MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised

[x] Initial [ ] Annual [ ] Special

Company: [illegible] Production Company | Connection: El Paso Natural Gas Comp.
Pool: Undesignated | Formation: Glorieta

Completion Date: [illegible]-10-73 | Total Depth: [illegible] | Plug Back TD: 5250 | Elevation: [illegible]

Farm or Lease Name: State C Tract 11
Well No.: 7

Csg. Size	Wt.	d	Set At	Perforations	
4	10.5	3.476	5257	From 5219	To 52[illegible]

Tbg. Size	Wt.	d	Set At	Perforations	
2.375	4.7	1.995	5215	From 0	To 0

Unit: [illegible] | Sec.: 2 | Twp.: 21S | Rge.: 36E

Type Well: Single | Packer Set At: 5014 | County: Lea

Producing Thru: Tubing | Reservoir Temp. °F: 115 @ 5225 | Mean Annual Temp. °F: 60 | Baro. Press.: 13.2 | State: New Mexico

L	H	G_g	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
5225	5225	0.726	0.53	9.69	0	0	4.0	Flange

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							1639	43			25.0
1.	4.03	x	3.000	92	2.5	19	1409	52	0	0	1.0
2.	4.03	x	3.000	95	12.0	12	1240	55	0	0	1.0
3.	4.03	x	3.000	100	22.0	13	1030	55	0	0	1.0
4.	4.03	x	3.000	116	24.0	20	861	56	0	0	1.0
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1.	51.64	16.22	105.2	1.0419	1.1736	1.0138	1038
2.	51.64	36.03	108.2	1.0496	1.1736	1.0148	2326
3.	51.64	49.90	113.2	1.0486	1.1736	1.0154	3220
4.	51.64	55.68	129.2	1.0408	1.1736	1.0169	3572
5.							

NO.	P_r	Temp. °R	T_r	Z
1	0.16	479	1.29	0.973
2	0.17	472	1.27	0.971
3.	0.17	473	1.28	0.970
4	0.20	480	1.30	0.967
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.
Specific Gravity Separator Gas 0.726 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.726
Critical Pressure 652 P.S.I.A. 652 P.S.I.A.
Critical Temperature 371 R 371 R

P_c 1664.1 P_c^2 2769

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	2287	1523	2320	450
2	1671	1291	1667	1103
3	1028	1127	1270	1499
4	764	997	993	1776
5				

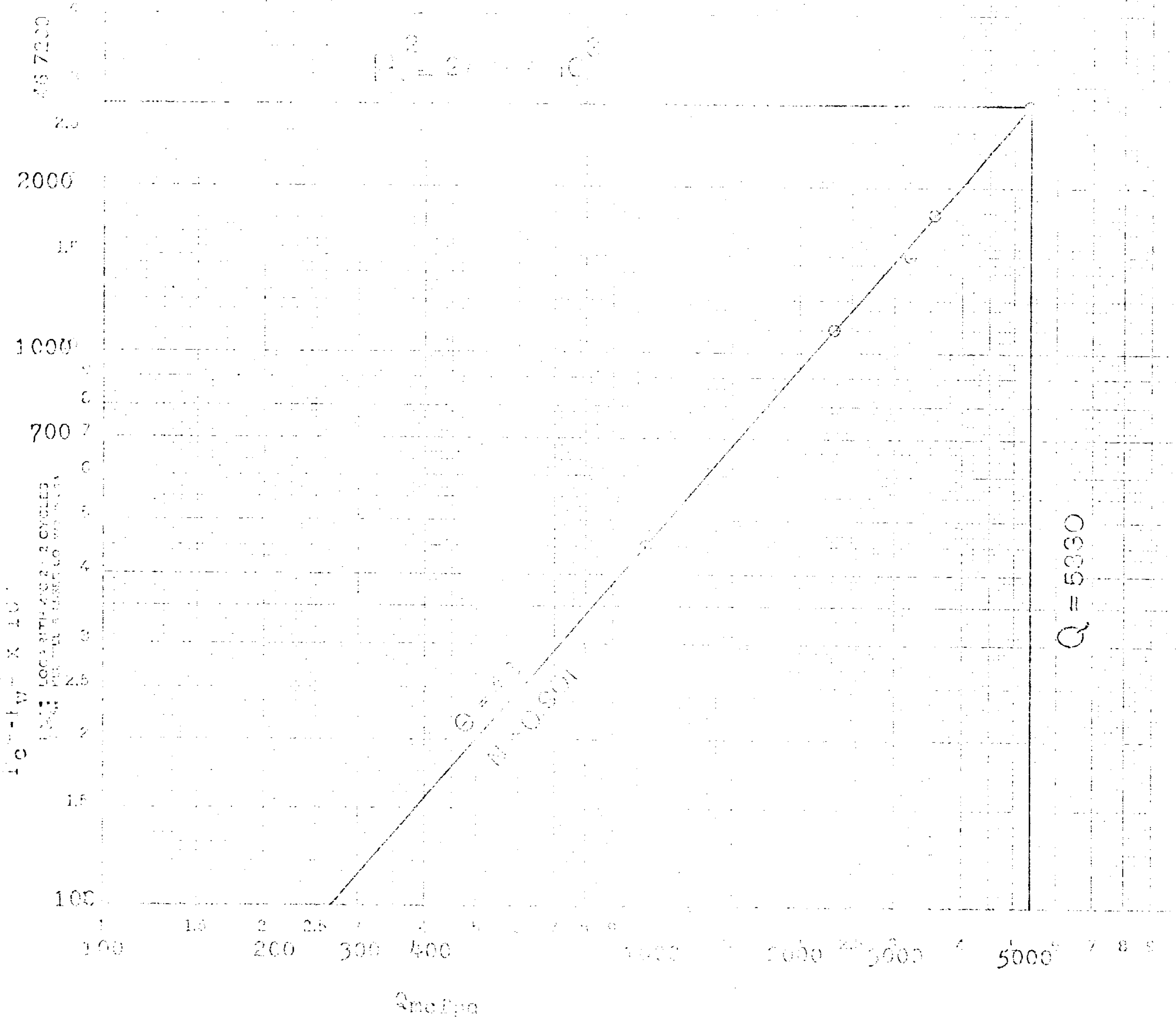
(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 1.4691 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.4920

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 5330

Absolute Open Flow 5330 Mcfd @ 15.025 | Angle of Slope θ 48 | Slope, n 0.901

Remarks:

Approved By Commission: | Conducted By: John West Engineering Co. | Calculated By: | Checked By: BPR


2000
1000
700
100
100
200
300
400
5000
Q = 5330