

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

Form C-122
 Revised 9-1-83

RECEIVED BY
FEB 23 1987
O. C. D.
 ARTESIA OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-12-87	
Company HICKAY OIL CORP.				Connection TO AIR NEW WELL		
Pool WEST PECOS SLOPE				Formation ABO		
Completion Date 1-9-87		Total Depth 3400		Plug Back To 3276		Elevation 4259
Farm or Lease Name FOUR MILE DRAW FED						Well No. 2
Casing Size 4.5	Wt. 9.5	d	Set At 3350	Perforations: From 2417 To 3125.5		Unit F
Hyd. Size 2.375	Wt. 4.7	d 1.995	Set At 2780	Perforations: From OPEN To ENDED		Sec. 15
Type Well - Single - Brdenhead - G.O. or G.O. Multiple SINGLE				Packer Set At NONE		Twp. 6S
Producing Thru TUBING		Reservoir Temp. °F 101.0		Mean Annual Temp. °F 60.0		Rge. 22E
				Baro. Press. - P _g 13.2		County CHAVES
						State NEW MEXICO
L 2771.25	H 2771.25	G _g .621	% CO ₂ .238	% N ₂ 6.019	% H ₂ O 0	Provor 2.000
						Motor Run 0
						Taps 0

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Provor Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. In. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							926	50	924		72 HRS
1.	2.000	.125		898	0.00	47	898	47	898	47	60 MIN
2.	2.000	.1875		860	"	46	860	46	863	46	60 MIN
3.	2.000	.250		795	"	45	795	45	802	45	60 MIN
4.	2.000	.375		615	"	44	615	44	637	44	60 MIN
5.											

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	0.2648	0.00	911.2	1.013	1.269	1.082	336
2	0.6082	0.00	873.2	1.014	1.269	1.080	738
3	1.087	0.00	808.2	1.015	1.269	1.074	1215
4	2.378	0.00	628.2	1.016	1.269	1.057	2036
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.38	507	1.46	.854	0	0	.621	XXXXXX	660	348
2	1.32	506	1.45	.857				XXXXX		
3	1.22	505	1.45	.867						
4	.95	504	1.45	.895						
5										

NO.	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2}$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n$
1	937.2	878	48	1.0297	1.6190
2	876.2	769	110		
3	815.2	664	214		
4	650.2	423	455		
5					

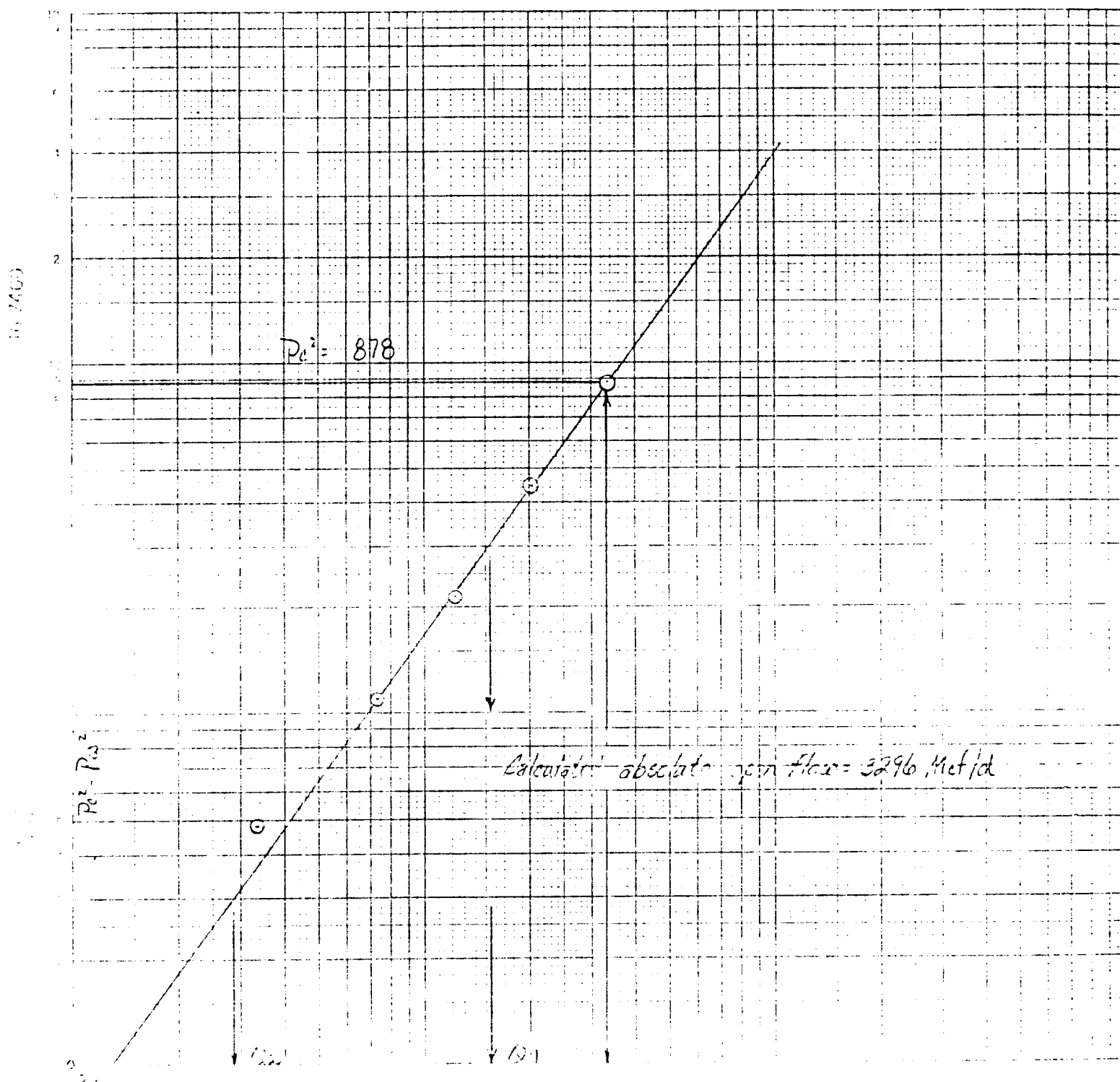
AOIF = 0 $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3296$

Absolute Open Flow	3296	Mcfd @ 15.025	Angle of Slope	53.75	Slope, n	733
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Remarks:

Approved By Commission	Conducted By BENNETT & CATHEY	Calculated By RICHARD TOWNLEY	Checked By
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Four Mi. Draw Well #2
 15 1.5 PFE
 Charles County
 1-12-87



$$Q_1 = 1546.6$$

$$Q_2 = 286$$

$$\log Q_1 = 3.1895$$

$$\log Q_2 = 2.4563$$

$$n = 0.7830$$

May Oil

Four M. D. 2

SINGER
AMERICAN METER DIVISION

