NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT [illegible] ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

MAY 18 1981

O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 3-24-81				
Company: Yates Petroleum Corporation						Connection: Transwestern Pipeline Co.				
Pool: Eagle Creek Permo Penn						Formation: Cisco				Unit:
Completion Date: 3-17-81		Total Depth: 8295 KB			Plug Back TD: 6480 KB		Elevation:			Farm or Lease Name: Jackson Estate BY
Csg. Size: 5½	Wt.: 15.5#	d: 4.950	Set At:		Perforations: From 6446	To 6456				Well No.: 9
Tbg. Size: 2 7/8"	Wt.: 6.5#	d: 2.441	Set At: 6406		Perforations: From	To				Unit: L Sec.: 22 Twp.: 17s Rge.: 25e
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: single						Packer Set At: 6406 KB				County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 122 @ 6450'		Mean Annual Temp. °F: 62			Baro. Press. – P_a: 13.2				State: New Mexico
L: 6443	H: 6443	Gg: 0.700	% CO_2: 0.06	% N_2: 0.96	% H_2S: N.7	Prover: ---	Meter Run: 2"	Taps: Flanged		

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											
1.	2.067	X	0.750	248	21	60	1856	56			Days
2.	2.067	X	0.750	242	40	60	1619	67			24 hrs.
3.	2.067	X	0.750	250	68	60	1466	70			24 hrs.
4.	2.067	X	0.750	233	96	60	1192	72			24 hrs.
5.							1023	73			24 hrs.

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	74.06	261.2	1.000	1.222	1.026	252
2	2.709	101.03	255.2	1.000	1.222	1.025	343
3	2.709	133.78	263.2	1.000	1.222	1.026	454
4	2.709	153.74	246.2	1.000	1.222	1.025	522
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.390	520	1.372	.9505
2.	0.381	520	1.372	.9523
3.	0.393	520	1.372	.9508
4.	0.368	520	1.372	.9519
5				

Gas Liquid Hydrocarbon Ratio: 90.58 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 63 Deg.
Specific Gravity Separator Gas: 0.670 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX 0.700
Critical Pressure: 669 P.S.I.A. 668 P.S.I.A.
Critical Temperature: 379 R 389 R

P_c 2326.2 P_c^2 5458

NO	P_t^2	P_w	R_w^2	$P_c^2 - R_w^2$
1			4087	1371
2			3323	2135
3			2159	3299
4			1574	3884
5				

(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.4053$

(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2}\right]^n = 1.2716$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2}\right]^n = 664$

Absolute Open Flow: 664 Mcfd @ 15.025

Angle of Slope θ: 54.77 deg. Slope, n: 0.7061

Remarks: Static pressures by Bennett Wireline, flowing pressures by DWT. Calculations worksheet C122D attached.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Hal Elless	Eddie Mahfood	