

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-24-73	
Company Texas West Oil & Gas Corp.			Connection None		
Pool Antelope Ridge			Formation Morrow		Unit
Completion Date 8-21-73		Total Depth 13,801	Plug Back TD 13,766	Elevation 3451 GR	Form or Lease Name State 2
Cas. Size 95' 8" Wt. 75/8		Set At 11,930 13,801	Perforations: From 13,260 To 13,669		Well No. 2
Tub. Size 2 7/8	Wt. 6.5	Set At 2,441	13,194	Perforations: From Open ended To	Unit Sec. Twp. Rge. K 4 24 34
Type well - Single - Bradenhead - G.G. or G.O. Multiple Dual				Packer Set At 13,170	County Lea
Producing Thru Tubg.		Reservoir Temp. °F 175 ^a 13,770	Mean Annual Temp. °F 13.2	Baro. Press. - P _a	State New Mexico
L 13,194	H 13,194	G _g 630	% CO ₂	% N ₂	% H ₂ S
			Prover	Meter Run 4"	Taps Flg.

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
SI							6860				72 hrs.
1.	4	X	2"	770	8"	980	4362	740			2 hrs.
2.	4	X	2"	775	13"	900	3540	790			2 hrs.
3.	4	X	2"	785	19"	830	2795	810			2 hrs.
4.	4	X	2"	795	28"	890	1546	810			1.75 hrs.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	19.81	79.2	783.2	.9868	1.260	1.062	2072
2	19.81	101.2	788.2	.9822	1.260	1.062	2635
3	19.81	123.2	798.2	.9804	1.260	1.067	3217
4	19.81	150.4	808.2	.9804	1.260	1.066	3923
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/bbl.
1.	1.17	558	1.52	.887	A.P.I. Gravity of Liquid Hydrocarbons	None	None
2.	1.18	550	1.49	.886	Specific Gravity Separator Gas	.630	XXXXXX
3.	1.19	543	1.48	.879	Specific Gravity Flowing Fluid	XXXXX	
4.	1.21	549	1.49	.880	Critical Pressure	670	P.S.I.A.
5.					Critical Temperature	368	R

P _c 6873.2	P _c ² 47,240.8	
NO.	P _r ²	P _w ²
1	4381.5	19,197.5
2	3568.0	12,730.6
3	2833.1	8,026.5
4	1618.7	2,620.2
5		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.059$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.059$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.153$$

$$AOF = Q$$

Absolute Open Flow	4.153	Mcf/d @ 15.025	Angle of Slope °	45	Slope, n	1.000
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Remarks: no liquid made during test.

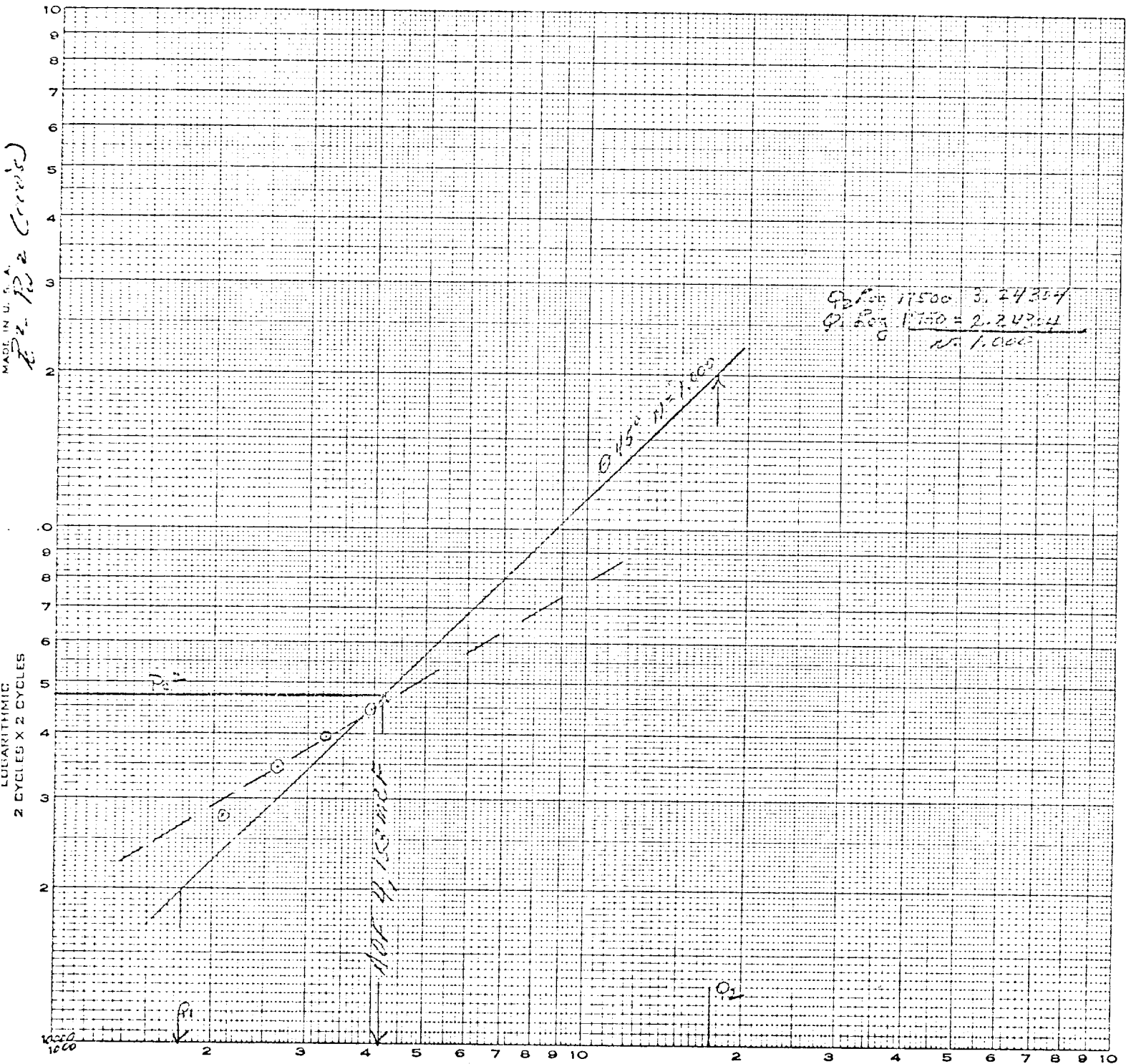
Approved By Commission: <i>[Signature]</i>	Conducted By: Randy Kiker	Calculated By: Randy Kiker	Checked By: Roy K. Valla
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TEXAS WEST OIL AND GAS CORPORATION

State 2 No. 2

4-24-34 Lea County, New Mexico

August 24, 1973



$$\begin{aligned} Q_{D1} \text{ for } 17500 &= 3.24357 \\ Q_{D2} \text{ for } 17500 &= 2.24357 \\ \hline &= 1.000 \end{aligned}$$

QmCF/D