NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT / ONE POINT BACK PRESSURE TES OR GAS WELL

File Yates Form C-122 Revised 9-1-65

RECEIVED
SEP 19 1979
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 7-16-79	
Company: Yates Petroleum Corp.			Connection: Transwestern Pipeline		Unit
Pool: Boyd Morrow			Formation: Morrow		
Completion Date: 1-19-79	Total Depth: 9093' KB		Plug Back TD: 9045' KB	Elevation: 3617' KB	Farm or Lease Name: Irish Hills "JE" State Com
Csg. Size: 4-1/2" / Wt.: 11.6# / d: 4.000 / Set At: 9093' KB			Perforations: From 8931 To 8942' KB		Well No.: 1
Tbg. Size: 2-3/8" / Wt.: 4.7# / d: 1.995 / Set At: 8900' KB			Perforations: From To		Unit: G / Sec.: 12 / Twp.: 19S / Rge.: 24E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 8900' KB		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 151 @ 8937	Mean Annual Temp. °F: 62	Baro. Press. – P_a: 13.2		State: New Mexico
L: 8930	H: 8930	Gg: .590	% CO_2: 0.67	% N_2: 0.47	% H_2S: Nil
Prover:	Meter Run: 2"	Taps: 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					2708	94			Days
1.	2.067 x 1.125	189	18	74	2569	95			1 hour
2.		189	34	74	2515	95			1 hour
3.		190	63	74	2441	96			1 hour
4.		190	93	75	2385	96			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	6.393	60.33	202.2	.9868	1.302	1.0159	503
2.	6.393	82.91	202.2	.9868	1.302	1.0159	692
3.	6.393	113.14	203.2	.9868	1.302	1.0159	944
4.	6.393	135.23	203.2	.9859	1.302	1.0159	1127
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	0.30	534	1.520	.969
2.	0.30	534	1.520	.969
3.	0.30	534	1.520	.969
4.	0.30	535	1.520	.969
5.				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: 0.590 (xxxxxxxxx)
Specific Gravity Flowing Fluid: xxxxx
Critical Pressure: 674 P.S.I.A. (P.S.I.A.)
Critical Temperature: 352 R (R)

P_c 3342.2 P_c^2 11177

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			10098	1079
2			9697	1480
3			9165	2012
4			8768	2409
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.6397$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.529$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5104$

Absolute Open Flow: 5104 Mcfd @ 15.025
Angle of Slope θ: 45.45 deg
Slope, n: .98426

Remarks: Static pressures by Bennett Wireline; Flowing pressures by DWT.
Calculations worksheet C-122D attached.

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