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GALLAGHER 1-8

**GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG**

1. FIELD NAME (as per RRC Records or Wildcat) _____ 2. LEASE NAME
COLUMBIA COUNTY

3. OPERATOR
Reichhold Energy

4. ADDRESS _____

5. LOCATION (Section, Block, and Survey) _____ 5b. Distance and Direction from nearest town in this county. _____

6. If Operator has changed within last 60 days - Give former Operator. _____

7. RRC District _____

8. RRC Identification Number _____

9. Well Number
4

10. County
Columbia

11. Purpose of Test
Initial Potential Retest Reclass

12. If Workover or Reclass, give former Field (with Reservoir) & Gas ID or Oil Lease #. _____

13. Pipe Line Connection _____

14. Completion or Recompletion Date _____

15. List of Offset Operators Notified and Date of Notification _____

Any Condensate on hand at time of Workover or Recompletion? Yes No

16. Type of Electric or other Log Run: _____

**Section I
GAS MEASUREMENT DATA**

Date of Test: _____ Gas Measurement Method (Check One)
 Orifice Meter Positive Choke Orifice Vent Meter Pilot Tube Critical-flow Prover

Run No.	Line Size	Orifice or Choke Size	24 Hr. Coeff. Orif. or Choke	Static P _m or Choke Press	Diff. h _w	Flow Temp. °F	Temp. Factor F _{tt}	Gravity Factor F _g	Compress. Factor F _{pv}	Volume MCF/DAY
1	2"	1/16	0.0846	967.9	-	65	0.9952	1.0445	1.072	91
2	2"	3/32	0.1863	941.9	-	62	0.9981	1.0445	1.072	196
3	2"	1/8	0.3499	909.4	-	63	0.9971	1.0445	1.063	352
4	2"	7/32	1.1090	733.9	-	61	0.9990	1.0445	1.057	814

**Section II
FIELD DATA AND PRESSURE CALCULATIONS**

Gravity (Dry Gas) _____ Gravity Liquid Hydrocarbon _____ Deg. API _____

Gas-Liquid Hydro Ratio _____ CF/Bbl _____ Gravity of Mixture G_{mix} = _____

Avg. Shut-In Temp. °F _____ Bottom Hole Temp. °F @ (Depth) _____

6.98 or 7.12 MATCH
8/3 CHANT BHP

$C = \frac{1118 \cdot (D_{oh})^{8/3}}{\sqrt{T}}$ $\frac{\sqrt{GL}}{C} =$ _____

Run No.	Time of Run Min.	Choke Size	Casing Wellhead Press P _w PSIA	Wellhead Flow Temp. °F	P _w ² (Thousands)	R	R ² (Thousands)	P ₁	P _w /P ₁
1	30	1/16	970.4	65		0	0	970.4	0
2	30	3/32	954.9	62		0	0	954.9	0
3	30	1/8	896.4	63		0	0	896.4	0
4	30	7/32	725.9	61		0	0	725.9	0

Run No.	F	K	S = 1/2	E ^{1/2}	P ₁ and P ₂	F ₁ ² and P ₂ ²	P ₁ ² - P ₂ ²	Angle of Slope
1	1.0000	0.05622	1.2415	1.0723	1040.6	1082.8		θ = 50 n = .839 Absolute Open Flow 1,600 MCF/DAY
2	1.0000	0.05622	1.2372	1.0720	1023.7	1047.9	34.9	
3	1.0000	0.05622	1.2310	1.0717	996.0	992.0	90.8	
4	1.0000	0.05622	1.2207	1.0710	960.1	921.8	161.0	

An inclination survey has been run in accordance with Statewide Rule 11 and the results are available upon request. Maximum horizontal displacement was _____ feet at a measured depth of _____ feet.

Signature of Authorized Representative _____ Name of Company Conducting Survey _____
 I have knowledge that the cementing operations, as reflected by the information found on the reverse side of this form, were performed as indicated by such information.

Signature of Operator or Authorized Representative _____ Name of Cementing Company _____

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**GAS WELL
BACK PRESSURE CURVE**

Company Reichhold Energy Well No. 4
 Lease Name Columbia County
 Date 9-11-79
 Angle of Curve 50 Slope of Curve n .839
 Absolute Open Flow 1,600 MCF/Day

