

RECEIVED BY
NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

NOV 14 1985

O. C. D.

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-21-85	
Company ✓ MAX WILSON, INC.		Connection TO AIR	
Pool WILDCAT - Delaware		Formation DELEWARE SAND	
Completion Date 10-14-85		Total Depth 3600'	Plug Back 2040
Elevation 3310		Farm or Lease Name MONSANTO FEDERAL	
Prod. Size 4.5000	Wt. 10.50	Set At 2652	Perforations: From 1883 To 1888
Thq. Size 2.375	Wt. 4.7	Set At 1818	Perforations: From 0 To 0
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE		Packer Set At NONE	County EDDY
Producing Thru TUBING	Reservoir Temp. °F 110 @ 1885	Mean Annual Temp. °F 60°	State NEW MEXICO
L 1885	H 1885	Gg 0.676	% CO ₂ 0.56
		% N ₂ 5.64	% H ₂ S 0
		Prover 0	Motor Run 3.1
			Taps FLANGE

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
SI							955		953	72	0
1.	3.07 X 0.750			140	3.5	62	780		780	72	1.0
2.	3.07 X 0.750			140	5.4	75	708		708	72	1.0
3.	3.07 X 0.750			145	11.0	84	620		642	72	1.0
4.	3.07 X 0.750			147	20.0	82	524		553	72	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	2.67	23.16	153.2	0.9981	1.2163	1.0145	76
2	2.67	28.76	153.2	0.9859	1.2163	1.0135	93
3	2.67	41.72	158.2	0.9777	1.2163	1.0130	134
4	2.67	56.60	160.2	0.9795	1.2163	1.0133	183
5							

NO.	R ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.23	522	1.43	0.972	0	
2	0.23	535	1.46	0.974	A.P.I. Gravity of Liquid Hydrocarbons 0	
3	0.24	544	1.49	0.975	Specific Gravity Separator Gas 0.676	XXXXXXXXXX
4	0.24	542	1.48	0.974	Specific Gravity Flowing Fluid XXXXX	0.676
5					Critical Pressure 661 P.S.I.A.	661 P.S.I.A.
					Critical Temperature 366 °R	366 °R

NO.	P ₁ ²	P _w ²	P _w ²	P _c ² - P _w ²
1		793	628	304
2		721	519	413
3		655	429	503
4		566	320	612
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = .8529$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.8529$

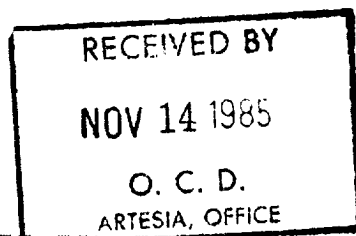
AOI = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 248$

Post FD-2
12-6-85
comp & BH

Absolute Open Flow	248	Mcf/d @ 15.025	Angle of Slope °	45.0	Slope, n	1.000
Remarks:						
Approved By Commission						
Conducted By		BENNETT & CATHEY		Calculated By		RICHARD TOWNELY
Checked By						

UNIT : N
 LEASE : MONSANTO FED
 WELL : 1
 S/T/R : 22 25S 26E
 COUNTY: EDDY
 STATE : NEW MEXICO

TYPE TEST: 4 POINT
 : INITIAL
 TEST DATE: 10/21/85



NEW MEXICO OIL CONSERVATION COMMISSION
 MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

COMPANY: MAX WILSON INC
 FIELD: WILDCAT POOL:
 COMPLETED 10 14 85 TD = 3600.
 CSG SIZE = 4.5000 WT = 10.50
 TBG SIZE = 2.3750 WT = 4.70
 TYPE COMPLETION: SINGLE
 PRODUCING THROUGH: TUBING
 RESERVOIR TEMP., F = 110. @ 1885. FT.
 CONNECTION: TO AIR
 RESERVOIR: DELEWARE SAND
 PBD = 2040. ELEV = 3310.
 SET AT 2652. PERF: 1883.- 1888.
 SET AT 1818. PERF: 0.- 0.
 PACKER SET AT: 0.
 BARO.PRESS = 13.20 PSIA
 MEAN GROUND TEMP., F = 60.

L	H	G	% CO2	% N2	% H2S	PROVER	M-RUN	TAPS
1885.	1885.	0.676	0.56	5.64	0.	0.	3.1	FLANGE

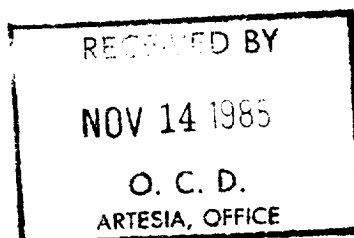
NO.	LINE SIZE	ORI. SIZE	FLOW PSIG	HW IN.	FLOW TEMP	TBG. PSIG	TBG. TEMP	CSG. PSIG	CSG. TEMP	FLOW HRS.
SI										
1	3.07 X	0.750	140.	3.5	62.	0.	0.	780.	72.	1.0
2	3.07 X	0.750	140.	5.4	75.	0.	0.	708.	72.	1.0
3	3.07 X	0.750	145.	11.0	84.	0.	0.	642.	72.	1.0
4	3.07 X	0.750	147.	20.0	82.	0.	0.	553.	72.	1.0

NO.	COEFFICIENT (24 - HOUR)	SQRT. (HWPM)	PRESS. PM	T-FACTR F (T)	G-FACTR F (G)	SC-FACTR F (PV)	FLOW MCFD
1	2.67	23.16	153.2	0.9981	1.2163	1.0145	76.
2	2.67	28.76	153.2	0.9859	1.2163	1.0135	93.
3	2.67	41.72	158.2	0.9777	1.2163	1.0130	134.
4	2.67	56.60	160.2	0.9795	1.2163	1.0133	183.

NO.	P (R)	TEMP. R	T (R)	Z		
1	0.23	522.	1.43	0.972	GAS LIQ RATIO, MCF/BBL	0.
2	0.23	535.	1.46	0.974	API G OF HYDROCARBONS	0.
3	0.24	544.	1.49	0.975	SP G SEPARATOR GAS	0.676 XXXXX
4	0.24	542.	1.48	0.974	SP G FLOWING FLUID	XXXXX 0.676
					CRITICAL PRES., PSIA	661. 661.
					CRITICAL TEMP., R	366. 366.

NO.	PW	PW*PW	PC*PC-PW*PW		
1	793.	628.	304.	PC =	965.4
2	721.	519.	413.	PC*PC =	932.
3	655.	429.	503.	PC*PC/(PC*PC-PW*PW) =	1.8529
4	566.	320.	612.	(PC*PC/(PC*PC-PW*PW))*N =	1.8529
				ADF (MCF/DAY) =	248.

UNIT : N
LEASE : MONSANTO FED
WELL : 1
S/T/R : 22 25S 26E
COUNTY: EDDY
STATE : NEW MEXICO



PE TEST: 4 POINT
: INITIAL
TEST DATE: 10/21/85

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

PAGE 2

CALC WH OPEN FLOW= 248. MCFD @ 15.025, SLOPE ANGLE= 45.0, N= 1.000

APPROVED BY
COMMISSION: CONDUCTED BY: CALCULATED BY: CHECKED BY:

I, _____, BEING FIRST DULY SWORN ON OATH, STATE THAT
I AM FAMILIAR WITH FACTS AND FIGURES SET FORTH IN THIS REPORT,
AND THAT THE REPORT IS TRUE AND CORRECT.

SIGNATURE AND TITLE OF AFFIANT

COMPANY

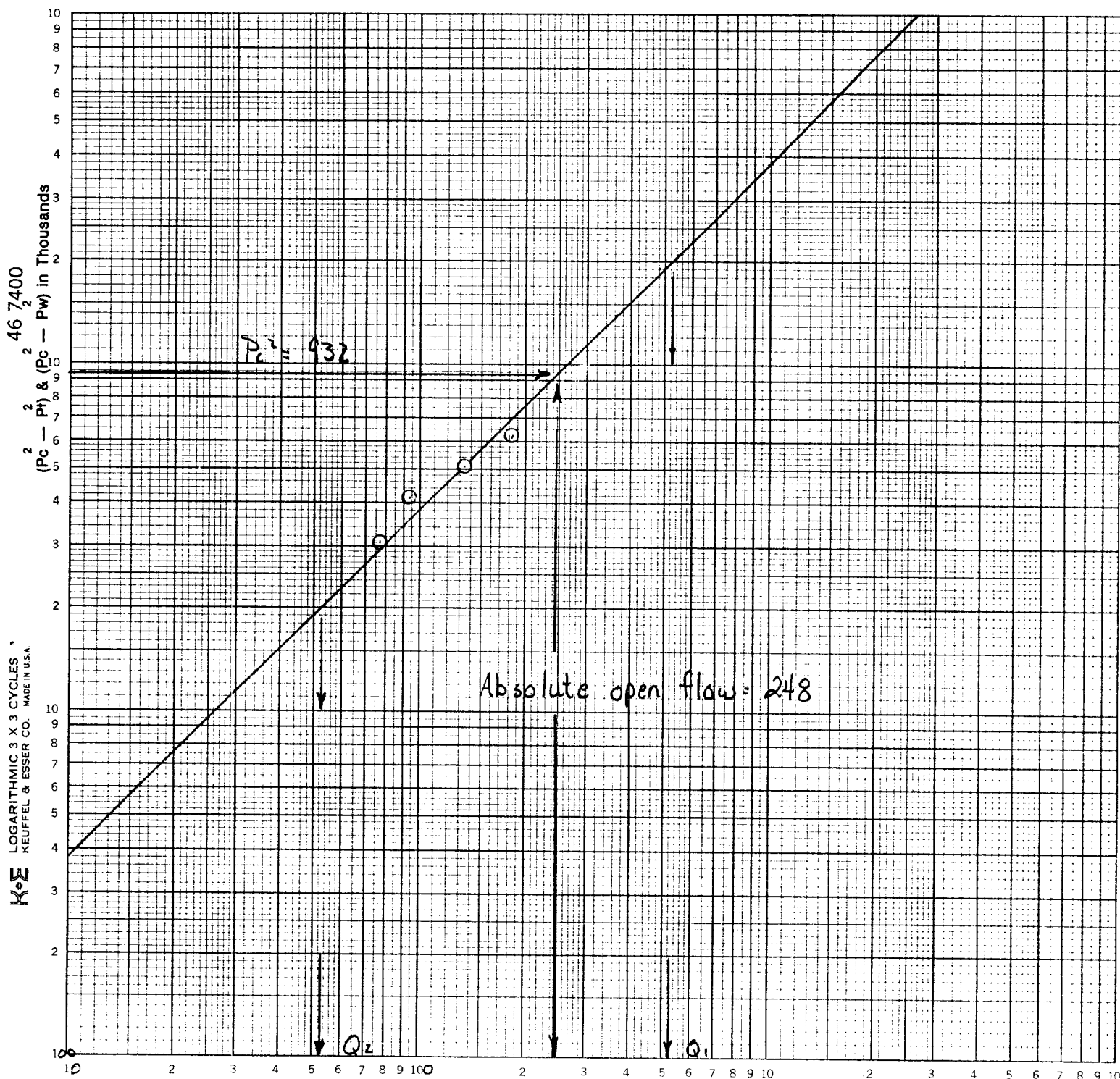
SUBSCRIBED AND SWORN TO BEFORE ME THIS _____ DAY OF _____, 19____

MY COMMISSION EXPIRES

NOTARY PUBLIC

BENNETT & CATHEY PRODUCTION TESTING BACK PRESSURE CUR

Operator Max Wilson, Inc. RECEIVED BY Monson Fed Well No. 1
 County Eddy Field NOV 14 1985 Location 22 255 26E
 Date of Test 10-21-85 Slope "n" 1.000 Angle of Slope 45
 ARTESIA, OFFICE Calc. Abs. Potential 248 MCF/D



$$\frac{\Delta P_1^2}{\Delta P_2^2} \frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} = \frac{2000}{200}$$

$$\frac{\Delta P_1^2}{\Delta P_2^2} \frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} = \frac{2000}{200}$$

$$Q_1 = 525$$

$$Q_2 = 52.5$$

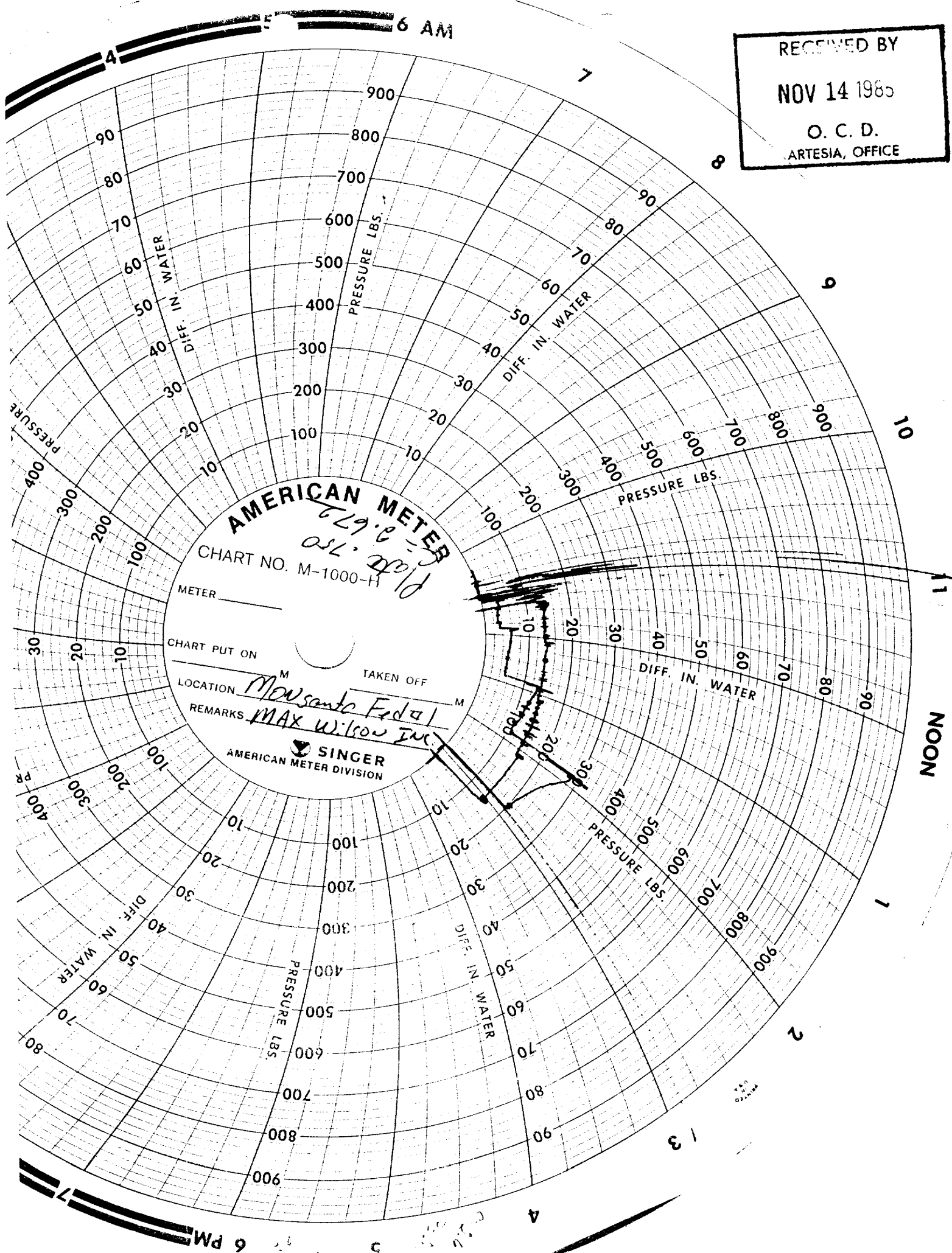
Q in MCF/Day

$$\text{LOG } Q_1 = 2.7202$$

$$\text{LOG } Q_2 = 1.7202$$

$$n = 1.000$$

RECEIVED BY
NOV 14 1965
O. C. D.
ARTESIA, OFFICE



AMERICAN METER
CHART NO. M-1000-H
Plate 2.70
2.672

METER _____
CHART PUT ON _____
TAKEN OFF _____
LOCATION Monsanto Fedal
REMARKS MAX Wilson Inc

SINGER
AMERICAN METER DIVISION