NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT / ONE POINT BACK PRESSURE TES OR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

JUN 28 1976

O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 6-21-76	
Company: Yates Petroleum Corporation			Connection		
Pool: ~~Rhubarb Knob~~			Formation: Permo-Penn		Unit
Completion Date: 5-11-76	Total Depth: 8190'		Plug Back TD: 6772'	Elevation: 3605 KB	Farm or Lease Name: Gable "FV" Com
Csg. Size: 4½" / Wt.: 10.5 / d: / Set At: 6772			Perforations: From 6485 To 6663		Well No.: 1
Tbg. Size: 2-3/8" / Wt.: 4.7 / d: 1.995 / Set At: 6444			Perforations: From To		Unit: H / Sec.: 29 / Twp.: 17S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 6444		County: Eddy
Producing Thru: Tbg	Reservoir Temp. °F: 121	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6580	6580	0.662	1.93	0.79	Nil	2"		

	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		Adj. Ch				1846	82			1 month
1.	2"	20/64"				266	66			1½ hrs.
2.	2"	28/64"				167	67			1 hr
3.	2"	32/64"				130	67			1 hr
4.	2"	36/64"				95	67			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	1.645		279.2	.9943	1.229	1.052	590
2.	3.231		180.2	.9933	1.229	1.031	733
3.	4.194		143.2	.9933	1.229	1.024	750
4.	5.290		108.2	.9933	1.229	1.019	712
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.412	436	1.169	.903
2.	.266	437	1.172	.940
3.	.212	437	1.172	.953
4.	.160	437	1.172	.964
5.				

Gas Liquid Hydrocarbon Ratio 85.710 Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons 49.6 Deg.

Specific Gravity Separator Gas xxxxxxxxx

Specific Gravity Flowing Fluid xxxxx .662

Critical Pressure ____ P.S.I.A. 677 P.S.I.A.

Critical Temperature ____ R 373 R

P_c 2349.2 P_c^2 5519

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		523.2	274	5245
2		475.2	226	5293
3		446.2	199	5320
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0374$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0374$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 778 MCFPD

Absolute Open Flow 778 Mcfd @ 15.025 Angle of Slope θ 45 deg. Slope, n 1.00

Remarks: BHP by Bennett Wireline Service

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