

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

ORIGINAL

APP. NO. 15- 185-22,708-0000

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: N/A

Operator Contact Person: George Hutton

Phone (316), 792-2756

Contractor: Name: Duke Drilling Company

License: 5929

Wellsite Geologist: Jim Musgrove

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  S10W  Temp. Abd.  
 Gas  ENHR  S16W  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

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

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

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

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

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBTB  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

9/2/90 9/9/90 P&A 9/9/90  
Spud Date Date Reached TD Completion Date

County Stafford

-SW -SE -NE Sec. 30 Twp. 22 Rge. 11  <sup>E</sup> <sub>W</sub>

2970 Feet from  S/N (circle one) Line of Section

990 Feet from  E/W (circle one) Line of Section

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

Lease Name Komarek Well # 23

Field Name Richardson

Producing Formation N/A

Elevation: Ground 1821 KB 1826

Total Depth 3655 PBTB \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 267 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan A172 D40  
(Data must be collected from the Reserve Pit)

Chloride content 8250 ppm Fluid volume 306 bbls

Dewatering method used hailed water

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name Hallwood Petroleum Inc.

Lease Name Richardson SWD #2 License No. 3613

nw Quarter Sec. 32 Twp. 22 S Rng. 11 E/W

County Stafford Docket No. 3-2847

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 details). 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 Martin Ball  
Title Sr. Engineering Tech Date 2/27/92

Subscribed and sworn to before me this 27<sup>th</sup> day of February, 1992.

Notary Public Arthur Kaus

Date Commission Expires May 21, 1994

RECEIVED  
KANSAS CORPORATION COMMISSION  
CONSERVATION DIVISION  
WICHITA, KS  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rap  NGPA  
 KGS  Plug  Other  
(Specify)

Operator Name Hallwood Petroleum, Inc. Lease Name Komarek Well # 23  
 Sec. 30 Twp. 22 Rge. 11  East  West  
 County Stafford

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 Datum	<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	Severy	2729' (-903')	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	2789' (-963')	
List All E.Logs Run:		Heebner	3074' (-1248')	
DIL		Toronto	3092' (-1266')	
CAL		Douglas	3104' (-1278')	
DSN-CDL		Brown Lime	3211' (-1385')	
		Lansing	3237' (-1411')	

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#	267'	60/40 poz	125	3% cc 2% gel
						100	3% cc no gel

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth	Type of Cement	#Sacks Used	Type and Percent Additives
	Top Bottom			
<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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) P&A

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

# TRILOBITE TESTING COMPANY

# ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name & No.	KOMARK #23	Test No.	1	Date	9/5/90
Company	HALLWOOD PETROLEUM INC	Zone Tested	LANSING-KS CITY		
Address	P.O. BOX 378111 DENVER COLORADO 80237		Elevation	1821	
Co. Rep./Geo.	MR J.C. MUSGROVE	Cont.	DUKE DR LG	Est. Ft. of Pay	0
Location: Sec.	30	Twp.	22S	Rge.	11W
		Co.	STAFFORD	State	KANSAS

Interval Tested	3292-3319	Drill Pipe Size	4.5" FH
Anchor Length	27	Top Choke — 1"	Bottom Choke — 1/4"
Top Packer Depth	3287	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	3292	Wt. Pipe I.D. — 2.7 Ft. Run	0
Total Depth	3319	Drill Collar — 2.25 Ft. Run	0
Mud Wt.	9.2	lb/gal.	Viscosity 47 Filtrate 11.21
Tool Open @	6:30 AM	Initial Blow	VERY WEAK FOR 15 MINUTES—TOOL
	SLID 6 FT TO BOTTOM		
Final Blow	NO BLOW		

Recovery — Total Feet	30	Flush Tool?	YES
Rec.	30	Feet of	MUD
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
BHT	104	%F Gravity	%API @ 0 %F Corrected Gravity 0 %API
RW	1.0	@ 80 %F Chlorides	5000 ppm Recovery Chlorides 5000 ppm System
(A) Initial Hydrostatic Mud	1721.3	PSI	AK1 Recorder No. 13850 Range 4425
(B) First Initial Flow Pressure	30.9	PSI	@ (depth) 3297 w/Clock No. 25813
(C) First Final Flow Pressure	47.8	PSI	AK1 Recorder No. 13851 Range 4325
(D) Initial Shut-In Pressure	68.2	PSI	@ (depth) 3319 w/Clock No. 31154
(E) Second Initial Flow Pressure	47.8	PSI	AK1 Recorder No. 0 Range 0
(F) Second Final Flow Pressure	47.8	PSI	@ (depth) 0 w/Clock No. 0
(G) Final Shut-In Pressure	68.2	PSI	Initial Opening 30
(H) Final Hydrostatic Mud	1700.9	PSI	Initial Shut-In 30
			Final Flow 30
			Final Shut-In 30

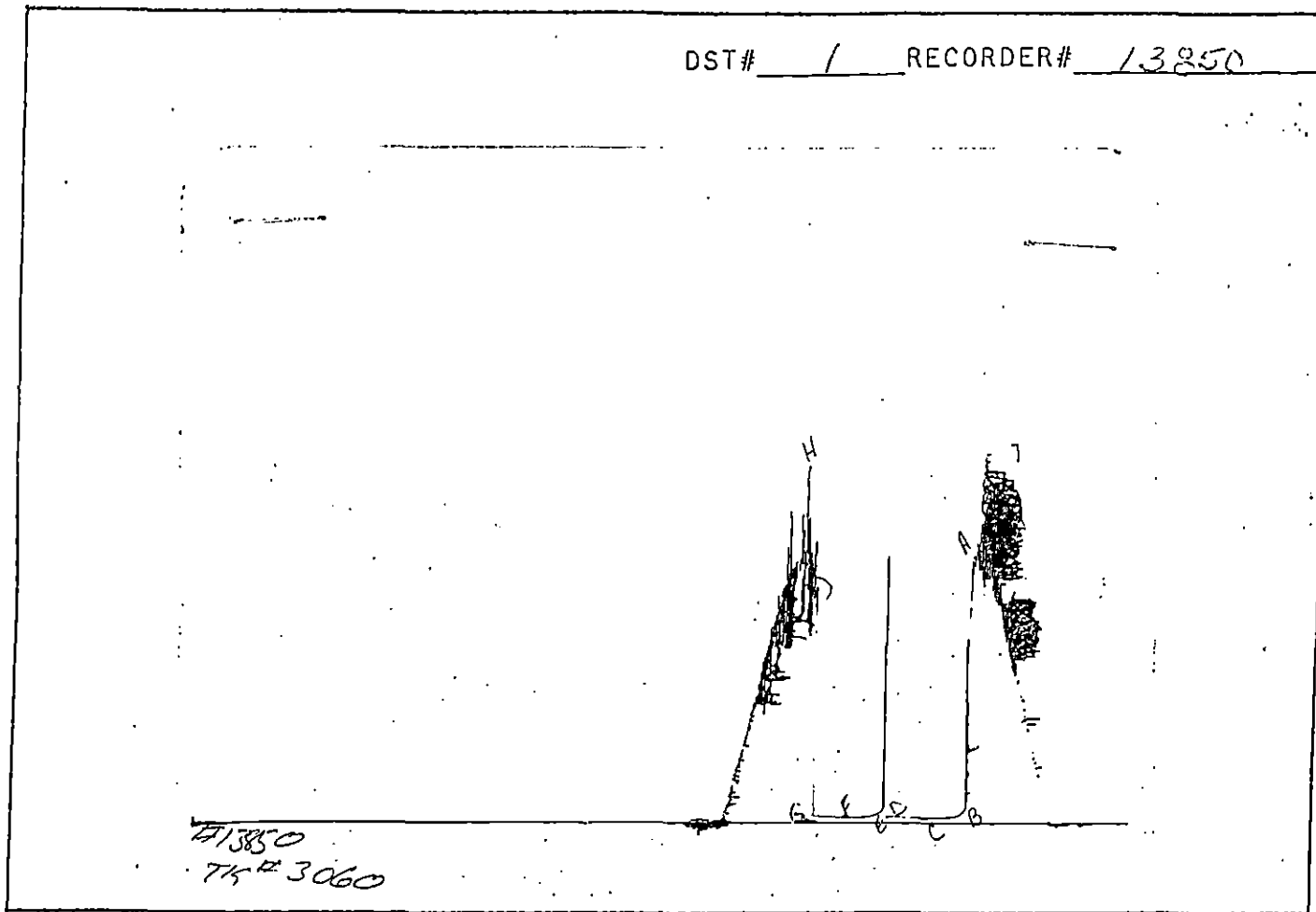
MR HARRY SCHMIDT

525

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

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

DST# 1 RECORDER# 13850



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1707	1721.3	PSI
(B) First Initial Flow Pressure.....	33	30.9	PSI
(C) First Final-Flow Pressure.....	44	47.8	PSI
(D) Initial Closed-In Pressure.....	66	68.2	PSI
(E) Second Initial Flow Pressure.....	44	47.8	PSI
(F) Second Final Flow Pressure.....	44	47.8	PSI
(G) Final Closed-In Pressure.....	66	68.2	PSI
(H) Final Hydrostatic Mud.....	1707	1700.9	PSI

# TRILOBITE TESTING COMPANY ORIGINAL

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 3060 Date 9/5/90  
Company Name HALLWOOD PETROLEUM INC  
Lease KOMARK #23 Test No. 1  
County STAFFORD Sec. 30 Twp. 22S Rng. 11W

### SAMPLER RECOVERY

Gas 0 CU. FT. 0 ML  
Oil 0 ML  
Mud 4000 ML  
Water 0 ML  
Other 0 ML  
Pressure 50 PSI  
Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 5000 ppm.  
Resistivity 1 ohms @ 80 F  
Viscosity 47  
Mud Weight 9.2  
Filtrate 11.2  
Other N

### SAMPLER ANALYSIS

Resistivity 1 ohms @ 80 F  
Chlorides 5000 ppm.  
Gravity 0 corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity 1 ohms @ 80 F  
Chlorides 5000 ppm.

#### MIDDLE

Resistivity 0 ohms @ 0 F  
Chlorides 0 ppm.

#### BOTTOM

Resistivity 0 ohms @ 0 F  
Chlorides 0 ppm.

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## TEST TICKET

No 3060

Well Name & No. KOMARK # 23 Test No. ONE Date 9-5-90  
Company HALLWOOD PETROLEUM INC. Zone Tested LKC. - 70  
Address P.O. BOX 37811 DENVER CO. 80237 Elevation 1821  
Co. Rep./Geo. J.C. MUSGRAVE Cont. DUKE Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 30 Twp. 22 S Rge. 11 W Co. STAFFORD State KS.  
No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Turnkey \_\_\_\_\_ Yes \_\_\_\_\_  No

Interval Tested 3292 TO 3319 Drill Pipe Size 4 1/2" REG.  
Anchor Length 27 Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
Top Packer Depth 3287 Hole Size — 7 1/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
Bottom Packer Depth 3292 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
Total Depth 3319 Drill Collar — 2.25 Ft. Run \_\_\_\_\_  
Mud Wt. 9.2 lb/gal. Viscosity 47 Filtrate 11.2  
Tool Open @ 6:30 A- Initial Blow VERY WEAR FOR 15" MAN  
TOOL SLID 6' TO BOT.  
Final Blow NO BLOW

Recovery — Total Feet 30 Flush Tool? YES  
Rec. 30 Feet of MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 104 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 1-0 @ 80 °F Chlorides 5000 ppm Recovery Chlorides 5000 ppm System  
(A) Initial Hydrostatic Mud 1707 PSI AK1 Recorder No. 13850 Range 4425  
(B) First Initial Flow Pressure 33 PSI @ (depth) 3297 w/Clock No. 25817  
(C) First Final Flow Pressure 44 PSI AK1 Recorder No. 13851 Range 4725  
(D) Initial Shut-in Pressure 66 PSI @ (depth) 3319 w/Clock No. 31154  
(E) Second Initial Flow Pressure 44 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 44 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 66 PSI Initial Opening 70 Test 400  
(H) Final Hydrostatic Mud 1707 PSI Initial Shut-in 30 Jars \_\_\_\_\_  
Final Flow 30 Safety Joint \_\_\_\_\_  
Final Shut-in 30 Straddle \_\_\_\_\_

Approved By [Signature] Circ. Sub \_\_\_\_\_  
Our Representative [Signature] Sampler 125" @  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_  
TOTAL PRICE \$ 525.00

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

# ORIGINAL

## Drill-Stem Test Data

Well Name & No. <u>KOMARK #23</u>	Test No. <u>2</u>	Date <u>9/5/90</u>
Company <u>HALLWOOD PETROLEUM INC</u>	Zone Tested <u>LANSING-KS CITY</u>	
Address <u>P.O. BOX 378111 DENVER COLORADO 80237</u>	Elevation <u>1821</u>	
Co. Rep./Geo. <u>MR J.C. MUSGROVE</u>	Cont. <u>DUKE DRLG</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>30</u>	Twp. <u>22S</u>	Rge. <u>11W</u>
	Co. <u>STAFFORD</u>	State <u>KANSAS</u>

Interval Tested <u>3367-3382</u>	Drill Pipe Size <u>4.5" FH</u>
Anchor Length <u>15</u>	Top Choke — 1" <u>        </u> Bottom Choke — 3/4" <u>        </u>
Top Packer Depth <u>3362</u>	Hole Size — 7 7/8" <u>        </u> Rubber Size — 6 3/4" <u>        </u>
Bottom Packer Depth <u>3367</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>0</u>
Total Depth <u>3382</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>47</u> Filtrate <u>11.2</u>
Tool Open @ <u>10:00 PM</u> Initial Blow <u>WEAK TO FAIR BLOW-3" IN BUCKET IN</u>	
<u>10 MINUTES</u>	
Final Blow <u>SAME AS INITIAL</u>	

Recovery — Total Feet <u>30</u>	Flush Tool? <u>NO</u>
Rec. <u>380</u> Feet of <u>GAS IN PIPE</u>	
Rec. <u>30</u> Feet of <u>OIL CUT MUD-10%OIL/90% MUD</u>	
Rec. <u>0</u> Feet of <u>        </u>	
Rec. <u>0</u> Feet of <u>        </u>	
Rec. <u>0</u> Feet of <u>        </u>	
BHT <u>106</u> °F Gravity <u>80</u> °F	°API @ <u>5000</u> ppm Recovery Chlorides <u>5000</u> ppm System
RW <u>1.0</u> @ <u>80</u> °F Chlorides <u>1511.2</u>	Chlorides <u>13850</u> ppm System <u>4425</u>
(A) Initial Hydrostatic Mud <u>        </u> PSI	AK1 Recorder No. <u>        </u> Range <u>        </u>
(B) First Initial Flow Pressure <u>20.9</u> PSI	@ (depth) <u>3377</u> w/Clock No. <u>25813</u>
(C) First Final Flow Pressure <u>31.4</u> PSI	AK1 Recorder No. <u>13851</u> Range <u>4325</u>
(D) Initial Shut-In Pressure <u>116.9</u> PSI	@ (depth) <u>3382</u> w/Clock No. <u>31154</u>
(E) Second Initial Flow Pressure <u>32.9</u> PSI	AK1 Recorder No. <u>0</u> Range <u>0</u>
(F) Second Final Flow Pressure <u>32.9</u> PSI	@ (depth) <u>0</u> w/Clock No. <u>0</u>
(G) Final Shut-In Pressure <u>114.5</u> PSI	Initial Opening <u>60</u>
(H) Final Hydrostatic Mud <u>1600.9</u> PSI	Initial Shut-In <u>60</u>
	Final Flow <u>60</u>
	Final Shut-In <u>60</u>

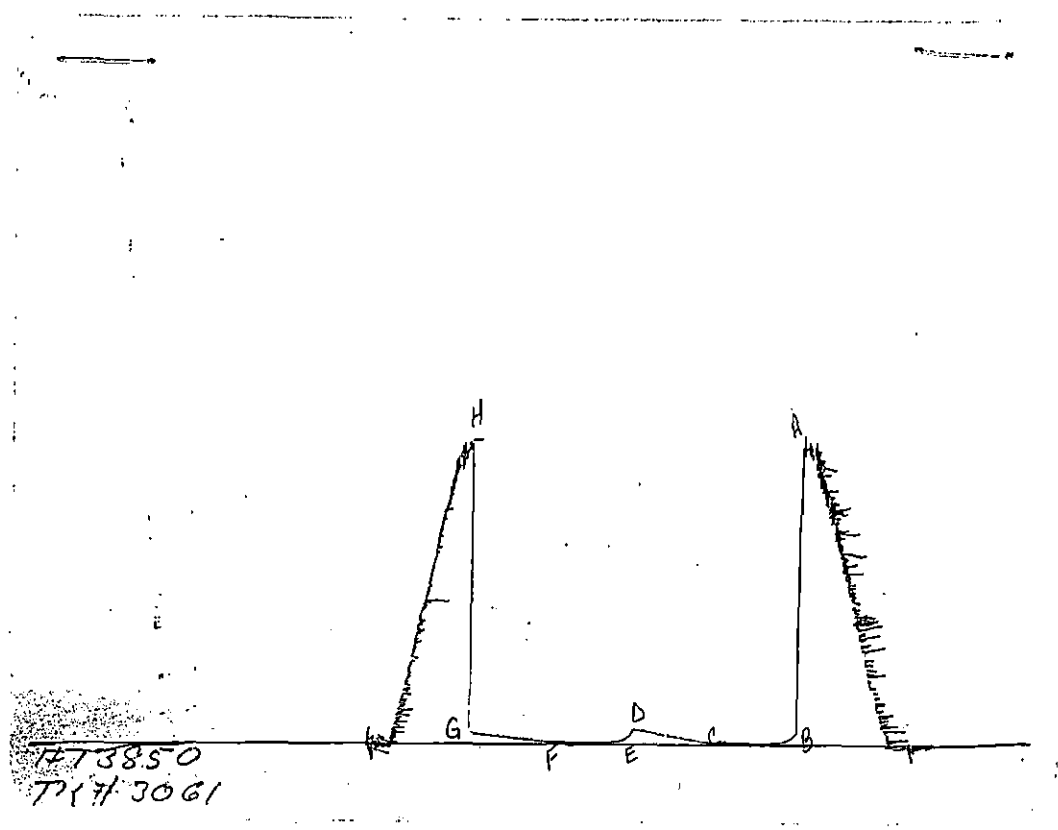
MR HARRY SCHMIDT'

525

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

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

DST# 2 RECORDER# 13850



This is an actual photograph of recorder chart.

**PRESSURE**

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1610	1611.2	PSI
(B) First Initial Flow Pressure.....	22	20.9	PSI
(C) First Final Flow Pressure.....	33	31.4	PSI
(D) Initial Closed-in Pressure.....	111	116.9	PSI
(E) Second Initial Flow Pressure.....	33	32.9	PSI
(F) Second Final Flow Pressure.....	33	32.9	PSI
(G) Final Closed-in Pressure.....	111	114.5	PSI
(H) Final Hydrostatic Mud.....	1610	1600.9	PSI



# TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

# ORIGINAL

## FLUID SAMPLER DATA

Ticket No. 3061 Date 9/5/90  
Company Name HALLWOOD PETROLEUM INC  
Lease KOMARK #23 Test No. 2  
County STAFFORD Sec. 30 Twp. 22S Rng. 11W

### SAMPLER RECOVERY

Gas 0 CU. FT. 0 ML  
Oil 0 ML  
Mud 4000 ML  
Water 0 ML  
Other 0 ML  
Pressure 30 PSI  
Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 5000 ppm.  
Resistivity 1 ohms @ 80 F  
Viscosity 47  
Mud Weight 9.2  
Filtrate 11.2  
Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity 1 ohms @ 80 F  
Chlorides 5000 ppm.  
Gravty 0 corrected @ 80 F

### PIPE RECOVERY

TOP  
Resistivity 1 ohms @ 80 F  
Chlorides 5000 ppm.  
MIDDLE  
Resistivity 0 ohms @ 0 F  
Chlorides 0 ppm.  
BOTTOM  
Resistivity 0 ohms @ 0 F  
Chlorides 0 ppm.

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## TEST TICKET

No 3061

Well Name & No. KOMARK # 23 Test No. TWO Date 9-5-90  
Company HALLWOOD PETROLEUM INC. Zone Tested LRC. - H  
Address P.O. BOX 37811 DENVER CO. 80237 Elevation 1821  
Co. Rep./Geo. J.C. MARGRAVE Cont. DUKE Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 30 Twp. 22 S Rge. 11 W Co. STANBURN State KAN.  
No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_

Interval Tested 3367 TO 3382 Drill Pipe Size 4 1/2" F.H.  
Anchor Length 15' Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
Top Packer Depth 3362 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
Bottom Packer Depth 3367 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
Total Depth 3382 Drill Collar — 2.25 Ft. Run \_\_\_\_\_  
Mud Wt. \_\_\_\_\_ 9.2 lb/gal. Viscosity 45 Filtrate 11-2  
Tool Open @ 10:00 P Initial Blow WEAK TO FAIR 3" IN BURMET  
IN 10 MIN.  
Final Blow SAME AS INITIAL

Recovery — Total Feet 410 Flush Tool? NO  
Rec. 380 Feet of GAS IN PIPE  
Rec. 30 Feet of OIL CUT MUD  
Rec. \_\_\_\_\_ Feet of 10% OIL 90% MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
BHT 106 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 1.0 @ 80 °F Chlorides 5000 ppm Recovery Chlorides 5.000 ppm System  
(A) Initial Hydrostatic Mud 1610 PSI AK1 Recorder No. 13850 Range 4425  
(B) First Initial Flow Pressure 22 PSI @ (depth) 3377 w/Clock No. 25813  
(C) First Final Flow Pressure 33 PSI AK1 Recorder No. 13851 Range 4325  
(D) Initial Shut-In Pressure 111 PSI @ (depth) 3382 w/Clock No. 31154  
(E) Second Initial Flow Pressure 33 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 33 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-In Pressure 111 PSI Initial Opening 60 Test 400  
(H) Final Hydrostatic Mud 1610 PSI Initial Shut-In 60 Jars \_\_\_\_\_  
Final Flow 60 Safety Joint \_\_\_\_\_  
Final Shut-In 60 Straddle \_\_\_\_\_  
Circ. Sub \_\_\_\_\_  
Sampler 125  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_

Approved By [Signature]

Our Representative [Signature]

Printcraft Printers - Hays, KS

TOTAL PRICE \$ 525

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

## Drill-Stem Test Data

Well Name & No. <u>KOMARK #23</u>	Test No. <u>3</u>	Date <u>9/6/90</u>
Company <u>HALLWOOD PETROLEUM INC</u>	Zone Tested <u>LANSING-KS CITY</u>	
Address <u>P.O. BOX 378111 DENVER COLORADO 80237</u>	Elevation <u>1821</u>	
Co. Rep./Geo. <u>MR J.C. MUSGROVE</u>	Cont. <u>DUKE DRLG</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>30</u>	Twp. <u>22S</u>	Rge. <u>11W</u> Co. <u>STAFFORD</u> State <u>KANSAS</u>

Interval Tested <u>3403-3442</u>	Drill Pipe Size <u>4.5" FH</u>
Anchor Length <u>39</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3308</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3403</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3442</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>51</u> Filtrate <u>10.8</u>
Tool Open @ <u>3:15 PM</u>	Initial Blow <u>RECEIVED FAIR BLOW THROUGHOUT TO</u>
<u>BOTTOM OF BUCKET IN 10 MINUTES</u>	
Final Blow <u>WEAK TO FAIR BLOW-4" IN BUCKET THROUGHOUT</u>	
<u>FLOW PERIOD</u>	

Recovery — Total Feet <u>135</u>	Flush Tool? <u>NO</u>
Rec. <u>585</u> Feet of <u>GAS IN PIPE</u>	
Rec. <u>15</u> Feet of <u>OIL CUT MUD</u>	
Rec. <u>120</u> Feet of <u>MUDDY WATER</u>	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	
BHT <u>106</u> °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API	
RW <u>0.1</u> @ <u>90</u> °F Chlorides <u>60000</u> ppm Recovery Chlorides <u>6000</u> ppm System <u>4425</u>	
(A) Initial Hydrostatic Mud <u>1788.9</u> PSI Ak1 Recorder No. <u>13850</u> Range _____	
(B) First Initial Flow Pressure <u>45.3</u> PSI @ (depth) <u>3408</u> w/Clock No. <u>25813</u>	
(C) First Final Flow Pressure <u>67.2</u> PSI Ak1 Recorder No. <u>13851</u> Range _____	
(D) Initial Shut-In Pressure <u>566.1</u> PSI @ (depth) <u>3442</u> w/Clock No. <u>31154</u>	
(E) Second Initial Flow Pressure <u>79.4</u> PSI Ak1 Recorder No. <u>0</u> Range _____	
(F) Second Final Flow Pressure <u>89.7</u> PSI @ (depth) <u>0</u> w/Clock No. <u>0</u>	
(G) Final Shut-In Pressure <u>491.2</u> PSI Initial Opening <u>45</u>	
(H) Final Hydrostatic Mud <u>1779.5</u> PSI Initial Shut-In <u>45</u>	
	Final Flow <u>45</u>
	Final Shut-in <u>45</u>

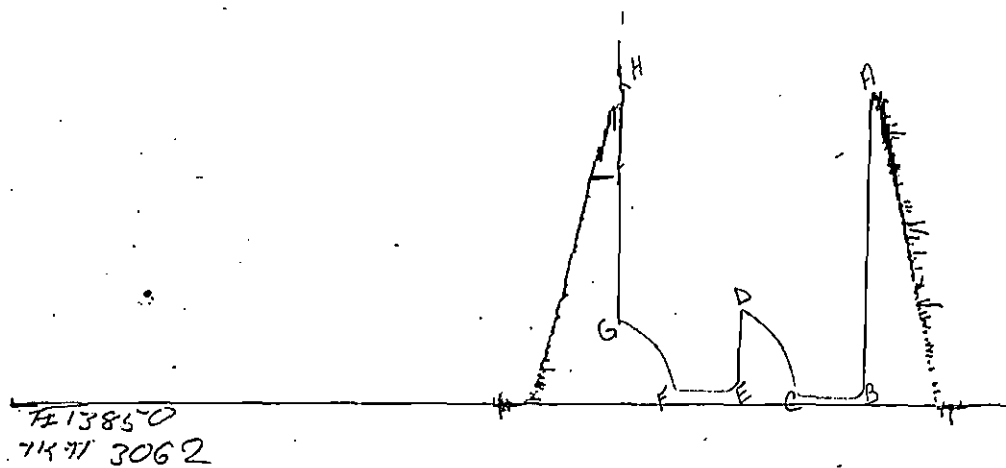
MR HARRY SCHMDIT

525

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

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

DST# 3 RECORDER# 13850



This is an actual photograph of recorder chart.

**PRESSURE**

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1785	1788.9	PSI
(B) First Initial Flow Pressure.....	44	45.3	PSI
(C) First Final Flow Pressure.....	66	67.2	PSI
(D) Initial Closed-In Pressure.....	565	566.1	PSI
(E) Second Initial Flow Pressure.....	77	79.4	PSI
(F) Second Final Flow Pressure.....	88	89.7	PSI
(G) Final Closed-In Pressure.....	488	491.2	PSI
(H) Final Hydrostatic Mud.....	1780	1779.5	PSI

# TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

# ORIGINAL

## FLUID SAMPLER DATA

Ticket No. 3062 Date 9/6/90

Company Name HALLWOOD PETROLEUM INC

Lease KOMARK #23 Test No. 3

County STAFFORD Sec. 30 Twp. 22S Rng. 11W

### SAMPLER RECOVERY

Gas 0 CU. FT. 0 ML  
Oil 0 ML  
Mud 0 ML  
Water 4000 ML  
Other 0 ML  
Pressure 0 PSI  
Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 6000 ppm.  
Resistivity .75 ohms @ 90 F  
Viscosity 51  
Mud Weight 9.2  
Filtrate 10.8  
Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity .1 ohms @ 90 F  
Chlorides 60000 ppm.  
Gravty 0 corrected @ 80 F

### PIPE RECOVERY

TOP  
Resistivity .1 ohms @ 90 F  
Chlorides 60000 ppm.  
MIDDLE  
Resistivity 0 ohms @ 0 F  
Chlorides 0 ppm.  
BOTTOM  
Resistivity 0 ohms @ 0 F  
Chlorides 0 ppm.

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## TEST TICKET

No 3062

Well Name & No. <u>ROMARK # 23</u>	Test No. <u>THREE</u>	Date <u>9-6-90</u>
Company <u>HALLWOOD PETROLEUM INC.</u>	Zone Tested <u>LKC.</u>	
Address <u>P.O. BOX 2711 DENVER CO. 80237</u>	Elevation <u>1821</u>	
Co. Rep. / Geo. <u>J.C. MUSGRAVE</u>	Cont. <u>DUNN</u>	Est. Ft. of Pay _____
Location: Sec. <u>30</u>	Twp. <u>22 S</u>	Rge. <u>11 W</u> Co. <u>STANLEY</u> State <u>KS.</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____

Interval Tested <u>3403 TO 3442</u>	Drill Pipe Size _____
Anchor Length <u>39'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3308</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 5/4" _____
Bottom Packer Depth <u>3403</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3442</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>51</u> Filtrate <u>10.8</u>
Tool Open @ <u>3:15 P</u>	Initial Blow <u>RECEIVED A FAIR BLOW THROUGHOUT BOT. OF BUCKET IN 10 MIN.</u>
Final Blow <u>WEAR TO FAIR 4" IN BUCKET THROUGHOUT F.P.</u>	

Recovery — Total Feet <u>135</u>	Flush Tool? <u>NO</u>
Rec. <u>585</u> Feet of <u>GAS IN PIPE</u>	
Rec. <u>15</u> Feet of <u>OIL CUT MUD</u>	
Rec. <u>120</u> Feet of <u>MUDY WATER</u>	
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	

BHT <u>106</u> °F Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW <u>0.1</u> @ <u>90</u> °F Chlorides <u>6000</u> ppm	Recovery Chlorides <u>6000</u> ppm	System _____	
(A) Initial Hydrostatic Mud <u>1785</u>	PSI AK1 Recorder No. <u>13850</u>	Range <u>4425</u>	
(B) First Initial Flow Pressure <u>44</u>	PSI @ (depth) <u>3408</u>	W/Clock No. <u>25813</u>	
(C) First Final Flow Pressure <u>66</u>	PSI AK1 Recorder No. <u>13851</u>	Range <u>4325</u>	
(D) Initial Shut-in Pressure <u>565</u>	PSI @ (depth) <u>3442</u>	W/Clock No. <u>31154</u>	
(E) Second Initial Flow Pressure <u>77</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>488</u>	PSI Initial Opening <u>45</u>	Test <u>4000</u>	
(H) Final Hydrostatic Mud <u>1780</u>	PSI Initial Shut-in <u>45</u>	Jars _____	
	Final Flow <u>45</u>	Safety Joint _____	
	Final Shut-in <u>45</u>	Straddle _____	

Approved By <u>[Signature]</u>	Circ. Sub _____
Our Representative <u>[Signature]</u>	Sampler <u>125</u>
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>125.00</u>

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

# ORIGINAL

## Drill-Stem Test Data

Well Name & No. <u>KOMARK #23</u>	Test No. <u>4</u>	Date <u>9/7/90</u>
Company <u>HALLWOOD PETROLEUM INC</u>	Zone Tested <u>ARBUCKLE</u>	
Address <u>P.O. BOX 378111 DENVER COLORADO 80237</u>	Elevation <u>1821</u>	
Co. Rep./Geo. <u>MR J.C. MUSGROVE</u>	Cont. <u>DUKE DRLG</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>30</u>	Twp. <u>22S</u>	Rge. <u>11W</u> Co. <u>STAFFORD</u> State <u>KANSAS</u>

Interval Tested <u>3519-3546</u>	Drill Pipe Size <u>4.5" FH</u>
Anchor Length <u>27</u>	Top Choke — 1" <u>        </u> Bottom Choke — 3/4" <u>        </u>
Top Packer Depth <u>3514</u>	Hole Size — 77/8" <u>        </u> Rubber Size — 63/4" <u>        </u>
Bottom Packer Depth <u>3519</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>0</u>
Total Depth <u>3546</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>9.3</u> lb/gal.	Viscosity <u>49</u> Filtrate <u>12.8</u>
Tool Open @ <u>11:30 AM</u> Initial Blow <u>VERY GOOD-TO BOTTOM OF BUCKET IN</u>	
<u>2 MINUTES</u>	
Final Blow <u>SAME AS INITIAL BLOW</u>	

Recovery — Total Feet <u>1430</u>	Flush Tool? <u>NO</u>
Rec. <u>1430</u> Feet of <u>WATER</u>	
Rec. <u>0</u> Feet of <u>        </u>	
Rec. <u>0</u> Feet of <u>        </u>	
Rec. <u>0</u> Feet of <u>        </u>	
Rec. <u>0</u> Feet of <u>        </u>	

BHT <u>114</u> °F Gravity <u>        </u> °API @ <u>0</u> °F Corrected Gravity <u>0</u> °API
RW <u>0.35</u> @ <u>90</u> °F Chlorides <u>15000</u> ppm Recovery Chlorides <u>9000</u> ppm System
(A) Initial Hydrostatic Mud <u>1920.3</u> PSI AK1 Recorder No. <u>13850</u> Range <u>4425</u>
(B) First Initial Flow Pressure <u>90.4</u> PSI @ (depth) <u>3524</u> w/Clock No. <u>25813</u>
(C) First Final Flow Pressure <u>501.2</u> PSI AK1 Recorder No. <u>13851</u> Range <u>4325</u>
(D) Initial Shut-In Pressure <u>775.4</u> PSI @ (depth) <u>3546</u> w/Clock No. <u>31154</u>
(E) Second Initial Flow Pressure <u>467.8</u> PSI AK1 Recorder No. <u>0</u> Range <u>0</u>
(F) Second Final Flow Pressure <u>650.2</u> PSI @ (depth) <u>0</u> w/Clock No. <u>0</u>
(G) Final Shut-In Pressure <u>778.9</u> PSI Initial Opening <u>30</u>
(H) Final Hydrostatic Mud <u>1901.4</u> PSI Initial Shut-In <u>30</u>
Final Flow <u>30</u>
Final Shut-In <u>30</u>

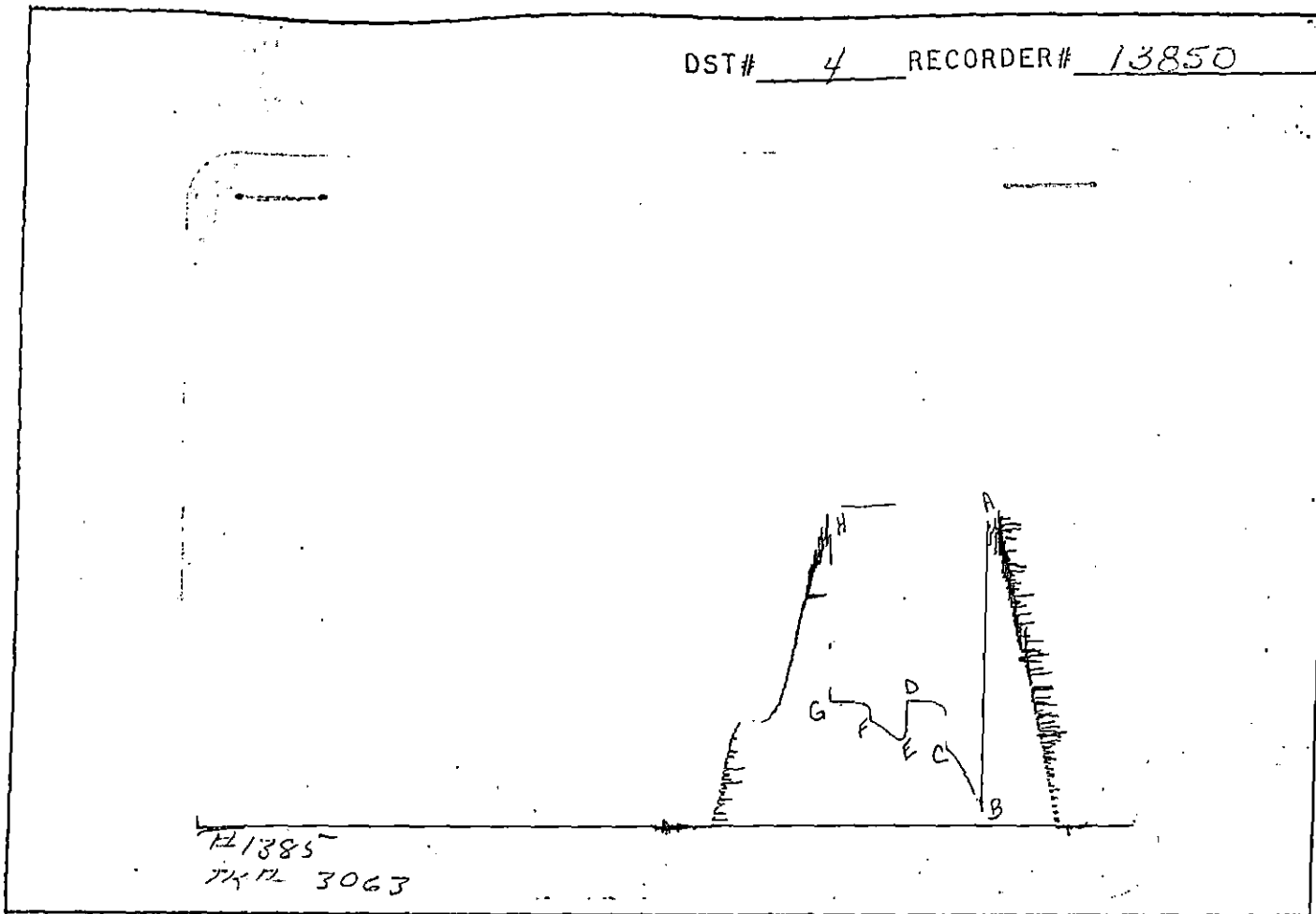
MR HARRY SCHMIDT

525

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

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

DST# 4 RECORDER# 13850



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1918	1920.3	PSI
(B) First Initial Flow Pressure.....	88	90.4	PSI
(C) First Final Flow Pressure.....	500	501.2	PSI
(D) Initial Closed-in Pressure.....	772	775.4	PSI
(E) Second Initial Flow Pressure.....	464	467.8	PSI
(F) Second Final Flow Pressure.....	641	650.2	PSI
(G) Final Closed-in Pressure.....	772	778.9	PSI
(H) Final Hydrostatic Mud.....	1900	1901.4	PSI



# TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

ORIGINAL

## FLUID SAMPLER DATA

Ticket No. 3063 Date 9/7/90  
Company Name HALLWOOD PETROLEUM INC  
Lease KOMARK #23 Test No. 4  
County STAFFORD Sec. 30 Twp. 22S Rng. 11W

### SAMPLER RECOVERY

Gas 0 CU.FT. 0 ML Chlorides 9000 ppm.  
Oil 0 ML Resistivity .5 ohms @ 90 F  
Mud 0 ML Viscosity 49  
Water 4000 ML Mud Weight 9.3  
Other 0 ML Filtrate 12.8  
Pressure 0 PSI Other \_\_\_\_\_  
Total 4000 ML \_\_\_\_\_

### PIT MUD ANALYSIS

### SAMPLER ANALYSIS

Resistivity .35 ohms @ 90 F  
Chlorides 15000 ppm.  
Gravity 0 corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity .35 ohms @ 90 F  
Chlorides 15000 ppm.  
MIDDLE  
Resistivity 0 ohms @ 0 F  
Chlorides 0 ppm.  
BOTTOM  
Resistivity 0 ohms @ 0 F  
Chlorides 0 ppm.

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## TEST TICKET

No 3063

Well Name & No. HOWARD # 23 Test No. FOUR Date 9-7-90  
Company HALLWOOD PETROLEUM INC. Zone Tested ARB.  
Address P.O. BOX 27511 DENVER CO. 80237 Elevation 1821  
Co. Rep./Geo. J.C. MUSGROVE Cont. DIKKE Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 30 Twp. 22S Rge. 11W Co. STANBOND State KS  
No. of Copies 3 Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_

Interval Tested 3519 TO 3546 Drill Pipe Size 4 1/2" 1512  
Anchor Length 25' Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
Top Packer Depth 3514 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
Bottom Packer Depth 3519 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
Total Depth 3546 Drill Collar — 2.25 Ft. Run \_\_\_\_\_  
Mud Wt. 9.3 lb/gal. Viscosity 49 Filtrate 12.8  
Tool Open @ 11:30 A Initial Blow WANN GOOD 1007 - C.F. RUCKERT IN 2 MIN  
Final Blow SAME AS INITIAL BLOW

Recovery — Total Feet 1430 Flush Tool? NO  
Rec. 1430 Feet of WATER  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 114 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.35 @ 90 °F Chlorides 15,000 ppm Recovery Chlorides 9,000 ppm System  
(A) Initial Hydrostatic Mud 1918 PSI AK1 Recorder No. 13850 Range 4425  
(B) First Initial Flow Pressure 88 PSI @ (depth) 3524 w/Clock No. 25813  
(C) First Final Flow Pressure 500 PSI AK1 Recorder No. 17851 Range 41325  
(D) Initial Shut-In Pressure 772 PSI @ (depth) 3546 w/Clock No. 71154  
(E) Second Initial Flow Pressure 464 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 641 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-In Pressure 772 PSI Initial Opening 30 Test 1100  
(H) Final Hydrostatic Mud 1900 PSI Initial Shut-in 30 Jars \_\_\_\_\_  
Final Flow 30 Safety Joint \_\_\_\_\_  
Final Shut-In 30 Straddle \_\_\_\_\_

Approved By [Signature]  
Our Representative [Signature]  
Circ. Sub \_\_\_\_\_  
Sampler 125  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_  
TOTAL PRICE \$ 325

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

# ORIGINAL

## Drill-Stem Test Data

Well Name & No. <u>KOMARK #23</u>		Test No. <u>5</u>	Date <u>9/8/90</u>
Company <u>HALLWOOD PETROLEUM INC</u>		Zone Tested <u>ARBUCKLE</u>	
Address <u>P.O. BOX 378111 DENVER COLORADO 80237</u>		Elevation <u>1821</u>	
Co. Rep./Geo. <u>MR J.C. MUSGROVE</u>	Cont. <u>DUKE DRLG</u>	Est. Ft. of Pay <u>0</u>	
Location: Sec. <u>30</u>	Twp. <u>22S</u>	Rge. <u>11W</u>	Co. <u>STAFFORD</u> State <u>KANSAS</u>

Interval Tested <u>3601-3625</u>	Drill Pipe Size <u>4.5" FH</u>
Anchor Length <u>24</u>	Top Choke — 1" <u>        </u> Bottom Choke — 3/4" <u>        </u>
Top Packer Depth <u>3596</u>	Hole Size — 7 7/8" <u>        </u> Rubber Size — 6 3/4" <u>        </u>
Bottom Packer Depth <u>3601</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>0</u>
Total Depth <u>3625</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>9.3</u> lb/gal.	Viscosity <u>49</u> Filtrate <u>12.8</u>
Tool Open @ <u>1:15 AM</u>	Initial Blow <u>VERY GOOD TO BOTTOM OF BUCKET IN 10</u>
SECONDS	
Final Blow <u>VERY WEAK-1/2" IN BUCKET</u>	

Recovery — Total Feet <u>2050</u>	Flush Tool? <u>NO</u>
Rec. <u>2050</u> Feet of <u>WATER</u>	
Rec. <u>0</u> Feet of <u>        </u>	
Rec. <u>0</u> Feet of <u>        </u>	
Rec. <u>0</u> Feet of <u>        </u>	
Rec. <u>0</u> Feet of <u>        </u>	
BHT <u>114</u> °F Gravity <u>        </u> °API @ <u>0</u>	°F Corrected Gravity <u>0</u> °API <u>        </u>
RW <u>1.2</u> @ <u>60</u> °F Chlorides <u>6000</u> ppm Recovery Chlorides <u>9000</u> ppm System <u>4425</u>	
(A) Initial Hydrostatic Mud <u>1975.6</u> PSI	AK1 Recorder No. <u>13850</u> Range <u>        </u>
(B) First Initial Flow Pressure <u>467.8</u> PSI	@ (depth) <u>3605</u> w/Clock No. <u>25813</u>
(C) First Final Flow Pressure <u>915.1</u> PSI	AK1 Recorder No. <u>13851</u> Range <u>4325</u>
(D) Initial Shut-In Pressure <u>915.1</u> PSI	@ (depth) <u>3625</u> w/Clock No. <u>31154</u>
(E) Second Initial Flow Pressure <u>915.1</u> PSI	AK1 Recorder No. <u>0</u> Range <u>0</u>
(F) Second Final Flow Pressure <u>915.1</u> PSI	@ (depth) <u>0</u> w/Clock No. <u>0</u>
(G) Final Shut-In Pressure <u>915.1</u> PSI	Initial Opening <u>30</u>
(H) Final Hydrostatic Mud <u>1970.9</u> PSI	Initial Shut-In <u>30</u>
	Final Flow <u>30</u>
	Final Shut-In <u>30</u>

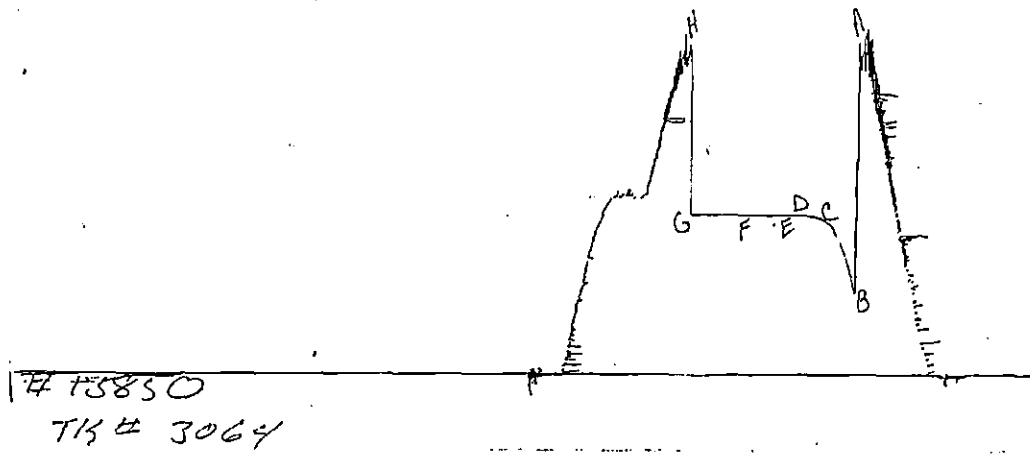
MR HARRY SCHMIDT

525

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

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

DST# 5 RECORDER# 13850



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1973	1975.6	PSI
(B) First Initial Flow Pressure.....	466	467.8	PSI
(C) First Final Flow Pressure.....	914	915.1	PSI
(D) Initial Closed-In Pressure.....	914	915.1	PSI
(E) Second Initial Flow Pressure.....	914	915.1	PSI
(F) Second Final Flow Pressure.....	914	915.1	PSI
(G) Final Closed-In Pressure.....	914	915.1	PSI
(H) Final Hydrostatic Mud.....	1973	1970.9	PSI

# TRILOBITE TESTING COMPANY

# ORIGINAL

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 3064 Date 9/8/90

Company Name HALLWOOD PETROLEUM INC

Lease KOMARK #23 Test No. 5

County STAFFORD Sec. 30 Twp. 22S Rng. 11W

### SAMPLER RECOVERY

Gas 0 CU.FT. 0 ML  
Oil 0 ML  
Mud 0 ML  
Water 4000 ML  
Other 0 ML  
Pressure 0 PSI  
Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 9000 ppm.  
Resistivity .5 ohms @ 90 F  
Viscosity 49  
Mud Weight 9.3  
Filtrate 12.8  
Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity 1.2 ohms @ 60 F  
Chlorides 6000 ppm.  
Gravity 0 corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity 1.2 ohms @ 60 F  
Chlorides 6000 ppm.  
MIDDLE  
Resistivity 0 ohms @ 0 F  
Chlorides 0 ppm.  
BOTTOM  
Resistivity 0 ohms @ 0 F  
Chlorides 0 ppm.

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## TEST TICKET

No 3064

Well Name & No. WOM 1224 11 DTS Test No. FIVE Date 9-8-90  
Company HALLWOOD PRODUCTION INC. Zone Tested WRR  
Address PO BOX 3024 HAYESVILLE MO 64237 Elevation 1831  
Co. Rep./Geo. J.C. ... cont. DUKE Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 30 Twp. 22 S Rge. 11 W Co. ... State ...  
No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_ No Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No

Interval Tested 3601 TO 3625 Drill Pipe Size 4 1/2" R.H.  
Anchor Length 2.4' Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
Top Packer Depth 3596 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
Bottom Packer Depth 3601 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
Total Depth 3625 Drill Collar — 2.25 Ft. Run \_\_\_\_\_  
Mud Wt. 9.3 lb/gal. Viscosity 47 Filtrate 11.5  
Tool Open @ 1:15 A Initial Blow VERY GOOD RAT. AT RUCKET IN 10 SEC.  
Final Blow VERY WEAK 1/2" IN RUCKET

Recovery — Total Feet 2050 Flush Tool? NIC  
Rec. 2050 Feet of WATER  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 1.2 @ 60 °F Chlorides 6000 ppm Recovery Chlorides 9,000 ppm System  
(A) Initial Hydrostatic Mud 1977 PSI AK1 Recorder No. 13450 Range 11125  
(B) First Initial Flow Pressure 466 PSI @ (depth) 3605 w/Clock No. 25813  
(C) First Final Flow Pressure 914 PSI AK1 Recorder No. 13451 Range 11225  
(D) Initial Shut-in Pressure 914 PSI @ (depth) 3625 w/Clock No. 21154  
(E) Second Initial Flow Pressure 914 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 914 PSI @ (depth) \_\_\_\_\_ w/Clock No. 1  
(G) Final Shut-in Pressure 914 PSI Initial Opening 30 Test 400<sup>psi</sup>  
(H) Final Hydrostatic Mud 1977 PSI Initial Shut-in 30 Jars \_\_\_\_\_  
Final Flow 30 Safety Joint \_\_\_\_\_  
Final Shut-in 30 Straddle \_\_\_\_\_  
Circ. Sub \_\_\_\_\_  
Sampler 125<sup>psi</sup>  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_

Approved By \_\_\_\_\_  
Our Representative [Signature]

TOTAL PRICE \$ 325<sup>00</sup>