Hydrocarbon Ratio ---- Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons ---- Deg.
Specific Gravity Separator Gas 0.697 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.697
Critical Pressure 674 P.S.I.A. 744 P.S.I.A.
Critical Temperature 379 R 415 R

P_c 3006.2 P_c^2 9037

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1			103	8934
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0115$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0115$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 66$

Absolute Open Flow 66 Mcfd @ 15.025 Angle of Slope θ 45 deg Slope, n 1.000

Remarks: Static pressures by Bennett Wireline, flowing pressure by DWT. Low volume well unable to unload treating fluid. C-122 D attached

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Bob Gary	Eddie Mahfood	