NEW XICO OIL CONSERVATION COMMSSIC

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C-122

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

FEB 11 1976

O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 2-3-76	
Company: Yates Petroleum Corporation		Connection: None			
Pool: Undesignated		Formation: Morrow		Unit	
Completion Date: 2-3-76	Total Depth: 9485	Plug Back TD: 9420	Elevation: 3598'KB	Farm or Lease Name: Foster FF Com	
Csg. Size: 4 1/2 / Wt.: 11.6 / d: 4.000 / Set At: 9434		Perforations: From 9180 To 9186		Well No.: 1	
Tbg. Size: 2 3/8 / Wt.: 4.70 / d: 1.995 / Set At: 9180		Perforations: - From To		Unit: J / Sec.: 1 / Twp.: 20s / Rge.: 24e	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 9123		County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 164 @ 9150	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9183'	-	0.608	0.954	0.315	0.000	-	x	F

	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. DWT	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						2890		Packer		120.0
1.	3 7/64	2.00	300	4	85	2700	68			1.0
2.	3 14/64	2.00	300	20	85	2390	70			1.0
3.	3 18/64	2.00	310	48	88	2190	70			1.0
4.	3 24/64	2.00	380	77	86	1845	70			1.0
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	21.32	35.39	313.2	0.9768	1.282	1.022	965.6
2.	21.32	79.14	313.2	0.9768	1.282	1.022	2159.4
3.	21.32	124.55	323.2	0.9741	1.282	1.022	3389.0
4.	21.32	174.00	393.2	0.9759	1.282	1.028	4771.1
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.46	545	1.54	0.957
2.	0.46	545	1.54	0.957
3.	0.48	548	1.55	0.957
4.	0.58	546	1.54	0.946
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: - Deg.
Specific Gravity Separator Gas: 0.608 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 674 P.S.I.A. P.S.I.A.
Critical Temperature: 354 R R

P_c 3196.2 P_c^2 12223.4

NO	P_t^2	P_w*	P_w^2	$P_c^2 - P_w^2$
1		3339.2	11150.3	1073.1
2		3125.2	9766.9	2456.5
3		2881.2	8301.3	3922.1
4		2559.2	6549.5	5673.9
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 11.391$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 10.45$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 10091$

Absolute Open Flow: 10091 Mcfd @ 15.025 Angle of Slope θ: 46°1' Slope, n: 0.965

Remarks: * BHP @ (-5585) 9183' used for pressure calculations

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Coleman Petr. Engr. Co.	Joe A. Coleman	Joe A. Coleman