

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Computer Inventoried **Drill-Stem Test Data**

Well Name J.A. HERRERAN #2 Test No. 1 Date 4/13/91
Company HALLWOOD PETROLEUM, INC. Zone Tested TARKIO
Address P.O. BOX 378111 DENVER COLO 80217 Elevation 1795 KB
Co. Rep./Geo. MR JIM MUSGROVE cont. ALLEN #1 Est. Ft. of Pay _____
Location: Sec. 4 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested 2280-2325 Drill Pipe Size 4.5 XH
Anchor Length 45 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 2275 Drill Collar — 2.25 Ft. Run 28
Bottom Packer Depth 2280
Total Depth 2325

Mud Wt. 8.6 lb / gal. Viscosity 38 Filtrate 8.4

Tool Open @ 4:33PM Initial Blow 1 1/2" BLOW BUILDING TO BOTTOM OF BUCKET

Final Blow 3" BLOW BUILDING TO BOTTOM OF BUCKET IN 22 MINUTES

Recovery — Total Feet 90 Flush Tool? NO

Rec. 90 Feet of THIN OIL SPECKED MUD 1%OIL/99%MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 86 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 1.26 @ 59.4 °F Chlorides 5800 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1046.8 PSI Ak1 Recorder No. 24174 Range 3350

(B) First Initial Flow Pressure 33.1 PSI @ (depth) 2286 w/Clock No. 17652

(C) First Final Flow Pressure 33.1 PSI AK1 Recorder No. 13277 Range 4125

(D) Initial Shut-in Pressure 361.8 PSI @ (depth) 2324 w/Clock No. 35828

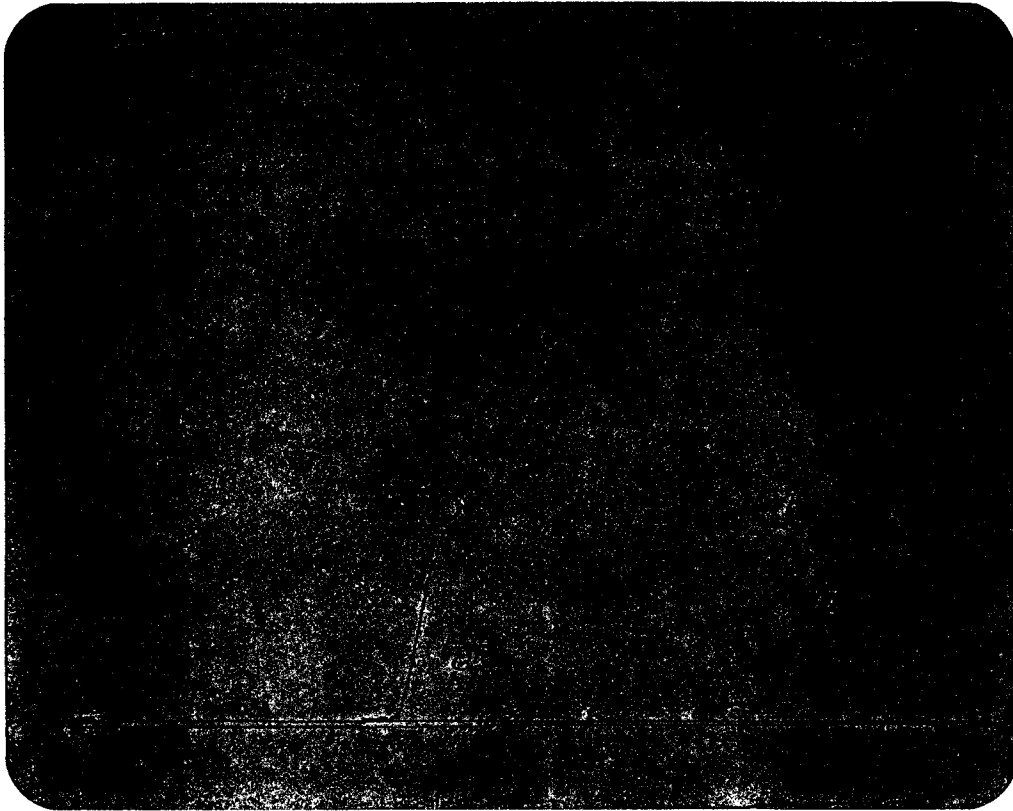
(E) Second Initial Flow Pressure 51.2 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 426.1 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 1026.8 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2351.9 PSI Initial Shut-in 45 Final Shut-in 120

Our Representative MR PAUL SIMPSON TOTAL PRICE \$ 600



POINT This is an actual photograph of recorder chart PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1050	1046.8
(B) FIRST INITIAL FLOW PRESSURE	35	33.1
(C) FIRST FINAL FLOW PRESSURE	35	33.1
(D) INITIAL CLOSED-IN PRESSURE	367	361.8
(E) SECOND INITIAL FLOW PRESSURE	43	51.2
(F) SECOND FINAL FLOW PRESSURE	54	426.1
(G) FINAL CLOSED-IN PRESSURE	421	1026.8
(H) FINAL HYDROSTATIC MUD	1030	2351.9

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

N^o 3712

Test Ticket

Well Name & No. <u>J. A. Heffernan #2</u>	Test No. <u>1</u>	Date <u>4-13-91</u>
Company <u>Hollywood Petroleum, Inc</u>	Zone Tested <u>Tarkio</u>	
Address <u>PO Box 378111 Denver Colo 80217</u>	Elevation <u>1795</u>	
Co. Rep./Geo. <u>Jim M. McGovern/Jim-inville</u>	cont. <u>Allen #1</u>	Est. Ft. of Pay _____
Location: Sec. <u>4</u>	Twp. <u>15s</u>	Rge. <u>13w</u>
Co. <u>Russell</u>	State <u>Ks</u>	
No. of Copies <u>2</u>	Distribution Sheet _____	Yes _____ No _____
Turnkey _____	Yes <u>X</u>	No _____
Evaluation _____		

Interval Tested <u>2280-2325</u>	Drill Pipe Size <u>4 1/2 YH</u>
Anchor Length <u>45</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>2275</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>2280</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>2325</u>	Drill Collar — 2.25 Ft. Run <u>28</u>
Mud Wt. <u>8.6</u> lb/gal.	Viscosity <u>38</u> Filtrate <u>8.4</u>
Tool Open @ <u>4:33 PM</u>	Initial Blow <u>1 1/2" blow building to bottom of bucket</u>
<u>15 minutes</u>	
Final Blow <u>3" blow building to bottom of bucket in 22 minutes</u>	

Recovery — Total Feet <u>90</u>	Feet of Gas In Pipe <u>340</u>	Flush Tool? <u>no</u>
Rec. <u>90</u> Feet Of <u>thin oil specked mud</u>	%gas <u>1</u> %oil _____ %water <u>99</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 <u>86</u> °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW <u>1.26</u> @ <u>59.4</u> °F Chlorides <u>5800</u> ppm Recovery Chlorides _____ ppm System
(A) Initial Hydrostatic Mud <u>1050</u> PSI Ak1 Recorder No. <u>24174</u> Range <u>3350</u>
(B) First Initial Flow Pressure <u>35</u> PSI @ (depth) <u>2286</u> w/Clock No. <u>17652</u>
(C) First Final Flow Pressure <u>35</u> PSI Ak1 Recorder No. <u>13277</u> Range <u>4125</u>
(D) Initial Shut-In Pressure <u>367</u> PSI @ (depth) <u>2324</u> w/Clock No. <u>25828</u>
(E) Second Initial Flow Pressure <u>43</u> PSI Ak1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure <u>54</u> PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure <u>421</u> PSI Initial Opening <u>30</u> Test <u>530</u>
(H) Final Hydrostatic Mud <u>1030</u> PSI Initial Shut-In <u>45</u> Jars _____

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Final Flow <u>60</u>	Safety Joint <u>50</u>
Final Shut-In <u>120</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>600</u>

Approved By [Signature] 4/13/91
Our Representative Paul Simpson

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name J. A. HERRERAN #2 Test No. 2 Date 4/15/91
Company HALLWOOD PETROLEUM, INC. Zone Tested LKC
Address P.O. BOX 378111 DENVER COLO 80217 Elevation 1795 KB
Co. Rep./Geo. MR JIM MUSGROVE cont. ALLEN #1 Est. Ft. of Pay _____
Location: Sec. 4 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested 2925-2978 Drill Pipe Size 4.5 XH
Anchor Length 43 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 2920 Drill Collar — 2.25 Ft. Run _____
Bottom Packer Depth 2925
Total Depth 2978

Mud Wt. 9.3 lb / gal. Viscosity 52 Filtrate 10

Tool Open @ 7:33AM Initial Blow 1" BLOW BUILDING TO BOTTOM OF BUCKET

Final Blow STRONG BLOW TO BOTTOM OF BUCKET IMMEDIATELY

Recovery — Total Feet 64 Flush Tool? NO

Rec. 1200 Feet of GAS IN PIPE

Rec. 64 Feet of GASSY HEAVY OIL CUT MUD 5%GAS/20%OIL/75%MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 98 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

(A) Initial Hydrostatic Mud 1491.2 PSI AK1 Recorder No. 24174 Range 3350

(B) First Initial Flow Pressure 45.6 PSI @ (depth) 2977 w/Clock No. 17652

(C) First Final Flow Pressure 45.6 PSI AK1 Recorder No. 13277 Range 4125

(D) Initial Shut-in Pressure 435.6 PSI @ (depth) 2930 w/Clock No. 35828

(E) Second Initial Flow Pressure 57.2 PSI AK1 Recorder No. _____ Range _____

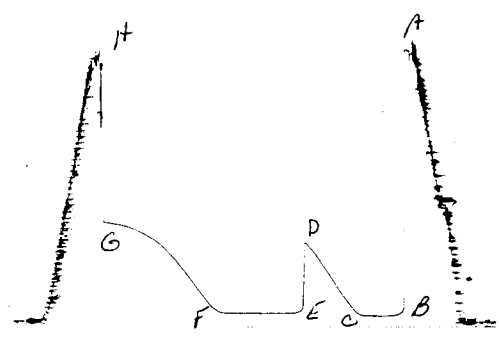
(F) Second Final Flow Pressure 57.2 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 547.6 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1415.2 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative MR PAUL SIMPSON TOTAL PRICE \$ 600

A2
13233



POINT This is an actual photograph of recorder chart PRESSURE

POINT	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1490	1491.2
(B) FIRST INITIAL FLOW PRESSURE	41	45.6
(C) FIRST FINAL FLOW PRESSURE	41	45.6
(D) INITIAL CLOSED-IN PRESSURE	437	435.6
(E) SECOND INITIAL FLOW PRESSURE	58	57.2
(F) SECOND FINAL FLOW PRESSURE	58	57.2
(G) FINAL CLOSED-IN PRESSURE	545	547.6
(H) FINAL HYDROSTATIC MUD	1414	1415.2

J.A.HEFFERNAN DST #2

INITIAL

SHUTIN

30 INITIAL FLOW TIME

Slope

P *

TIME(MIN)	Pws (psi)	Log		<> PRESSURE
		Horn T	Horn T	
6	61.9	6	0.778	61.9
12	104.9	4	0.544	43.0
18	157.7	3	0.426	52.8
24	215.5	2	0.352	57.8
30	272.2	2	0.301	56.7
36	336.6	2	0.263	64.4
42	392.7	2	0.234	56.1
48	435.6	2	0.222	42.9

J.A.HEFFERNAN DST #2

FINAL

SHUTIN

90 TOTAL FLOW

TIME

Slope

-754.31 psi/cycle

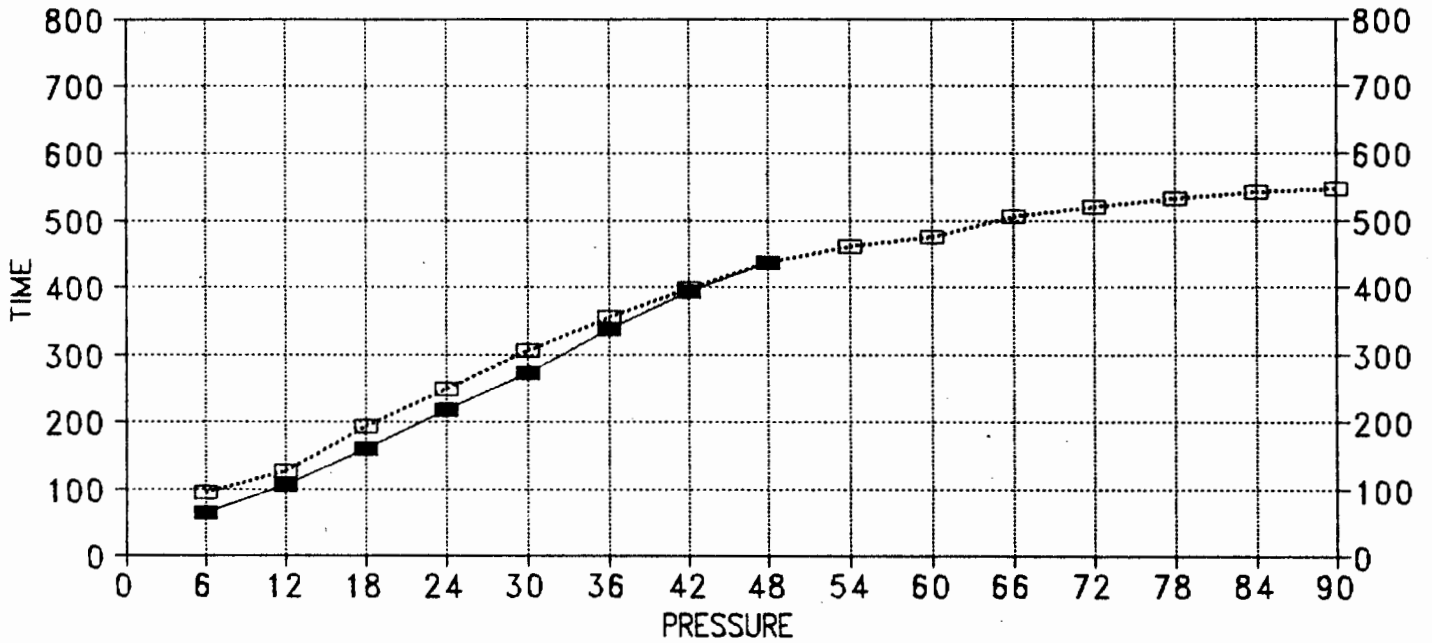
P *

775 psi

TIME(MIN)	Pws (psi)	Log		<> PRESSURE
		Horn T	Horn T	
6	94.1	16	1.204	94.1
12	126.4	9	0.929	32.3
18	192.4	6	0.778	66.0
24	247.5	5	0.677	55.1
30	304.6	4	0.602	57.1
36	354.1	4	0.544	49.5
42	397.7	3	0.497	43.6
48	435.6	3	0.459	37.9
54	460.4	3	0.426	24.8
X 60	474.5	3	0.398	14.1
66	504.3	2	0.374	29.8
72	520.9	2	0.352	16.6
78	531.7	2	0.333	10.8
84	540.9	2	0.316	9.2
X 90	547.6	2	0.301	6.7

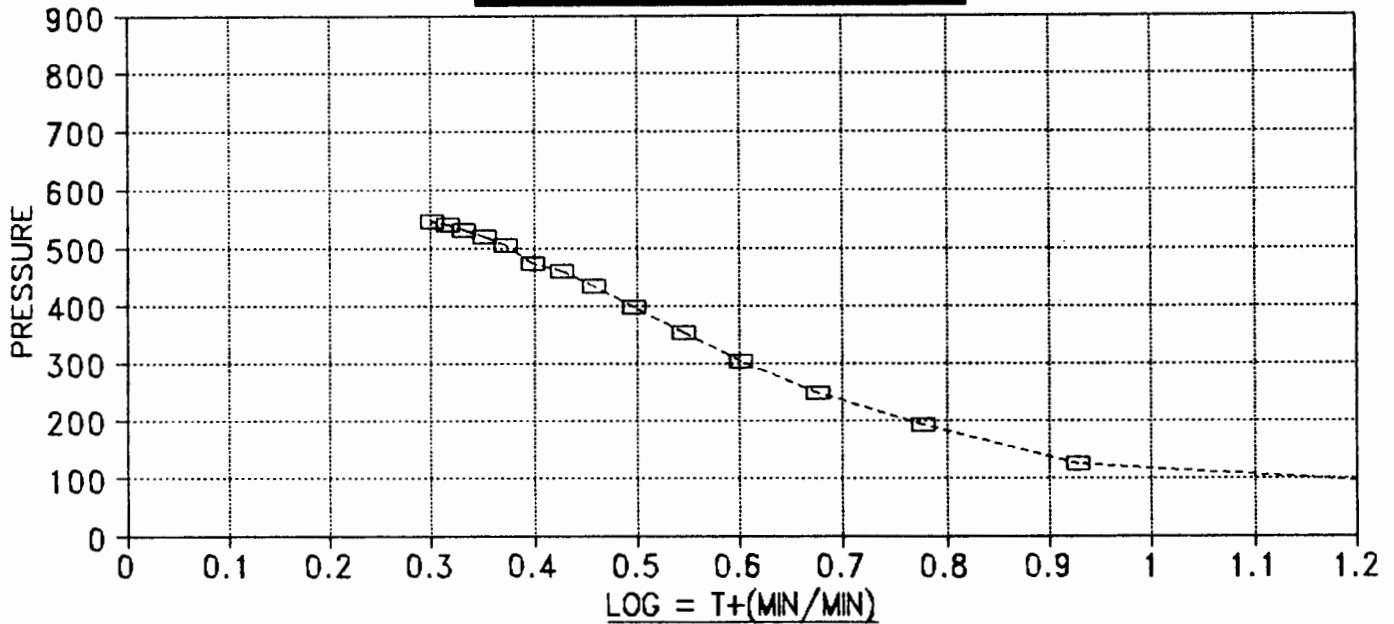
DELTA T DELTA P

J. A. HEFFERNAN #2-DST #2



—■— INITIAL -□- FINAL

HORNER PLOT DST #2-J.A.HEFFERNAN



-□- FINAL SHUTIN

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Horner
Find Shain

No 3713

Test Ticket

3 - Denver | Plainville 1 - Gr Bend

Well Name & No. <u>J.A. Heberman #2</u>	Test No. <u>2</u>	Date <u>4-15-91</u>
Company <u>Hollywood Petroleum Inc</u>	Zone Tested <u>LKC</u>	
Address <u>PO Box 378111 Denver Colo 80217</u>	Elevation <u>1795</u>	
Co. Rep./Geo. <u>Jim Musgrave</u>	cont. <u>AM</u>	Est. Ft. of Pay _____
Location: Sec. <u>4</u>	Twp. <u>15s</u>	Rge. <u>13w</u>
	Co. <u>Russell</u>	State <u>Ks</u>
No. of Copies <u>See above</u>	Distribution Sheet _____	Yes _____ No _____
	Turnkey _____	Yes _____ No _____
	Evaluation _____	

Interval Tested <u>2925-2978</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>43</u>	Top Choke - 1" _____ Bottom Choke - 3/4" _____
Top Packer Depth <u>2920</u>	Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" _____
Bottom Packer Depth <u>2925</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Total Depth <u>2978</u>	Drill Collar - 2.25 Ft. Run _____
Mud Wt. <u>9.3</u> lb/gal.	Viscosity <u>52</u> Filtrate <u>10</u>
Tool Open @ <u>7:33 AM</u>	Initial Blow <u>1" blow building to bottom of bucket in 9</u>
<u>Minutes</u>	
Final Blow <u>strong blow - to bottom of bucket immediately</u>	

Recovery - Total Feet <u>64</u>	Feet of Gas in Pipe <u>1200</u>	Flush Tool? _____
Rec. <u>64</u> Feet Of <u>gasy HOCM</u>	<u>5</u> %gas <u>20</u> %oil	%water <u>75</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 98 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

(A) Initial Hydrostatic Mud <u>1490</u>	PSI	Ak1 Recorder No. <u>2474</u>	Range <u>3350</u>
(B) First Initial Flow Pressure <u>41</u>	PSI	@ (depth) <u>2977</u>	w/Clock No. <u>17652</u>
(C) First Final Flow Pressure <u>41</u>	PSI	Ak1 Recorder No. <u>13277</u>	Range <u>4125</u>
(D) Initial Shut-In Pressure <u>437</u>	PSI	@ (depth) <u>2930</u>	w/Clock No. <u>22501</u>
(E) Second Initial Flow Pressure <u>58</u>	PSI	Ak1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>58</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>545</u>	PSI	Initial Opening <u>30</u>	Test <u>550</u>
(H) Final Hydrostatic Mud <u>1414</u>	PSI	Initial Shut-in <u>45</u>	Jars _____

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Final Flow 60 Safety Joint 50

Final Shut-in 90 Straddle _____

Circ. Sub _____

Sampler _____

Approved By [Signature] 4/15/91

Our Representative Paul Simpson

Extra Packer _____

Other _____

TOTAL PRICE \$ 600

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name J.A. HERRERAN #2 Test No. 3 Date 4/16/91
Company HALLWOOD PETROLEUM, INC. Zone Tested LKC I-J-K
Address P.O. BOX 378111 DENVER COLO 80217 Elevation 1795 KB
Co. Rep./Geo. MR JIM MUSGROVE Cont. ALLEN #1 Est. Ft. of Pay _____
Location: Sec. 4 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested 3084-3162 Drill Pipe Size 4.5 XH
Anchor Length 78 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3079 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3084
Total Depth 3162

Mud Wt. 9.4 lb / gal. Viscosity 48 Filtrate 9.2

Tool Open @ 7:40AM Initial Blow WEAK 1/4" BLOW BUILDING TO 1 1/2"

Final Blow 2" BLOW BUILDING TO 9"

Recovery - Total Feet 20 Flush Tool? NO

Rec. 20 Feet of SLIGHTLY OIL CUT MUD 10%OIL/90%MUD

Rec. _____ Feet of GOOD SHOW OF OIL IN TOOL

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 98 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

(A) Initial Hydrostatic Mud 1641.2 PSI Ak1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 51.2 PSI @ (depth) 3089 w/Clock No. 27401

(C) First Final Flow Pressure 58.4 PSI Ak1 Recorder No. 24174 Range 3350

(D) Initial Shut-in Pressure 246.3 PSI @ (depth) 3161 w/Clock No. 25828

(E) Second Initial Flow Pressure 64.2 PSI Ak1 Recorder No. _____ Range _____

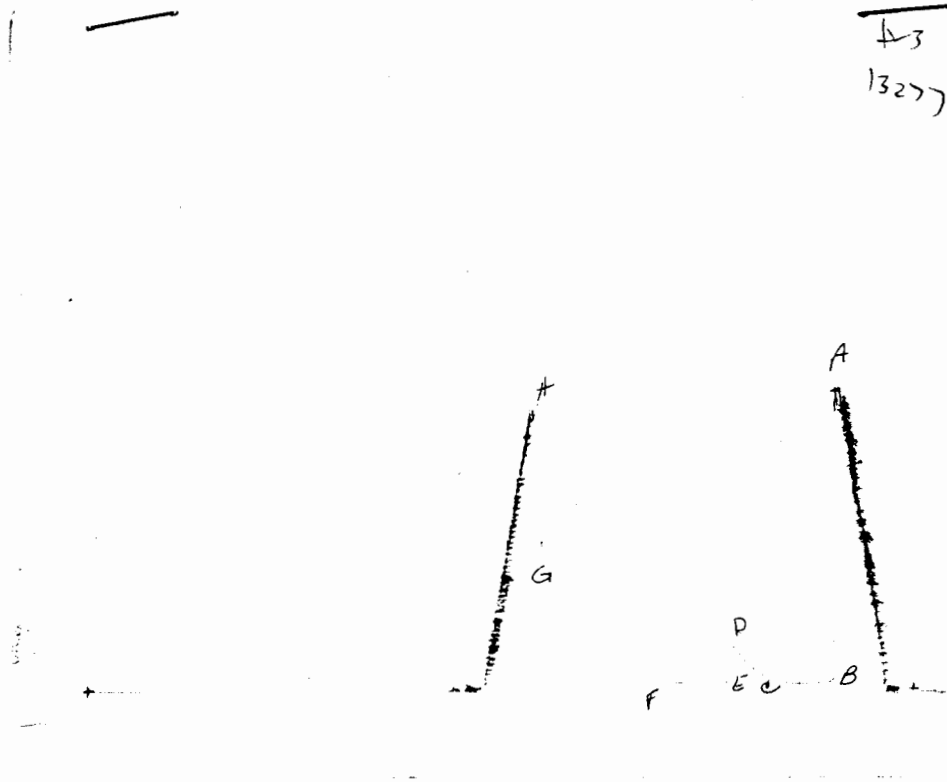
(F) Second Final Flow Pressure 70.1 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 748.2 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1566.2 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative MR PAUL SIMPSON TOTAL PRICE \$ 600

43
13277



POINT This is an actual photograph of recorder chart PRESSURE

POINT	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1640	1641.2
(B) FIRST INITIAL FLOW PRESSURE	49	51.2
(C) FIRST FINAL FLOW PRESSURE	58	58.4
(D) INITIAL CLOSED-IN PRESSURE	247	246.3
(E) SECOND INITIAL FLOW PRESSURE	66	64.2
(F) SECOND FINAL FLOW PRESSURE	72	70.1
(G) FINAL CLOSED-IN PRESSURE	745	748.2
(H) FINAL HYDROSTATIC MUD	1565	1566.2

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

N^o 3714

Test Ticket

Well Name & No. <u>JH Hoff-AGA #2</u>	Test No. <u>3</u>	Date <u>4-16-91</u>
Company <u>Hallwood Petroleum Inc</u>	Zone Tested <u>LKC IJK</u>	
Address <u>PO Box 378111 Denver Colo 80217</u>	Elevation _____	
Co. Rep./Geo. <u>Jin Mysgrave</u>	Cont. <u>All #1</u>	Est. Ft. of Pay _____
Location: Sec. <u>4</u>	Twp. <u>15s</u>	Rge. <u>13w</u>
	Co. <u>Russell</u>	State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____
		Yes _____ No _____ Evaluation _____

Interval Tested <u>3084-3162</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>78</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3079</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3084</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3162</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.4</u> lb/gal.	Viscosity <u>48</u> Filtrate <u>9.2</u>
Tool Open @ <u>7:40 AM</u>	Initial Blow <u>weak 1/2" blow building to 1 1/2"</u>

Final Blow 2" blow building to 9"

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
Rec. <u>20</u> Feet Of <u>50cm</u>	<u>130</u>	
	%gas <u>10</u> %oil _____ %water <u>90</u> %mud _____	
Rec. _____ Feet Of <u>good show of oil in tool</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 96 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

- (A) Initial Hydrostatic Mud 1640 PSI Ak1 Recorder No. 13277 Range 4125
- (B) First Initial Flow Pressure 49 PSI @ (depth) 3089 w/Clock No. 27501
- (C) First Final Flow Pressure 58 PSI AK1 Recorder No. 24174 Range 3350
- (D) Initial Shut-In Pressure 247 PSI @ (depth) 3161 w/Clock No. 25828
- (E) Second Initial Flow Pressure 66 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 72 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 745 PSI Initial Opening 30 Test 550
- (H) Final Hydrostatic Mud 1585 PSI Initial Shut-In 45 Jars _____

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Final Flow <u>45</u>	Safety Joint <u>50</u>
Final Shut-In <u>90</u>	Straddle _____
	Circ. Sub _____
	Sampler _____

Approved By Jin Mysgrave
Our Representative Paul Simpson

Extra Packer _____
Other _____
TOTAL PRICE \$ 600