EW MEXICO OIL CONSERVATION CO' SSION
MULTIPOI AND ONE POINT BACK PRESSURE T T FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
MAY 13 1977
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3-17-77	
Company: Yates Petroleum Corp.			Connection: Transwestern Pipeline Co.		
Pool: Cemetary Tr. on CW			Formation: Morrow		Unit
Completion Date: 1-16-76	Total Depth: 9715'KB		Plug Back TD: 9596'KB	Elevation: 3556'KB	Farm or Lease Name: Federal "FC"
Csg. Size: 5½" / Wt.: 17# / d: 4.778	Set At: 9658'KB		Perforations: From 9547 To 9557'KB		Well No.: 1
Tbg. Size: 2-3/8" / Wt.: 4.7# / d: 1.995	Set At: 9545"KB		Perforations: From 9497 To 9499'KB		Unit: 0 Sec.: 19 Twp.: 20S Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 9490'KB		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 166@ 9552'	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
9540	9540	0.579	0.66	0.74	Nil		2"	Flange

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					2940	62			Months
1.	2.067 X 0.750	350	12	68	2801	68			1 hr.
2.		353	26	68	2707	69			1 hr.
3.		355	52	68	2575	66			1 hr.
4.		357	96	68	2395	62			1 hr.
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	2.709	65.93	362.2	0.9924	1.314	1.0268	239
2.		97.44	366.2	0.9924	1.314	1.0270	354
3.		138.37	368.2	0.9924	1.314	1.0273	502
4.		188.52	370.2	0.9924	1.314	1.0276	684
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.537	528	1.513	.9485
2.	0.541	528	1.513	.9480
3.	0.545	528	1.513	.9475
4.	0.548	528	1.513	.9470
5.				

Gas Liquid Hydrocarbon Ratio --- Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons --- Deg.
Specific Gravity Separator Gas 0.579 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 675 P.S.I.A. ____ P.S.I.A.
Critical Temperature 349 R ____ R

P_c 3645.3 P_c^2 13288

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			12093	1195
2			11333	1955
3			10330	2958
4			9012	4276
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.1076$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.601$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1779$

Absolute Open Flow 1779 Mcfd @ 15.025 Angle of Slope θ 49052' Slope, n .843

Remarks: Pressures by DWT. Calculations worksheet form C-122D attached.

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