NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 9-1-65

MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 6-28-73	
Company: AMINI OIL COMPANY		Connection: Southern Union Gas company		
Pool: Salt Lake South		Formation: Morrow		Unit
Completion Date: 6-16-73	Total Depth: 14406	Plug Back TD: 14348	Elevation: 3740'KB	Farm or Lease Name: Pubco Federal
Csg. Size: 5 1/2 / Wt.: 17 & 20 / d / Set At: 14406		Perforations: From 13968 To 13980		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.50 / d / Set At: 13550		Perforations: From 14018 To 14026		Unit: L Sec.: 2 Twp.: 21-S Rge.: 32-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 13550		County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 269 @ 13997	Mean Annual Temp. °F	Baro. Press. – P_a: 13.2	State: New Mexico
L: 13997	H: 13997	Gg: .625	% CO_2	% N_2	% H_2S	Prover	Meter Run: 4.026	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	4.026	1.500	810	29.5	96	3240	90	Packer		1
1.			820	43.0	104	2795	90			1
2.			815	54.0	106	2382	90			1
3.			820	64.5	108	2109	90			1
4.										
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	10.84	155.8	823.2	.9671	1.265	1.061	2192
2	10.84	189.3	833.2	.9602	1.265	1.061	2645
3	10.84	211.5	828.2	.9585	1.265	1.061	2949
4	10.84	231.8	833.2	.9568	1.265	1.061	3227
5							

NO.	P_t	Temp. °R	T_t	Z
1				
2				
3				
4				
5				

Gas Liquid Hydrocarbon Ratio 52.6 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 49.4 Deg.
Specific Gravity Separator Gas .625 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .673
Critical Pressure ____ P.S.I.A. ____ P.S.I.A.
Critical Temperature ____ R ____ R

P_c 6916.2 P_c^2 47834

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4749.2	22555	25279
2		4184.2	17508	30326
3		3638.2	13236	34598
4		3259.2	10622	37212
5				

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

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

Absolute Open Flow 4,200 Mcfd @ 15.025 Angle of Slope θ 45.0 Slope, n 1.000

Remarks: P_c & P_w were measured at the perforations with an Amerada Bottom Hole Pressure Gauge, 7700# Range, Ser. No. 25439.

Approved By Commission: Conducted By: CLEMENTSON ENGINEERING COMPANY, San Antonio, Texas 78209 Calculated By: Checked By:

By: Rex C. Clementson

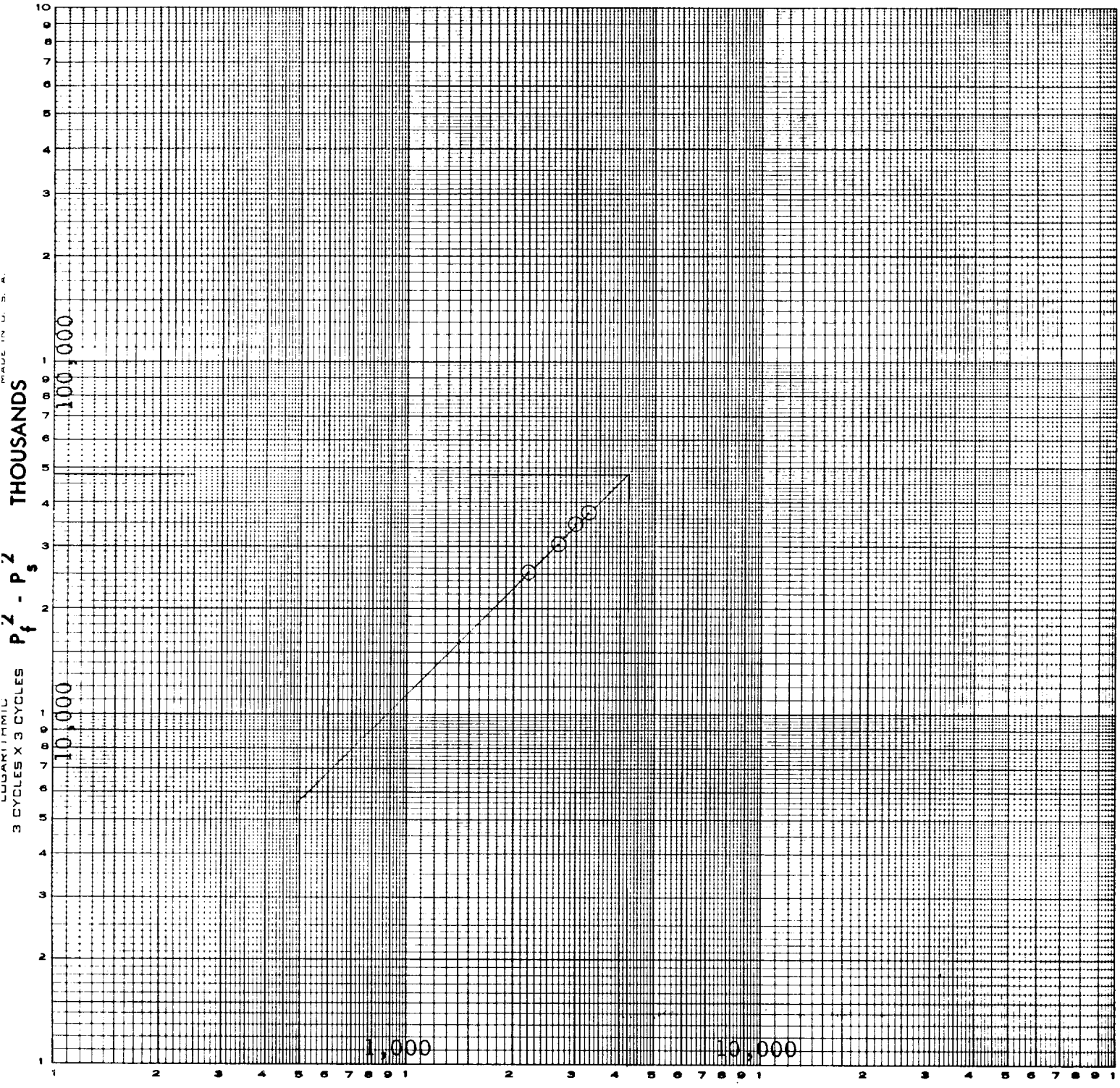
COUNTY Lea FIELD South Salt Lake

OPERATOR AMINI OIL COMPANY

LEASE Pubco Federal WELL NO. 1

DATE OF TEST 6-28-73 OPEN FLOW 4,200 MCF-DAY

θ = 45.0 n = 1.000



FLOW RATE, MCF-DAY

GAS WELL BACK PRESSURE TEST CURVE

CLEMENTSON ENGINEERING COMPANY