

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

Form C-122  
Revised 9-1-66

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 8-23-73	
Company Texas West Oil & Gas Corp.				Connection None		
Foot Antelope Ridge				Formation Atoka		Unit
Completion Date 8-21-73		Total Depth 13,801		Plug Back TD 13,766	Elevation 3451 GR	Farm or Lease Name State 2
Csg. Size 9 5/8 7 5/8	Wt. 11930	Set At 1877	Set At 13,801	Perforations: From 12407 To 12480		Well No. 2
Csg. Size 2 7/8	Wt. 6.5	Set At 2,441	Set At 12,270	Perforations: From To		Unit Sec. Twp. Rye. K 4 24 34
Type Well - Single - Broadhead - G.G. or G.O. Multiple Gas Gas Dual				Packer Set At 12,250		County Lea 1
Producing Thru TB6		Reservoir Temp. °F 197 @ 12,250		Mean Annual Temp. °F		Baro. Press. - P <sub>a</sub> 13.2
L 12,250	H 12,250	Gg .647	% CO <sub>2</sub>	% N <sub>2</sub>	% H <sub>2</sub> S	Prover 4"
Meter Run 4"	Taps FL6	State New Mexico				

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow		
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
5.							7075				48 Hr
1.	4" x 1.750			760	6.00	90	5990	84			2 Hr
2.	4" x 1.750			760	15.00	90	5382	87			2 "
3.	4" x 1.750			755	22.00	88	4805	81			2 "
4.	4" x 1.750			755	38.00	75	3240	82			2 "

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd
1	14.93	68.11	773.2	.9723	1.243	1.064	1308
2	14.93	107.69	773.2	.9723	1.243	1.064	2068
3	14.93	130.00	768.2	.9741	1.243	1.066	2505
4	14.93	170.86	768.2	.9859	1.243	1.070	3345

NO.	P <sub>f</sub>	Temp. °R	T <sub>f</sub>	Z	Gas Liquid Hydrocarbon Ratio _____ 9.5 _____ Mcf/bbl.
1	1.15	550	1.48	.883	A.P.I. Gravity of Liquid Hydrocarbons _____ 54.0 @ 60° _____ Deg.
2	1.15	550	1.48	.883	Specific Gravity Separator Gas _____ .647 _____ XXXXXXXXXX
3	1.15	548	1.47	.880	Specific Gravity Flowing Fluid _____ XXXXX _____ .941 G MIX
4	1.15	535	1.44	.873	Critical Pressure _____ 670 _____ P.S.I.A. _____ 661 _____ P.S.I.A.
5					Critical Temperature _____ 372 _____ R _____ 471 _____ R

NO.	P <sub>c</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.275$	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.205$
1	6004.4	36052.2	141898			
2	5403.9	29202.1	21040.5			
3	4836.5	23391.7	26850.9			
4	3294.1	10851.1	39391.5			

NO.	P <sub>c</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.030$
1	6004.4	36052.2	141898		
2	5403.9	29202.1	21040.5		
3	4836.5	23391.7	26850.9		
4	3294.1	10851.1	39391.5		

Absolute Open Flow _____ 4.030 _____ Mcfd @ 15.025	Angle of Slope $\theta$ _____ 52.5 _____	Slope, n _____ .767 _____
Remarks: _____ Made 72.50 BBLs Condensate During Test _____		

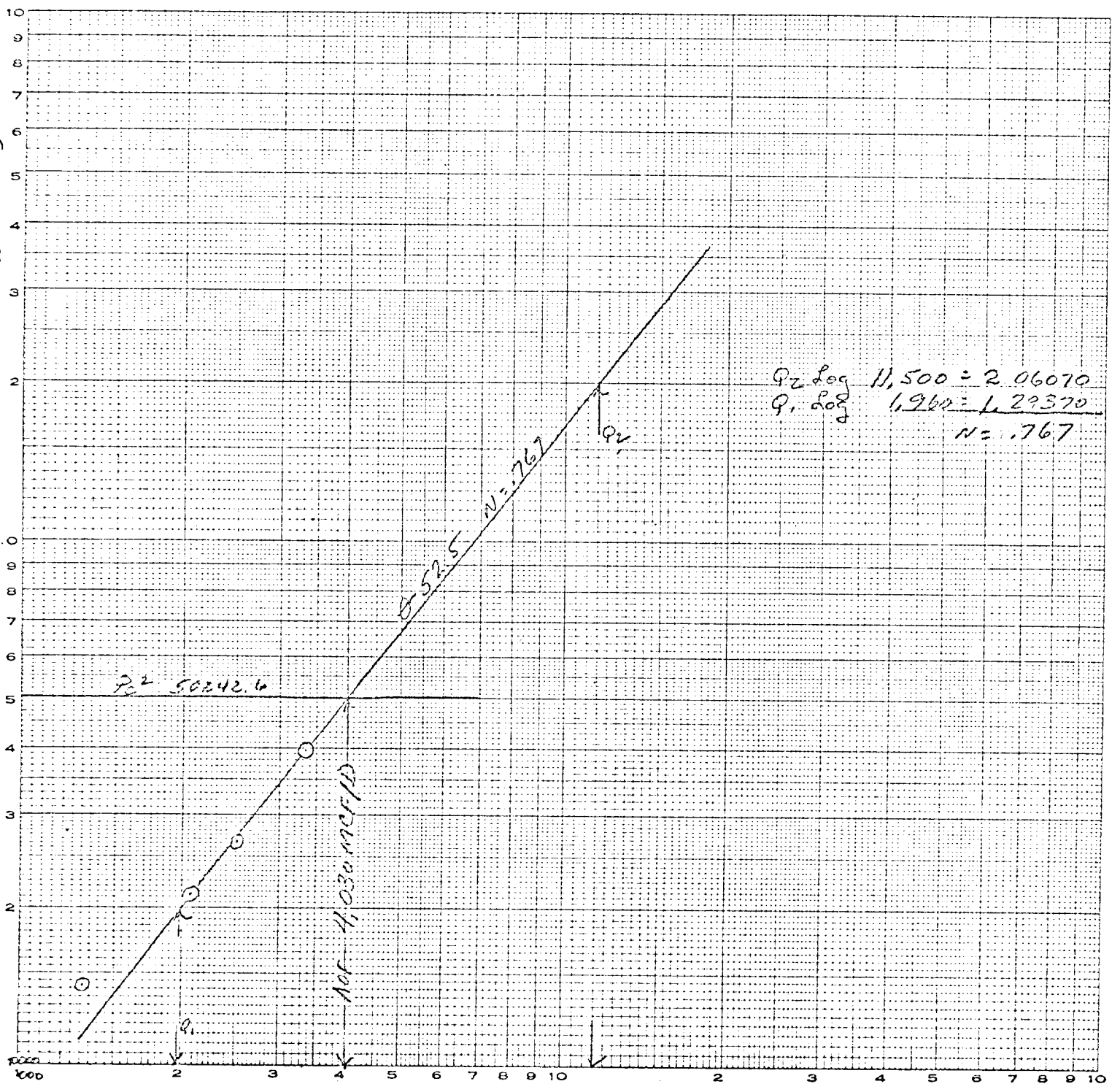
  

Approved By Commission <i>Randy Kiker</i>	Conducted By: Randy Kiker	Calculated By: Randy Kiker	Checked By: Roy K. Valla
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MADE IN U.S.A.

$P_0 - P_2 = (100 \pm)$

LOGARITHMIC  
2 CYCLES X 2 CYCLES



Q MCF/D