RECEIVED NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

APR 12 1977

O. C. C.
ARTESIA, OFFICE

SF
172 file
file
Opr.

Form C-122
Revised 9-1-65

E-5460

Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 3-5-77			
Company: Yates Petroleum Corp.				Connection: Transwestern Pipeline Company					
Pool: Eagle Creek Farmington Undesignated				Formation: Canyon				Unit	
Completion Date: 9-24-73		Total Depth: 8340'		Plug Back TD: 7872'		Elevation: 3625'KB		Farm or Lease Name: Federal "CR"	
Csg. Size: 7"	Wt.: 23 & 26	d	Set At: 8340	Perforations: From 6999		To 7174'KB		Well No.: 1	
Tbg. Size: 2-3/8"	Wt.: 4.7	d: 1.995	Set At: 7944	Perforations: From		To		Unit: M	Sec.: 29- Twp.: 17S- Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual - G. G.				Packer Set At: 7872'KB				County: Eddy	
Producing Thru: Csg.Annulus	Reservoir Temp. °F: 125		Mean Annual Temp. °F: 62		Baro. Press. – P_a: 13.2			State: New Mexico	
L: 7073	H: 7073	Gg	% CO_2: 0.24	% N_2: 1.46	% H_2S: Nil	Prover	Meter Run: 2"	Taps: 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										
1.	2.067	X 0.750	340	13	68			2122	59	Months
2.			341	24	68			1873	65	1 hr.
3.			342	46	68			1774	66	1 hr.
4.			342	62	68			1649	67	1 hr.
5.								1575	68	1 hr.

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	67.76	353.2	.9924	1.249	1.0336	235
2.		92.20	354.2				320
3.		127.82	355.2				444
4.		148.40	355.2				515
5.							

NO.	P_t	Temp. °R	T_r	Z
1	.528	528	1.427	.936
2.	.529	528	1.427	.936
3.	.531	528	1.427	.936
4.	.531	528	1.427	.936
5.				

Gas Liquid Hydrocarbon Ratio: 1709 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 62 Deg.
Specific Gravity Separator Gas: 0.641 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX 0.642
Critical Pressure: 669 P.S.I.A. 670 P.S.I.A.
Critical Temperature: 370 R 368 R

P_c 2607.9 P_c^2 6801

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			5284	1517
2			4735	2066
3			4083	2718
4			3718	3083
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.206$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.206$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1136 MCFPD

Absolute Open Flow: 1136 Mcfd @ 15.025 Angle of Slope θ: 45° Slope, n: 1.000

Remarks: Pressures by dead weight tester. Calculations worksheet C-122D attached.

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