STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test			Test Date	
[X] Initial	[ ] Annual	[ ] Special	6/8/83	

Company	Connection		
The Superior Oil Company	None		
Pool	**Formation**		**Unit**
Undesignated	Atoka		

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
5/28/83	15,850'	14166'	3409'GL	Paduca Federal Comm

Csg. Size	Wt.	d	Set At	Perforations	Well No.
7 5/8	39.0	6.50	15,850'	From 14135' To 14145'	1
Tbg. Size	**Wt.**	**d**	**Set At**	**Perforations:**	**Unit / Sec. / Twp. / Rge.**
2 7/8	6.5	2.441	14,002'	From 14,135 - To 14,145	H 22 25s 32e

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
Single	14,002'	Lea

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
Tubing	210 @ 13995'	60	13.2	New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
14,002	-	0.5867	0.530	0.700	-	-	2.900	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 BWT	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						6130	60	1100	60	28.0 hrs
1.	2.90	16/64 2.250	700	12	100	1670	60	1200	-	2.0 hrs
2.	2.90	13/64 1.500	700	43	108	1848	60	1400	-	2.0 hrs
3.	2.90	10/64 1.250	700	57	100	2360	60	1475	-	1.5 hrs
4.	2.90	7 64 1.250	700	25	100	3199	60	1500	-	1.75 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	28.780	92.51	713.2	0.9636	1.306	1.041	3487.95
2.	11.230	175.12	713.2	0.9568	1.306	1.039	2553.26
3	7.615	201.62	713.2	0.9636	1.306	1.041	2011.38
4	7.615	133.53	713.2	0.9636	1.306	1.041	1332.11
5							

NO.	P_t	Temp. °R	T_t	Z
1	1.06	560	1.62	0.923
2.	1.06	568	1.64	0.927
3.	1.06	560	1.62	0.923
4	1.06	560	1.62	0.923
5				

Gas Liquid Hydrocarbon Ratio	Dry Gas Mcf/bbl.	
A.P.I. Gravity of Liquid Hydrocarbons	- Deg.	
Specific Gravity Separator Gas	0.5867	XXXXXXXXX
Specific Gravity Flowing Fluid	XXXXX	
Critical Pressure	675 P.S.I.A.	- P.S.I.A.
Critical Temperature	346 R	- R

P_c 7785.2 P_c^2 60609.3

NO	P_t^2	P_w *	P_w^2	$P_c^2 - P_w^2$
1		2482.2	6161.3	54448.0
2		2710.2	7345.2	53264.1
3		3399.2	11554.6	49054.7
4		4509.2	20332.9	40276.4
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.11$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.11$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3871.6$

Absolute Open Flow 3872 Mcfd @ 15.025 | Angle of Slope @ 45° 0' | Slope, n 1.000

Remarks: * BOTTOM HOLE PRESSURE @ (-10731)14140' USED FOR PRESSURE CALCULATIONS
POINT ALIGNMENT TOO FLAT. A SLOPE OF 45° DRAWN THROUGH HIGH RATE OF FLOW

Approved By Division	Conducted By:	Calculated By:	Checked By:
	JARREL WELL TESTING INC.	Joe A. Coleman	PE# 2208 Joe A. Coleman

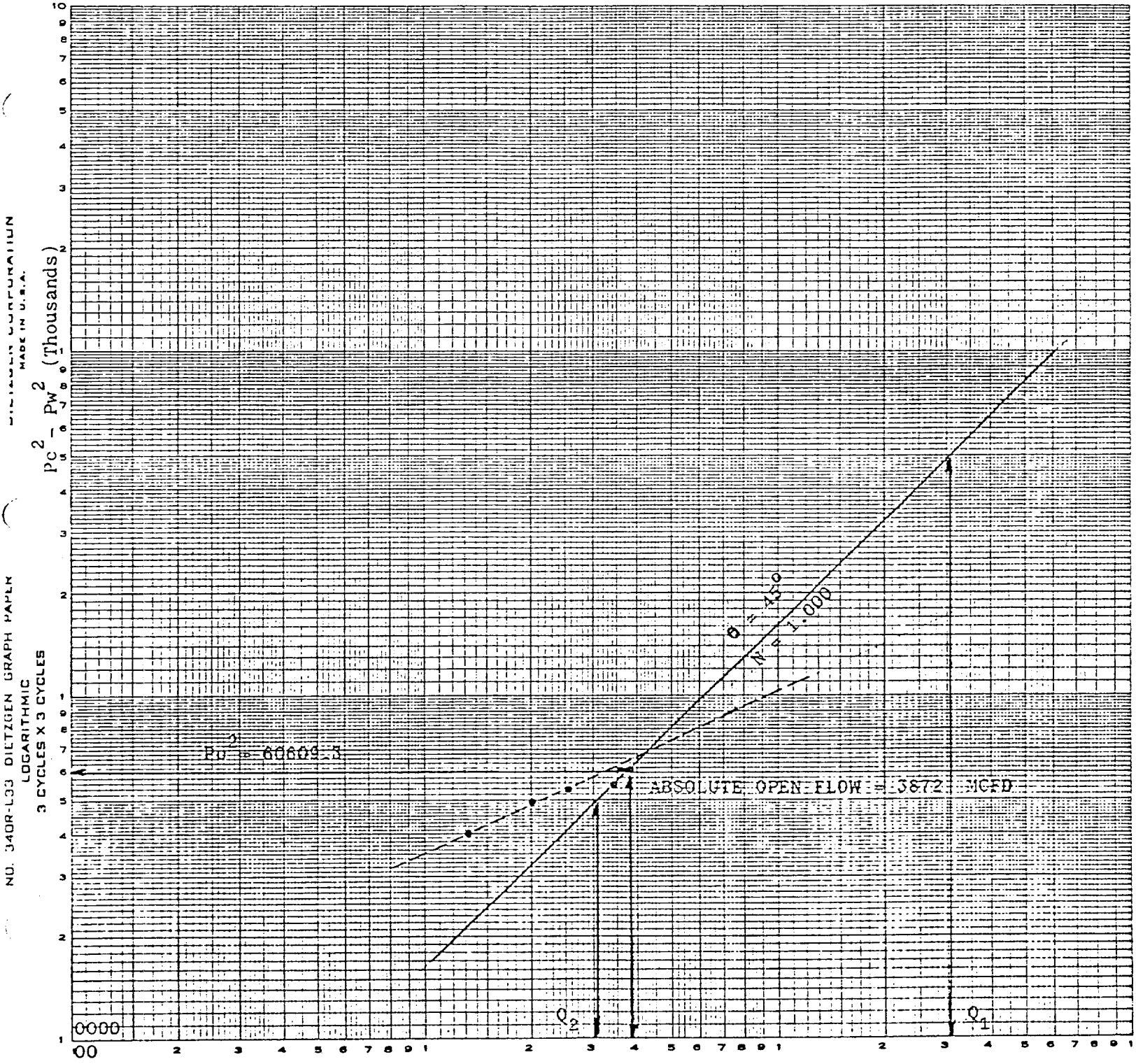
COMPANY: The Superior [illegible] Company

WELL: Paduca Federal Comm, No. 1

LOCATION: H 22 - 25s - 32e

COUNTY: Lea

DATE: June 8, 1983



Q_1 = 30500 MCFD; Log Q_1 = 4.48430

Q_2 = 3050 MCFD: Log Q_2 = 3.48430

$N = \overline{1.00000} = 1.000$