

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Computer inventoried Drill-Stem Test Data

Well Name REXROAT #2 Test No. 1 Date 8/8/92
Company HALLWOOD PETROLEUM INC. Zone ARBUCKLE
Address P.O. BOX 378111 DENVER CO 80237 Elevation 1858
Co. Rep./Geo. JIM MUSGROVE Cont. DUKE RIG #4 Est. Ft. of Pay 4
Location: Sec. 14 Twp. 17S Rge. 13W Co. BARTON State KS

Interval Tested 3316-3355
Anchor Length 39
Top Packer Depth 3311
Bottom Packer Depth 3316
Total Depth 3355

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run 256
Drill Collar - 2.25 Ft. Run
Mud Wt. 9.3 lb/Gal.
Viscosity 44 Filtrate 8.5

Tool Open @ 2:47 PM Initial Blow 1/2" BLOW BUILDING TO BOTTOM OF BUCKET IN 11 MINUTES

Final Blow SURFACE BLOW BUILDING TO BOTTOM OF BUCKET IN 16 MINUTES

Recovery - Total Feet 540

Flush Tool? **NO RECEIVED**
KANSAS CORPORATION COMMISSION

Rec. 30 Feet of GAS IN PIPE
Rec. 270 Feet of CLEAN GASSY OIL-10%GAS/90%OIL
Rec. 270 Feet of MUD CUT GASSY OIL-70%OIL/30%MUD
Rec. Feet of
Rec. Feet of

OCT 6 1992
CONSERVATION DIVISION
WICHITA, KS

BHT 97 °F Gravity 40 °API @ 90 °F Corrected Gravity 37 °API
RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud 1711.3 PSI AK1 Recorder No. 24174 Range 3975

(B) First Initial Flow Pressure 31.2 PSI @ (depth) 3319 w / Clock No. 8179

(C) First Final Flow Pressure 116.9 PSI AK1 Recorder No. 22150 Range 3050

(D) Initial Shut-in Pressure 850.7 PSI @ (depth) 3354 w / Clock No. 27573

(E) Second Initial Flow Pressure 146.3 PSI AK1 Recorder No. Range

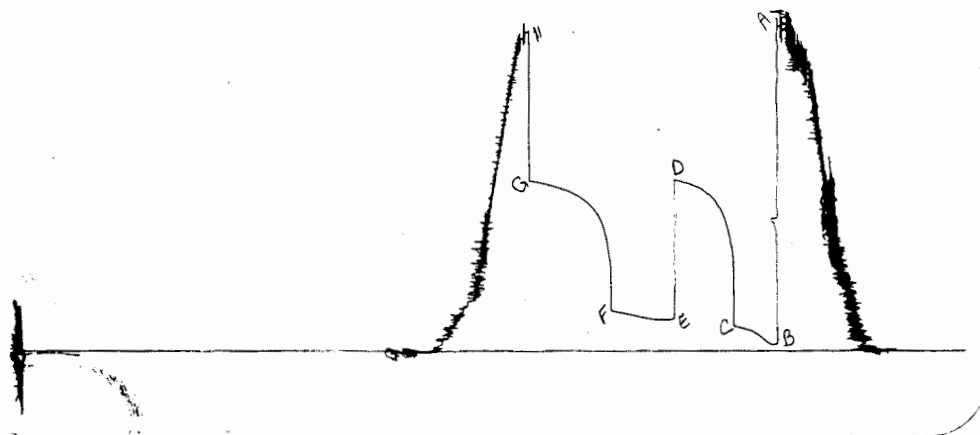
(F) Second Final Flow Pressure 190.9 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 849.6 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1610.3 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

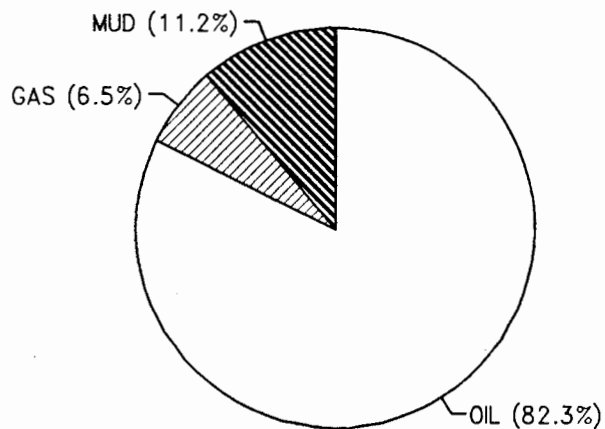
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1705	1711.3
(B) FIRST INITIAL FLOW PRESSURE	29	31.2
(C) FIRST FINAL FLOW PRESSURE	115	116.9
(D) INITIAL CLOSED-IN PRESSURE	847	850.7
(E) SECOND INITIAL FLOW PRESSURE	144	146.3
(F) SECOND FINAL FLOW PRESSURE	191	190.9
(G) FINAL CLOSED-IN PRESSURE	847	849.6
(H) FINAL HYDROSTATIC MUD	1616	1610.3

CALCULATED RECOVERY ANALYSIS

DST # 1 TICKET # 5150

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
DRILL 1	270	10	27	90	243	0	0	0	0
PIPE 2	14	0	0	70	9.8	0	0	30	4.2
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1	256	0	0	70	179.2	0	0	30	76.8
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1			0		0		0		0
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	540		27		432		0		81

BBL OIL= 4.849216 * HRS OPEN 1.25 BBL/DAY 93.104947
 BBL WATER= 0 *
 BBL MUD= 0.658764
 BBL GAS = 0.38394



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

NE 5150

Well Name & No. <u>Rexroat #2</u>	Test No. <u>1</u>	Date <u>8-8-92</u>
Company <u>Hallwood Petroleum Inc</u>	Zone Tested <u>Ar buckle</u>	
Address <u>P.O. Box 378111 Denver CO 80233</u>	Elevation <u>1858</u>	
Co. Rep./Geo. <u>Jim Musgrove</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay <u>11</u>
Location: Sec. <u>14</u> Twp. <u>17S</u> Rge. <u>13W</u>	Co. <u>Benton</u>	State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes ☒ No ☐ Turnkey _____
		Yes _____ No _____ Evaluation _____

Interval Tested <u>3316-3355</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>39</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3311</u>	Hole Size — 77/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3316</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>256</u>
Total Depth <u>3355</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.3</u> lb/gal.	Viscosity <u>44</u> Filtrate <u>8.5</u>
Tool Open @ <u>247PM</u>	Initial Blow <u>1/2" blow building to bottom of bucket in 11 minutes</u>
Final Blow <u>Surface blow building to bottom of bucket in 16 minutes</u>	

Recovery — Total Feet <u>540</u>	Feet of Gas in Pipe <u>30</u>	Flush Tool? _____
Rec. <u>270</u> Feet Of <u>cl gassy oil</u>	<u>10</u> %gas <u>90</u> %Oil	%water _____ %mud _____
Rec. <u>270</u> Feet Of <u>mud cut gassy oil</u>	%gas <u>70</u> %Oil	%water <u>30</u> %mud _____
Rec. _____ Feet Of _____	%gas _____ %Oil	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %Oil	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %Oil	%water _____ %mud _____
BHT <u>57</u> °F Gravity <u>40</u>	°API @ <u>90</u>	°F Corrected Gravity <u>37</u> °API _____
RW _____ @ _____ °F	Chlorides _____ ppm Recovery _____	Chlorides _____ ppm System _____
(A) Initial Hydrostatic Mud <u>1705</u>	PSI AK1 Recorder No. <u>24174</u>	Range <u>3925</u>
(B) First Initial Flow Pressure <u>29</u>	PSI @ (depth) <u>3319</u>	w/Clock No. <u>8179</u>
(C) First Final Flow Pressure <u>115</u>	PSI AK1 Recorder No. <u>22150</u>	Range <u>3050</u>
(D) Initial Shut-In Pressure <u>847</u>	PSI @ (depth) <u>3354</u>	w/Clock No. <u>27373</u>
(E) Second Initial Flow Pressure <u>144</u>	PSI AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>191</u>	PSI @ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>847</u>	PSI Initial Opening <u>30</u>	Test <u>X</u>
(H) Final Hydrostatic Mud <u>1616</u>	PSI Initial Shut-In <u>45</u>	Jars _____

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Approved By _____

Our Representative _____

Printcraft Printers - Hays, KS

Final Flow 45
 Final Shut-In 60
 Safety Joint X
 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 600.00

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name REXROAT #2 Test No. 2 Date 8/9/92
Company HALLWOOD PETROLEUM INC. Zone ARBUCKLE
Address P.O. BOX 378111 DENVER CO 80237 Elevation 1858
Co. Rep./Geo. JIM MUSGROVE Cont. DUKE RIG #4 Est. Ft. of Pay _____
Location: Sec. 14 Twp. 17S Rge. 13W Co. BARTON State KS

Interval Tested <u>3364-3375</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>11</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>256</u>
Top Packer Depth <u>3359</u>	Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth <u>3364</u>	Mud Wt. <u>9</u> lb/Gal.
Total Depth <u>3375</u>	Viscosity <u>43</u> Filtrate <u>9</u>

Tool Open @ 1:50 AM Initial Blow 1" BLOW BUILDING TO BOTTOM OF BUCKET IN 4 MINUTES

Final Blow SURFACE BLOW BUILDING TO BOTTOM OF BUCKET IN 7 MINUTES

Recovery - Total Feet 1005 Flush Tool? NO

Rec. <u>5</u>	Feet of <u>CLEAN OIL</u>
Rec. <u>250</u>	Feet of <u>SLTLY OIL CUT WATER-10%OIL/90%WTR</u>
Rec. <u>750</u>	Feet of <u>WATER</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT N/A °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.45 @ _____ °F Chlorides 15000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1711.3 PSI AK1 Recorder No. 22150 Range 3975

(B) First Initial Flow Pressure 66.3 PSI @ (depth) 3366 w / Clock No. 27573

(C) First Final Flow Pressure 277.3 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1125.6 PSI @ (depth) 3374 w / Clock No. 27501

(E) Second Initial Flow Pressure 310.2 PSI AK1 Recorder No. _____ Range _____

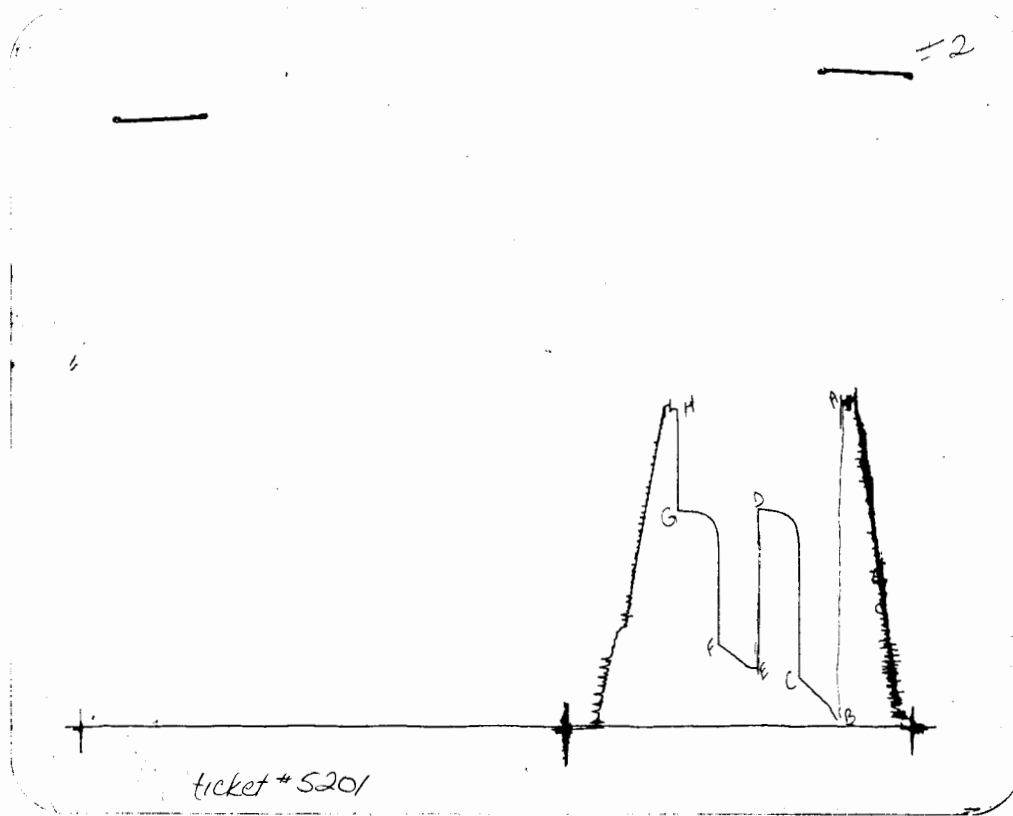
(F) Second Final Flow Pressure 436.7 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1116.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1670.3 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1704	1711.3
(B) FIRST INITIAL FLOW PRESSURE	67	66.3
(C) FIRST FINAL FLOW PRESSURE	270	277.3
(D) INITIAL CLOSED-IN PRESSURE	1122	1125.6
(E) SECOND INITIAL FLOW PRESSURE	308	310.2
(F) SECOND FINAL FLOW PRESSURE	438	436.7
(G) FINAL CLOSED-IN PRESSURE	1114	1116.9
(H) FINAL HYDROSTATIC MUD	1666	1670.3

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Test Ticket

No 5201

Well Name & No. <u>Rexroat #2</u>	Test No. <u>2</u>	Date <u>8-9-92</u>
Company <u>Hallwood Petroleum Inc</u>	Zone Tested <u>Arb</u>	
Address _____	Elevation <u>1858 KB</u>	
Co. Rep./Geo. <u>Jim M. Sgrove</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>14</u>	Twp. <u>17s</u>	Rge. <u>13w</u> Co. <u>Borden</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3364-3375</u>	Drill Pipe Size <u>4 1/2 X 14</u>
Anchor Length <u>11</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3359</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3364</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>256</u>
Total Depth <u>3375</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>43</u> Filtrate <u>9.0</u>
Tool Open @ <u>1:50 AM</u>	Initial Blow <u>1" blow building to bottom of bucket in 4 minutes</u>
Final Blow <u>surface blow building to bottom bucket in 7 minutes</u>	

Recovery — Total Feet <u>1005</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>5</u> Feet Of <u>oil</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>250</u> Feet Of <u>SO2W</u>	%gas <u>10</u> %oil <u>90</u> %water _____ %mud _____	
Rec. <u>750</u> Feet Of <u>water</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT _____ °F Gravity _____	°API @ _____ °F Corrected Gravity _____	°API _____
RW <u>45</u> @ <u>75</u> °F	Chlorides <u>15,000</u> ppm Recovery _____	Chlorides _____ ppm System _____
(A) Initial Hydrostatic Mud <u>1704</u>	PSI AK1 Recorder No. <u>22150</u>	Range <u>3975</u>
(B) First Initial Flow Pressure <u>67</u>	PSI @ (depth) <u>3366</u>	w/Clock No. <u>27573</u>
(C) First Final Flow Pressure <u>270</u>	PSI AK1 Recorder No. <u>24174</u>	Range <u>3050</u>
(D) Initial Shut-In Pressure <u>1122</u>	PSI @ (depth) <u>3324</u>	w/Clock No. <u>27501</u>
(E) Second Initial Flow Pressure <u>308</u>	PSI AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>438</u>	PSI @ (depth) <u>30</u>	w/Clock No. _____
(G) Final Shut-In Pressure <u>1114</u>	PSI Initial Opening <u>30</u>	Test _____
(H) Final Hydrostatic Mud <u>1666</u>	PSI Initial Shut-In <u>30</u>	Jars _____

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Final Flow <u>30</u>	Safety Joint _____
Final Shut-In <u>30</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>550.00</u>

Approved By _____

Our Representative Paul Simpson