

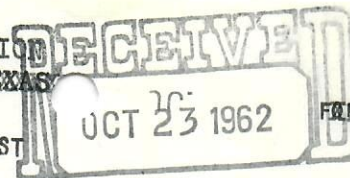


00636335

## COLORADO CONSERVATION COMMISSION

RAILROAD COMMISSION OF TEXAS

## OIL AND GAS DIVISION

MULTI-POINT BACK PRESSURE TEST  
FOR GAS WELL

FORM GWT-10K

Company Horizon Oil & Gas Company Lease Nicodemus OIL & GAS  
 New Well X Retest CONSERVATION COMMISSION No. 1-6-UC  
 Field Unnamed-Waubensee Formation Date of Test July 16, 19 62  
 County Bacca Acres 640  
 Sec. 6 Blk. 34 S Sub. 42 W Loc. None  
 Casing 2-7/8 Wt. 6.5 I.D. Set at 3048 Perf. 2920 To 2928  
 Liner Wt. I.D. Set at Perf. To  
 Tubing Wt. I.D. Set at Perf. To  
 Gas Pay From 2920 To 2928 L 2924 G .770 GL 2251 Barometric 14.4  
 e<sub>s</sub> 1.169 F<sub>d</sub> 6.376 Well Shut In 72 Hours Before Test  
 Size of Prover 2" CFP Size of Meter Run Type of Connection

REMARKS:

## OBSERVED DATA

RUN NO.	SIZE METER RUN OR PROVER ORIFICE	METER PRESSURES			FLOW TEMP	WELLHEAD		DURATION OF FLOW IN HOURS
		STATIC Psig	Pm Psia	DIFFERENTIAL Inches-Roots		WP Psig	Pw Psia	
1	3/32				60	449.0	463.4	
2	1/8				60	440.6	455.0	
3	3/16				60	404.3	418.7	
4	7/32				60	377.3	391.7	
5								

## FLOW CALCULATIONS

RUN NO.	COEFF. "C" (24 HR.)	h <sub>w</sub> P <sub>m</sub>	$\sqrt{h_w P_m}$	WORKING PRESSURE ON PROVER		FLOW TEMP. FACTOR F <sub>tf</sub>	GRAVITY FACTOR F <sub>g</sub>	FLOW RATE Q=M <sup>2</sup> cfd @ 14.65
				Psig	Psia			
1	.1863			449.0	463.4	1.000	.8827	76
2	.3499			440.6	455.0	1.000	.8827	140
3	.8035			404.3	418.7	1.000	.8827	297
4	1.1090			377.3	391.7	1.000	.8827	383
5								

S.I.P. 460.4 PsigBar. 14.4P<sub>c</sub> 474.8 PsiaPRESSURE CALCULATIONS  
(All Squared Pressures In Thousands)

$$P_c^2 \quad 225.44 \quad \times \quad e^s \quad 1.169 \quad = \quad P_f^2 \quad 263.54$$

RUN NO.	P <sub>w</sub> <sup>2</sup>	e <sup>s</sup> P <sub>w</sub> <sup>2</sup>	F <sub>d</sub> Q	F <sup>2</sup>	R <sup>2</sup>	P <sub>s</sub> <sup>2</sup>	P <sub>f</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup>
1	214.74	251.03	.48	.24	.04	251.07	12.47
2	207.03	242.02	.89	.80	.14	242.16	21.38
3	175.31	204.94	1.89	3.43	.58	205.52	58.02
4	153.43	179.36	2.44	5.62	.95	180.31	83.23
5							

Slope of Curve: n = .740Angle of Curve: θ = 53.5Absolute Open Flow: 910 MCF/Day

R. R. COMMISSION:

Company: G. S. ShumardPipe Line: Others:



AFFIDAVIT

STATE OF Texas

COUNTY OF Gray

BEFORE me, the undersigned authority, on this day personally appeared J. A. Thurmond, known to me to be the person whose name is subscribed to this instrument, who, after being by me duly sworn on oath, states that he is employed by or associated with THURMOND-McGLOTHLIN in the capacity of Consultant; that this test was made by affiant or under the supervision of affiant; that this test was made according to the Rules and Regulations of the indicated Field as of this date; that the test data and factual data shown hereon are true and correct; and that no pertinent matter inquired about in said report has been omitted.

J. A. Thurmond

Subscribed and Sworn to before me on this the 17 day of July 19 62

C. Helen Sams

Notary Public in and for

**C. HELEN SAMS**

Gray County, Texas