N MEXICO OIL CONSERVATION COMM ON

MULTIPOINT AND ONE POINT BACK PRESSURE TES, FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
SEP 15 1978
O. C. C.
ARTESIA, OFFICE

Type Test: [XX] Initial [ ] Annual [ ] Special			Test Date: 4-21-78	
Company: Yates Petroleum Corp. ✓	Connection: Transwestern Pipeline Co.			Unit:
Pool: ~~Eddy Undesignated~~ Wildcat Chester	Formation: Chester			
Completion Date: 4-9-78	Total Depth: 9450' KB	Plug Back TD: 9416'	Elevation: 3563' KB	Farm or Lease Name: Ross "[redacted]" Federal "EG" Com.
Csg. Size: 4½" / Wt.: 11.6# / d: 4.000 / Set At: 9441' KB	Perforations: From 9374 To 9384' KB			Well No.: 1
Tbg. Size: 2-3/8" / Wt.: 4.7# / d: 1.995 / Set At: 9329' KB	Perforations: From To			Unit: K / Sec.: 20 / Twp.: 19S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 9329' KB			County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 156 @ 9370	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
9370	9370	0.577	0.95	0.28	Nil		2"	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					2424	66			
1.	2.067 x 0.625	300	10	66	2200	67			1 hour
2.		301	24	66	2046	67			1 hour
3.		303	41	66	1899	68			1 hour
4.		305	68	66	1685	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	1.866	55.96	313.2	0.9943	1.316	1.025	140
2.	1.866	86.84	314.2	0.9943	1.316	1.025	217
3.	1.866	113.86	316.2	0.9943	1.316	1.025	285
4.	1.866	147.10	318.2	0.9943	1.316	1.025	368
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.463	522	1.504	.9527
2.	0.465	522	1.504	.9525
3.	0.468	522	1.504	.9522
4.	0.471	522	1.504	.9519
5.				

Gas Liquid Hydrocarbon Ratio --- Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons --- Deg.
Specific Gravity Separator Gas 0.577 xxxxxxxxx
Specific Gravity Flowing Fluid xxxxx
Critical Pressure 676 P.S.I.A. ____ P.S.I.A.
Critical Temperature 347 R ____ R

P_c 3014 P_c^2 9084

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			7494	1590
2			6486	2598
3			5583	3501
4			4387	4697
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.934$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.7849$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 657$ mcfpd

Absolute Open Flow 657 Mcfd @ 15.025 Angle of Slope θ 48° 43" Slope, n 0.8784

Remarks: Static pressures by Bennett Wireline, flowing pressures by DWT. Calculation worksheet attached.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	David Weaver	Eddie M. Mahfood	