

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Computer Inventory Drill-Stem Test Data

W 1/2 W 1/2 SW

Well Name ROESNER #19 Test No. 1 Date 3/30/92
Company HALLWOOD PETROLEUM INC. Zone Tested TOPEKA
Address 4582 S ULSTER ST PKWY DENVER CO 80237 Elevation 1878 K.B.
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN DRLG #3 Est. Ft. of Pay _____
Location: Sec. 9 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested 2880-2940
Anchor Length 60
Top Packer Depth 2875
Bottom Packer Depth 2880
Total Depth 2940

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run _____

Mud Wt. 9.3 lb / gal. Viscosity 43 Filtrate 12.4

Tool Open @ 3:05 AM Initial Blow WEAK-BUILDING TO A 1/2"

Final Blow WEAK-BUILDING TO 2"
(HIT BRIDGE AT 2025-DRILLER TRAPPED HYDRO-STATIC FSI)

Recovery — Total Feet 60 Flush Tool? NO

Rec. 60 Feet of SLTLY OIL CUT MUD-4%OIL/96% MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 99 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 1560.4 PSI Ak1 Recorder No. 7437 Range 4200

(B) First Initial Flow Pressure 71.2 PSI @ (depth) 2884 w/Clock No. 8179

(C) First Final Flow Pressure 71.2 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 690.3 PSI @ (depth) 2936 w/Clock No. 31152

(E) Second Initial Flow Pressure 80.4 PSI AK1 Recorder No. _____ Range _____

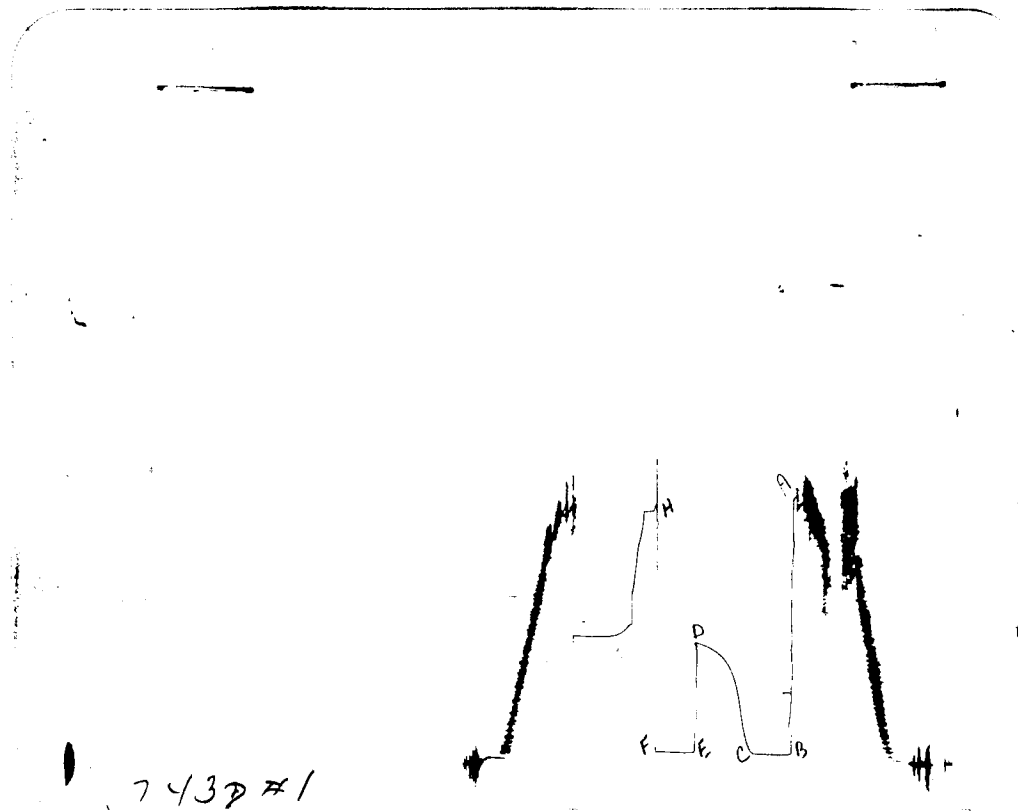
(F) Second Final Flow Pressure 80.4 PSI @ (depth) _____ w/Clock No. _____

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

(H) Final Hydrostatic Mud 1450.9 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative DAN BANGLE

TOTAL PRICE \$ 600



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1558	1560.4
(B) FIRST INITIAL FLOW PRESSURE	66	71.2
(C) FIRST FINAL FLOW PRESSURE	66	71.2
(D) INITIAL CLOSED-IN PRESSURE	687	690.3
(E) SECOND INITIAL FLOW PRESSURE	77	80.4
(F) SECOND FINAL FLOW PRESSURE	77	80.4
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	1449	1450.9

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4889

Well Name & No. <u>Roesner #19</u>	Test No. <u>1</u>	Date <u>3-30-92</u>
Company <u>Hallwood Petro. Inc.</u>	Zone Tested <u>Topeka</u>	
Address <u>4582 S. Ulster St. Pkwy, Denver, Colo 80297</u>		Elevation _____
Co. Rep./Geo. <u>Jim Musgrove</u>	Cont. <u>Allen #3</u>	Est. Ft. of Pay _____
Location: Sec. <u>9</u>	Twp. <u>15</u>	Rge. <u>13</u> Co. <u>Russell</u> State <u>Ks.</u>
No. of Copies <u>5</u>	Distribution Sheet _____	Yes ☒ No ☐ Turnkey _____
		Yes ☒ No ☐ Evaluation _____

Interval Tested <u>2880 - 2940</u>	Drill Pipe Size <u>4.5 X 14</u>
Anchor Length <u>60</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>2875</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>2880</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>2940</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.3</u> lb/gal.	Viscosity <u>4.3</u> Filtrate <u>12.4</u>
Tool Open @ <u>3:05 A.M.</u> Initial Blow <u>Weak- building to 1/2"</u>	

Final Blow Weak- building to 2"
(Hit bridge at 2025) (Driller Trapped hydro-static FST)

Recovery — Total Feet <u>66</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>60</u> Feet Of <u>5 11/4 O.C.M.</u>	%gas <u>4</u> %oil _____ %water <u>96</u> %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 99 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8,000 ppm System

(A) Initial Hydrostatic Mud <u>1558</u>	PSI	AK1 Recorder No. <u>7437</u>	Range <u>4200</u>
(B) First Initial Flow Pressure <u>66</u>	PSI	@ (depth) <u>2884</u>	w/Clock No. <u>8179</u>
(C) First Final Flow Pressure <u>66</u>	PSI	AK1 Recorder No. <u>13849</u>	Range <u>4375</u>
(D) Initial Shut-In Pressure <u>687</u>	PSI	@ (depth) <u>2936</u>	w/Clock No. <u>31152</u>
(E) Second Initial Flow Pressure <u>77</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>77</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>-</u>	PSI	Initial Opening <u>30</u>	Test <u>550.00</u>
(H) Final Hydrostatic Mud <u>1449</u>	PSI	Initial Shut-In <u>45</u>	Jars _____

TRILOBITE TESTING COMPANY SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUBSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow <u>30</u>	Safety Joint <u>X</u>
Final Shut-In <u>60</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____

Approved By _____

Our Representative Dan Banerle

TRILOBITE TESTING COMPANY , L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name ROESNER #19 Test No. 2 Date 3/30/92
Company HALLWOOD PETROLEUM INC. Zone Tested TORONTO
Address 4582 S ULSTER ST PKWY DENVER CO 80237 Elevation 1878 K.B.
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN DRLG #3 Est. Ft. of Pay _____
Location: Sec. 9 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested 2970-3004 Drill Pipe Size 4.5 XH
Anchor Length 34 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 2965 Drill Collar — 2.25 Ft. Run _____
Bottom Packer Depth 2970
Total Depth 3004

Mud Wt. 9.1 lb / gal. Viscosity 44 Filtrate 12.4

Tool Open @ 3:35 PM Initial Blow WEAK-DIED IN 20 MINUTES

Final Blow NO BLOW

Recovery — Total Feet 5 Flush Tool? NO

Rec. 5 Feet of DRILLING MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 101 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 1549.8 PSI Ak1 Recorder No. 7437 Range 4200

(B) First Initial Flow Pressure 35.6 PSI @ (depth) 2974 w/Clock No. 8179

(C) First Final Flow Pressure 35.6 PSI Ak1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 269.7 PSI @ (depth) 3000 w/Clock No. 31152

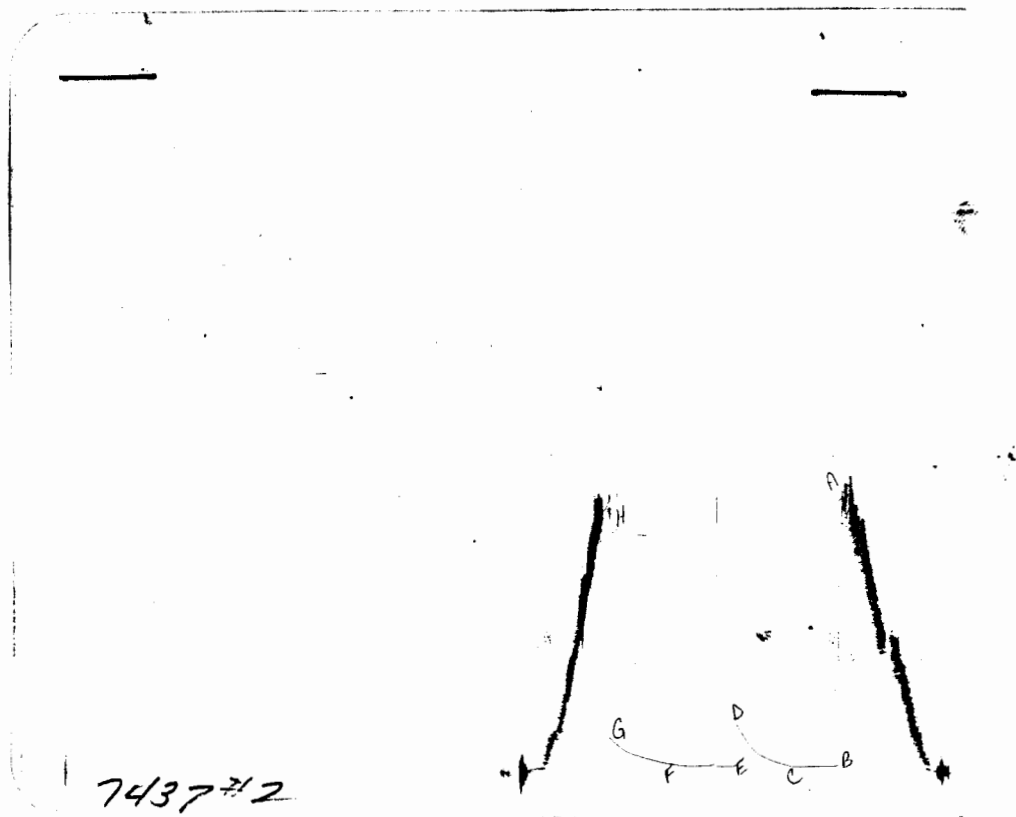
(E) Second Initial Flow Pressure 43.8 PSI Ak1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 43.8 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 181.4 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1520.7 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative DAN BANGLE TOTAL PRICE \$ 600



POINT This is an actual photograph of recorder chart
PRESSURE

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	1547	1549.8
(B) FIRST INITIAL FLOW PRESSURE	33	35.6
(C) FIRST FINAL FLOW PRESSURE	33	35.6
(D) INITIAL CLOSED-IN PRESSURE	266	269.7
(E) SECOND INITIAL FLOW PRESSURE	44	43.8
(F) SECOND FINAL FLOW PRESSURE	44	43.8
(G) FINAL CLOSED-IN PRESSURE	177	181.4
(H) FINAL HYDROSTATIC MUD	1515	1520.7

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4890

Well Name & No. <u>Roesner #19</u>	Test No. <u>2</u>	Date <u>3-30-92</u>
Company <u>Hallwood Petro. Inc</u>	Zone Tested <u>Tecoma</u>	
Address _____	Elevation <u>1878 K.B.</u>	
Co. Rep./Geo. <u>Jim Musgrove</u> cont. <u>Allen #3</u>	Est. Ft. of Pay _____	
Location: Sec. <u>9</u> Twp. <u>15</u> Rge. <u>13</u> Co. <u>Russell</u> State <u>Ks.</u>		
No. of Copies <u>5</u> Distribution Sheet _____ Yes <u>X</u> No _____ Turnkey _____ Yes <u>X</u> No _____ Evaluation _____		

Interval Tested <u>2970 - 3004</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>34</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>2965</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>2970</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3004</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>44</u> Filtrate <u>12.4</u>
Tool Open @ <u>3:35 P.M.</u> Initial Blow <u>Weak - Dried in 20 min.</u>	

Final Blow No blow.

Recovery — Total Feet <u>5</u>	Feet of Gas in Pipe _____	Flush Tool? <u>X</u>
Rec. <u>5</u> Feet Of <u>D-M.</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 101 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8,000 ppm System

(A) Initial Hydrostatic Mud <u>1547</u> PSI	AK1 Recorder No. <u>7437</u> Range <u>4200</u>
(B) First Initial Flow Pressure <u>33</u> PSI	@ (depth) <u>2974</u> w/Clock No. <u>8179</u>
(C) First Final Flow Pressure <u>33</u> PSI	AK1 Recorder No. <u>13849</u> Range <u>4375</u>
(D) Initial Shut-In Pressure <u>266</u> PSI	@ (depth) <u>3000</u> w/Clock No. <u>31152</u>
(E) Second Initial Flow Pressure <u>44</u> PSI	AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure <u>44</u> PSI	@ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure <u>177</u> PSI	Initial Opening <u>30</u> Test <u>550.00</u>
(H) Final Hydrostatic Mud <u>1515</u> PSI	Initial Shut-In <u>45</u> Jars _____

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Final Flow 30 Safety Joint X
 Final Shut-In 60 Straddle _____
 Circ. Sub _____
 Sampler _____

Approved By _____

Our Representative Dan Bonfigli

Extra Packer _____

Other _____

TOTAL PRICE \$ 100.00

TRILOBITE TESTING COMPANY , L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name ROESNER #19 Test No. 3 Date 3/31/92
Company HALLWOOD PETROLEUM INC. Zone Tested KS CITY
Address 4582 S ULSTER ST PKWY DENVER CO 80237 Elevation 1878 K.B.
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN DRLG #3 Est. Ft. of Pay _____
Location: Sec. 9 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested 3048-3085
Anchor Length 37
Top Packer Depth 3043
Bottom Packer Depth 3048
Total Depth 3085

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run _____

Mud Wt. 9.4 lb / gal. Viscosity 45 Filtrate 12.4

Tool Open @ 3:25 AM Initial Blow STRONG-OFF BOTTOM OF BUCKET IN 3 MINUTES

Final Blow STRONG-OFF BOTTOM OF BUCKET IN 2.5 MINUTES

Recovery — Total Feet 1469 Flush Tool? NO

Rec. 5 Feet of CLEAN OIL

Rec. 1464 Feet of SLTLY OIL CUT SALT WATER

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 104 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 0.46 @ 82 °F Chlorides 46000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 1610.9 PSI Ak1 Recorder No. 7437 Range 4200

(B) First Initial Flow Pressure 90.4 PSI @ (depth) 3052 w/Clock No. 8179

(C) First Final Flow Pressure 335.8 PSI Ak1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1120.4 PSI @ (depth) 3081 w/Clock No. 31152

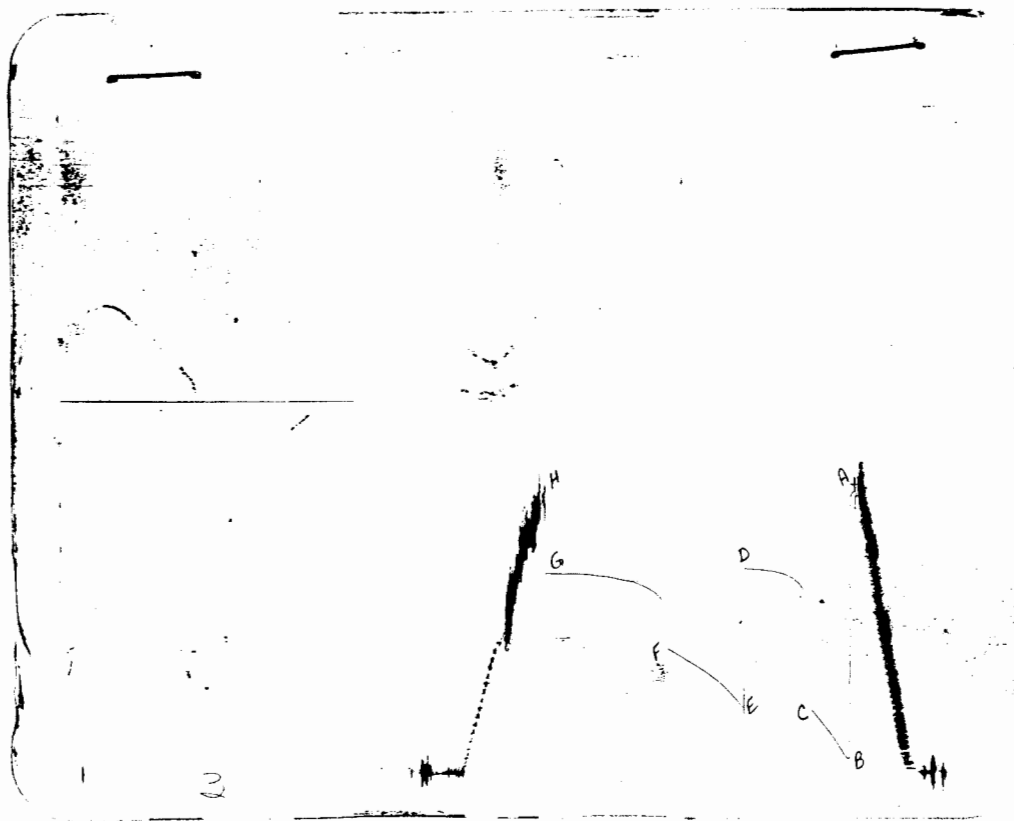
(E) Second Initial Flow Pressure 379.2 PSI Ak1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 690.3 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 1111.9 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1530.8 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative DAN BANGLE TOTAL PRICE \$ 600



POINT This is an actual photograph of recorder chart
PRESSURE

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	1602	1610.9
(B) FIRST INITIAL FLOW PRESSURE	88	90.4
(C) FIRST FINAL FLOW PRESSURE	333	335.8
(D) INITIAL CLOSED-IN PRESSURE	1117	1120.4
(E) SECOND INITIAL FLOW PRESSURE	377	379.2
(F) SECOND FINAL FLOW PRESSURE	687	690.3
(G) FINAL CLOSED-IN PRESSURE	1106	1111.9
(H) FINAL HYDROSTATIC MUD	1526	1530.8

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4891

Well Name & No. <u>Roesner #19</u>	Test No. <u>3</u>	Date <u>3-21-92</u>
Company <u>Hallwood Petro. Inc.</u>	Zone Tested <u>K.C.</u>	
Address _____	Elevation <u>1878 K.B.</u>	
Co. Rep./Geo. <u>Jim Musgrove</u>	Cont. <u>Allen #3</u>	Est. Ft. of Pay _____
Location: Sec. <u>9</u>	Twp. <u>15</u>	Rge. <u>13</u>
Co. <u>Russell</u>	State <u>Ks.</u>	
No. of Copies <u>5</u>	Distribution Sheet _____	Yes <u>X</u> No _____ Turnkey _____
	Yes <u>X</u> No _____	Evaluation _____

Interval Tested <u>3048-3085</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>37</u>	Top Choke — 1" _____ Bottom Choke — 1/4" _____
Top Packer Depth <u>3043</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3048</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3085</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.4</u> lb/gal.	Viscosity <u>45</u> Filtrate <u>12.4</u>
Tool Open @ <u>3:25 A.M.</u> Initial Blow <u>Strong - off bottom of bucket in 3 min.</u>	
Final Blow <u>Strong - off bottom of bucket in 2 1/2 min.</u>	

Recovery — Total Feet _____	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>5</u> Feet Of <u>C.O</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>1464</u> Feet Of <u>S.W 517/40.C.</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT <u>104</u> °F	Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW <u>.46</u> @ <u>82</u> °F	Chlorides <u>46,000</u> ppm	Recovery _____	Chlorides <u>8,000</u> ppm	System _____
(A) Initial Hydrostatic Mud <u>1602</u>	PSI	Ak1 Recorder No. <u>3437</u>	Range <u>4200</u>	
(B) First Initial Flow Pressure <u>88</u>	PSI	@ (depth) <u>3052</u>	w/Clock No. <u>8179</u>	
(C) First Final Flow Pressure <u>333</u>	PSI	Ak1 Recorder No. <u>13849</u>	Range <u>4375</u>	
(D) Initial Shut-In Pressure <u>1117</u>	PSI	@ (depth) <u>3081</u>	w/Clock No. <u>31152</u>	
(E) Second Initial Flow Pressure <u>377</u>	PSI	Ak1 Recorder No. _____	Range _____	
(F) Second Final Flow Pressure <u>687</u>	PSI	@ (depth) _____	w/Clock No. _____	
(G) Final Shut-In Pressure <u>1106</u>	PSI	Initial Opening <u>30</u>	Test <u>550.00</u>	
(H) Final Hydrostatic Mud <u>1526</u>	PSI	Initial Shut-In <u>45</u>	Jars _____	

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Final Flow <u>60</u>	Safety Joint <u>X</u> <u>50.00</u>
Final Shut-In <u>90</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>100.00</u>

Approved By _____

Our Representative Dan Banfle

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name ROESNER #19 Test No. 4 Date 3/31/92
Company HALLWOOD PETROLEUM INC. Zone Tested LKC-"F-G"
Address 4582 S ULSTER ST PKWY DENVER CO 80237 Elevation 1878 K.B.
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN DRLG #3 Est. Ft. of Pay _____
Location: Sec. 9 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested 3111-3153
Anchor Length 42
Top Packer Depth 3106
Bottom Packer Depth 3111
Total Depth 3153

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run _____

Mud Wt. 9.1 lb / gal. Viscosity 53 Filtrate 13.2

Tool Open @ 6:15 PM Initial Blow WEAK-BUILDING TO 3"

Final Blow WEAK-BUILDING TO 1"

Recovery — Total Feet 130 Flush Tool? NO

Rec. 130 Feet of DRILLING MUD-NO SHOW

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 104 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 42000 ppm System

(A) Initial Hydrostatic Mud 1660.9 PSI Ak1 Recorder No. 7437 Range 4200

(B) First Initial Flow Pressure 35.6 PSI @ (depth) 3115 w/Clock No. 8179

(C) First Final Flow Pressure 43.8 PSI Ak1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 615.8 PSI @ (depth) 3148 w/Clock No. 31152

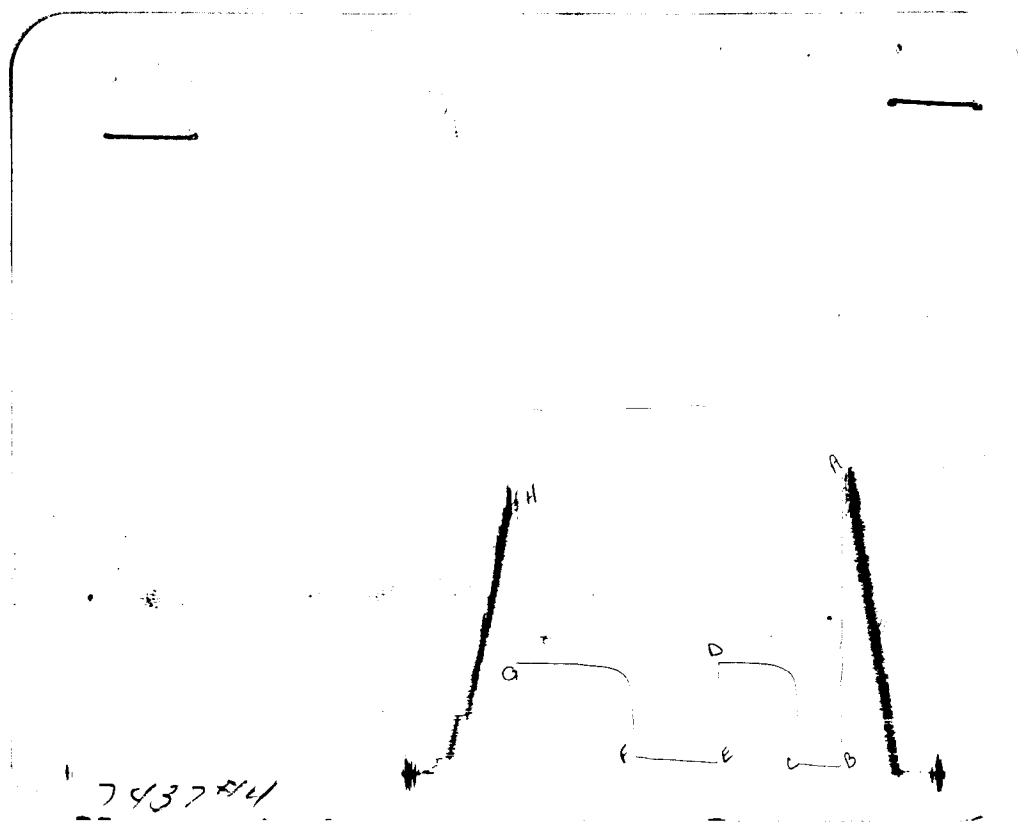
(E) Second Initial Flow Pressure 71.2 PSI Ak1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 90.4 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 615.8 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1548.7 PSI Initial Shut-In 60 Final Shut-In 90

Our Representative DAN BANGLE TOTAL PRICE \$ 600



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1656	1660.9
(B) FIRST INITIAL FLOW PRESSURE	33	35.6
(C) FIRST FINAL FLOW PRESSURE	44	43.8
(D) INITIAL CLOSED-IN PRESSURE	610	615.8
(E) SECOND INITIAL FLOW PRESSURE	66	71.2
(F) SECOND FINAL FLOW PRESSURE	88	90.4
(G) FINAL CLOSED-IN PRESSURE	610	615.8
(H) FINAL HYDROSTATIC MUD	1547	1548.7

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4892

Well Name & No. <u>Roesner #19</u>	Test No. <u>4</u>	Date <u>3-31-92</u>
Company <u>Hallwood Petro. Inc.</u>	Zone Tested <u>F-G</u>	<u>L.K.C.</u>
Address _____	Elevation <u>1878 K.B</u>	
Co. Rep./Geo. <u>Jim Musgrove</u>	Cont. <u>Allen #3</u>	Est. Ft. of Pay _____
Location: Sec. <u>9</u>	Twp. <u>15</u>	Rge. <u>13</u>
Co. <u>Russell</u>	State <u>Ks.</u>	
No. of Copies <u>5</u>	Distribution Sheet _____	Yes <u>X</u> No _____
Turnkey _____	Yes <u>X</u> No _____	Evaluation _____

Interval Tested <u>3111 - 3153</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>42</u>	Top Choke — 1" _____ Bottom Choke — ¾" _____
Top Packer Depth <u>3106</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>3111</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3153</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>53</u> Filtrate <u>13.2</u>
Tool Open @ <u>6:15 P.M.</u> Initial Blow <u>Weak- building To 3"</u>	

Final Blow Weak- building To 1"

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>130</u>		
Rec. <u>130</u> Feet Of <u>D.M. (N.S.)</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 104 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 12,000 ppm System

(A) Initial Hydrostatic Mud <u>1656</u>	PSI	AK1 Recorder No. <u>7437</u>	Range <u>4200</u>
(B) First Initial Flow Pressure <u>33</u>	PSI	@ (depth) <u>3115</u>	w/Clock No. <u>8179</u>
(C) First Final Flow Pressure <u>44</u>	PSI	AK1 Recorder No. <u>13849</u>	Range <u>4375</u>
(D) Initial Shut-In Pressure <u>610</u>	PSI	@ (depth) <u>3148</u>	w/Clock No. <u>31152</u>
(E) Second Initial Flow Pressure <u>66</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>88</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>610</u>	PSI	Initial Opening <u>30</u>	Test <u>550.00</u>
(H) Final Hydrostatic Mud <u>1547</u>	PSI	Initial Shut-In <u>60</u>	Jars _____

TRILOBITE TESTING COMPANY SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUBSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 60 Safety Joint X 50.00
Final Shut-In 90 Straddle _____

Approved By _____

Our Representative Dan Baner

Printcraft Printers - Hays, KS

Circ. Sub _____
Sampler _____
Extra Packer _____
Other _____
TOTAL PRICE \$ 600.00

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name ROESNER #19 Test No. 5 Date 4/1/92
Company HALLWOOD PETROLEUM INC. Zone Tested LKC-"I-J-K"
Address 4582 S ULSTER ST PKWY DENVER CO 80237 Elevation 1878 K.B.
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN DRLG #3 Est. Ft. of Pay _____
Location: Sec. 9 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested 3206-3280
Anchor Length 74
Top Packer Depth 3201
Bottom Packer Depth 3206
Total Depth 3280

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run _____

Mud Wt. 9.1 lb / gal. Viscosity 43 Filtrate 11.2

Tool Open @ 3:40 PM Initial Blow WEAK-BUILDING TO 3/4"

Final Blow WEAK-BUILDING TO 1/2"

Recovery — Total Feet 65 Flush Tool? NO

Rec. 65 Feet of DRILLING MUD W/ OIL SPOTS

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 108 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 11000 ppm System

(A) Initial Hydrostatic Mud 1680.9 PSI Ak1 Recorder No. 7437 Range 4200

(B) First Initial Flow Pressure 57.9 PSI @ (depth) 3210 w/Clock No. 8179

(C) First Final Flow Pressure 57.9 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-In Pressure 390.4 PSI @ (depth) 3276 w/Clock No. 31152

(E) Second Initial Flow Pressure 71.2 PSI AK1 Recorder No. _____ Range _____

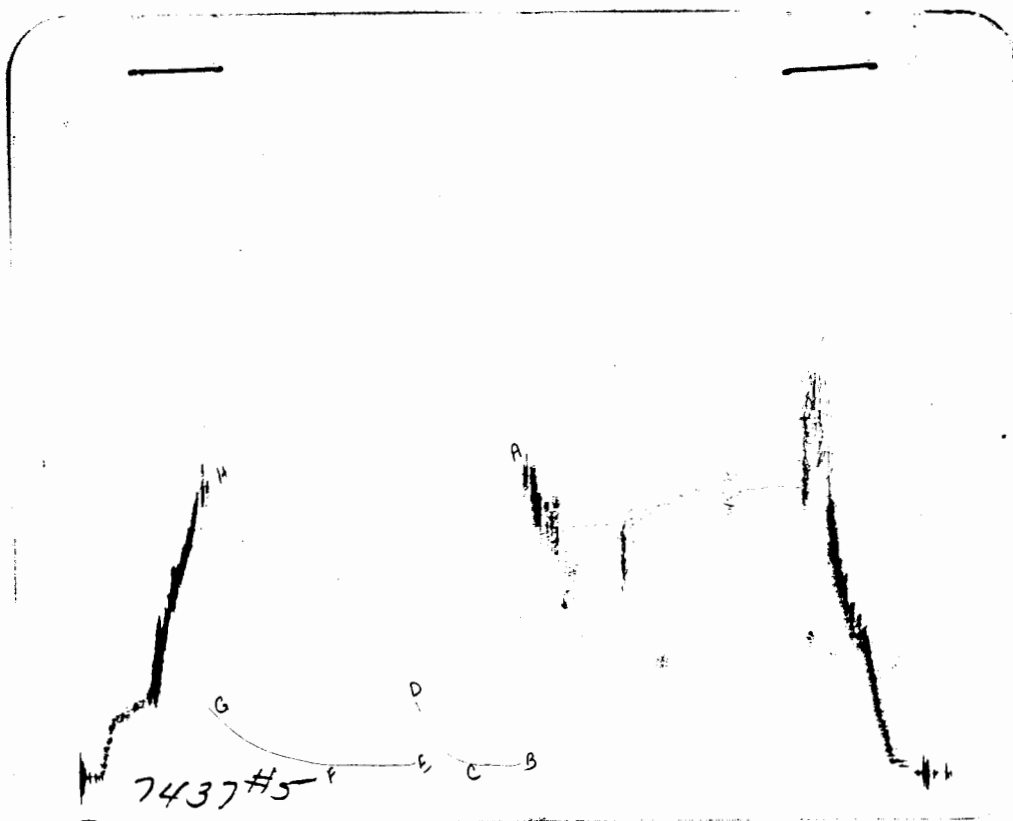
(F) Second Final Flow Pressure 71.2 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 380.9 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1640.9 PSI Initial Shut-In 45 Final Shut-In 90

Our Representative DAN BANGLE

TOTAL PRICE \$ 600



POINT This is an actual photograph of recorder chart
PRESSURE

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	1678	1680.9
(B) FIRST INITIAL FLOW PRESSURE	55	57.9
(C) FIRST FINAL FLOW PRESSURE	55	57.9
(D) INITIAL CLOSED-IN PRESSURE	388	390.4
(E) SECOND INITIAL FLOW PRESSURE	66	71.2
(F) SECOND FINAL FLOW PRESSURE	66	71.2
(G) FINAL CLOSED-IN PRESSURE	377	380.9
(H) FINAL HYDROSTATIC MUD	1634	1640.9

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4893

Well Name & No. <u>Roesner #19</u>	Test No. <u>5</u>	Date <u>4-1-92</u>
Company <u>Hallwood Petro. Inc.</u>	Zone Tested <u>I-I-K</u>	<u>h.KC</u>
Address _____	Elevation <u>1878 K.B.</u>	
Co. Rep./Geo. <u>Tim Musgrove</u>	Cont. <u>Allen #3</u>	Est. Ft. of Pay _____
Location: Sec. <u>9</u>	Twp. <u>15</u>	Rge. <u>13</u>
Co. <u>Russell</u>	State <u>Ks.</u>	
No. of Copies <u>5</u>	Distribution Sheet _____	Yes ☒ No ☐ Turnkey _____
Yes ☒ No ☐	Evaluation _____	

Interval Tested <u>3206 - 3280</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>74</u>	Top Choke — 1" _____ Bottom Choke — ¾" _____
Top Packer Depth <u>3201</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3206</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3280</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.1</u> lb / gal.	Viscosity <u>43</u> Filtrate <u>11.2</u>
Tool Open @ <u>3:40 PM.</u> Initial Blow <u>Weak - building to ¾"</u>	

Final Blow Weak - building to ½"

Recovery — Total Feet <u>65</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>65</u> Feet Of <u>D.M. w/oil spots</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 108 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 11,600 ppm System

(A) Initial Hydrostatic Mud <u>1678</u>	PSI	AK1 Recorder No. <u>7437</u>	Range <u>4200</u>
(B) First Initial Flow Pressure <u>55</u>	PSI	@ (depth) <u>3210</u>	w/Clock No. <u>8179</u>
(C) First Final Flow Pressure <u>55</u>	PSI	AK1 Recorder No. <u>13849</u>	Range <u>4375</u>
(D) Initial Shut-in Pressure <u>388</u>	PSI	@ (depth) <u>3276</u>	w/Clock No. <u>31152</u>
(E) Second Initial Flow Pressure <u>66</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>66</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-in Pressure <u>377</u>	PSI	Initial Opening <u>30</u>	Test _____
(H) Final Hydrostatic Mud <u>1634</u>	PSI	Initial Shut-in <u>45</u>	Jars _____

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Final Flow 60 Safety Joint ☒

Final Shut-in 90 Straddle _____

Circ. Sub _____

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ _____

Approved By [Signature]

Our Representative [Signature]

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name ROESNER #19 Test No. 6 Date 4/2/92
Company HALLWOOD PETROLEUM INC. Zone Tested ARBUCKLE
Address 4582 S ULSTER ST PKWY DENVER CO 80237 Elevation 1878 K.B.
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN DRLG #3 Est. Ft. of Pay 5
Location: Sec. 9 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested 3290-3338
Anchor Length 48
Top Packer Depth 3285
Bottom Packer Depth 3290
Total Depth 3338

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run
Drill Collar - 2.25 Ft. Run

Mud Wt. 9.1 lb / gal. Viscosity 47 Filtrate 12.8

Tool Open @ 7:25 AM Initial Blow STRONG-OFF BOTTOM OF BUCKET IN 19 MINUTES

Final Blow STRONG-OFF BOTTOM OF BUCKET IN 23 MINUTES

Recovery — Total Feet 405 Flush Tool? NO

Rec. 105 Feet of GAS IN PIPE

Rec. 75 Feet of CLEAN GASSY OIL-10%GAS/90%OIL

Rec. 30 Feet of OIL CUT GASSY MUD-10%GAS/10%OIL/80%MUD

Rec. 120 Feet of SLTLY OIL CUT MUD-4%OIL/96%MUD

Rec. 180 Feet of MUD CUT WATER-75%WTR/25%MUD

BHT 109 °F Gravity °API @ °F Corrected Gravity 36 °API

RW 0.32 @ 82 °F Chlorides 36000 ppm Recovery Chlorides 11000 ppm System

(A) Initial Hydrostatic Mud 1697.8 PSI Ak1 Recorder No. 7437 Range 4200

(B) First Initial Flow Pressure 76.6 PSI @ (depth) 3294 w/Clock No. 8179

(C) First Final Flow Pressure 118.8 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1075.2 PSI @ (depth) 3334 w/Clock No. 31152

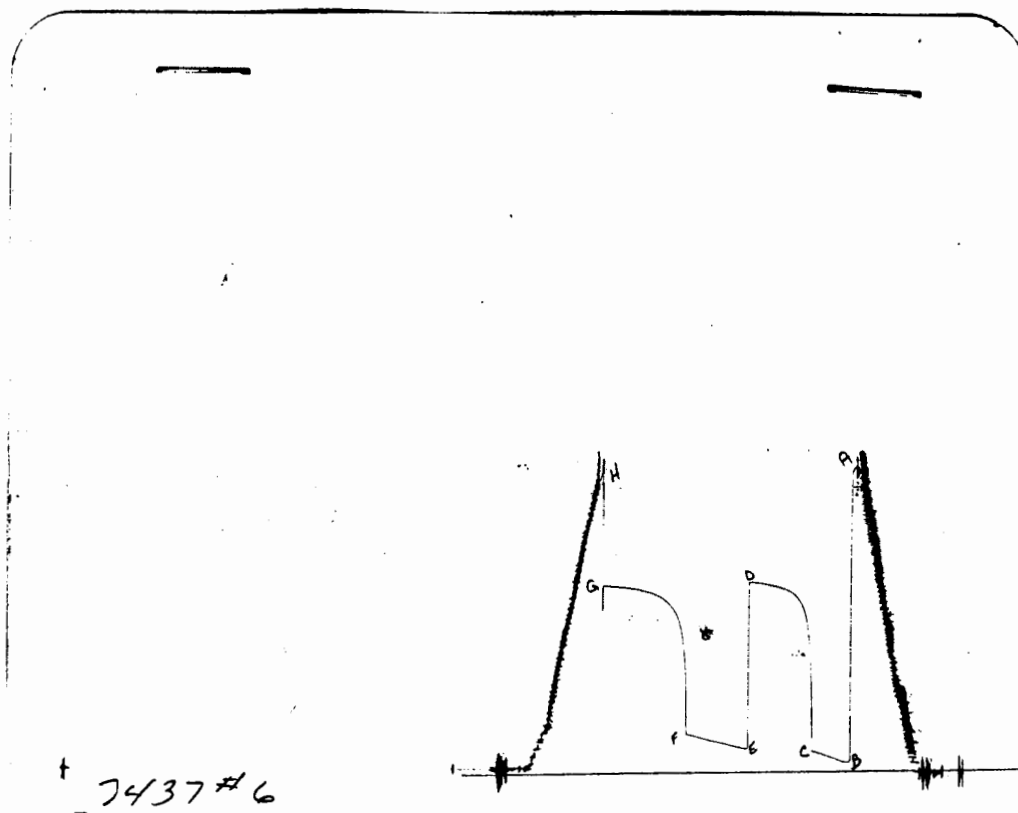
(E) Second Initial Flow Pressure 144.4 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 211.1 PSI @ (depth) w/Clock No.

(G) Final Shut-in Pressure 1040.9 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1695.6 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative DAN BANGLE TOTAL PRICE \$ 600



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1732	1697.8
(B) FIRST INITIAL FLOW PRESSURE	77	76.6
(C) FIRST FINAL FLOW PRESSURE	122	118.8
(D) INITIAL CLOSED-IN PRESSURE	1061	1075.2
(E) SECOND INITIAL FLOW PRESSURE	144	144.4
(F) SECOND FINAL FLOW PRESSURE	211	211.1
(G) FINAL CLOSED-IN PRESSURE	1039	1040.9
(H) FINAL HYDROSTATIC MUD	1678	1695.6

COMPUTER EVALUATION BY TRILOBITE TESTING
HALLWOOD PETROLEUM INC.
REPORT FOR DST#6 FOR THE ROESNER #19
9-15S-13W RUSSELL KANSAS

TEST PARAMETERS

ELEVATION: 1878 KB EST. PAY: 5 FT
DATUM: -1457 ZONE TESTED: ARBUCKLE
TEST INTERVAL: 3290-3338
TIME INTERVALS: 30-45-45-60
RECORDER DEPTH: 3334 VISCOSITY: 10.03435 CP
BOTTOM HOLE TEMP: 109 HOLE SIZE: 7.875 IN

CALCULATIONS

CUBIC FEET OF GAS IN PIPE: 8.383136

TOTAL FEET OF RECOVERY: 405
BARRELS IN DRILL PIPE: 5.7591
GAS OIL RATIO: 1.455633 CU.FT./BBL
BUBBLE POINT PRESSURE: ; 7.535547E-02
TOTAL BARRELS OF RECOVERY: 5.7591

UNCORR. INIT. PROD.: 110.5747 BBL/DAY

API GRAVITY: 36

FLUID GRADIENT: .366

CORRECTED PIPE FILLUP: 576.776

CORR. BARRELS OF RECOVERY: 8.19072 BBL

INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 157.2618 BBL/DAY

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE

96.29092

INITIAL SLOPE 94.71 PSI/CYCLE

INITIAL P* 1095 PSI

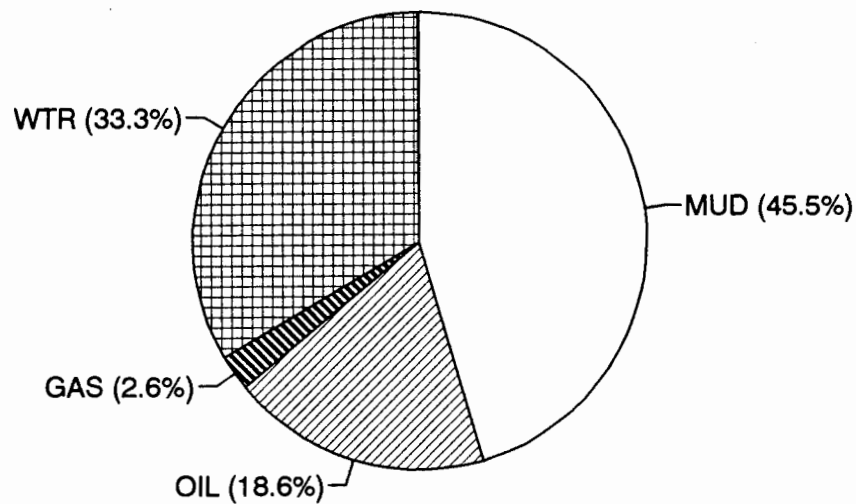
FINAL SLOPE 91.06 PSI/CYCLE

FINAL P* 1072 PSI

TRANSMISSIBILITY 280.8124 (MD.-FT./CP.)
PERMEABILITY 563.554 (MD.)
INDICATED FLOW CAPACITY 2817.77 (MD.FT)
PRODUCTIVITY INDEX .317318 (BARRELS/DAY/PSI)
DAMAGE RATIO 1.73012
RADIUS OF INVESTIGATION 205.5883 (FT.)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE 272.0818 BBL/DAY
THEORITICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE 166.5948 BBL/DAY
POTENTIOMETRIC SURFACE 1029.968 (FT.)
DRAWDOWN FACTOR 2.100456 (%)

CALCULATED RECOVERY ANALYSIS						DRILL	PIPE		
DST #	6	TICKET				4894			
SAMPLE #	TOTAL FEET	GAS %	OIL FEET %		WATER %		MUD %		
			FEET		FEET		FEET		FEET
1	75	10	7.5	90	67.5	0	0	0	0
2	30	10	3	10	3	0	0	80	24
3	120	0	0	4	4.8	0	0	96	115.2
4	180	0	0	0	0	75	135	25	45
5			0		0		0		0
TOTAL	405	2.5925926	10.5	18.6	75.3	33.333333	135	45.5	184.2

			HRS	BBL/DAY
BBL OIL=	1.070766	*	1.25	20.559
BBL WATER=	1.9197	*		36.858
BBL MUD=	2.619324			
BBL GAS	0.14931			



----- INITIAL FLOW -----

RECORDER # 13849

DST #6

DT(MIN)	PRESSURE	<> PRESSURE
0	76.6	76.6
3	77.7	1.099999
6	82.2	4.5
9	87.7	5.5
12	92.2	4.5
15	97.7	5.5
18	104.4	6.700005
21	112.2	7.799996
24	116.6	4.400002
27	118.8	2.200005

----- FINAL FLOW -----

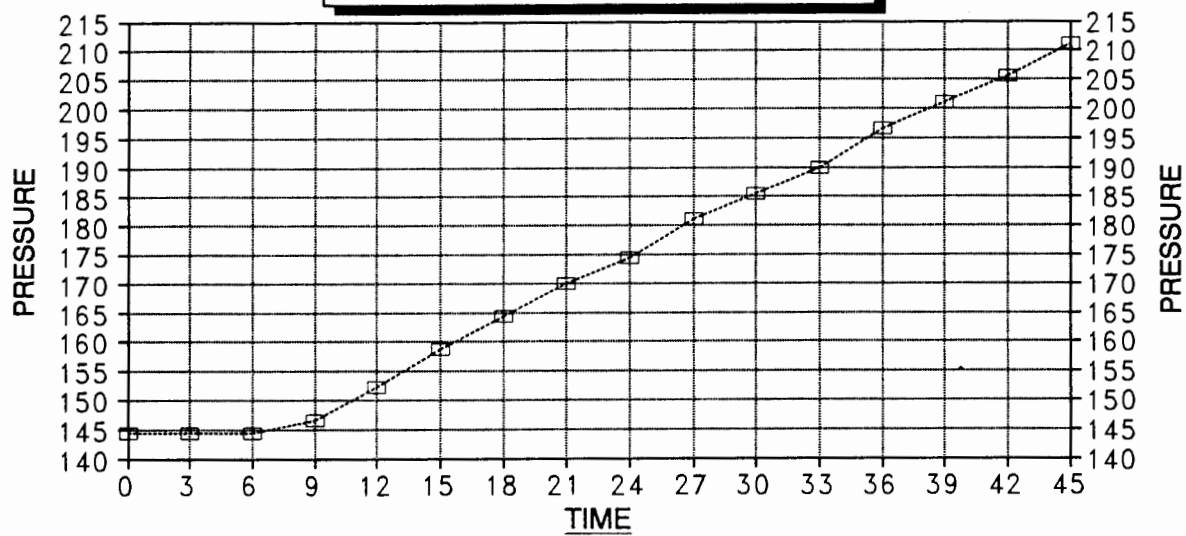
RECORDER # 13849

DST #6

DT(MIN)	PRESSURE	<> PRESSURE
0	144.4	144.4
3	144.4	0
6	144.4	0
9	146.6	2.200012
12	152.2	5.599991
15	158.8	6.600006
18	164.4	5.599991
21	170	5.600006
24	174.4	4.399994
27	181.1	6.700012
30	185.5	4.399994
33	190	4.5
36	196.6	6.600006
39	201.1	4.5
42	205.5	4.399994
45	211.1	5.600006

DELTA T DELTA P

FINAL FLOW - DST #6



---□--- ROESNER #19

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 96.29092 BBL/DAY

ROESNER #19
INITIAL

DST #6
SHUTIN
30 FLOW TIME

Slope -94.71 psi/cycle
P * 1,095 psi

TIME(MIN)	Pws (psi)	Horn T	Log Horn T	<> PRESSURE
3	690.5	11	1.041	690.5
6	888.7	6	0.778	198.2
9	952.6	4	0.637	63.9
12	988.9	4	0.544	36.3
15	1007.7	3	0.477	18.8
18	1025.4	3	0.426	17.7
21	1039.8	2	0.385	14.4
24	1047.5	2	0.352	7.7
27	1054.2	2	0.325	6.7
30	1060.8	2	0.301	6.6
33	1065.2	2	0.281	4.4
36	1069.6	2	0.263	4.4
39	1071.9	2	0.248	2.3
X 42	1073.0	2	0.234	1.1
45	1074.1	2	0.222	1.1
X 48	1075.2	2	0.211	1.1

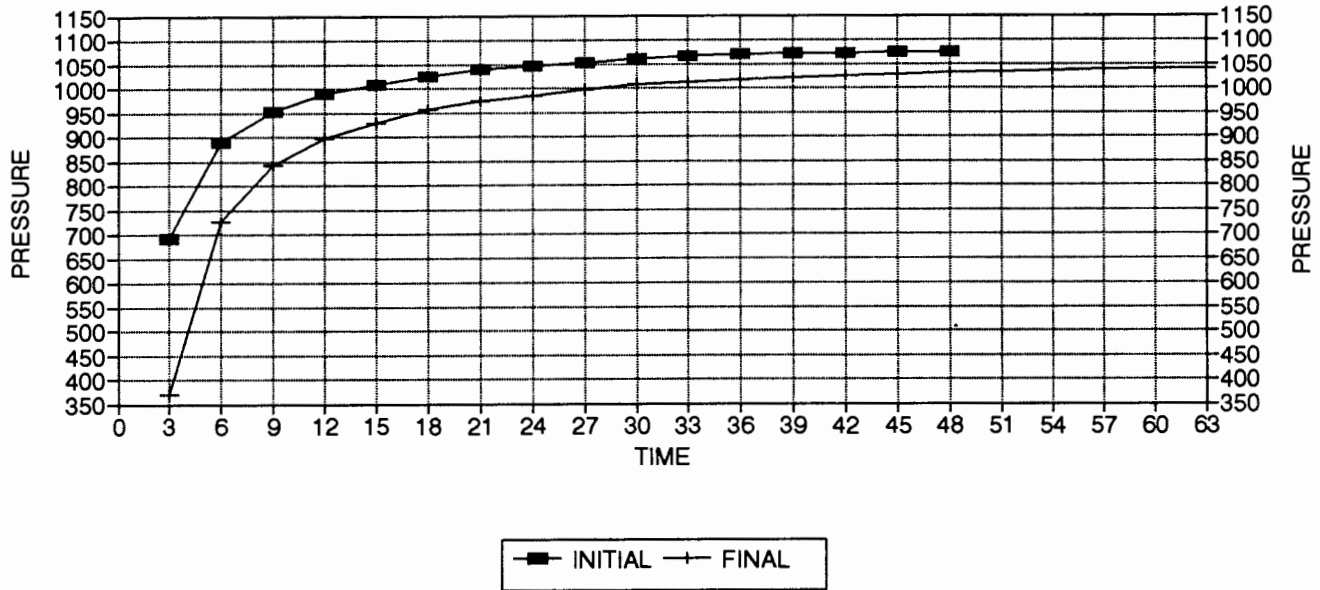
ROESNER #19
FINAL

DST #6
SHUTIN
75 TOTAL FLOW

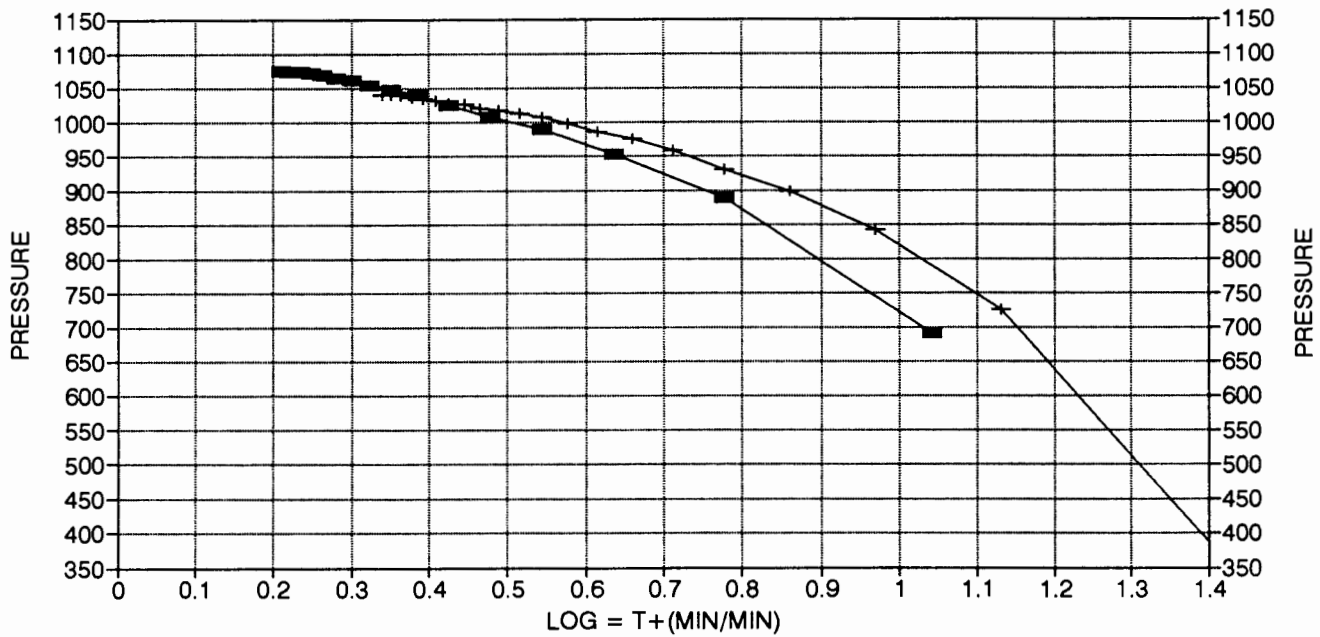
TIME
Slope -91.06 psi/cycle
P * 1,072 psi

TIME(MIN)	Pws (psi)	Horn T	Log Horn T	<> PRESSURE
3	371.1	26	1.415	371.1
6	725.7	14	1.130	354.6
9	842.5	9	0.970	116.8
12	898.6	7	0.860	56.1
15	929.5	6	0.778	30.9
18	958.1	5	0.713	28.6
21	974.6	5	0.660	16.5
24	985.6	4	0.615	11.0
27	997.8	4	0.577	12.2
30	1007.7	4	0.544	9.9
33	1013.2	3	0.515	5.5
36	1017.7	3	0.489	4.5
39	1021.0	3	0.466	3.3
42	1026.5	3	0.445	5.5
45	1028.7	3	0.426	2.2
48	1032.0	3	0.409	3.3
51	1034.3	2	0.393	2.3
54	1036.5	2	0.378	2.2
X 57	1038.7	2	0.365	2.2
60	1039.8	2	0.352	1.1
X 63	1040.9	2	0.341	1.1

ROESNER #19 / DST #6 DELTA T DELTA P



HORNER PLOT



TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4894

Well Name & No. <u>Roesner #19</u>	Test No. <u>6</u>	Date <u>4-2-92</u>
Company <u>Hallwood Petro. Inc.</u>	Zone Tested <u>Arbuckle</u>	
Address _____	Elevation <u>1878 K.B</u>	
Co. Rep./Geo. <u>Tim Musgrave</u>	Cont. <u>Allen #3</u>	Est. Ft. of Pay <u>5</u>
Location: Sec. <u>9</u>	Twp. <u>15</u>	Rge. <u>13</u> Co. <u>Russell</u> State <u>Ks.</u>
No. of Copies <u>5</u>	Distribution Sheet _____	Yes <u>X</u> No <u>X</u> Turnkey _____ Yes <u>X</u> No <u>X</u> Evaluation _____

Interval Tested <u>3290-3338</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>48</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3285</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3290</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3338</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.1</u> lb / gal.	Viscosity <u>47</u> Filtrate <u>12.8</u>
Tool Open @ <u>7:25 A.M.</u> Initial Blow <u>Strong - off bottom of bucket in 19 min.</u>	
Final Blow <u>Strong - off bottom of bucket in 23 min</u>	

Recovery — Total Feet <u>405</u>	Feet of Gas in Pipe <u>105</u>	Flush Tool? _____
Rec. <u>75</u> Feet Of <u>C. Gsy O</u>	<u>10</u> % gas <u>90</u> % oil	% water _____ % mud _____
Rec. <u>30</u> Feet Of <u>O.C. Gsy M</u>	<u>10</u> % gas <u>10</u> % oil	% water <u>80</u> % mud _____
Rec. <u>120</u> Feet Of <u>Srly O.C.M.</u>	% gas <u>4</u> % oil	% water _____ % mud <u>96</u>
Rec. <u>180</u> Feet Of <u>MCW</u>	% gas _____ % oil <u>75</u> % water	<u>25</u> % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____

BHT <u>109</u> °F Gravity <u>36.000</u> °API @ _____	°F Corrected Gravity <u>36</u> °API _____
RW <u>.32</u> @ <u>82</u> °F Chlorides <u>36,000</u> ppm Recovery _____	Chlorides <u>11,000</u> ppm System _____
(A) Initial Hydrostatic Mud <u>1732</u> PSI	AK1 Recorder No. <u>7437</u> Range <u>4200</u>
(B) First Initial Flow Pressure <u>77</u> PSI	@ (depth) <u>3294</u> w/Clock No. <u>8179</u>
(C) First Final Flow Pressure <u>122</u> PSI	AK1 Recorder No. <u>13849</u> Range <u>4375</u>
(D) Initial Shut-In Pressure <u>1061</u> PSI	@ (depth) <u>3334</u> w/Clock No. <u>31152</u>
(E) Second Initial Flow Pressure <u>144</u> PSI	AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure <u>211</u> PSI	@ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure <u>1039</u> PSI	Initial Opening <u>30</u> Test _____
(H) Final Hydrostatic Mud <u>1678</u> PSI	Initial Shut-In <u>45</u> Jars _____

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

Approved By [Signature]

Our Representative [Signature]