

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

RECEIVED

MAR 20 1973

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-8-73			
Company DALPORT OIL CORP.				Connection				ARTESIAN	
Pool DOUBLE L				Formation QUEEN				Unit	
Completion Date FEB 20, 1973		Total Depth 1895		Plug Back TD 1895		Elevation 3868 GR.		Farm or Lease Name HILL "A" FEDERAL	
Csg. Size 4 1/2	Wt. 4.5	Set At 1895	Perforations: From 1862 To 1874		Well No. 1		Unit Sec. Twp. Rge. N 35 14S 29E		
Tbg. Size 2 3/8	Wt.	Set At 1843	Perforations: From OPEN To ENDED		County CHAVES		State NEW MEXICO		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At NONE		Meter Run 4" OWT	
Producing Thru L 1843		Reservoir Temp. °F 90 @ 1880		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Taps	
H 1843		Gg .899	% CO ₂ 0.00	% N ₂ 62.00	% H ₂ S 0.00				

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. HG	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							463.0			CHOKE	19.5 HRS.
1.	4" OWT x 1.00			8.5			389.0	56			1.0
2.	4" OWT x 1.00			20.5			293.0	57			1.0
3.	4" OWT x 1.00			32.0			200.0	58			1.0
4.	4" OWT x 1.50			10.0			121.0	58			1.0
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	VOLUME BEFORE CORRECTION	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	VOLUMES	252.7			1.055		267
2	FROM GOR	415.7			1.055		439
3	MANUAL	545.9			1.055		576
4	TABLES	631.0			1.055		666
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	TSTM	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons		Deq.
2.					Specific Gravity Separator Gas .899	XXXXXXXXXX	
3.					Specific Gravity Flowing Fluid XXXXX		
4.					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.	
5.					Critical Temperature _____ R	_____ R	

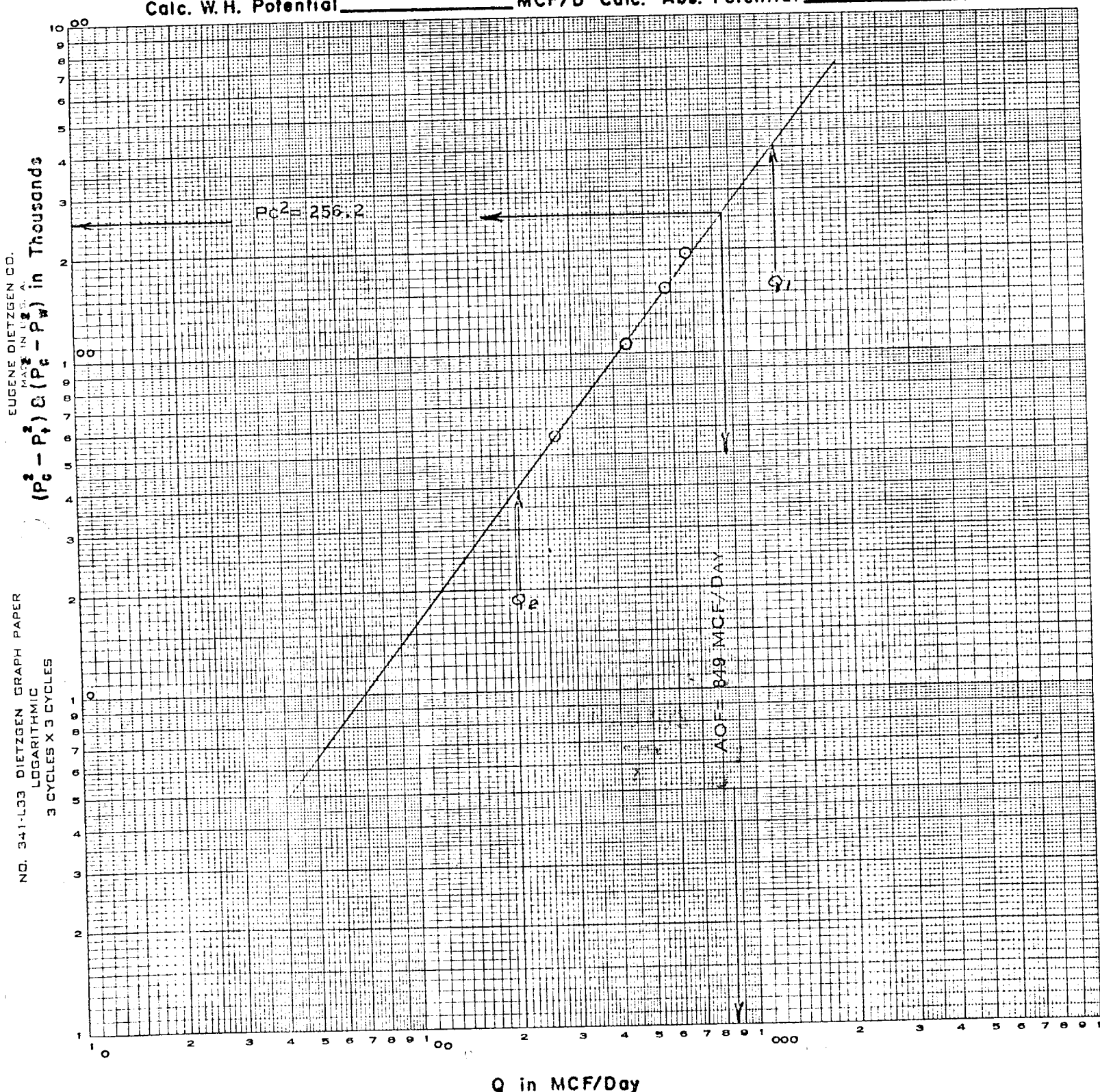
$P_c = 506.2$ $P_w^2 = 256.2$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.6465$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4735$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		450.2	202.7	53.5				
2		387.2	149.9	106.3				
3		317.2	100.6	155.6				
4		250.2	62.6	193.6				
5								

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 849$					Absolute Open Flow 849 Mcfd @ 15.025		Angle of Slope θ _____ Slope, n 0.779	
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Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA BOMB @ 1880 FEET			
Approved By Commission:	Conducted By: M. C. T.	Calculated By: R. L. W.	Checked By:

BACK PRESSURE CURVE

Operator DALPORT OIL CORP. Lease HILL "A" FEDERAL Well No. 1
 County CHAVES Field Location N, SEC 35, T14S, R29E
 Date of Test 3-8-73 Slope "n" 0.779 W.H. Abs.
 Calc. W.H. Potential MCF/D Calc. Abs. Potential 849 MCF/D



$$\text{SLOPE (n)} = Q_1 = 1225 = 7.0881361$$

$$Q_2 = 204 = \frac{6.3096302}{0.7785059}$$

$$\text{AOF} = 576 \frac{256.2}{155.6}^{.779} = 849 \text{ MCF/DAY}$$