

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-16-73	
Company DALPORT OIL CORPORATION				Connection TO AIR	
Pool VEST RANCH				Formation QUEEN	
Completion Date		Total Depth 2098'		Elevation 3839 GR.	
Csg. Size 4 1/2"		Set At 2098'		Perforations: From 2060' To 2069'	
Tub. Size 2 3/8"		Set At 2037		Perforations: From OPEN To ENDED	
Type Well - Single - Gradennood - G.G. or G.O. Multiple SINGLE				Packer Set At NONE	
Producing Thru TUBING		Reservoir Temp. °F 90° @ 2064'		Baro. Press. - P _a 13.2	
L 2037'		H 2037'		G _g .904	
		% CO ₂ .12		% N ₂ 62.81	
		% H ₂ S		Prover POSITIVE CHOKES	
				Meter Run	
				Taps	
Farm or Lease Name BELL STATE COMN.					
Well No. 1					
Unit Sec. Twp. Rge. L 16 14S 30E					
County CHAVES					
State NEW MEXICO					

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	
5.							554.0				
1.	8/64"	POS. CHOKE		530.0		77	530.0	77			60 MIN.
2.	12/64"	"		491.0		77	491.0	77			60 MIN.
3.	16/64"	"		395.0		80	395.0	80			60 MIN.
4.	20/64"	"		338.0		78	338.0	78			60 MIN.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	0.2618		543.2	0.9840	1.052	1.021	150.3
2.	0.6101		504.2	0.9840	1.052	1.020	324.8
3.	1.112		408.2	0.9813	1.052	1.015	475.6
4.	1.771		351.2	0.9831	1.052	1.013	651.6
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	0.97	537	1.87	0.960	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	0.90	537	1.87	0.962	Specific Gravity Separator Gas 0.904 XXXXXXXXXX
3.	0.73	540	1.88	0.970	Specific Gravity Flowing Fluid XXXXX
4.	0.63	538	1.87	0.974	Critical Pressure EST. 558 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature EST. 287 R _____ R

P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.1179$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.9239$
614.2	377.2					
1.	586.2	343.7	33.5			
2.	547.2	299.4	77.8			
3.	491.2	241.3	135.9			
4.	446.2	199.1	178.1			
5.						

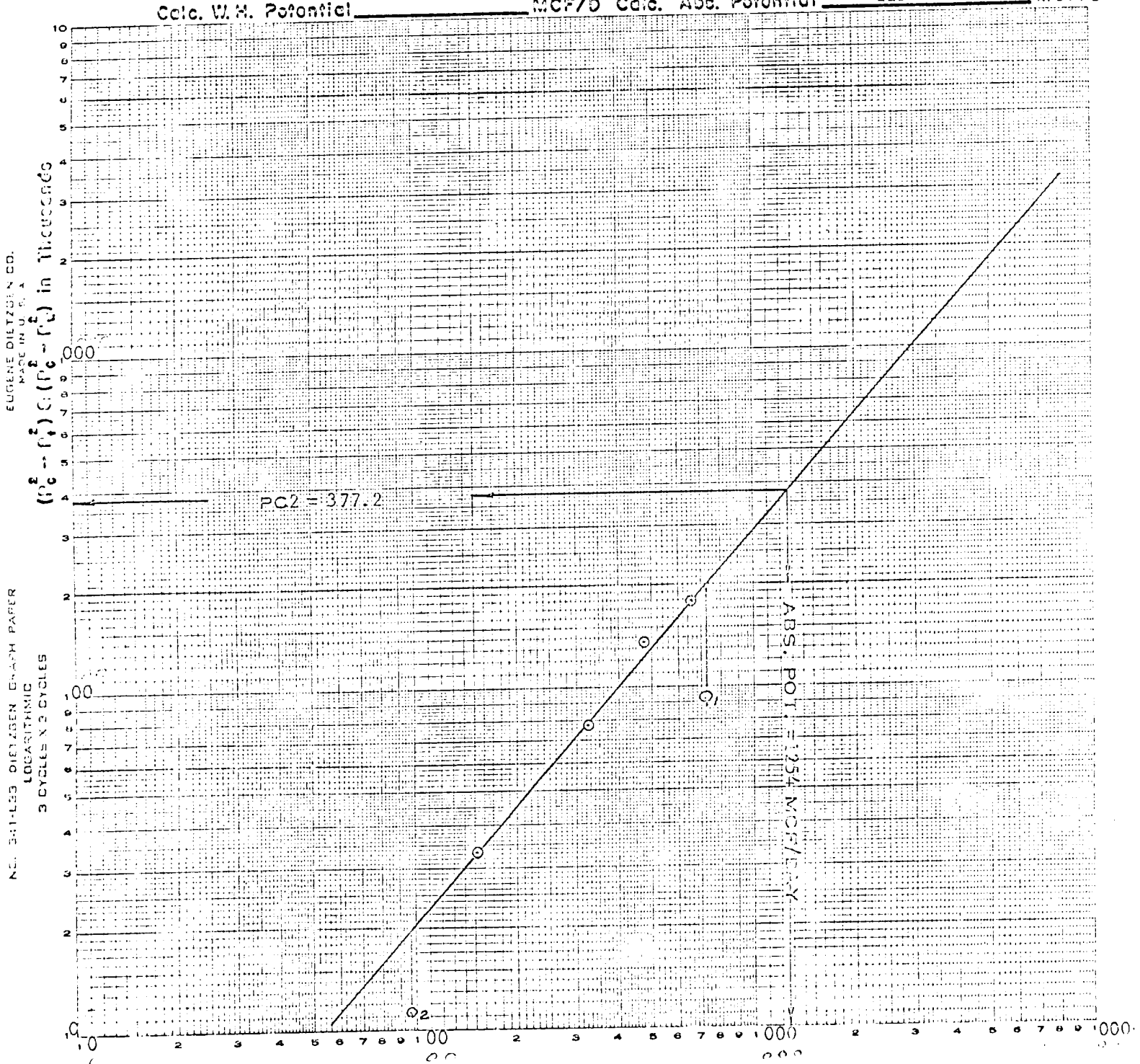
Rate of Flow 1254 Mcfd @ 15,025		Angle of Slope 48.9°		Slope, n 0.872	
---------------------------------	--	----------------------	--	----------------	--

Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA GAUGE @ 2064 FEET

N2 CONTENT BEYOND TABLES			
Conducted By: R. WIGST	Calculated By: J. W. W.	Checked By: J. W. W.	

BACK PRESSURE CURVE

Operator DALPORT OIL CORP. Locco BELL STATE COMN. Well No. 1
 County CHAVES Field VEST RANCH Location _____
 Date of Test 7-16-73 Slope "n" 0.872 W.H. _____ Abs. _____
 Calc. W.H. Potential _____ MCF/D Calc. Abs. Potential 1254 MCF/D



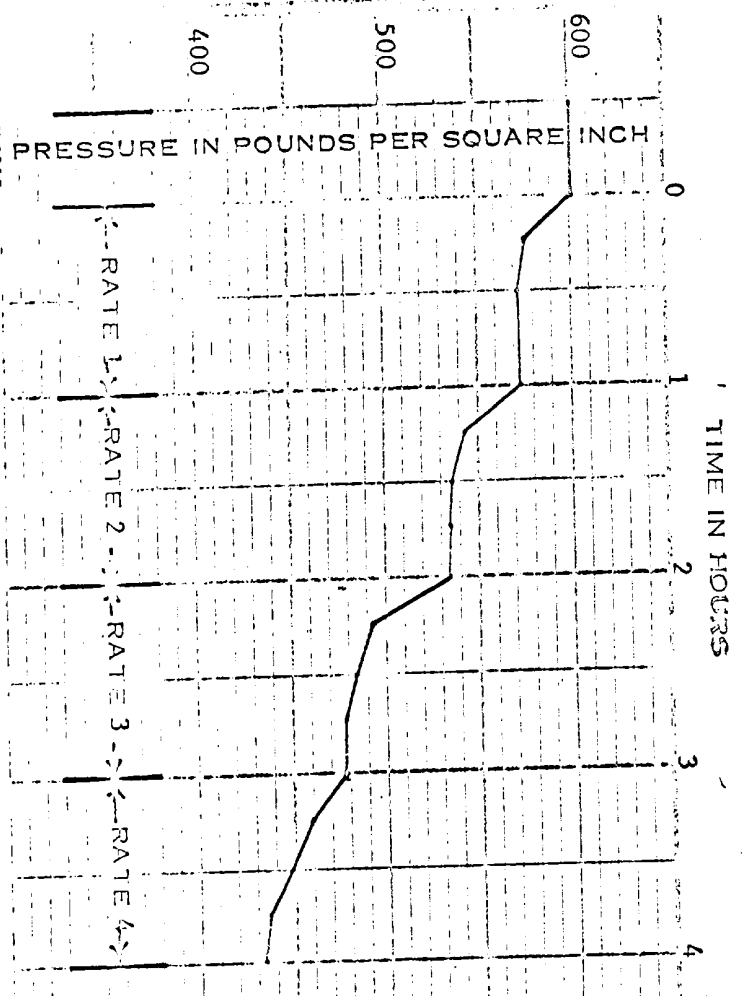
ABS. SLOPE (n) = $Q_1 = 730 = 6.8633229$ ABS. POT. = $651.6 \frac{(377.2)}{178.1} = 1254 \text{ MCF/Dcy}$
 $Q_2 = 98 = 5.9912261$
 $n = 0.8720968$

TEST DATE: 7-16-73
 TEST DEPTH: 2064 FEET
 ELEMENT NO.: 9156-N
 RANGE: 0-2900#
 CLOCK NO.: 2145
 RANGE: 0-24 HRS.
 TEST OPERATOR: D. TYSON

TIME
 12:05 P.M.
 12:20 P.M.
 12:35 P.M.
 1:20 P.M.
 1:35 P.M.
 2:20 P.M.
 2:35 P.M.
 3:20 P.M.
 3:35 P.M.
 4:20 P.M.

CUM. HRS/MIN.
 00 HRS. 00 MIN,
 00 15
 00 30
 01 15
 01 30
 02 15
 02 30
 03 15
 03 30
 04 15

P.S.I.G. @ CENTER OF PERFS. 20
 601 GUAGE REACHED 2064 FEET
 601 OPENED WELL START TEST
 576 RATE 1 CHOKE @ 8/
 573 END TATE 1 CHOKE @ 12/
 543 RATE 2 CHOKE @ 16/
 534 END RATE 2 CHOKE @ 20/
 494 RATE 3 GUAGE OUT
 478 END RATE 3
 460 RATE 4
 433 END RATE 4



DALPORT OIL CORPORATION
 FOUR POINT BACK PRESSURE TEST
 BELL STATE NO. 1