

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

Form C-122
Revised 9-1-55

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5/27/71	
Company Mobil Oil Corp.		Connection None	
Pest Vacuum		Formation Torrow Gas	
Completion Date 5/22/71		Total Depth 11,802'	
Plug Back TD 11,745'		Elevation 4044 KB	
Form or Lease Name Bridges State		Well No. 158	
Coq. Size 7 5/8	Wt. 40.0	d 8.835	Set At 11,000'
Perforations: From 11,370' to 11,462'	6.276	4314'	
Trq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11,336'
Perforations: From open ended			
Type Well - Single - Bradenhead - G.G. or G.O. Multipl Single		Packer Set At 11,300'	
Producing Thru Tubing		Reservoir Temp. °F 161 @ 11,300'	
Mean Annual Temp. °F 60		Bcto. Press. - P _g 13.2	
State New Mexico			
L 11,416'	H -	Gg 0.663	% CO ₂ 0.24
% N ₂ 0.98	% H ₂ S 0.00	Prover	Water Run X
Taps F			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. P _w	Temp. °F	Press. DWT p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	6						3813				48.0
1.	6 8/64			810	3	98	3076	78	Pkr	-	3.0
2.	6 10/64			810	60	87	2675	79	-	0	1.5
3.	6 11/64			810	7	87	2445	78	-	-	1.0
4.	6 12/64			810	9	94	1910	78	-	-	1.0
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 F _{sp}	Rate of Flow Q, Mcfd
1	4.726	159.24	813.2	0.9653	1.228	1.057	951.9
2	4.726	222.24	813.2	0.9750	1.228	1.072	1348.0
3	4.726	251.76	813.2	0.9750	1.228	1.072	1527.2
4	4.726	275.20	813.2	0.9688	1.228	1.068	1652.5
5							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	1.22	558	1.49	0.879	A.P.I. Gravity of Liquid Hydrocarbons		Deq.
2.	1.22	547	1.46	0.870	Specific Gravity Separator Gas	0.663	XXXXXXX
3.	1.22	547	1.46	0.870	Specific Gravity Flowing Fluid	XXXXX	
4.					Critical Pressure	673	P.S.I.A.
5.					Critical Temperature		R

NO.	P _t	P _w	P _c	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	-	4356.2	18976.3	8619.7	3.202	2.980
2	-	3949.2	15596.2	12000.3		
3	-	3687.2	13595.4	14000.1		
4						
5						

Absolute Open Flow 2840		Mcf/d @ 15.025	Angle of Slope 45° 50'	Slope, n 0.935
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Remarks: *BHP @ (-7372) 11416 used for pressure calculations

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
<i>[Signature]</i>	Coleman Petr. Engr. Co.	Joe A. Coleman	Joe A. Coleman

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JUN 10 1971

**OIL CONSERVATION COMM.
HOBBS, N. M.**

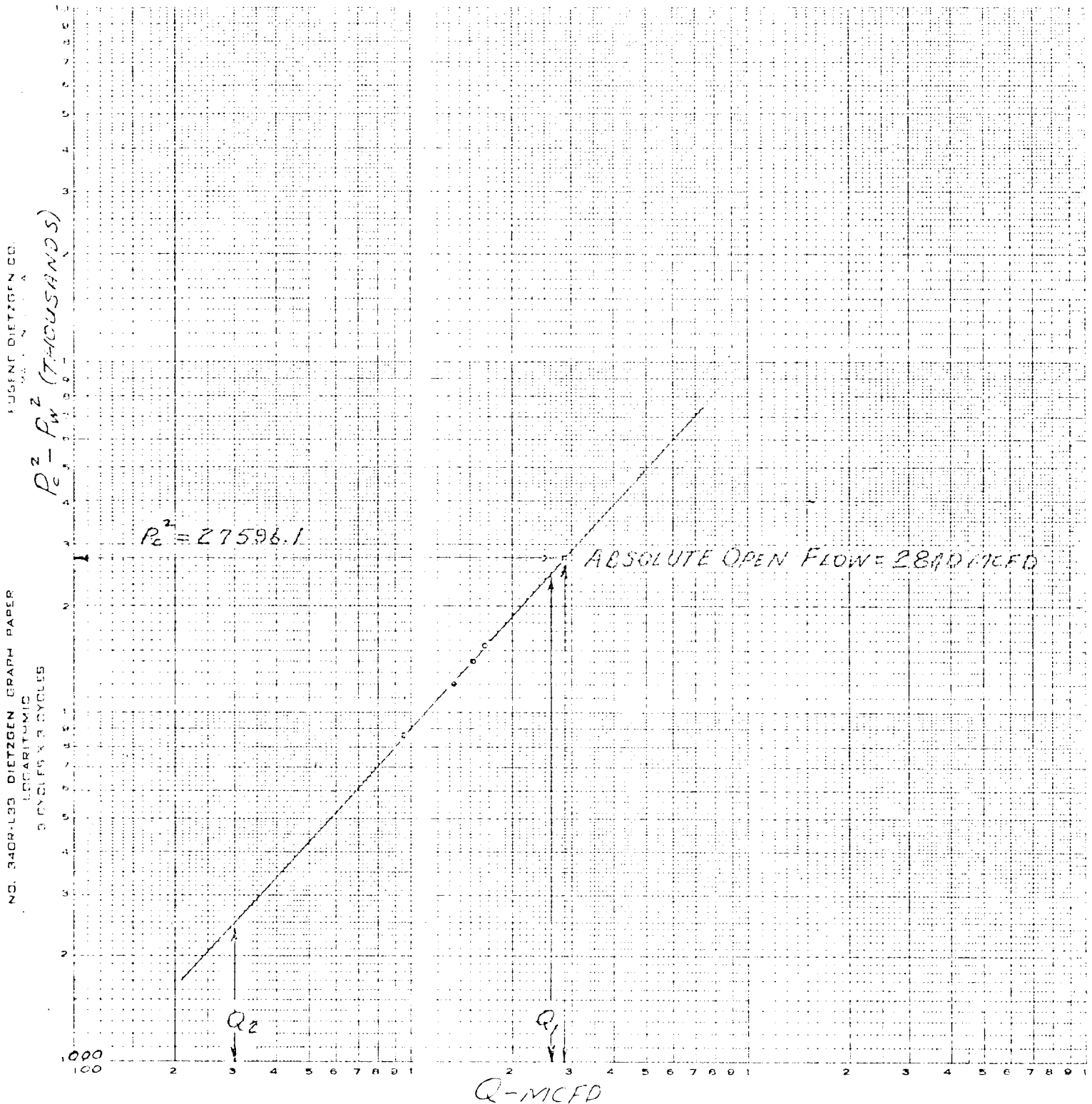
COMPANY, MOBIL OIL CORPORATION

WELL STATE BRIDGES, No 158

LOCATION J, 12, 17S, 34E

COUNTY LEA

DATE 5-27-71



$$Q_1 = 2600 \text{ MCFD}; \log Q_1 = 3.41497$$

$$Q_2 = 300 \text{ MCFD}; \log Q_2 = 2.47712$$

$$n = 0.93785 = 0.938$$

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OIL CONSERVATION COMM.
HOSES, N. H.