

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

ORIGINAL

API NO. 15- 151-22,005 - CO - 00

County Pratt

SE - NE - SW - Sec. 5 Twp. 26 Rge. 13  E

1320 Feet from  N (circle one) Line of Section

2970 Feet from  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE.  SE NW or SW (circle one)

Lease Name Frisbie Well # 5

Field Name Frisbie

Producing Formation Lansing

Elevation: Ground 1958 KB 1966

Total Depth 4280 PBDT 4249

Amount of Surface Pipe Set and Cemented at 315' Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 824 Feet

If Alternate II completion, cement circulated from 824

Test depth to Surface w/ 200 sx cmt.

Drilling Fluid Management Plan A/I  
(Data must be collected from the Reserve Pit)

Chloride content 9500 ppm Fluid volume 345 bbls

Dewatering method used Hauled

Location of fluid disposal if hauled offsite:

Operator Name Hallwood Petroleum, Inc.

Lease Name Frisbie #3 License No. 3613

SW Quarter Sec. 5 Twp. 26 S Rng. 13 E/W

County Pratt Docket No. 95,767-C  
C-16,624

Operator: License # 03613

Name: Hallwood Petroleum, Inc.

Address 4582 S. Ulster St. Parkway #1700  
P.O. Box 378111

City/State/Zip Denver, CO 80237

Purchaser: Koch Oil Company

Operator Contact Person: George Hutton

Phone (316) 792-2756

Contractor: Name: Duke Drilling

License: 5929

Wellsite Geologist: Scott Alberg

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  Temp. Abdn. COMMISSION

Gas  ENHR  SIGW

Dry  Other (Core, WSW, Expl. Cathodic, etc)

If Workover/Re-Entry: old well info as follows: 2-28-92

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD

Plug Back  PBDT

Commingled  Docket No. \_\_\_\_\_

Dual Completion  Docket No. \_\_\_\_\_

Other (SWD or Inj?)  Docket No. \_\_\_\_\_

8/29/90 9/5/90 9/18/90

Spud Date Date Reached TD Completion Date

RECEIVED  
KANSAS CORPORATION COMMISSION  
FEB 28 1992  
CONSERVATION DIVISION  
WICHITA, KS

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Marvin Palk

Title Sr. Engineering Tech Date 2/27/92

Subscribed and sworn to before me this 27<sup>th</sup> day of February, 19 92

Notary Public Robert Kaus

Date Commission Expires May 21, 1994

K.C.C. OFFICE USE ONLY

F  Letter of Confidentiality Attached

C  Wireline Log Received

C  Geologist Report Received

KCC  SWD/Rep  NGPA

KGS  Plug  Other

(Specify)

Operator Name Hallwood Petroleum, Inc. Lease Name Frisbie Well # 5  
 Sec. 5 Twp. 26 Rge. 13  East County Pratt  
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3564'	(-1598')
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Toronto	3582'	(-1616')
List All E.Logs Run:		Douglas	3611'	(-1645')
Dual Ind. Guard		Brown Lime	3726'	(-1760')
Dual Spaced Neut./Density		Lansing	3752'	(-1786')
Micro		Base Kansas City	4064'	(-2098')
CAL		Mississippian	4170'	(-2204')
		Viola	4232'	(-2266')

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	23#	315'	60/40 poz	250	See attached
Production	7 7/8"	5 1/2"	14#	4245'	60/40 poz	1st-180	"
					60/40 poz	2nd-200	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
2	3934-38'		Acidize w/450 gals. 15% NE	
4	3944-54'		Acidize w/1000 gals. 15% NE	

<b>TUBING RECORD</b>		Size 2 7/8"	Set At 4245'	Packer At N/A	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or Inj. 9/18/90			Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours	Oil 12	Bbls.	Gas 0	Mcf 2	Water 2	Bbls.	Gas-Oil Ratio 0	Gravity 35

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Coamingled  Other (Specify)

Production Interval \_\_\_\_\_

ORIGINAL

HALLWOOD PETROLEUM, INC. .

Frisbie #5

Sec. 5-T26S-R13W  
API #151-22,005

Surface:

175 sx 60/40 poz, 3% cc, 2% gel, tailed w/75 sx 60/40 poz 3% cc,  
no gel.

Production:

Bottom Stage-180 sx 60/40 poz, 10% salt, .6% Halid 322 1/4#/sk  
Flocele w/5# gilsonite/sk in last 80 sx.  
Top Stage-200 sx 60/40 poz 2% gel 1/4# Flocele/sk.

RECEIVED  
KANSAS CORPORATION COMMISSION

FEB 28 1992

CONSERVATION DIVISION  
WICHITA, KS

# ORIGINAL TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name & No. <u>FRISBIE #5</u>	Test No. <u>1</u>	Date <u>9/2/90</u>
Company <u>HALLWOOD PETROLEUM INC</u>	Zone Tested <u>LANSING-KS CITY</u>	
Address <u>P.O. BOX 378111 DENVER CO 80237</u>	Elevation <u>1957</u>	
Co. Rep./Geo. <u>MR SCOTT ALBERG</u>	Cont. <u>DUKE DRLG #2</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>5</u>	Twp. <u>26S</u>	Rge. <u>13W</u> Co. <u>PRATT</u> State <u>KANSAS</u>

Interval Tested <u>3888-3910</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>22</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3883</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3888</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>289</u>
Total Depth <u>3910</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>43</u> Filtrate <u>9.6</u>
Tool Open @ <u>4:00 PM</u>	Initial Blow <u>WEAK STEADY SURFACE BLOW</u>

Final Blow WEAK-DIED IN 5 MINUTES

Recovery — Total Feet <u>21</u>	Flush Tool? _____
Rec. <u>60</u> Feet of <u>GAS IN PIPE</u>	
Rec. <u>1</u> Feet of <u>CLEAN OIL</u>	
Rec. <u>20</u> Feet of <u>OIL CUT GASSY MUD-20%OIL/5%GAS/75%MUD</u>	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	

BHT 116 °F Gravity \_\_\_\_\_ °API @ 0 °F Corrected Gravity 35 °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 6500 ppm System

(A) Initial Hydrostatic Mud <u>1941.2</u> PSI	Ak1 Recorder No. <u>13754</u>	Range <u>4000</u>
(B) First Initial Flow Pressure <u>63.2</u> PSI	@ (depth) <u>3892</u>	w/Clock No. <u>26199</u>
(C) First Final Flow Pressure <u>63.2</u> PSI	Ak1 Recorder No. <u>13849</u>	Range <u>4375</u>
(D) Initial Shut-In Pressure <u>89.1</u> PSI	@ (depth) <u>3906</u>	w/Clock No. <u>26191</u>
(E) Second Initial Flow Pressure <u>54.9</u> PSI	Ak1 Recorder No. <u>0</u>	Range <u>0</u>
(F) Second Final Flow Pressure <u>54.9</u> PSI	@ (depth) <u>0</u>	w/Clock No. <u>0</u>
(G) Final Shut-In Pressure <u>90.4</u> PSI	Initial Opening <u>30</u>	
(H) Final Hydrostatic Mud <u>1899.7</u> PSI	Initial Shut-In <u>45</u>	
	Final Flow <u>30</u>	
	Final Shut-In <u>45</u>	

MR DAN BANGLE

500

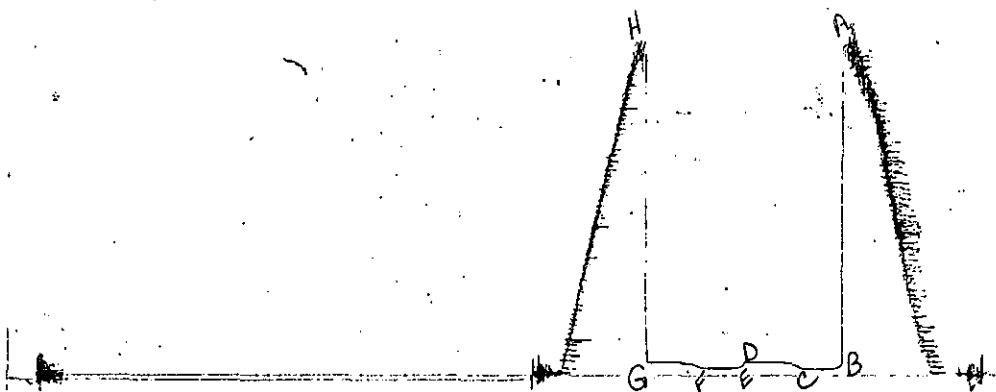
Our Representative \_\_\_\_\_

TOTAL PRICE \$ \_\_\_\_\_

DST# 1 RECORDER# 13849

13849

#1



This is an actual photograph of recorder chart.

**PRESSURE**

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1939	1941.2	PSI
(B) First Initial Flow Pressure.....	55	63.2	PSI
(C) First Final Flow Pressure.....	55	63.2	PSI
(D) Initial Closed-in Pressure.....	88	89.1	PSI
(E) Second Initial Flow Pressure.....	55	54.9	PSI
(F) Second Final Flow Pressure.....	55	54.9	PSI
(G) Final Closed-In Pressure.....	88	90.4	PSI
(H) Final Hydrostatic Mud.....	1895	1899.7	PSI

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## TEST TICKET

ORIGINAL

No

3049

Well Name & No. Erishie #5 Test No. 1 Date 9-2-80  
Company Hallwood Petro, Inc. Zone Tested "H" L.K.C.  
Address P.O. Box 378111, Denver, Colo. 80237 Elevation 1957  
Co. Rep./Geo. Scott Alberg Cont. Duke #2 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 5 Twp. 26S Rge. 13W Co. Pratt State Ks.  
No. of Copies 5 Distribution Sheet \_\_\_\_\_ Yes  No  Turnkey \_\_\_\_\_ Yes  No

Interval Tested 3888-3910 Drill Pipe Size 4.5 XH  
Anchor Length 22 Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
Top Packer Depth 3883 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
Bottom Packer Depth 3888 Wt. Pipe I.D. — 2.7 Ft. Run 289  
Total Depth 3910 Drill Collar — 2.25 Ft. Run \_\_\_\_\_  
Mud Wt. 9 lb/gal. Viscosity 43 Filtrate 2.6  
Tool Open @ 4:00 P.M. Initial Blow Weak Steady Surface blow

Final Blow Weak - Died in 5 min.

Recovery — Total Feet 21 Flush Tool? \_\_\_\_\_  
Rec. 60 Feet of G.I.P.  
Rec. 1 Feet of C.O.  
Rec. 20 Feet of O.C. Gsym. 2070 0 570 G. 7570 M.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 116 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity 305 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 6500 ppm System

(A) Initial Hydrostatic Mud 1999 PSI AK1 Recorder No. 13754 Range 4000  
(B) First Initial Flow Pressure 55 PSI @ (depth) 3892 w/Clock No. 26199  
(C) First Final Flow Pressure 55 PSI AK1 Recorder No. 13849 Range 4325  
(D) Initial Shut-in Pressure 88 PSI @ (depth) 3906 w/Clock No. 26191  
(E) Second Initial Flow Pressure 55 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 55 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 88 PSI Initial Opening 30 Test 500 00  
(H) Final Hydrostatic Mud 1895 PSI Initial Shut-in 2045 Jars   
Final Flow 30 Safety Joint   
Final Shut-in 45 Straddle \_\_\_\_\_

Approved BY Scott Alberg  
Our Representative Dan Bangle  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_  
TOTAL PRICE \$ 500 00

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name & No.	FRISBIE #5	Test No.	2	Date	9/3/90
Company	HALLWOOD PETRO INC	Zone Tested	LKC		
Address	PO BOX 378111 DENVER COLO 80237	Elevation	1957		
Co. Rep./Geo.	SCOTT ALBERG	Cont.	DUKE #2	Est. Ft. of Pay	8
Location: Sec.	5	Twp.	26S	Rge.	13W
		Co.	PRATT	State	KS

Interval Tested	3928-3958	Drill Pipe Size	4.5 XH
Anchor Length	30	Top Choke — 1"	Bottom Choke — 3/4"
Top Packer Depth	3923	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	3928	Wt. Pipe I.D. — 2.7 Ft. Run	289
Total Depth	3958	Drill Collar — 2.25 Ft. Run	0
Mud Wt.	9.1	lb/gal.	Viscosity 46 Filtrate 9.6
Tool Open @	4:10AM	Initial Blow	WEAK BUILDING TO STRONG OFF BOTTOM
			OF BUCKET IN 1 MINUTES
Final Blow	STRONG OFF BOTTOM OF BUCKET IN 1 MINUTE		

Recovery — Total Feet	124	Flush Tool?	N
Rec.	1426	Feet of	GAS IN PIPE
Rec.	62	Feet of	OIL CUT GASSY MUD 10%OIL 10%GAS 80%MUD
Rec.	62	Feet of	MUD CUT GASSY OIL 25%MUD 10%GAS 65%OIL
Rec.	0	Feet of	
Rec.	0	Feet of	
BHT	119	°F Gravity	°API @ 0 °F Corrected Gravity 0 °API
RW	@	°F Chlorides	ppm Recovery Chlorides 5500 ppm System
(A) Initial Hydrostatic Mud	1925	PSI	Ak1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure	31.1	PSI @ (depth)	3932 w/Clock No. 26199
(C) First Final Flow Pressure	31.1	PSI	Ak1 Recorder No. 13849 Range 4375
(D) Initial Shut-in Pressure	371.1	PSI @ (depth)	3954 w/Clock No. 26191
(E) Second Initial Flow Pressure	51.1	PSI	Ak1 Recorder No. 0 Range 0
(F) Second Final Flow Pressure	60	PSI @ (depth)	0 w/Clock No. 0
(G) Final Shut-in Pressure	478.9	PSI	Initial Opening 30
(H) Final Hydrostatic Mud	1897.8	PSI	Initial Shut-in 60
			Final Flow 60
			Final Shut-in 120

DAN BANGLE

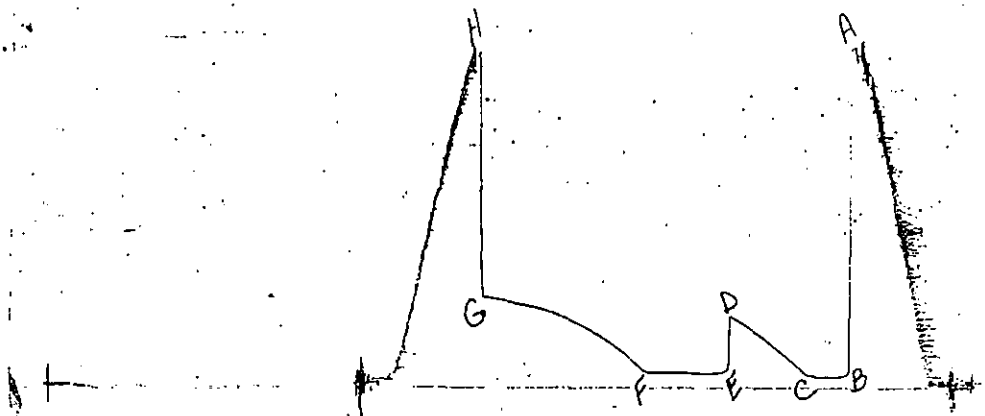
500

Our Representative \_\_\_\_\_

TOTAL PRICE \$ \_\_\_\_\_

ORIGINAL

DST# 2 RECORDER# 13849



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1960	1925	PSI
(B) First Initial Flow Pressure.....	66	31.1	PSI
(C) First Final Flow Pressure.....	77	31.1	PSI
(D) Initial Closed-In Pressure.....	400	371.1	PSI
(E) Second Initial Flow Pressure.....	88	51.1	PSI
(F) Second Final Flow Pressure.....	100	60	PSI
(G) Final Closed-In Pressure.....	522	478.9	PSI
(H) Final Hydrostatic Mud.....	1906	1897.8	PSI



CALCULATED RECOVERY ANALYSIS

DST # 2 TICKET # 3050

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	62	10	6.2	10	6.2	0	0	80	49.6
2	62	10	6.2	65	40.3	0	0	25	15.5
3	0	0	0	0	0	0	0	0	0
4			0		0		0		0
5			0		0		0		0
TOTAL	124	10	12.4	37.5	46.5	0	0	52.5	65.1

HRS OPEN BBL/DAY

BBL OIL= 0.3255 \* 1.5 11.718  
 BBL WATER 0 \* 0  
 BBL MUD= 0.4557

# ORIGINAL

## INITIAL FLOW

-----  
RECORDER # 13849  
DST #2

DT (MIN)	PRESSURE	<>	PRESSURE
0	31.1		31.1
3	31.1		0
6	31.1		0
9	31.1		0
12	31.1		0
15	31.1		0
18	31.1		0
21	31.1		0
24	31.1		0
27	31.1		0
30	31.1		0

## FINAL FLOW

-----  
RECORDER # 13849  
DST #2

DT (MIN)	PRESSURE	<>	PRESSURE
0	51.1		51.1
3	51.1		0
6	51.1		0
9	51.1		0
12	51.1		0
15	51.1		0
18	51.1		0
21	51.1		0
24	51.1		0
27	51.1		0
30	51.1		0
33	51.1		0
36	51.1		0
39	51.1		0
42	55.6		4.5
45	56.7		1.100002
48	57.8		1.099999
51	58.9		1.100002
54	60		1.099999
57	60		0
60	60		0

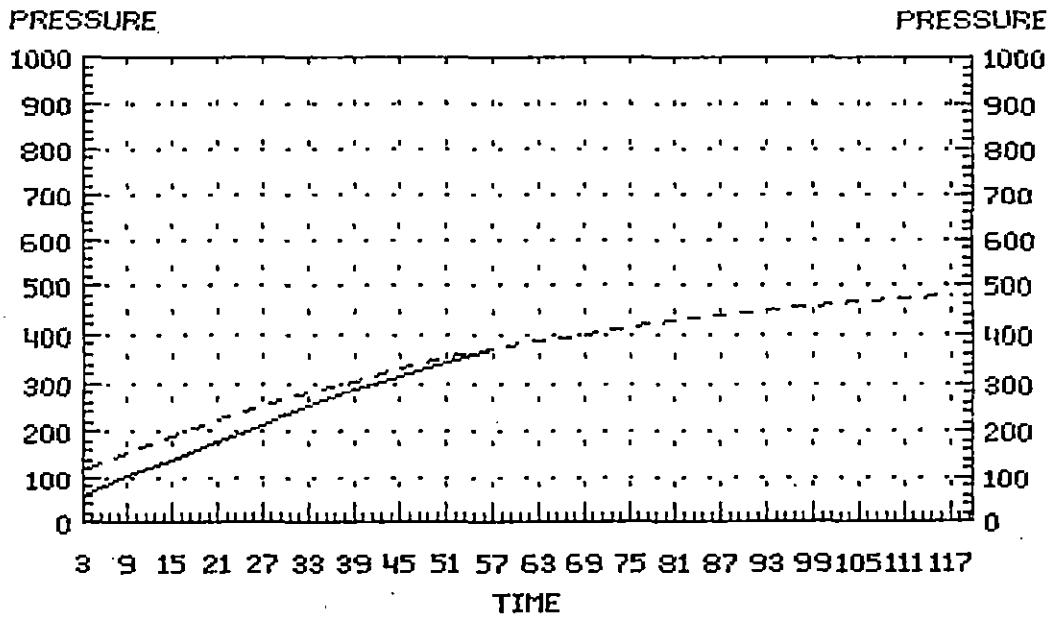
# DELTA T DELTA P

DST #2 INITIAL & FINAL SHUTIN

RECORDER # 13849

INITIAL

FINAL



ORIGINAL

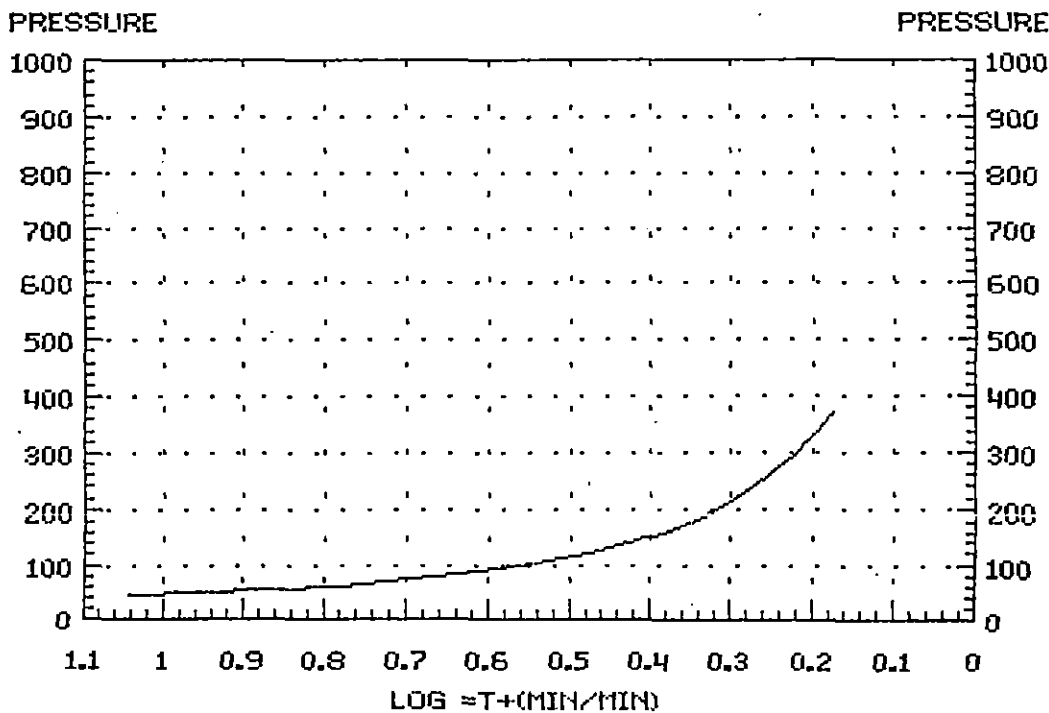
FRISBIE #5 DST #2  
INITIAL SHUTIN  
30 INITIAL FLOW TIME

-----  
Slope \*\*\*\*\*psi/cycle  
P \* 669 psi  
-----

TIME(MIN)	Pws (psi)	Horn T	Log		<> PRESSURE
			Horn T		
3	43.3	11	1.041	43.3	
6	61.1	6	0.778	17.8	
9	91.1	4	0.637	20.0	
12	102.2	4	0.544	21.1	
15	120.0	3	0.477	17.8	
18	140.0	3	0.426	20.0	
21	158.9	2	0.385	18.9	
24	177.8	2	0.352	18.9	
27	195.6	2	0.325	17.8	
30	212.2	2	0.301	16.6	
33	232.2	2	0.281	20.0	
36	250.0	2	0.263	17.8	
39	267.8	2	0.248	17.8	
42	283.3	2	0.234	15.5	
45	296.7	2	0.222	13.4	
X 48	312.2	2	0.211	15.5	
51	330.0	2	0.201	17.8	
54	342.2	2	0.192	12.2	
X 57	358.9	2	0.184	16.7	
60	371.1	2	0.176	12.2	

### HORNER PLOT

DST #2 INITIAL SHUTIN  
RECORDER # 13849



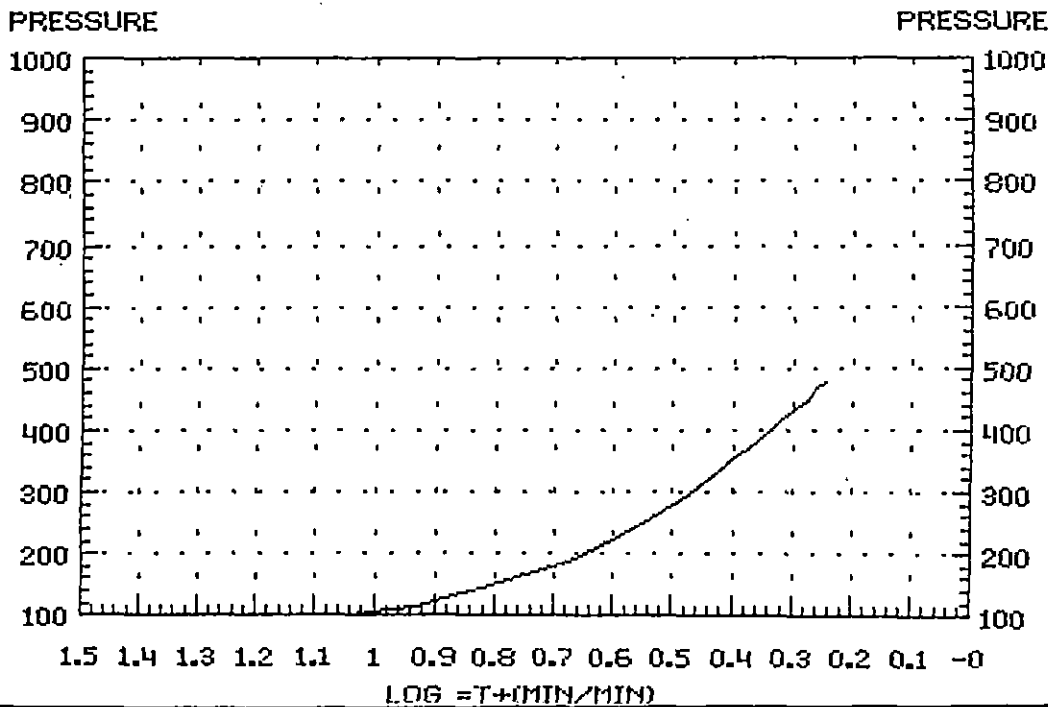
FRISBIE #5 DST #2  
 INITIAL SHUTIN  
 90 TOTAL FLOW TIME

-----  
 Slope -834.21 psi/cycle  
 P \* 682 psi  
 -----

TIME(MIN)	Pws (psi)	Log		<> PRESSURE
		Horn T	Horn T	
6	78.9	16	1.204	78.9
12	115.6	9	0.929	36.7
18	155.6	6	0.778	40.0
24	188.9	5	0.677	33.3
30	223.3	4	0.602	34.4
36	251.1	4	0.544	27.8
42	280.0	3	0.497	28.9
48	304.4	3	0.459	24.4
54	328.9	3	0.426	24.5
60	354.4	3	0.398	25.5
X 66	370.0	2	0.374	15.6
72	387.8	2	0.352	17.8
78	402.2	2	0.333	14.4
84	416.7	2	0.316	14.5
90	427.8	2	0.301	11.1
96	440.0	2	0.287	12.2
102	448.9	2	0.275	8.9
108	465.6	2	0.263	16.7
114	472.2	2	0.253	6.6
X 120	478.9	2	0.243	6.7

### HORNER PLOT

DST #2 FINAL SHUTIN  
 RECORDER # 13849



# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## TEST TICKET

No 3050

Well Name & No. Frisbie #5 Test No. 2 Date 9-3-90  
 Company Hallwood Petro, Inc. Zone Tested L.K.C.  
 Address P.O. Box 37811, Denver, Colo. 80237 Elevation 1957 K.B.  
 Co. Rep./Geo. Scott Alberg cont. Duke #2 Est. Ft. of Pay 8  
 Location: Sec. 5 Twp. 26s Rge. 13w Co. Pratt State Ks.  
 No. of Copies 5 Distribution Sheet Yes  No Turnkey Yes  No

Interval Tested 3928-3958 Drill Pipe Size 4.5 XH  
 Anchor Length 30 Top Choke — 1" Bottom Choke — 3/4"  
 Top Packer Depth 3923 Hole Size — 7 1/8" Rubber Size — 6 3/4"  
 Bottom Packer Depth 3928 Wt. Pipe I.D. — 2.7 Ft. Run 289  
 Total Depth 3958 Drill Collar — 2.25 Ft. Run  
 Mud Wt. 9.1 lb/gal. Viscosity 46 Filtrate 9.6  
 Tool Open @ 4:10 A.M. Initial Blow Weak - building to strong - off bottom of bucket in 11 min.  
 Final Blow Strong - off bottom of bucket in 1 min.

Recovery — Total Feet 124 Flush Tool? \_\_\_\_\_  
 Rec. 1426 Feet of G.I.P.  
 Rec. 62 Feet of O.C. Gsym 10200 10206 8020M  
 Rec. 62 Feet of M.C. Gsym 2520M 10206 65200  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 BHT 119 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 6500 ppm System  
 (A) Initial Hydrostatic Mud 1960 PSI Ak1 Recorder No. 13754 Range 4000  
 (B) First Initial Flow Pressure 66 PSI @ (depth) 3932 w/Clock No. 26199  
 (C) First Final Flow Pressure 77 PSI AK1 Recorder No. 13849 Range 4375  
 (D) Initial Shut-In Pressure 400 PSI @ (depth) 3954 w/Clock No. 26191  
 (E) Second Initial Flow Pressure 88 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 100 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 522 PSI Initial Opening 30 Test \_\_\_\_\_  
 (H) Final Hydrostatic Mud 1906 PSI Initial Shut-In 60 Jars   
 Final Flow 60 Safety Joint   
 Final Shut-In 120 Straddle \_\_\_\_\_

Approved By Scott Alberg

Our Representative Dan Ronge

Circ. sub   
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ \_\_\_\_\_

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name & No. <u>FRISBIE #5</u>	Test No. <u>3</u>	Date <u>9/3/90</u>	
Company <u>HALLWOOD PETROLEUM INC</u>	Zone Tested <u>LANSING-KS CITY K</u>		
Address <u>P.O. BOX 378111 DENVER CO 80237</u>		Elevation <u>1957</u>	
Co. Rep./Geo. <u>MR SCOTT ALBERG</u>	Cont. <u>DUKE DRLG #2</u>	Est. Ft. of Pay <u>4</u>	
Location: Sec. <u>5</u>	Twp. <u>26S</u>	Rge. <u>13W</u>	Co. <u>PRATT</u> State <u>KANSAS</u>

Interval Tested <u>3965-4000</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>35</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3960</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3965</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>289</u>
Total Depth <u>4000</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>42</u> Filtrate <u>10.4</u>
Tool Open @ <u>6:23 PM</u> Initial Blow <u>WEAK-BUILDING TO STRONG OFF BOTTOM OF BUCKET IN 23 MINUTES</u>	
Final Blow <u>STRONG-OFF BOTTOM OF BUCKET IN 3 MINUTES</u>	

Recovery — Total Feet <u>112</u>	Flush Tool? <u>NO</u>
Rec. <u>1250</u> Feet of <u>GAS IN PIPE</u>	
Rec. <u>50</u> Feet of <u>OIL CUT WATERY GASSY MUD-10%OIL/20%WTR/20%GAS/50%MUD</u>	
Rec. <u>62</u> Feet of <u>OIL CUT GASSY MUD-20%OIL/25%GAS/55%MUD</u>	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	
BHT <u>120</u> °F Gravity _____ °API @ <u>0</u> °F Corrected Gravity <u>0</u> °API	
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides <u>8500</u> ppm System	
(A) Initial Hydrostatic Mud <u>1961.3</u> PSI Ak1 Recorder No. <u>13754</u> Range <u>4000</u>	
(B) First Initial Flow Pressure <u>45.7</u> PSI @ (depth) <u>3969</u> w/Clock No. <u>26199</u>	
(C) First Final Flow Pressure <u>45.7</u> PSI AK1 Recorder No. <u>13849</u> Range <u>4375</u>	
(D) Initial Shut-In Pressure <u>181.4</u> PSI @ (depth) <u>3996</u> w/Clock No. <u>26191</u>	
(E) Second Initial Flow Pressure <u>68.9</u> PSI AK1 Recorder No. <u>0</u> Range <u>0</u>	
(F) Second Final Flow Pressure <u>68.9</u> PSI @ (depth) <u>0</u> w/Clock No. <u>0</u>	
(G) Final Shut-In Pressure <u>260.3</u> PSI Initial Opening <u>30</u>	
(H) Final Hydrostatic Mud <u>1610.2</u> PSI Initial Shut-In <u>60</u>	
	Final Flow <u>60</u>
	Final Shut-In <u>120</u>

MR DAN BANGLE

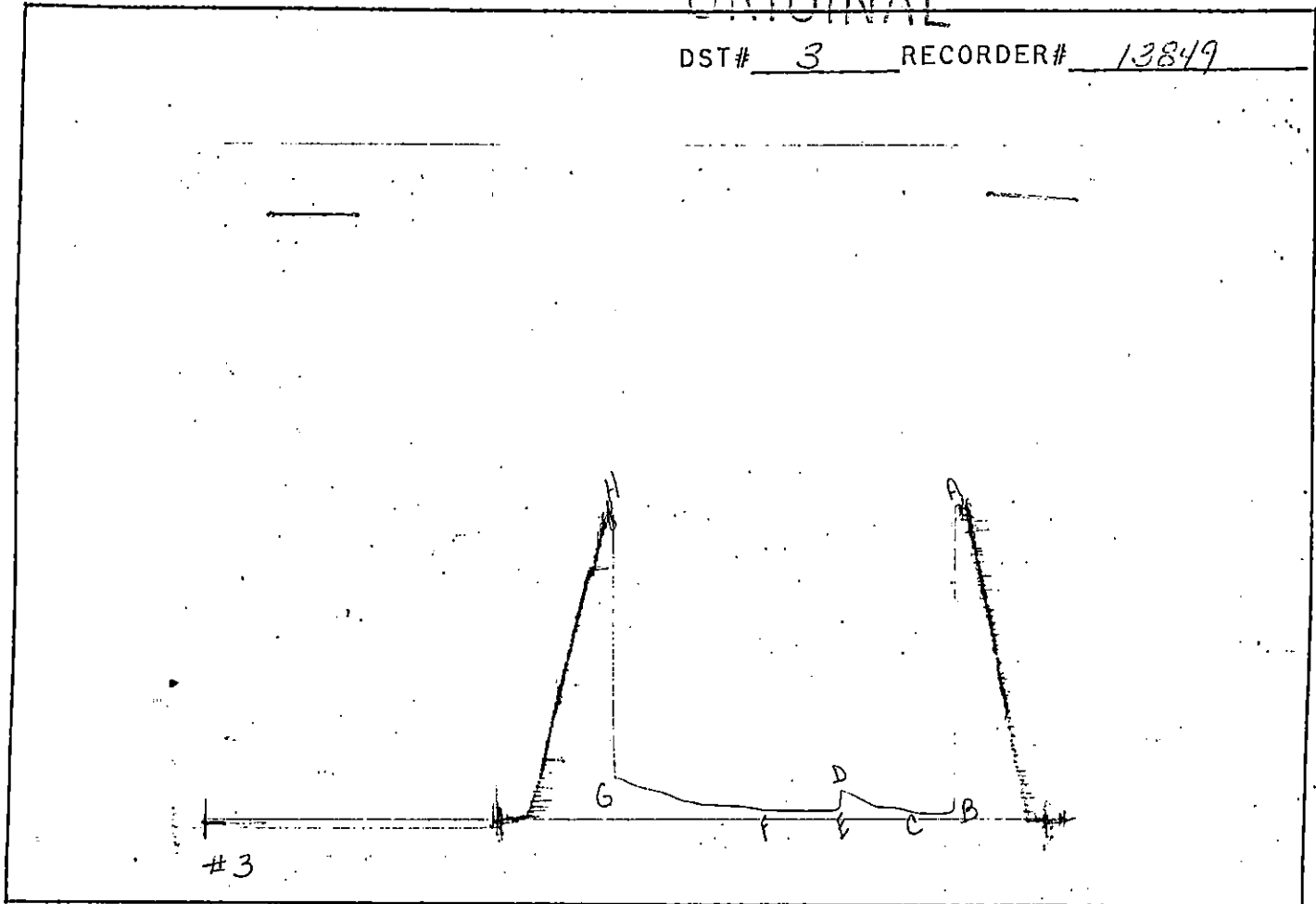
500

Our Representative \_\_\_\_\_

TOTAL PRICE \$ \_\_\_\_\_

ORIGINAL

DST# 3 RECORDER# 13849



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1960	1961.3	PSI
(B) First Initial Flow Pressure.....	44	45.7	PSI
(C) First Final Flow Pressure.....	44	45.7	PSI
(D) Initial Closed-In Pressure.....	177	181.4	PSI
(E) Second Initial Flow Pressure.....	66	68.9	PSI
(F) Second Final Flow Pressure.....	66	68.9	PSI
(G) Final Closed-In Pressure.....	255	260.3	PSI
(H) Final Hydrostatic Mud.....	1906	1610.2	PSI



# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## TEST TICKET

No 3226

Well Name & No. Frisbie #5 Test No. 3 Date 9-2-80  
Company Hallwood Petro, Inc. Zone Tested K L.K.C.  
Address P.O. Box 37811, Denver, Colo. 80237 Elevation 1957 K.B.  
Co. Rep./Geo. SCOTT R. Berg Cont. Duke #2 Est. Ft. of Pay 4  
Location: Sec. 5 Twp. S6S Rge. 13W Co. Pratt State Ks.  
No. of Copies 5 Distribution Sheet Yes X No Turnkey Yes X No

Interval Tested 3965-4000 Drill Pipe Size 4.5 XH  
Anchor Length 35 Top Choke — 1" Bottom Choke — 3/4"  
Top Packer Depth 3960 Hole Size — 77/8" Rubber Size — 63/4"  
Bottom Packer Depth 3965 Wt. Pipe I.D. — 2.7 Ft. Run 289  
Total Depth 4000 Drill Collar — 2.25 Ft. Run  
Mud Wt. 9.1 lb/gal. Viscosity 42 Filtrate 10.4  
Tool Open @ 6:23 P.M. Initial Blow Weak - building to strong off bottom of bucket in 23 min.  
Final Blow Strong - off bottom of bucket in 3 min.

Recovery — Total Feet 112 Flush Tool? \_\_\_\_\_  
Rec. 1250 Feet of G.I.P.  
Rec. 50 Feet of O.C. w/ky Gsym 10200 2090W 2090G-5020M  
Rec. 62 Feet of O.C. Gsym (Frothy) 20900 2520G-5520M  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 120 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 8500 ppm System  
(A) Initial Hydrostatic Mud 1960 PSI AK1 Recorder No. 13754 Range 4000  
(B) First Initial Flow Pressure 44 PSI @ (depth) 3969 w/Clock No. 26199  
(C) First Final Flow Pressure 44 PSI AK1 Recorder No. 13849 Range 4375  
(D) Initial Shut-in Pressure 177 PSI @ (depth) 3996 w/Clock No. 26191  
(E) Second Initial Flow Pressure 66 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 66 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 255 PSI Initial Opening 30 Test \_\_\_\_\_  
(H) Final Hydrostatic Mud 1906 PSI Initial Shut-in 60 Jars X  
Final Flow 60 Safety Joint X  
Final Shut-in 120 Straddle \_\_\_\_\_

Approved By Scott Berg Circ. Sub X  
Our Representative Dan Ramey Sampler \_\_\_\_\_  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_  
TOTAL PRICE \$ \_\_\_\_\_