

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

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 22
 Form C-122
 Revised 9-1-55

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-24-74		JAN 13 1975	
Company Mark Production Company				Connection None		O. C. C.	
Well Cemetery (Morrow)				Formation Morrow		Unit H	
Completion Date 12-24-74		Total Depth 9540		Plug Back TD 9540		Elevation 3536 KB 3225 Gr	
Farm or Lease Name Federal "C" Com.				Well No. 1			
Cas. Size 4 1/2	Wt. 11.00 12.70	d 3.476 3.958	Set At 7450 9540	Perforations: From 9373 To 9447		Unit Sec. Twp. Rye. H 7 20-S 25-E	
Reg. Size 2 3/8	Wt. 4.70	d 1.995	Set At 9276	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9276		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 180 @ 9410		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 9410	H 9410	Gg .603	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run Taps

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.	
1	3.0	2.25	310	5.5	10	2510	40			
2	3.0	2.25	320	15.0	13	2310	53			
3	3.0	2.25	325	27.0	17	2140	55			
4	3.0	2.25	410	37.0	22	1882	57			
5										

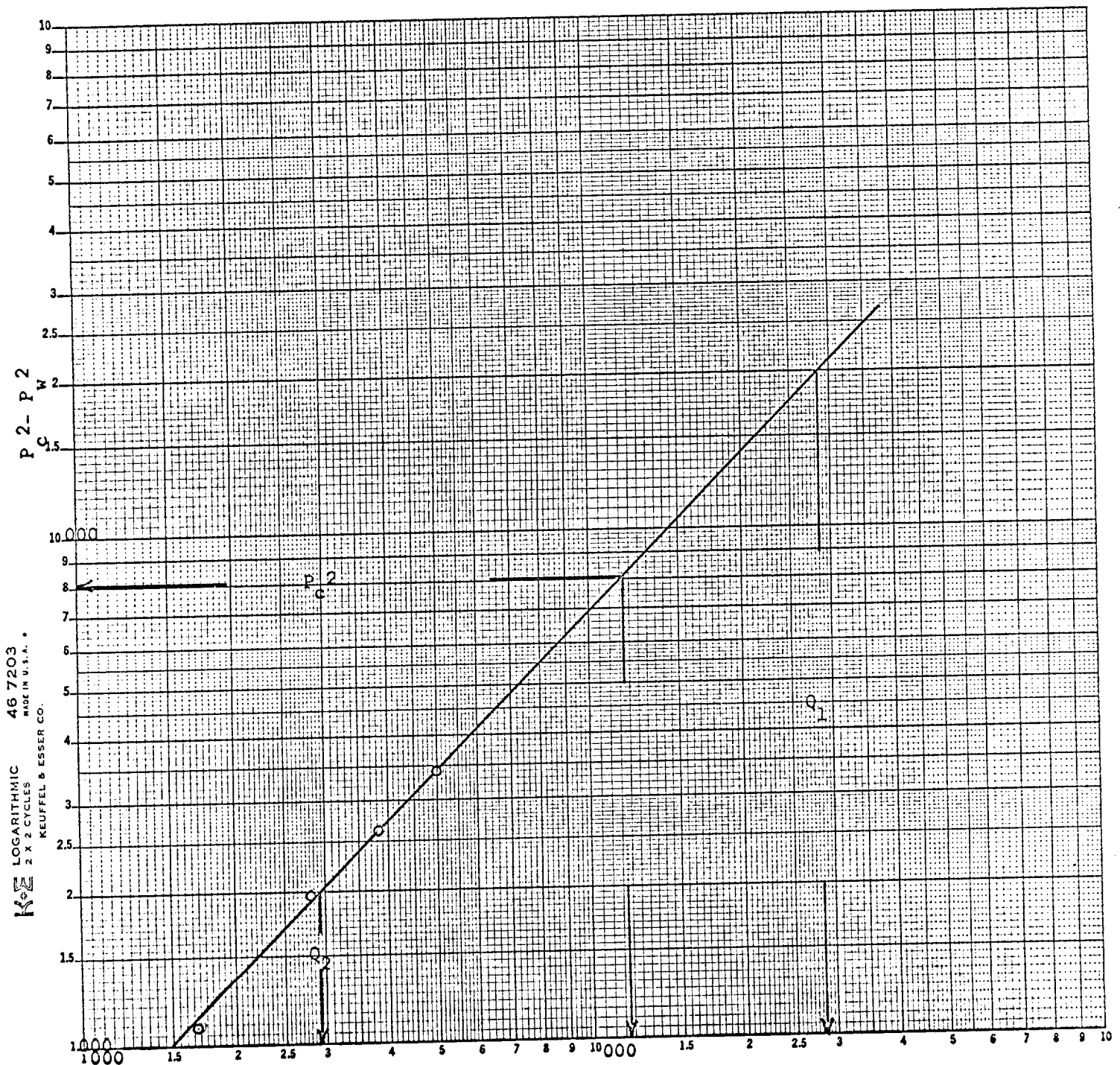
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	28.78	42.1616	323.2	1.0518	1.2878	1.024	1683
2	28.78	70.6965	333.2	1.0485	1.2878	1.032	2835
3	28.78	95.5584	338.2	1.0441	1.2878	1.032	3816
4	28.78	125.1335	423.2	1.0387	1.2878	1.040	5010
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None Produced	Mcfd/bbl.
1	.35	500	1.38	.953	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2	.50	513	1.42	.939	Specific Gravity Separator Gas	.603	XXXXXXXXXX
3	.50	515	1.42	.939	Specific Gravity Flowing Fluid	XXXXXX	
4	.63	517	1.43	.924	Critical Pressure	671	P.S.I.A.
5					Critical Temperature	362	R

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{8072}{3415}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.34086$
1		2646.1	7002	1070		
2		2470.2	6102	1970		
3		2318.6	5376	2696		
4		2158.0	4657	3415		
5						

Absolute Open Flow		11728	Mcfd @ 15.025	Angle of Slope @	45° 19.5'	Slope, n	.989
Remarks:							
Approved By Commission:		Conducted By: R D Overstreet		Calculated By: H L Hagler		Checked By:	
WEST TEXAS CONSULTING SERVICE, INC.							

OPERATOR Mark Production Company
 LEASE Federal "C"
 WELL NO. 1
 FIELD Cemetery (Morrow)
 COUNTY Eddy, New Mexico
 DATE 12-26-74



Q in Mcf/Day
 $Q_1 = 28500 \text{ Mcf} \quad \log Q_1 = 4.45484$
 $Q_2 = 2925 \text{ Mcf} \quad \log Q_2 = 3.46613$

$n = .988719$

Absolute Open Flow = 11728 Mcf/Day