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NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

C-122 file Opr.

APR 13 1977

O. C. C. ARTESIA, OFFICE

C-5460

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 3-6-76	
Company: Yates Petroleum Corp.		Connection: Transwestern Pipeline Company		
Pool: Undesignated (Eagle Creek Strawn)		Formation: Strawn		Unit: NM 0219603
Completion Date: 10-18-75	Total Depth: 8180'KB	Plug Back TD: 7827'KB	Elevation: 3587'KB	Farm or Lease Name: Federal "BZ" Com
Csg. Size: 4½"	Wt.: 11.6#	d: 4.000	Set At: 7866'	Perforations: From 7639' To 7645'KB	Well No.: 12
Tbg. Size: 2-3/8"	Wt.: 4.7#	d: 1.995	Set At: 7571'	Perforations: From To	Unit: K Sec.: 21- Twp.: 17S- Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 7571'KB		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: @ 131	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
7628	7628		0.44	0.35	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					2226	51			Months
1.	2.067 X 0.753	300	12	66	2144	60			1 hr.
2.		300	24	66	2100	64			1 hr.
3.		301	41	66	2008	66			1 hr.
4.		302	62	66	1906	68			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	61.31	313.2	0.9943	1.264	1.0288	215
2.		86.70	313.2			1.0288	304
3.		113.50	314.2			1.0290	398
4.		139.79	315.2			1.0291	490
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.466	526	1.433	.9448
2.	.466	526	1.433	.9448
3.	.468	526	1.433	.9445
4.	.469	526	1.433	.9443
5.				

Gas Liquid Hydrocarbon Ratio 385.0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 52.6 Deg.
Specific Gravity Separator Gas .626 | xxxxxxxxx
Specific Gravity Flowing Fluid xxxxx | .634
Critical Pressure 672 P.S.I.A. | 672 P.S.I.A.
Critical Temperature 367 R | 368 R

P_c 2772.7 P_c^2 7688

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			7097	591
2			6792	896
3			6205	1483
4			5589	2099
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.6627$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.1797$

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1068 MCFPD

Absolute Open Flow 1068 Mcfd @ 15.025 | Angle of Slope θ 59° | Slope, n 0.6002

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

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Ronnie Willis	Eddie Mahfood	