Pool UNDESIGNATED Formation PENN. County Initial X Annual Special Date of Test Company GREATHOUSE, PIERCE & DAYIS Lease FEDERAL Well No. Unit N Sec. 3 Twp. 20 SOUTH Rge. 34 EAST Purchaser Casing 44 Wt. 13.5 I.D. 3.920 Set at 13,216 Perf. 13,161 To 1 Tubing 2 Wt. 4.70 I.D. 1.995 Set at 13,136 Perf. To Gas Pay: From 13,161 To 13,173 L 13,167 xG .647 _GL 11,140 Bar.Pre Producing Thru: Casing Tubing X Type Well SINGLE Single-Bradenhead-G. G. or G. Reservoir Temp. OBSERVED DATA Tested Through Choke) Thornough Choke Through Company (Choke) Press. Diff. Temp. Press. Temp. Press. Temp. No. (Line) (Orifice) Size psig hw OF, psig OF, psig OF.	1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3
Company GREATHOUSE, PIERCE & DAVIS Lease FEDERAL Well No. Unit N Sec. 3 Twp. 20 SOUTH Rge. 34 EAST Purchaser Casing 44 Wt. 13.5 I.D. 3.920 Set at 13,216 Perf. 13,161 To 1 Tubing 2 Wt. 4.70 I.D. 1.995 Set at 13,150 Perf. To Gas Pay: From 13,161 To 13,173 L 13,167 xG .847 TGL 11,140 Bar.Pre Producing Thru: Casing Tubing X Type Well Single-Bradenhead-G. G. or G Date of Completion: Packer Reservoir Temp. 27 OBSERVED DATA Tested Through Total (Choke) Total Choke) Total Choke Temp. No. (Line) (Orifice) Size Size psig hw OF. psig OF. psig OF.	1-3 23,173 25. 13.2 3AS 3.0. Dual 6*F.
Unit N Sec. 3 Twp. 20 SOUTH Rge. 34 EAST Purchaser Casing 4 Wt. 13.5 I.D. 3.920 Set at 13,216 Perf. 13,161 To 1 Tubing 2 Wt. 4.70 I.D. 1.995 Set at 13,130 Perf. To Gas Pay: From 13,161 To 13,173 L 13,167 xG .847 _GL 11,140 Bar.Pre Producing Thru: Casing Tubing X Type Well Single-Bradenhead-G. G. or G Date of Completion: Packer Reservoir Temp. 27 OBSERVED DATA Tested Through (Choke) Press. Diff. Temp. Press. Temp. Press. Temp. No. (Line) Size Size psig hw OF. psig OF. psig OF. psig OF.	Duration of Flow
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Gas Pay: From 13,161 To 13,173 L 13,167 xG .847 -GL 11,140 Bar.Pre Producing Thru: Casing Tubing X Type Well Single-Bradenhead-G. G. or G Date of Completion: Packer Reservoir Temp. 27 OBSERVED DATA Tested Through (Choke) Tubing Data Casing Data Flow Data Tubing Data Casing Data (Choke) Press. Diff. Temp. Press. Temp. Press. Temp. No. (Line) (Orifice) Size Psig hw OF. psig OF. psig OF. SI	Duration of Flow
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SI 5176 78	Hr.
السباك والمراج والمستوان والمستوال والمراج وال	72 HR. SI
1. 3/16 3477 65	4.0
2. 74/ 1/6 / 2723 69 3. 5/16 2292 71	4.0
	4.0
4. 3/8 1968 72 5. 3/8 2672 72	24,0
FLOW CALCULATIONS	
Coefficient Pressure Flow Temp. Gravity Compress.	
No. $(24-\text{Hour})$ $\sqrt{h_w p_f}$ psia Factor Factor F_{py}	Q-MCFPD @ 15.025 psia
	-
	2690 3634, 3980 39783
~*	3263 532 1/2 1
3. 2.0930	66566614
5. 3.0300 2085 .9887 # 1.253	7100 7000 6
PRESSURE CALCULATIONS	
as Liquid Hydrocarbon Ratio 17,130 cf/bbl. Specific Gravity Sepa	rator Gas.750
ravity of Liquid Hydrocarbons deg. Specific Gravity Flow	ring Fluid
C	26,812
,533	
$P_{\mathbf{W}}$	
No. $P_1 = P_2 = P_3 = P_4 = P_5 = $	1. P _w
Pt (psia) (1-e-s) W P	Pw Pc 78.5
1. 3496.3 13,100 25.377 644 366.5 330 12,438 p.sc 14,492 1932 3529 2. 3736.3 7,486 36.000 1439 019.0 36 6,403 332 10,543 1846 2099	3544.0
2. SSLV 3522 1544C	28819 91.2
), [AFTER [σ_{a}] σ_{b} σ_{c} σ_{c} σ_{c}] σ_{c}	5481: 6 34.3
5. 2005.0 4,347 76.400 4960 2025.0 6,872 A36 20,034 49 12 2621	6 30.6
Absolute Porential: 9,000 MCFPD: n 1.000	
COMPANY GREATHOUSE, PIERCE & DAVIS	
ADDRESS AGENT and TITLE P.E. JACOBS GAS ENGINEER	
AGENT and TITLE P.E. JACOBS CAS ENGINEER WITNESSED	
COMPANY WEST ENSINEERING COMPANY	
REMARKS GASING PRESSURE NOT OBTAINED, NO PRESSURE CONNECTION	

NO, 1 BPT DID NOT CONNECT IN STRAIGHT LINE (SEE 4 POINTS ON PLOT)

NO. 2 BPT, 1 POINT OF 24 HOUR DURATION

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_W). MCF/da. @ 15.025 psia and 60° F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- P_w Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{w}}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.