

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

U. C. L. Form C-122
ARTESIA, OFF. Revised 9-1-65

RECEIVED
FEB-7 1973
S. GEORGE & SONS
ARTESIA, N.M. 88210

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-18-73		FEB-7 1973 S. GEORGE & SONS ARTESIA, N.M. 88210			
Company Dalport Oil Corp.				Connection To Air					
Pool Double "L"				Formation Queen					
Completion Date 12-17-72		Total Depth 1950		Plug Back TD 1903		Elevation 3863 Gr.		Farm or Lease Name Falgout Federal	
4-1/2	Wt. 9.5	d 4.082	Set At 1950	Perforations: From 1856 To 1868		Well No. 1			
2-3/8	Wt. 4.5	d 1.995	Set At 1855	Perforations: From Open To Ended		Unit G	Sec. 35	Twp. 14S	Rge. 29E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves			
Producing Thru Tubing		Reservoir Temp. °F 92 @ 1890		Mean Annual Temp. °F 60° F		Baro. Press. - P _a 13.2		State New Mexico	
L 1855	H 1855	G _g 0.897	% CO ₂ 0.17	% N ₂ 60.63	% H ₂ S XXXX	Meter Run 4" O.W.T. --		Temp. --	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	IN Diff. HG. xx	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							480.0			
1.	4" OWT		2.00"		1.0	60	319.0	64	12/64"	Choke
2.	4" OWT		2.00"		3.5	60	260.0	63	18/64"	Choke
3.	4" OWT		2.00"		5.5	60	205.0	63	24/64"	Choke
4.	4" OWT		2.00"		7.0	60	140.0	63	32/64"	Choke
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	Q MCF/DAY XXXXXXX Before Correc.	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	Volumes	352.4		1.000	.8178	1.000	288
2	Obtained	668.3		1.000	.8178	1.000	547
3	From GOR	846.7		1.000	.8178	1.000	692
4	Test	962.8		1.000	.8178	1.000	787
5	Manual						

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio T.S.T.M Mcf/bbl.
1	Less than				A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	information				Specific Gravity Separator Gas 0.897 XXXXXXXXXX
3	listed in				Specific Gravity Flowing Fluid XXXXX
4	tables				Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

P _c 526.2	P _c ² 276.9			(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4589$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2938$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		450.2	202.7	74.2	
2		402.2	161.8	115.1	
3		338.2	114.4	162.5	
4		295.2	87.1	189.8	
5					

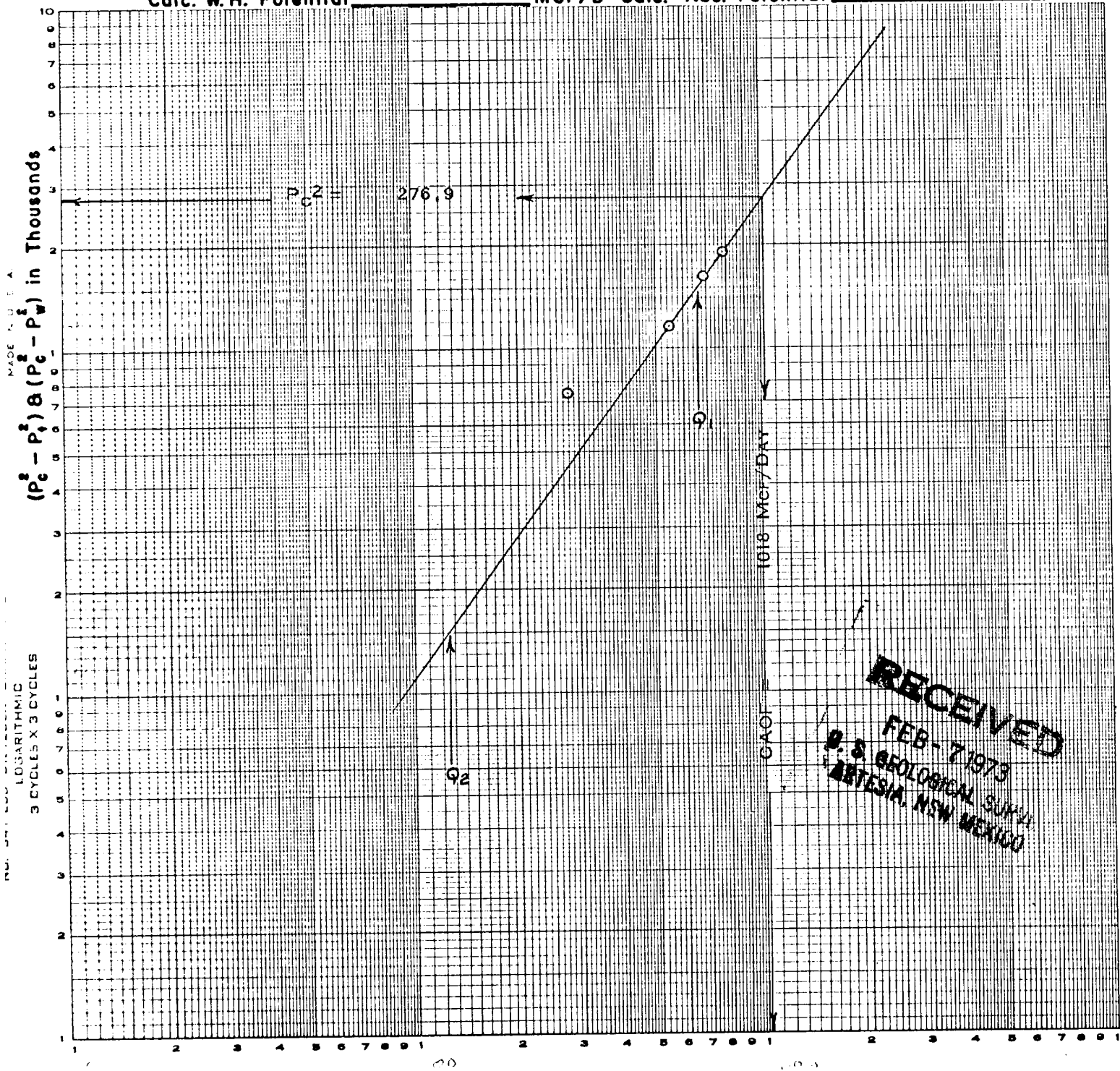
Absolute Open Flow 1018 Mcfd @ 15.025		Angle of Slope 54.0	Slope, n 0.723
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Remarks: **Bottom hole pressure measured with Amerada Bomb @ 1890'**

Approved By Commission:	Conducted By: G.J.P.	Calculated By: R.L.W.	Checked By: J.W.W.
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BACK PRESSURE CURVE

Operator DALPORT OIL CORP. Lease FALGOUT FED. Well No. 1
 County CHAVES Field DOUBLE L Location UNIT G, SEC. 35, T14S, R29E
 Date of Test 1-18-73 Slope "n" 0.723 W.H. Abs.
 Calc. W.H. Potential MCF/D Calc. Abs. Potential 1018 MCF/D



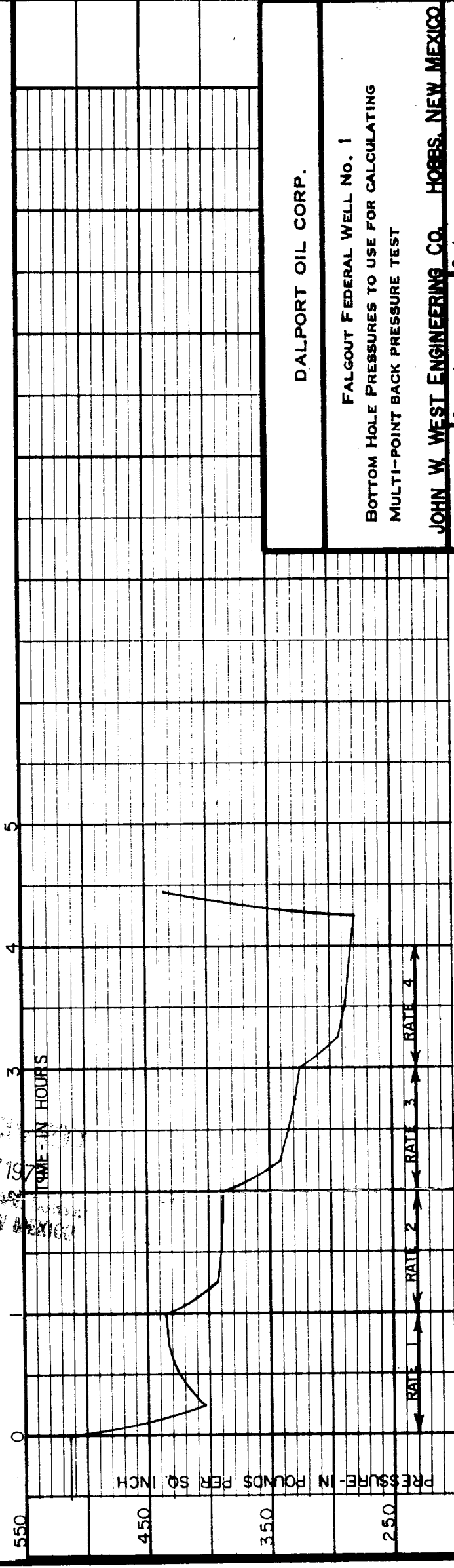
Q in MCF/Day

ABS. SLOPE (N)= $Q_1 = 6.8195439$
 $Q_2 = 6.0969100$
 $N = 0.7226339$

$CAOF = 787 \left(\frac{276.9}{189.8} \right)^{.723} = 1018 \text{ MCF/DAY}$

TIME	CUM. HRS/MIN	PSIG @ 1890 FEET	TIME	CUM. HRS/MIN	PSIG @ 1890 FEET
10:45 AM		513 GAUGE REACHED 1890'	2:35 PM	03 HRS 15 MIN	294
11:20 AM	00 HRS 00 MIN	513 OPEN CHOKE, BEGIN 1ST RATE		03 30	288
	00 15	403		03 45	287
	00 30	424	3:20 PM	04 00	282 END 4TH RATE
	00 45	433			
12:20 PM	01 00	437 END 1ST RATE	3:35 P.M.	00 00	280 WELL SHUT-IN
	01 15	393	3:45 P.M.	00 HRS 10 MIN	435 GAUGE OUT, END TEST
	01 30	390			
	01 45	390			
1:20 PM	02 00	389 END 2ND RATE	TEST DATE: JANUARY 18, 1973		
	02 15	341	TEST DEPTH: 1890 FEET		
	02 30	334			
	02 45	329	ELEMENT No.: 25624-N		
2:20 PM	03 00	325 END 3RD RATE	RANGE: 0-2000 P S I		
			CLOCK No.: 11782		
			RANGE: 0-24 HOUR		

RECEIVED
FEB - 7 1973
D. S. FLORES
ARTESIA, NEW MEXICO



DALPORT OIL CORP.

FALGOUT FEDERAL WELL No. 1

BOTTOM HOLE PRESSURES TO USE FOR CALCULATING
MULTI-POINT BACK PRESSURE TEST

JOHN W. WEST ENGINEERING CO. HOBBS, NEW MEXICO

Date: 1-27-73 Drawn by: MCT Scale: AS SHOWN