

MEXICO OIL CONSERVATION COMPANY
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL.

dlsf
 File
 Form O-112
 Revised 9-1-85

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date		960 FWL	
Company MC KAY OIL COMPANY				Connection TO AIR		RECEIVED BY MAY 23 1986 O. C. D. ARTESIA OFFICE		1650 FNL	
Pool <i>W. Pecos Slope Also</i>				Formation ABO				Unit	
Completion Date 1-13-86		Total Length 3383		Plug Back TD 3277		Well Location O. C. D.		Form or Lease Name CHINA DRAW FED.	
Csg. Size 4.5	Wt. 9.5	d 4.090	Set At 3309 3277	Perforations: From 2819 To 2953		Well No. 2			
Tub. Size 2.375	Wt. 4.7	d 1.995	Set At 2800	Perforations: From OPEN To ENDED		Unit E		Son. 31	Twp. 6S
Type Well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES			
Producing Thru TUBING		Reservoir Temp. °F 101° 2886		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 2886	H 2886	G _g .619	% CO ₂ .029	% N ₂ 5.670	% H ₂ S 0	Prover 2.000	Meter Run 0	Taps 0	

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.	
SI							915		915	
1.	2.000	X	.250	865	0.00	56	865	56	870	
2.	2.000	X	.3125	780	0.00	54	780	54	840	60 MIN.
3.	2.000	X	.375	580	0.00	50	736	50	825	60 MIN.
4.	2.000	X	.375	680	0.00	50	685	50	801	60 MIN.
5.										

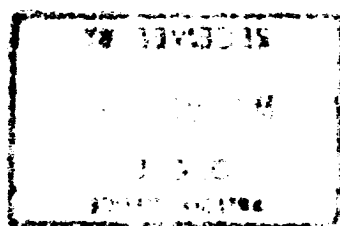
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	1.087	0.00	878.2	1.004	1.271	1.074	1308
2	1.672	0.00	793.2	1.006	1.271	1.067	1809
3	2.378	0.00	593.2	1.010	1.271	1.054	1909
4	2.378	0.00	692.2	1.010	1.271	1.062	2247
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	1.33	516	1.48	.867	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	1.20	514	1.48	.878	Specific Gravity Separator Gas _____ 619
3.	.90	510	1.46	.901	Specific Gravity Flowing Fluid _____ X X X X X
4.	1.05	510	1.46	.886	Critical Pressure _____ 660 P.S.I.A.
5.					Critical Temperature _____ 348 °R

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 4.3379$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.4368$
1		883.2	780.0	81.5	$AOI = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 5475$	Post ID-2 5-30-86 comp + BK
2		853.2	728.0	133.5		
3		838.2	702.6	158.9		
4		814.2	662.9	198.6		
5						

Absolute Open Flow	5475	Mcfd @ 15.025	Angle of Slope θ	58.75	Slope, n	.607
Remarks:						
Approved By Commission:		Conducted By: BENNETT & CATHEY		Calculated By: RICHARD TOWNEKY		Checked By:

RECEIVED JAN 22 1986



BACK PRESSURE CO.

Operator McKay

Lease China Draw Fed

Well No. 2

County Chaves

Field Pecos Slope

Location 31 6S 23E

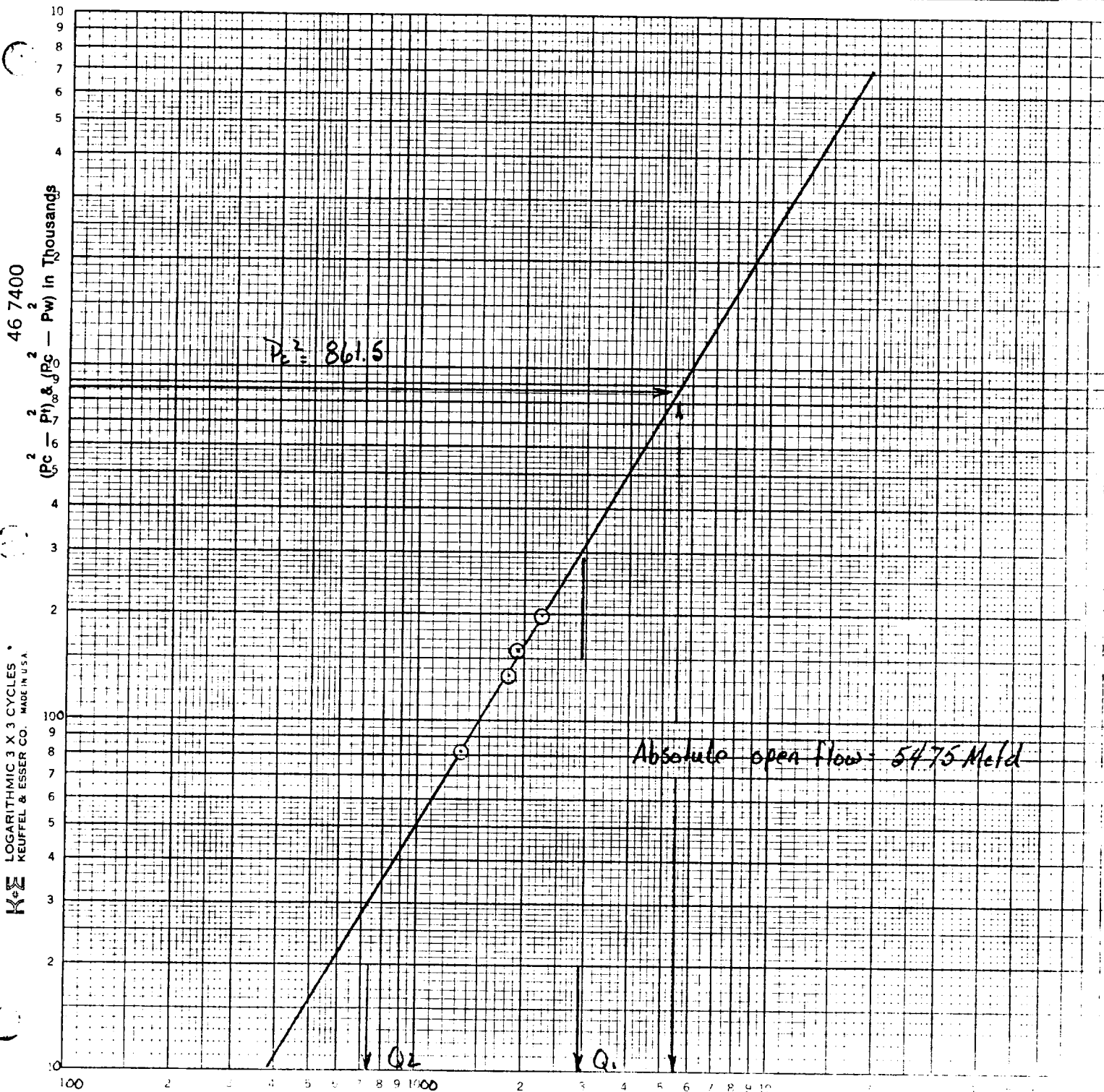
Date of Test 1-17-86

Slope "n" 0.607

Angle of Slope 58.75

Calc. Abs. Potential 5475

MCF/D



$$\overline{\Delta P_1^2} \quad P_c^2 - P_w^2 = \underline{300}$$

$$\overline{\Delta P_2^2} \quad P_c^2 - P_w^2 = \underline{30}$$

$$Q_1 = \underline{2953}$$

$$Q_2 = \underline{730}$$

Q in MCF/Day

$$\text{LOG } Q_1 = \underline{3.4763}$$

$$\text{LOG } Q_2 = \underline{2.8633}$$

$$n = \underline{0.607}$$

