N[illegible] MEXICO OIL CONSERVATION COMM[illegible]ON

MULTIPOINT [illegible]ND ONE POINT BACK PRESSURE TE[illegible]. FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
DEC 27 19[illegible]
O. C. D.
ARTESIA, OFFICE

Type Test: XX Initial ☐ Annual ☐ Special			Test Date: 12-1-78	
Company: Yates Petroleum Corp.		Connection: Transwestern Pipeline Co.		
Pool: ~~Ramsey Draw~~ Wildcat Boyd.		Formation: Morrow		Unit: [illegible]
Completion Date: 9-20-78	Total Depth: 9251' KB	Plug Back TD: 9190' KB	Elevation: 3487' KB	Farm or Lease Name: Rio Penasco "JX" Com
Csg. Size: 4-1/2" / Wt.: 11.6# / d: 4.000 / Set At: 9224' KB		Perforations: From 9002 To 9026' KB		Well No.: 1
Tbg. Size: 2-3/8" / Wt.: 4.7# / d: 1.995 / Set At: 9000' KB		Perforations: From 8990 To 8993' KB		Unit: N / Sec.: 35 / Twp.: 18S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 8988' KB		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 147 @ 9008	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
9008	9008	0.595	0.68	0.45	Nil		4"	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					3022	59			24 hours
1.	4.026 x 1.625	230	15	66	2926	62			1 hour
2.		230	29	66	2880	64			1 hour
3.		231	48	66	2825	67			1 hour
4.		231	87	66	2735	69			1 hour
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	12.79	60.40	243.2	0.9943	1.300	1.020	1019
2	12.79	83.98	243.2	0.9943	1.300	1.020	1416
3	12.79	108.27	244.2	0.9943	1.300	1.020	1826
4	12.79	145.76	244.2	0.9943	1.300	1.020	2458
5							

NO.	P_t	Temp. °R	T_r	Z
1	.361	526	1.486	.9615
2	.361	526	1.486	.9615
3	.362	526	1.486	.9614
4	.362	526	1.486	.9614
5				

Gas Liquid Hydrocarbon Ratio 1012.6 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 59 Deg.

Specific Gravity Separator Gas	0.592	XXXXXXXXX
Specific Gravity Flowing Fluid	XXXXX	0.595
Critical Pressure	674 P.S.I.A.	674 P.S.I.A.
Critical Temperature	353 R	354 R

P_c 3750.2 P_c^2 14063

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			13238	825
2			12856	1207
3			12438	1625
4			11723	2340
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.0098$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.425$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 10875$

Absolute Open Flow 10875 Mcfd @ 15.025 | Angle of Slope θ 50.33 deg | Slope, n 0.8293

Remarks: Static pressures by Bennett Wireline; flowing pressures by DWT. Calculations worksheet C-122D attached. NOTE: Orifice plate was to small to achieve greater drawdown.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Don Weaver	Eddie Mahfood	