N MEXICO OIL CONSERVATION COMM ON

MULTIPOINT D ONE POINT BACK PRESSURE TE FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

DEC 23 1974

O. C. C.
ARTESIA, OFFICE

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 12-13-74	
Company: MOBIL OIL CORPORATION		Connection: EL-PASO			
Pool: UNDESIGNATED		Formation: MORROW		Unit	
Completion Date: 7-15-74	Total Depth: 15585	Plug Back TD: 13717	Elevation: 3101 G.L.	Farm or Lease Name: CORRAL DRAW UNIT	
Csg. Size: 7" / Wt.: 31.81 #/ft / d: 6.094 / Set At: 14414		Perforations: From 13621 To 13702		Well No.: 1	
Tbg. Size: 2 7/8 / Wt.: N-80 / d: 2.441 / Set At: 13520		Perforations: From To		Unit: K, Sec.: 14, Twp.: 25-S, Rge.: 29-E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 13520		County: EDDY	
Producing Thru: TUBING	Reservoir Temp. °F: 200 @	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
13570	13660	0570	0.7	1.2	—	—	4	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					5135		1500	—	48 HRS.
1.	4 X 2.750	7.15	3.2	75	4670	60	1500	—	24 HRS
2.	4 X 2.750	7.15	5.1	70	4095	60	1500	—	24 HRS
3.	4 X 2.750	7.15	6.8	60	3337	60	1500	—	24 HRS
4.	4 X 2.750	7.20	8.5	72	2412	60	1500	—	24 HRS
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	129.96	22.22	511.22	0.9853	1.3245	1.0342	4014
2	129.96	36.46	511.22	0.9905	1.3245	1.0355	6439
3	129.96	43.61	511.22	1.0000	1.3245	1.0342	7690
4	129.96	61.55	518.40	0.9886	1.3245	1.0355	10850
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.75	535	1.56	0.934
2	0.75	530	1.54	0.932
3	0.75	520	1.52	0.927
4	0.76	532	1.55	0.932
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.

Specific Gravity Separator Gas 0.570 XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX 0.570

Critical Pressure 675 P.S.I.A. 675 P.S.I.A.

Critical Temperature 342 R 342 R

P_c 5148.2 P_c^2 26504

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	21932	4711	22190	4314
2	16877	4184	17504	9000
3	11223	3503	12270	14234
4	5382	2712	7356	19148
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.384$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.249$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 13694$

Absolute Open Flow 13694 Mcfd @ 15.025 Angle of Slope θ 55.620 Slope, n 0.684

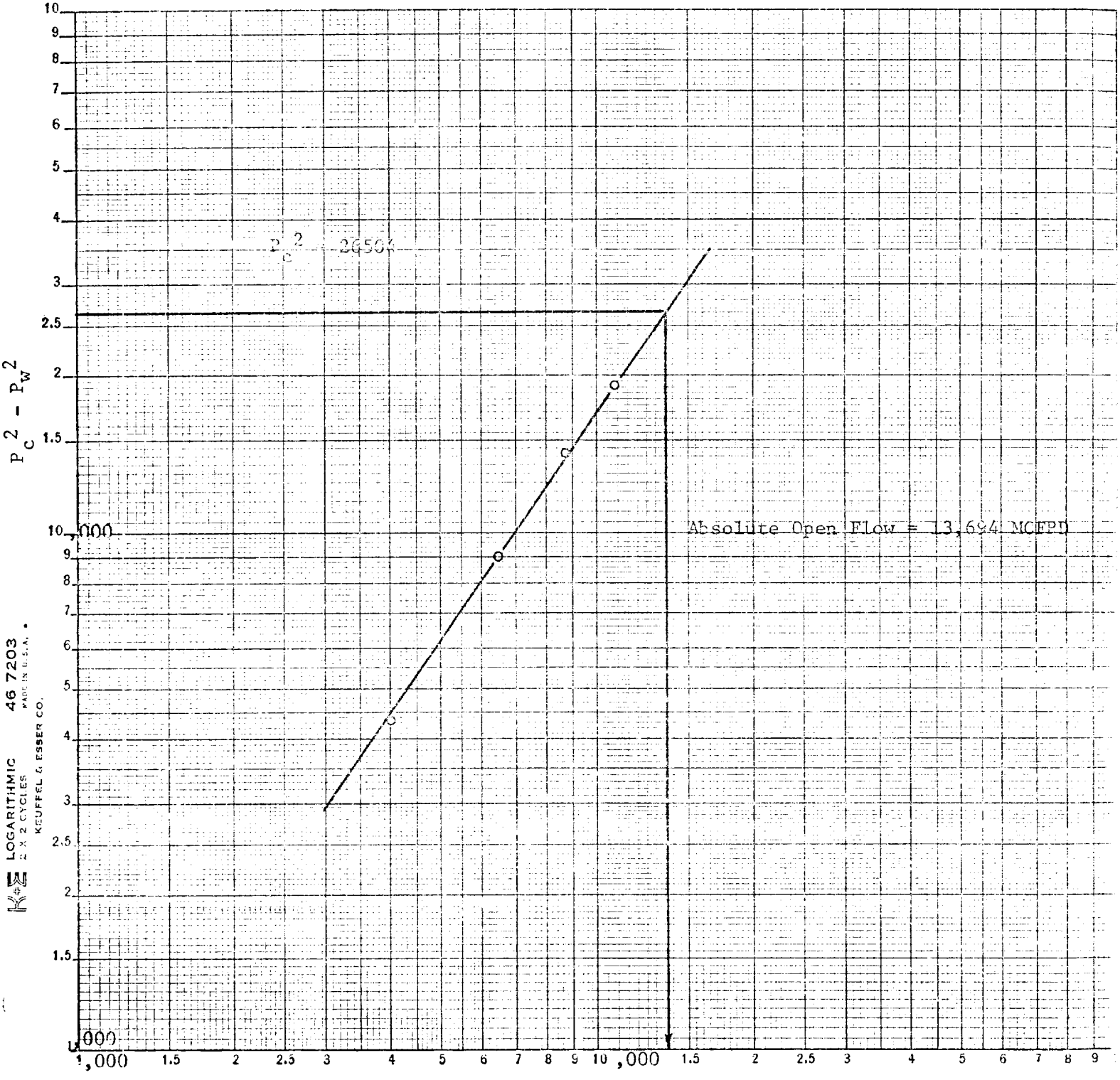
Remarks: * 1000# x 100" L-10 METER

The 4 flow Rate plotted on the back pressure curve include the gas measured by a PD meter for gas fuel to Marion Rig #2 [1st 41 MCF, 2nd 41 MCF, 3rd 121 MCF, 4th 113 MCF]

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	A.R. ALAMEDDINE		A.R. ALAMEDDINE

GAS WELL
BACK PRESSURE CURVE

MOBIL OIL CORPORATION
CORRAL AW UNIT, WELL #1
K, S-14, T25S, R29E
EDDY COUNTY, NEW MEXICO



Q = MCFPD

n = .684

θ = 55.62