

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

API NO. 15- 185-22,850-0000

County Stafford

- NE - SW - SE Sec. 10 Twp. 22 Rge. 12 X W

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

1650 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 Teichmann Well # A-9

Field Name Max

Producing Formation Arbuckle-Lansing Kansas City

Elevation: Ground 1847 KB 1852

Total Depth 3750 PBDT 3679

Amount of Surface Pipe Set and Cemented at 642 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ SX cmt.

Drilling Fluid Management Plan ALT 1 OP 11-10-92
(Data must be collected from the Reserve Pit)

Chloride content 10,162 ppm Fluid volume 40 bbls

Dewatering method used Hauled

Location of fluid disposal if hauled offsite:

Operator Name Bob's Oil Service

Lease Name Teichmann SWD License No. 30610

S Quarter Sec. 16 Twp. 22 S Rng. 12 E/W

County Stafford Docket No. D-23-722

Operator: License # 3613

Name: Hallwood Petroleum, Inc.

Address 4582 S. Ulster Street Parkway, Suite 1700

P.O. Box 378111

City/State/Zip Denver, Colorado 80237

Purchaser: Koch Oil Company

Operator Contact Person: George Hutton

Phone (316) 792-2756

Contractor: Name: Duke Drilling Company, Inc.

License: 5929

Wellsite Geologist: Jim Musgrove

Designate Type of Completion

X New Well Re-Entry Workover

X Oil SWD SLOW Temp. Abd.

Gas ENHR SIGW

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

If Workover:

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.

06/22/92 06/28/92 07/17/92

Spud Date Date Reached TD Completion Date

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 Marian Pall

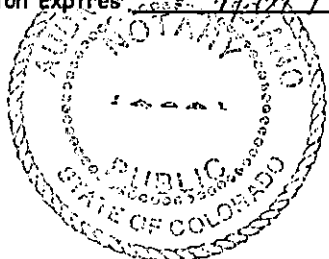
Title Sr. Eng. Tech. Date 9/18/92

Subscribed and sworn to before me this 23 day of September

19 92

Notary Public Judith L. Marvane

Date Commission Expires 09/21/96



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
KCC SWD/Rep NGPA
KGS Plug Other (Specify)

RECEIVED
Form ACO-1 (7-91)
STATE CORPORATION COMMISSION

SEP 28 1992

CONSERVATION DIVISION
Wichita, Kansas

PI

SIDE TWO

Operator Name Hallwood Petroleum, Inc. Lease Name Teichmann Well # A-9

Sec. 10 Twp. 22 Rge. 12 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 Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No List All E.Logs Run: DIGL CDL/DSN Micro CAL	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"><input checked="" type="checkbox"/> Log</td> <td style="width:70%;">Formation (Top), Depth and Datum</td> <td style="width:20%;"><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Anhydrite</td> <td>635</td> <td>+1217</td> </tr> <tr> <td>Topeka</td> <td>2843</td> <td>-991</td> </tr> <tr> <td>Heebner</td> <td>3138</td> <td>-1286</td> </tr> <tr> <td>Toronto</td> <td>3157</td> <td>-1305</td> </tr> <tr> <td>Douglas</td> <td>3171</td> <td>-1319</td> </tr> <tr> <td>Lansing</td> <td>3294</td> <td>-1442</td> </tr> <tr> <td>Base Kansas City</td> <td>3514</td> <td>-1662</td> </tr> <tr> <td>Conglomerate</td> <td>3535</td> <td>-1683</td> </tr> <tr> <td>Arbuckle</td> <td>3641</td> <td>-1789</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Anhydrite	635	+1217	Topeka	2843	-991	Heebner	3138	-1286	Toronto	3157	-1305	Douglas	3171	-1319	Lansing	3294	-1442	Base Kansas City	3514	-1662	Conglomerate	3535	-1683	Arbuckle	3641	-1789
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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	28	642	60/40 poz	300	3% cc 2% gel
						100	3% cc no gel
Production	7 7/8	5 1/2	15.5	3702	common	100	10% salt 5% EA2 0.75 Halid 322
						125	10% salt 5% EA2 5lb/sk Gilsonite 1/4lb Flocele/sk

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 checked="" type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	3679	common	1	---

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	
	4	3644-8'		
2	3484-89'		1250 gals 15% NE acid	
2	3464-68', 3454-9'		2250 gals 15% NE acid	
2	3424-32'		1500 gals 15% NE acid	

TUBING RECORD	Size 2 7/8	Set At 3671	Packer At N/A	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 7/18/92		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 15	Bbls.	Gas 0	Mcf 37.5
			Water 37.5	Bbls. 0
			Gas-Oil Ratio	Gravity

Disposition of Gas: **METHOD OF COMPLETION** **Production Interval**

Vented Sold Used on Lease (if vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled _____

Other (Specify) _____

TRILOBITE TESTING, L.L.C.

ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name TEICHMANN "A" #9 Test No. 1 Date 6/26/92
 Company HALLWOOD PETROLEUM INC. Zone LANSING
 Address P.O. BOX 378111 DENVER CO 80237 Elevation 1852 K.B.
 Co. Rep./Geo. JIM MUSGROVE Cont. DUKE RIG #1 Est. Ft. of Pay 5
 Location: Sec. 10 Twp. 22S Rge. 12W Co. STAFFORD State KS

Interval Tested	<u>3295-3362</u>	Drill Pipe Size	<u>4.5 FH</u>
Anchor Length	<u>67</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>631</u>
Top Packer Depth	<u>3290</u>	Drill Collar - 2.25 Ft. Run	<u>8.9</u>
Bottom Packer Depth	<u>3295</u>	Mud Wt.	<u>53</u> lb/Gal.
Total Depth	<u>3362</u>	Viscosity	<u>12.8</u>

Tool Open @ 4:15 AM Initial Blow BOTTOM OF BUCKET IN 5 MINUTES
 Final Blow BOTTOM OF BUCKET IN 2 MINUTES

Recovery - Total Feet 200 Flush Tool? NO

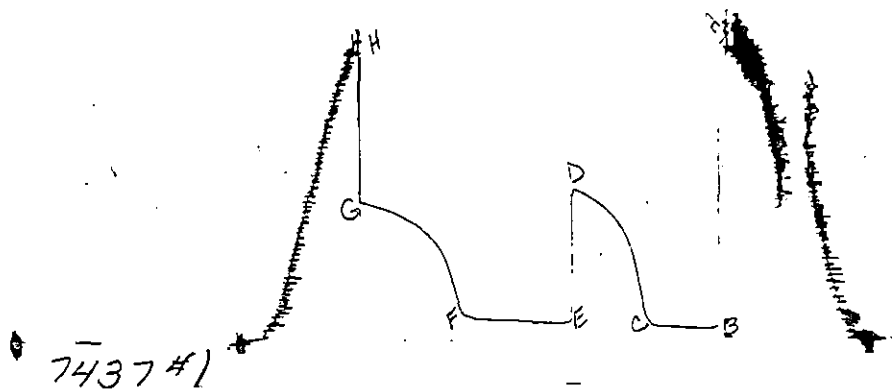
Rec. <u>1680</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>200</u>	Feet of	<u>HEAVY OIL & WTR CUT MUD-20%OIL/30%WTR/50%MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 108 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.26 @ 80 °F Chlorides 24000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud	<u>1613.5</u> PSI	AK1 Recorder No.	<u>7437</u>	Range	<u>4200</u>
(B) First Initial Flow Pressure	<u>31.2</u> PSI	@ (depth)	<u>3299</u>	w / Clock No.	<u>27567</u>
(C) First Final Flow Pressure	<u>60.4</u> PSI	AK1 Recorder No.	<u>13754</u>	Range	<u>4000</u>
(D) Initial Shut-in Pressure	<u>817.4</u> PSI	@ (depth)	<u>3358</u>	w / Clock No.	<u>31152</u>
(E) Second Initial Flow Pressure	<u>77.5</u> PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	<u>138.4</u> PSI	@ (depth)	_____	w / Clock No.	_____
(G) Final Shut-in Pressure	<u>741.2</u> PSI	Initial Opening	<u>45</u>	Final Flow	<u>60</u>
(H) Final Hydrostatic Mud	<u>1588.3</u> PSI	Initial Shut-in	<u>60</u>	Final Shut-in	<u>90</u>

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1616	1613.5
(B) FIRST INITIAL FLOW PRESSURE	29	31.2
(C) FIRST FINAL FLOW PRESSURE	59	60.4
(D) INITIAL CLOSED-IN PRESSURE	818	817.4
(E) SECOND INITIAL FLOW PRESSURE	78	77.5
(F) SECOND FINAL FLOW PRESSURE	137	138.4
(G) FINAL CLOSED-IN PRESSURE	739	741.2
(H) FINAL HYDROSTATIC MUD	1586	1588.3

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

No 5309

Test Ticket

Well Name & No. Teichmann A #9 Test No. 1 Date 6-26-92
 Company Hallwood Petro. Inc. Zone Tested hansing
 Address 4582 S. ULSTER ST. PKWY, DENVER, COLO. 80237 Elevation 1852 K.B.
 Co. Rep./Geo. Jim Musgrave Cont. Duke #1 Est. Ft. of Pay 5
 Location: Sec. 10 Twp. 22 Rge. 12 Co. Stafford State Ks.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No Evaluation

Interval Tested 3295-3362 Drill Pipe Size 4.5 FH.
 Anchor Length 67 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3290 Hole Size — 77/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3295 Wt. Pipe I.D. — 2.7 Ft. Run 631
 Total Depth 3362 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 8.9 lb/gal. Viscosity 53 Filtrate 12.8
 Tool Open @ 4:15 A.M. Initial Blow B.O.B. in 5 min.

Final Blow B.O.B. in 2 min.

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>200</u>	<u>1680</u>	_____
Rec. <u>200</u> Feet Of <u>H₂O + WTC MUD</u>	% gas <u>20</u> % oil <u>30</u> % water <u>50</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 108 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 126 @ 80 °F Chlorides 24,000 ppm Recovery Chlorides 5,000 ppm System

- (A) Initial Hydrostatic Mud 1616 PSI AK1 Recorder No. 7437 Range 4200
- (B) First Initial Flow Pressure 29 PSI @ (depth) 3299 w/Clock No. 27567
- (C) First Final Flow Pressure 59 PSI AK1 Recorder No. 13754 Range 4000
- (D) Initial Shut-In Pressure 818 PSI @ (depth) 3358 w/Clock No. 31152
- (E) Second Initial Flow Pressure 78 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 137 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 739 PSI Initial Opening 45 Test 550⁰⁰
- (H) Final Hydrostatic Mud 1586 PSI Initial Shut-In 60 Jars _____

TRILOBITE TESTING L.L.C. 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 SUSTAINED, 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 50⁰⁰
 Final Shut-In 90 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 600⁰⁰

Approved By [Signature]
 Our Representative [Signature]
 Printcraft Printers - Hays, KS

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name TEICHMANN "A" #9 Test No. 2 Date 6/26/92
Company HALLWOOD PETROLEUM INC. Zone LANSING
Address P.O. BOX 378111 DENVER CO 80237 Elevation 1852 K.B.
Co. Rep./Geo. JIM MUSGROVE Cont. DUKE RIG #1 Est. Ft. of Pay 5
Location: Sec. 10 Twp. 22S Rge. 12W Co. STAFFORD State KS

Interval Tested 3362-3394 Drill Pipe Size 4.5 FH
Anchor Length 32 Wt. Pipe I.D. - 2.7 Ft. Run 631
Top Packer Depth 3357 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3362 Mud Wt. 9.3 lb/Gal.
Total Depth 3394 Viscosity 41 Filtrate 9.6

Tool Open @ 5:58 PM Initial Blow WEAK STEADY SURFACE BLOW

Final Blow WEAK STEADY SURFACE BLOW

Recovery - Total Feet 15 Flush Tool? NO

Rec. 90 Feet of GAS IN PIPE
Rec. 15 Feet of OIL CUT MUD-10%OIL/90%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 108 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1740.5 PSI AK1 Recorder No. 7437 Range 4200

(B) First Initial Flow Pressure 20.6 PSI @ (depth) 3366 w / Clock No. 27567

(C) First Final Flow Pressure 20.6 PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure 102.5 PSI @ (depth) 3390 w / Clock No. 26199

(E) Second Initial Flow Pressure 20.6 PSI AK1 Recorder No. _____ Range _____

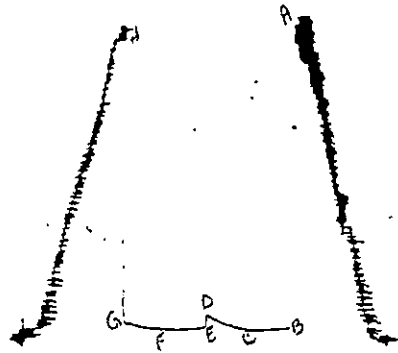
(F) Second Final Flow Pressure 20.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 52.3 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1688.7 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

7437#2



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1736	1740.5
(B) FIRST INITIAL FLOW PRESSURE	19	20.6
(C) FIRST FINAL FLOW PRESSURE	19	20.6
(D) INITIAL CLOSED-IN PRESSURE	98	102.5
(E) SECOND INITIAL FLOW PRESSURE	19	20.6
(F) SECOND FINAL FLOW PRESSURE	19	20.6
(G) FINAL CLOSED-IN PRESSURE	49	52.3
(H) FINAL HYDROSTATIC MUD	1686	1688.7

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5310

Well Name & No. Teichmann A #9 Test No. 2 Date 6-26-92
Company Hallwood Petro. Inc. Zone Tested Lansing
Address _____ Elevation 1852' K.D.
Co. Rep./Geo. Jim Musgrave cont. Duke #1 Est. Ft. of Pay _____
Location: Sec. 10 Twp. 22 Rge. 12 Co. Stafford State Ks
No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3362-3394 Drill Pipe Size 4.5 F.H.
Anchor Length 32 Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth 3357 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth 3362 Wt. Pipe I.D. — 2.7 Ft. Run 6031
Total Depth 3394 Drill Collar — 2.25 Ft. Run _____
Mud Wt. 9.3 lb/gal. Viscosity 41 Filtrate 9.6
Tool Open @ 5:58 P.M. Initial Blow Weak steady surface blow

Final Blow Weak steady surface blow

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>15</u>	<u>90</u>	_____
Rec. _____ Feet Of _____	%gas <u>10</u> %oil _____	%water <u>90</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 108 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud 1736 PSI Ak1 Recorder No. 2437 Range 4200
(B) First Initial Flow Pressure 19 PSI @ (depth) 3366 w/Clock No. 27567
(C) First Final Flow Pressure 19 PSI AK1 Recorder No. 13754 Range 4000
(D) Initial Shut-In Pressure 98 PSI @ (depth) 3390 w/Clock No. 26199
(E) Second Initial Flow Pressure 19 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 19 PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure 49 PSI Initial Opening 30 Test 550⁰⁸
(H) Final Hydrostatic Mud 1686 PSI Initial Shut-In 30 Jars _____

Final Flow 30 Safety Joint X 50⁰⁸
Final Shut-In 30 Straddle _____
Circ. Sub _____
Sampler _____
Extra Packer _____
Other _____

Approved By _____
Our Representative DAN

TOTAL PRICE \$ 600⁰⁰

TRILOBITE TESTING L.L.C. 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 SUSTAINED, 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.

TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name TEICHMANN "A" #9 Test No. 3 Date 6/27/92
Company HALLWOOD PETROLEUM INC. Zone LKC-"H-I-J"
Address P.O. BOX 378111 DENVER CO 80237 Elevation 1852 K.B.
Con. Rep./Geo. JIM MUSGROVE Cont. DUKE RIG #1 Est. Ft. of Pay 6
Location: Sec. 10 Twp. 22S Rge. 12W Co. STAFFORD State KS

Interval Tested	<u>3416-3480</u>	Drill Pipe Size	<u>4.5 FH</u>
Anchor Length	<u>64</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>631</u>
Top Packer Depth	<u>3411</u>	Drill Collar - 2.25 Ft. Run	<u> </u>
Bottom Packer Depth	<u>3416</u>	Mud Wt.	<u>9.4</u> lb/Gal.
Total Depth	<u>3480</u>	Viscosity	<u>46</u> Filtrate <u>10.8</u>

Tool Open @ 7:15 AM Initial Blow BOTTOM OF BUCKET IN 2 MINUTES

Final Blow BOTTOM OF BUCKET IN 1 MINUTE - GAS TO SURFACE IN 30 MIN ON FINAL FLOW/TOO SMALL TO MEASURE

Recovery - Total Feet 577 Flush Tool? NO

Rec.	<u>2903</u>	Feet of	<u>GAS IN PIPE</u>
Rec.	<u>124</u>	Feet of	<u>MUD & GAS CUT OIL-25%GAS/65%OIL/10%MUD</u>
Rec.	<u>453</u>	Feet of	<u>OIL & MUD CUT GAS-65%GAS/25%OIL/10%MUD</u>
Rec.	<u> </u>	Feet of	<u> </u>
Rec.	<u> </u>	Feet of	<u> </u>

BHT 110 °F Gravity °API @ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 1677.9 PSI AK1 Recorder No. 7437 Range 4200

(B) First Initial Flow Pressure 77.5 PSI @ (depth) 3420 w / Clock No. 26199

(C) First Final Flow Pressure 102.5 PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure 1040.6 PSI @ (depth) 2476 w / Clock No. 27567

(E) Second Initial Flow Pressure 111.4 PSI AK1 Recorder No. Range

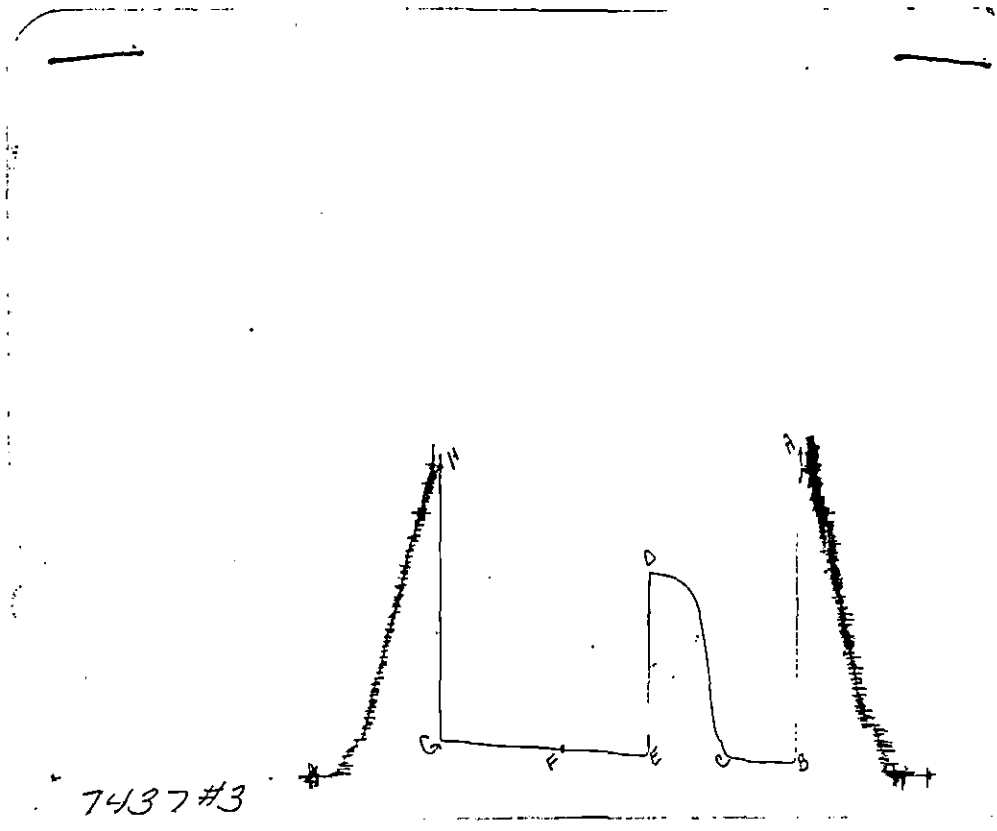
(F) Second Final Flow Pressure 141.6 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 191.2 PSI Initial Opening 45 Final Flow 60

(H) Final Hydrostatic Mud 1610.2 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1676	1677.9
(B) FIRST INITIAL FLOW PRESSURE	78	77.5
(C) FIRST FINAL FLOW PRESSURE	98	102.5
(D) INITIAL CLOSED-IN PRESSURE	1036	1040.6
(E) SECOND INITIAL FLOW PRESSURE	108	111.4
(F) SECOND FINAL FLOW PRESSURE	137	141.6
(G) FINAL CLOSED-IN PRESSURE	187	191.2
(H) FINAL HYDROSTATIC MUD	1606	1610.2

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

ORIGINAL

DST #

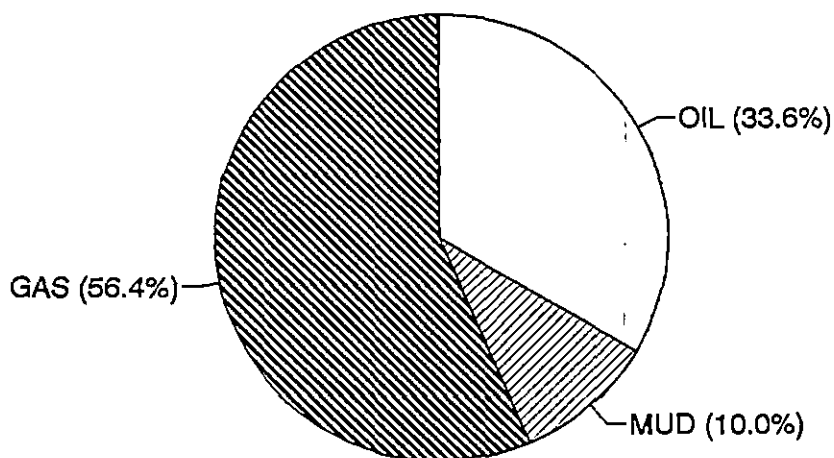
3

TICKET #

5311

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	124	25	31	65	80.6	0	0	10	12.4
2	453	65	294.45	25	113.25	0	0	10	45.3
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	577	56.4	325.45	33.596187	193.85	0	0	10	57.7

		HRS OPEN	BBL/DAY
BBL OIL=	1.35695	*	1.75
BBL WATER=	0	*	0
BBL MUD=	0.4039		
BBL GAS=	2.27815		



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5311

Well Name & No. Teichmann A #9 Test No. 3 Date 6-27-92
 Company Hallwood Petro. Inc. Zone Tested H-T-T L.K.C.
 Address _____ Elevation 1852 K.B.
 Co. Rep./Geo. Jim Musgrove cont. Duke #1 Est. Ft. of Pay 6
 Location: Sec. 10 Twp. 22 Rge. 12 Co. Stafford State Ks
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3416 - 3480 Drill Pipe Size 4.5 FH
 Anchor Length 64 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3411 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3416 Wt. Pipe I.D. — 2.7 Ft. Run 631
 Total Depth 3480 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.4 lb/gal. Viscosity 46 Filtrate 10.8
 Tool Open @ 7:15 A.M. Initial Blow B.O.B. in 2 min.

Final Blow B.O.B. in 1 min.
(G.T.S. in 20 min on F.F. T.S.T.M.)

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>124</u>	<u>G.T.S.</u>	
<u>453</u>	<u>Mud & Gas</u>	
	<u>Oil</u>	
	<u>25% gas 60% oil</u>	
	<u>60% gas 20% oil</u>	
	<u>0 + MC Gas</u>	
	<u>% gas % oil % water % mud</u>	
	<u>% gas % oil % water % mud</u>	
	<u>% gas % oil % water % mud</u>	
	<u>% gas % oil % water % mud</u>	

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8,000 ppm System

(A) Initial Hydrostatic Mud 1676 PSI AK1 Recorder No. 7437 Range 4200
 (B) First Initial Flow Pressure 78 PSI @ (depth) 3420 w/Clock No. 26199
 (C) First Final Flow Pressure 98 PSI AK1 Recorder No. 13754 Range 4000
 (D) Initial Shut-In Pressure 1036 PSI @ (depth) 3476 w/Clock No. 27567
 (E) Second Initial Flow Pressure 108 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 137 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 187 PSI Initial Opening 45 Test 550⁰⁰
 (H) Final Hydrostatic Mud 1606 PSI Initial Shut-In 60 Jars _____

TRILOBITE TESTING L.L.C. 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 SUSTAINED, 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 50⁰⁰
 Final Shut-In 90 Straddle _____
 Circ. Sub _____
 Sampler _____

Approved By [Signature]
 Our Representative [Signature]

Extra Packer _____
 Other _____
 TOTAL PRICE \$ 600⁰⁰

TRILOBITE TESTING, L.L.C.

ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name TEICHMANN "A" #9 Test No. 4 Date 6/28/92
Company HALLWOOD PETROLEUM INC. Zone ARBUCKLE
Address P.O. BOX 378111 DENVER CO 80237 Elevation 1852 K.B.
Co./Rep./Geo. JIM MUSGROVE Cont. DUKE RIG #1 Est. Ft. of Pay 4
Location: Sec. 10 Twp. 22S Rge. 12W Co. STAFFORD State KS

Interval Tested 3641-3648 Drill Pipe Size 4.5 FH
Anchor Length 7 Wt. Pipe I.D. - 2.7 Ft. Run 631
Top Packer Depth 3636 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3641 Mud Wt. 9.2 lb/Gal.
Total Depth 3648 Viscosity 52 Filtrate 14.4

Tool Open @ 1:25 PM Initial Blow BOTTOM OF BUCKET IN 1.5 MINUTES

Final Blow BOTTOM OF BUCKET IN 6 MINUTES - GAS TO SURFACE IN
113 MIN ON FINAL FLOW/TOO SMALL TO MEASURE

Recovery - Total Feet 434 Flush Tool? NO

Rec. 310 Feet of CLEAN GASSY OIL-30%GAS/70%OIL
Rec. 62 Feet of GAS & OIL CUT MUD-50%GAS/25%OIL/25%MUD
Rec. 62 Feet of GAS & OIL CUT MUD-25%GAS/25%OIL/50%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

SBHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity 34 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 9000 ppm System

(A) Initial Hydrostatic Mud 1812.5 PSI AK1 Recorder No. 7437 Range 4200

(B) First Initial Flow Pressure 52.3 PSI @ (depth) 3630 w / Clock No. 26199

(C) First Final Flow Pressure 65.9 PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure 316.9 PSI @ (depth) 3644 w / Clock No. 27567

(E) Second Initial Flow Pressure 129.4 PSI AK1 Recorder No. _____ Range _____

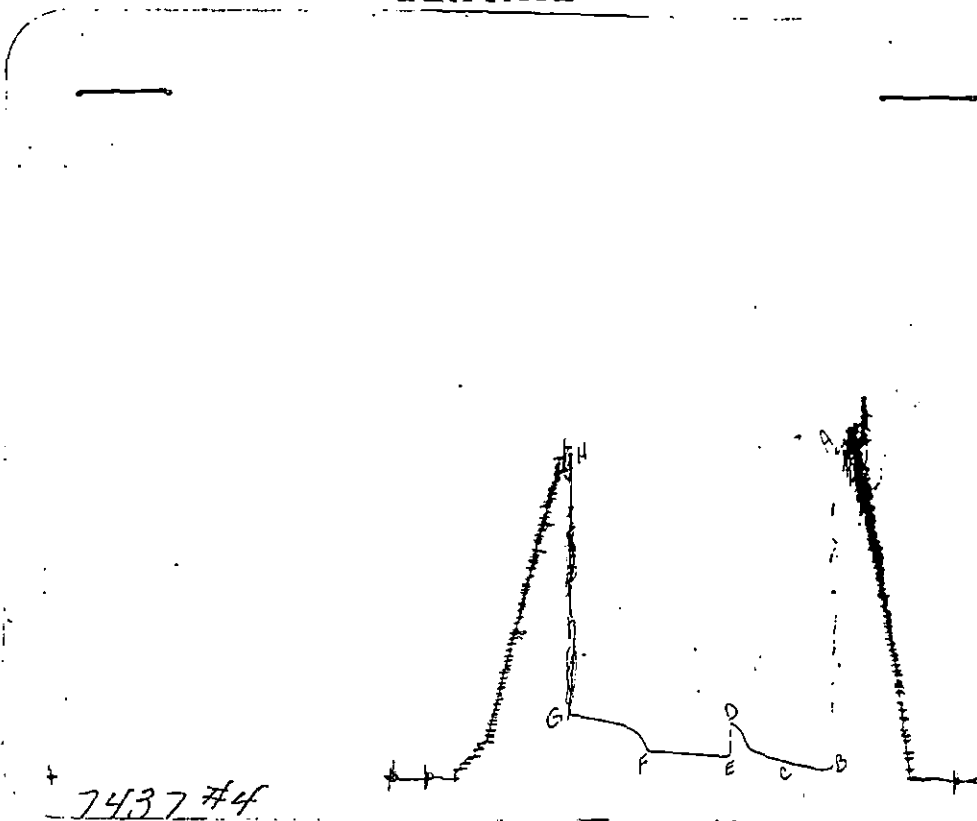
(F) Second Final Flow Pressure 153.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 347.8 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1788.6 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1806	1812.5
(B) FIRST INITIAL FLOW PRESSURE	49	52.3
(C) FIRST FINAL FLOW PRESSURE	68	65.9
(D) INITIAL CLOSED-IN PRESSURE	314	316.9
(E) SECOND INITIAL FLOW PRESSURE	127	129.4
(F) SECOND FINAL FLOW PRESSURE	147	153.4
(G) FINAL CLOSED-IN PRESSURE	344	347.8
(H) FINAL HYDROSTATIC MUD	1786	1788.6

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

ORIGINAL

DST #

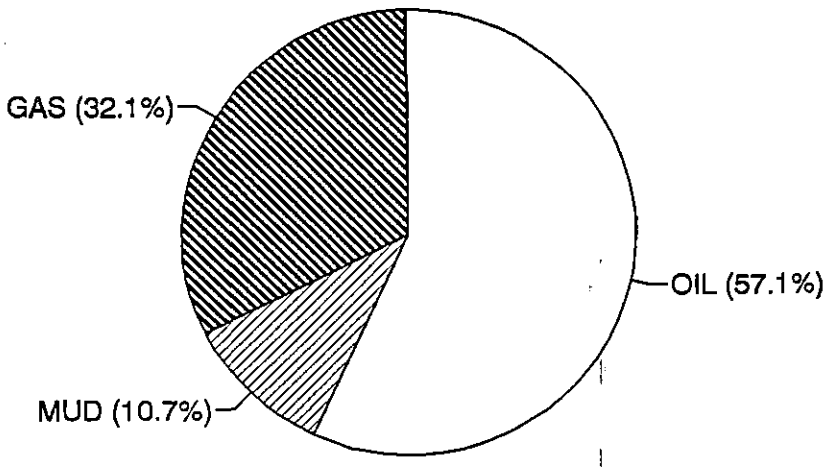
4

TICKET #

5312

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	310	30	93	70	217	0	0	0	0
2	62	50	31	25	15.5	0	0	25	15.5
3	62	25	15.5	25	15.5	0	0	50	31
4			0		0		0		0
5			0		0		0		0
TOTAL	434	32.14	139.5	57.142857	248	0	0	10.714	46.5

		HRS OPEN	BBL/DAY
BBL OIL=	1.736	*	1.5
BBL WATER=	0	*	0
BBL MUD=	0.3255		
BBL GAS=	0.9765		



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5312

Well Name & No. Teichmann A #9 Test No. 4 Date 6-28-82
 Company Hallwood Petro. Inc. Zone Tested Arbuckle
 Address _____ Elevation 1852 K.B.
 Co. Rep./Geo. Jim Musgrave Cont. Duke #1 Est. Ft. of Pay 4
 Location: Sec. 10 Twp. 22 Rge. 12 Co. Stafford State Ks.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3641 - 3648 Drill Pipe Size 4.5 FH
 Anchor Length 7 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3636 Hole Size — 77/8" _____ Rubber Size — 63/4" _____
 Bottom Packer Depth 3641 Wt. Pipe I.D. — 2.7 Ft. Run 631
 Total Depth 3648 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.2 lb/gal. Viscosity 52 Filtrate 14.4
 Tool Open @ 1:25 P.M. Initial Blow B.O.B. in 1 1/2 min.

Final Blow B.O.B. in 6 min.
(G.T.S. in 13 min on FF TSTM)

Recovery — Total Feet 434 Feet of Gas in Pipe _____ Flush Tool? _____

Rec.	Feet Of	% gas	% oil	% water	% mud
<u>310</u>	<u>CGSYO</u>	<u>30</u>	<u>70</u>		
<u>62</u>	<u>G+O.C.M.</u>	<u>50</u>	<u>25</u>		<u>25</u>
<u>62</u>	<u>G+O.C.M.</u>	<u>25</u>	<u>25</u>		<u>50</u>
Rec. _____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____
Rec. _____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____

BHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity 34 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 9,000 ppm System

- (A) Initial Hydrostatic Mud 1806 PSI AK1 Recorder No. 74.37 Range 4200
- (B) First Initial Flow Pressure 49 PSI @ (depth) 3630 w/Clock No. 26199
- (C) First Final Flow Pressure 68 PSI AK1 Recorder No. 13754 Range 4000
- (D) Initial Shut-In Pressure 314 PSI @ (depth) 3644 w/Clock No. 27567
- (E) Second Initial Flow Pressure 127 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 147 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 344 PSI Initial Opening 30 Test 550⁰⁰
- (H) Final Hydrostatic Mud 1786 PSI Initial Shut-in 45 Jars _____

TRILOBITE TESTING L.L.C. 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 SUSTAINED, 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 50⁰⁰
 Final Shut-in 60 Straddle _____
 Circ. Sub _____
 Sampler _____

Approved By _____

Our Representative _____

Extra Packer _____

Other A.P. Carrica

TOTAL PRICE \$ 600⁰⁰

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name TEICHMANN "A" #9 Test No. 5 Date 6/29/92
Company HALLWOOD PETROLEUM INC. Zone ARBUCKLE
Address P.O. BOX 378111 DENVER CO 80237 Elevation 1852 K.B.
Co. Rep./Geo. JIM MUSGROVE Cont. DUKE RIG #1 Est. Ft. of Pay 4
Location: Sec. 10 Twp. 22S Rge. 12W Co. STAFFORD State KS

Interval Tested 3648-3660 Drill Pipe Size 4.5 FH
Anchor Length 12 Wt. Pipe I.D. - 2.7 Ft. Run 631
Top Packer Depth 3643 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3648 Mud Wt. 9.2 lb/Gal.
Total Depth 3660 Viscosity 52 Filtrate 14.4

Tool Open @ 1:17 AM Initial Blow BOTTOM OF BUCKET IN 30 SECONDS

Final Blow BOTTOM OF BUCKET IN 3 MINUTES ~ GAS TO SURFACE IN 10 MIN ON FINAL FLOW/TOO SMALL TO MEASURE

Recovery - Total Feet 930 Flush Tool? NO

Rec. 248 Feet of HEAVY OIL CUT GASSY MUD-55%GAS/25%OIL/.20%MUD
Rec. 62 Feet of OIL CUT GSY MUD-85%GAS/10%OIL/5%MUD
Rec. 620 Feet of WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.26 @ 80 °F Chlorides 24000 ppm Recovery Chlorides 9000 ppm System

(A) Initial Hydrostatic Mud 1960.3 PSI AK1 Recorder No. 7437 Range 4200

(B) First Initial Flow Pressure 141.6 PSI @ (depth) 3652 w / Clock No. 26199

(C) First Final Flow Pressure 316.2 PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure 435.8 PSI @ (depth) 3656 w / Clock No. 27567

(E) Second Initial Flow Pressure 350.2 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 401.2 PSI @ (depth) _____ w / Clock No. _____

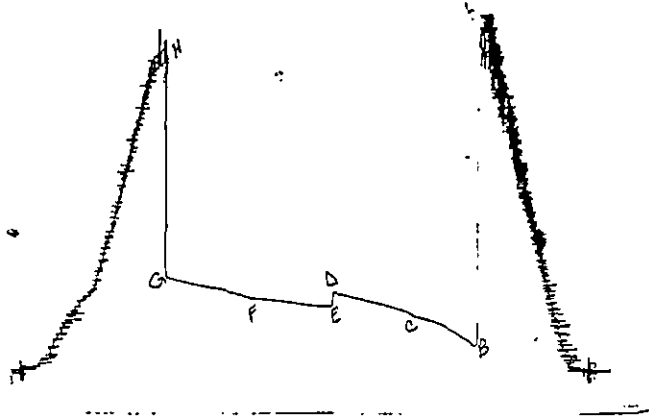
(G) Final Shut-in Pressure 522.6 PSI Initial Opening 45 Final Flow 60

(H) Final Hydrostatic Mud 1795.6 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative DAN BANGLE

CHART PAGE

7437 #5



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1956	1960.3
(B) FIRST INITIAL FLOW PRESSURE	137	141.6
(C) FIRST FINAL FLOW PRESSURE	314	316.2
(D) INITIAL CLOSED-IN PRESSURE	433	435.8
(E) SECOND INITIAL FLOW PRESSURE	344	350.2
(F) SECOND FINAL FLOW PRESSURE	393	401.2
(G) FINAL CLOSED-IN PRESSURE	521	522.6
(H) FINAL HYDROSTATIC MUD	1786	1795.6

TRILOBITE TESTING L.L.C.

P.O. BOX 362 • Hays, Kansas 67601

ORIGINAL

No 5313

Test Ticket

Well Name & No. Teichmann A #9 Test No. 5 Date 6-29-92
 Company Hallwood Petro. Inc. Zone Tested Arbuckle
 Address _____ Elevation 1852 K.B.
 Co. Rep./Geo. Tim Musgrave Cont. Duke #1 Est. Ft. of Pay 4
 Location: Sec. 10 Twp. 22 Rge. 12 Co. Stafford State Ks.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3648-3660 Drill Pipe Size 4.5 FH
 Anchor Length 12 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3643 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3648 Wt. Pipe I.D. — 2.7 Ft. Run 631
 Total Depth 3660 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.2 lb/gal. Viscosity 52 Filtrate 14.4
 Tool Open @ 1:17 A.M. Initial Blow B.O.B. in 30 sec.

Final Blow B.O.B. in 3 min.
(G.T.S. in 10 min on FF TSTM)

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>248</u> Feet Of <u>HOC Gsym</u>	<u>55</u> % gas <u>25</u> % oil	% water <u>20</u> % mud
Rec. <u>62</u> Feet Of <u>OC Gsym</u>	<u>85</u> % gas <u>10</u> % oil	% water <u>5</u> % mud
Rec. <u>620</u> Feet Of <u>WTR.</u>	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____

BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 126 @ 80 °F Chlorides 24,000 ppm Recovery Chlorides 9,000 ppm System

(A) Initial Hydrostatic Mud 1956 PSI Ak1 Recorder No. 7437 Range 4200
 (B) First Initial Flow Pressure 137 PSI @ (depth) 3652 w/Clock No. 26199
 (C) First Final Flow Pressure 314 PSI Ak1 Recorder No. 13754 Range 4000
 (D) Initial Shut-In Pressure 433 PSI @ (depth) 3656 w/Clock No. 27567
 (E) Second Initial Flow Pressure 344 PSI Ak1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 393 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 521 PSI Initial Opening 45 Test _____
 (H) Final Hydrostatic Mud 1786 PSI Initial Shut-In 60 Jars _____

TRILOBITE TESTING L.L.C. 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 SUSTAINED, 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
 Final Shut-In 60 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

Approved By [Signature]

Our Representative [Signature]



HALLIBURTON SERVICES

A Division of Halliburton Company

TICKET

NO. 245684-X

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME 9 Teichman		COUNTY Stefford	STATE Ks.	CITY / OFFSHORE LOCATION	DATE 6-22-92
CHARGE TO Hallwood Petroleum		OWNER Same		TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR Duke Drils Rig #1		LOCATION 1 Great Bend, Ks.	CODE 025520
CITY, STATE, ZIP		SHIPPED VIA Co Trk <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		LOCATION 2 Pratt, Ks.	CODE
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO.	DELIVERED TO Location	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB 010		B-117886	ORDER NO.	REFERRAL LOCATION	

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists, American payable NET by the 25th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state whose services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					CITY	MEAS	CITY	MEAS		
000-117		1		MILEAGE	25	mi			2.60	65 00
001-016		1		Pump Charge	8	hr		Ft.	680.	680 00
030-503		1		Plug wood	1	cc	8%		90.00	90 00
40	807.93059	1		Controlizers	3	cc	8%		62.00	186 00

THIS IS NOT AN INVOICE

RECEIVED
KANSAS CORPORATION COMMISSION
NOV 10 1992
CONSERVATION DIVISION
WICHITA, KS

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-117886

306071

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X George Hutton
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X George Hutton

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

Jerry Bennett
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.



HALLIBURTON SERVICES

A Division of Halliburton Company

BULK MATERIALS DELIVERY AND TICKET CONTINUATION

ORIGINAL

FOR INVOICE AND TICKET NO.

245689

DATE 6-22-92	CUSTOMER ORDER NO.	WELL NO. AND FARM Teichman	COUNTY Stafford	STATE Ks.
CHARGE TO Hallwood Petroleum		OWNER Hallwood Petro.	CONTRACTOR Duke Drlg.	No. B.117886
MAILING ADDRESS		DELIVERED FROM Pratt, Ks.	LOCATION CODE 25555	PREPARED BY S.C. Henry
CITY & STATE		DELIVERED TO Location	TRUCK NO. 50808-2609	RECEIVED BY J Bennett

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT		
		L	D		QTY.	MEAS.	QTY.	MEAS.				
				400 40ZPozmix/60ZCement								
504-308	516.00261			Standard Cement	240	sk			6.06	1454.	40	
506-105	516.00286			Pozmix A	160	sk			3.40	544.	00	
506-121	516.00259			Halliburton Gel 2% Allowed	5	sk					NC	
509-406	890.50812			Calcium Chloride 37W/400	10	sk			26.50	265.	00	
<p>THIS IS NOT AN INVOICE</p> <p>RECEIVED KANSAS CORPORATION COMMISSION NOV 10 1992 CONSERVATION DIVISION WICHITA, KS</p>												
				Returned Mileage Charge	TOTAL WEIGHT		LOADED MILES		TON MILES			
				SERVICE CHARGE ON MATERIALS RETURNED					CU. FEET			
500-207				SERVICE CHARGE					CU. FEET 420	1.15	483. 00	
500-306				Mileage Charge	35.716	TOTAL WEIGHT	22	LOADED MILES	392.88	TON MILES	.80 314. 31	
No. B 117886		CARRY FORWARD TO INVOICE							SUB-TOTAL		3060. 71	

DISTRICT Pratt, Ks. DATE 6-22-92

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Hallwood Petroleum (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 9 LEASE Teichman SEC 10 TWP. 28S RANGE 12W

FIELD _____ COUNTY Steffard STATE Ks. OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING		<u>N</u>	<u>38</u>	<u>8 5/8</u>	<u>KB</u>	<u>642</u>	
LINER							
TUBING							
OPEN HOLE				<u>12 1/4</u>	<u>642</u>	<u>644</u>	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

RECEIVED
KANSAS CORPORATION COMM. MISSION
NOV 10 1992
CONSERVATION DIVISION
WICHITA, KS

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Set 8 5/8 @ 642' w/ 300 SKS (40-60) Pozmix 3% cc, 2% gel
100 SKS (40-60) Pozmix 3% cc, No gel

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration the above-named Customer agrees THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice upon settlement of all other matters of Customer's account by the last day of the month following the month in which the invoice is dated. Customer agrees to pay interest thereon after settlement of all other matters of Customer's account but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorneys fees in the amount of 20% of the amount of the unpaid account.
 - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of Halliburton from and against any claims, liability, expenses, attorneys fees and costs of defense to the extent permitted by law for:
 - Damage to property owned by, in the possession of or leased by Customer and/or the well owner (if different from Customer), including but not limited to surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - Reservoir formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
- The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section (b) and Section (c) below shall apply to claims or liabilities of Halliburton or its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of Halliburton resulting from negligence, strict liability or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies or materials or any error in the preparation, design, manufacture, distribution, or marketing thereof or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections (b) and (c) shall include Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of its products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gaining such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
 - That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability to a customer may be exclusive remedy in any cause of action whether in contract, tort, breach of warranty or otherwise arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, punitive or consequential damages.
 - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing unit returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
 - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
 - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT

SIGNED George S. ... CUSTOMER
DATE 6-22-92



JOB SUMMARY

HALLIBURTON DIVISION Northeastern Area 1
 HALLIBURTON LOCATION Great Bend, Ks

BILLED ON TICKET NO. 245681

WELL DATA

FIELD SEC 10 TWP 22S RNG 12W COUNTY Stafford STATE Ks

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		<u>M</u>	<u>38</u>	<u>8 5/8</u>	<u>KB</u>	<u>642</u>	
LINER							
TUBING							
OPEN HOLE				<u>12 1/4</u>	<u>642</u>	<u>644</u>	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

FORMATION THICKNESS FROM TO
 INITIAL PROD: OIL BPD. WATER BPD. GAS MCFD
 PRESENT PROD: OIL BPD. WATER BPD. GAS MCFD
 COMPLETION DATE MUD TYPE MUD WT.
 PACKER TYPE SET AT
 BOTTOM HOLE TEMP. PRESSURE
 MISC. DATA TOTAL DEPTH

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS <u>1-4-8</u>	<u>3</u>	<u>Hawco</u>
BOTTOM PLUG		
TOP PLUG <u>Wood</u>	<u>1</u>	<u>"</u>
HEAD <u>Monifold</u>	<u>1</u>	<u>"</u>
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-22</u>	DATE <u>6-22</u>	DATE <u>6-22</u>	DATE <u>6-22</u>
TIME <u>1100</u>	TIME <u>1220</u>	TIME <u>1745</u>	TIME <u>1930</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J Bennett</u>	<u>RCM ABC</u>	
<u>W W. Is-a</u>	<u>51797</u>	<u>035520</u>
	<u>Bulk</u>	
<u>J M. Joff</u>	<u>50805</u>	<u>25555</u>
<u>B M. Joff</u>	<u>3609</u>	<u>25552</u>

MATERIALS

TREAT. FLUID DENSITY LB/GAL-API
 DISPL. FLUID DENSITY LB/GAL-API
 PROP. TYPE SIZE LB
 PROP. TYPE SIZE LB
 ACID TYPE GAL
 ACID TYPE GAL
 ACID TYPE GAL
 SURFACTANT TYPE GAL IN
 NE AGENT TYPE GAL IN
 FLUID LOSS ADD. TYPE GAL-LB IN
 GELLING AGENT TYPE GAL-LB IN
 FRIC. RED. AGENT TYPE GAL-LB IN
 BREAKER TYPE GAL-LB IN
 BLOCKING AGENT TYPE GAL-LB
 PERFPAC BALLS TYPE QTY.
 OTHER
 OTHER

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 WICHITA, KS

DEPARTMENT Cement
 DESCRIPTION OF JOB Set 8 5/8 Surface
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE X George Elation
 HALLIBURTON OPERATOR Ferry Bennett COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./BK.	MIXED LBS/GAL.
	<u>300</u>	<u>40 LB</u>	<u>Pozmix</u>	<u>B</u>	<u>2% gel, 3% cc</u>	<u>1.28</u>	<u>14.48</u>
	<u>100</u>	<u>40 LB</u>	<u>Pozmix</u>	<u>B</u>	<u>3% gel, No Gel</u>	<u>1.11</u>	<u>15.23</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING DISPLACEMENT PRESLUSH: BBL-GAL TYPE
 BREAKDOWN MAXIMUM LOAD & BKDN: BBL-GAL PAD: BBL-GAL
 AVERAGE FRACTURE GRADIENT TREATMENT: BBL-GAL DISP. BBL-GAL 38.8
 SHUT-IN: INSTANT 5-MIN. 15-MIN. CEMENT SLURRY BBL-GAL 68.4 + 17.2 = 85.6
 HYDRAULIC HORSEPOWER
 ORDERED AVAILABLE USED
 AVERAGE RATES IN BPM
 TREATING DISPL. OVERALL
 CEMENT LEFT IN PIPE
 FEET 15 REASON Request

CUSTOMER: Hallwood Petroleum
 LEASE: Tushman
 WELL NO: 9
 JOB TYPE: Surface
 DATE: 6-22-92

**HALLIBURTON SERVICES
JOB LOG**

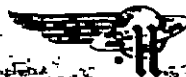
ORIGINAL

WELL NO. 9 LEASE Teichman TICKET NO. 245684
 CUSTOMER Hallwood Petroleum PAGE NO. 1
 JOB TYPE 8 5/8 Surface DATE 6-22-92

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BEL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
#1	1100							Called out
	1220							On Location
								Set up trucks
								Break Circulation
	1805	7	1		✓		460	Start mixing cement
	1816	7	68.4		✓		300	Start mixing tail cement
	1822	7	58.2		✓		250	Finish mixing cement
	1823		—		✓		—	Release Plug (wood)
	1825	1	1		✓		50	Start displacement
	1830		38.8		✓		520 Yes	Plug down @ 622' By Wireline
							OK	Good cement returns
								Wash & Rock up
								Job Complete
								Thank You
								81810 Jerry Bennett

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 WICHITA, KS



HALLIBURTON SERVICES

A Division of Halliburton Company

TICKET

NO. 245809-3

FORM 1900 R-11L

WELL NO. - FARM OR LEASE NAME: **A-9 Teichman** COUNTY: **STEFFORD** STATE: **KS** CITY / OFFSHORE LOCATION: DATE: **6-30-92**

CHARGE TO: **Hallwood Petroleum Inc** OWNER: **Sgmc** TICKET TYPE (CHECK ONE): SERVICE SALES NITROGEN JOB: YES NO

ADDRESS: CONTRACTOR: **Duke Drilling #1** LOCATION: **16t Bend** CODE: **25520**

CITY, STATE, ZIP: SHIPPED VIA: **51797** FREIGHT CHARGES: PER COLLECT LOCATION: **2** CODE:

WELL TYPE: **21st 01** WELL CATEGORY: **Dev 01** WELL PERMIT NO.: DELIVERED TO: **Location** LOCATION: **3** CODE:

TYPE AND PURPOSE OF JOB: **Prod String** ORDER NO.: REFERRAL LOCATION: **035 B-118001**

In consideration, the above-named Customer agrees to pay Halliburton in accordance with the terms and conditions stated in Halliburton's current general conditions. Payment shall be made by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is issued, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state whose services are performed or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	LOC	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
200-117		1		MILEAGE	22	mi			2.60	57.20
201-016		1		Pump Charge	8	hrs	3750	ft		124.00
230-018		1		SW Plug	1	ea	5 1/2	in		60.00
40	807.93022	1		Centralizers		ea	5 1/2	in	44.00	352.00
244	815.19251	1		Insert Float Valve	1	ea	5 1/2	in		83.00
27	815.19311	1		Fillup Tube	1	ea	5 1/2	in		30.00
509-968		1		Salt (For Pre Flush)	500	lbs	10	skt	10	50.00
219-241		1		Rotating head	1	ea				155.00

NOT THIS IS AN INVOICE

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WICHITA, KS

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-118001** **3525 19**

WAS JOB SATISFACTORILY COMPLETED? _____
 WAS OPERATION OF EQUIPMENT SATISFACTORY? _____
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____
 X **Bob Hayden**
 CUSTOMER OR HIS AGENT (SIGNATURE)
 X _____
 CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

Allen Byrd

HALLIBURTON OPERATOR APPROVAL

HALLIBURTON APPROVAL

1

SUB TOTAL _____
 APPLICABLE TAXES WILL BE ADDED ON INVOICE

BULK MATERIALS DELIVERY AND TICKET CONTINUATION



FOR INVOICE AND TICKET NO. **245809**

DATE 6-29-92	CUSTOMER ORDER NO.	WELL NO. AND FARM Teichman #9	COUNTY Stafford	STATE Ks.
CHARGE TO Hallwood Petroleum		OWNER Hallwood Petro.	CONTRACTOR Duke Drig.	No. B 118001
MAILING ADDRESS		DELIVERED FROM Pratt, Ks.	LOCATION CODE 25555	PREPARED BY S. C. Henry
CITY & STATE		DELIVERED TO Location	TRUCK NO. 50808	RECEIVED BY <i>John Buehler</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY	MEAS.	QTY.	MEAS.		
504-308	516.00261			Standard Cement	25	sk	1		6.06	1363. 50
509-968	516.00158			Salt Blended 10ZW/225	1000	lb.			.10	100. 00
508-292	70.15573			Gilsonite Blended 5FW/125	650	lb.			.47	305. 50
507-210	890.50071			Floccals Blended 1/4FW/125	31	lb			1.30	40. 30
507-775	516.00144			Halad-322 Blended .75ZW/225	159	lb.			6.25	977. 85
508-127	890.50131			EA-2 Blended 5ZW/225	11	sk			19.70	216. 70
<div style="position: absolute; opacity: 0.5; font-size: 4em; transform: rotate(-45deg); pointer-events: none;">THIS IS NOT AN INVOICE</div> <div style="position: absolute; border: 1px solid black; padding: 5px; text-align: center;"> <p style="margin: 0;">RECEIVED</p> <p style="margin: 0;">KANSAS CORPORATION COMMISSION</p> <p style="margin: 0;">NOV 10 1992</p> <p style="margin: 0;">CONSERVATION DIVISION</p> <p style="margin: 0;">WICHITA, KS</p> </div>										
			Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES				
			SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET			
500-207			SERVICE CHARGE				CU. FEET 269	1.15		309. 35
500-306			Mileage Charge	26.090	22	266.99		.80		211. 99
B 118001				CARRY FORWARD TO INVOICE		SUB-TOTAL		3525. 19		

CUSTOMER



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1808 R-1



A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 245809

DISTRICT Great Bend DATE 6-30-72

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Hallwood Petroleum (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. A-9 LEASE Teichman SEC. 10 TWP. 22 S RANGE 12

FIELD _____ COUNTY Stefford STATE KS OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING		~	15.5	5 1/2	KB	3748	
LINER							
TUBING							
PERFORATIONS				7/8	3748	3750	SHOTS/FT.

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Set 5 1/2" Long string with 100 sks standard, 102 salt 757.
Hiload-327 57 E.A-7 and 125 sks Same th 5#6.1500 ts 1/2 K.F
Flack added rd sk Preflush with 25 BBL/500lb salt flush
Total Pipe 375145' R. rate p pc

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.

b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for

- Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
- Reservoir formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
- Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated or furnished by Halliburton or any defect in the data, products, supplies, materials or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean: Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.

d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials or their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect punitive or consequential damages.

e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing unit returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.

f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.

g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.

h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED _____ DATE 6-29

WELL DATA

FIELD: 22-180-Stafford STATE: KS

FORMATION NAME: _____ TYPE: _____

FORMATION THICKNESS: _____ TO _____

INITIAL PROD: OIL _____ SPD. WATER _____ SPD. GAS _____ MCFD

PRESENT PROD: OIL _____ SPD. WATER _____ SPD. GAS _____ MCFD

COMPLETION DATE: _____ MUD TYPE: _____ MUD WT: _____

PACKER TYPE: _____ SET AT: _____

BOTTOM HOLE TEMP: _____ PRESSURE: _____

MISC. DATA: _____ TOTAL DEPTH: _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		15.5	5 1/2	KO	3744	
LINER						
TUBING						
OPEN HOLE			7 1/2	3719	3750	SHOT/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
FLOAT COLLAR 1050-4 5 1/2	1	Howco
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS 5-4 5 1/2	8	Howco
BOTTOM PLUG		
TOP PLUG		
HEAD Man. Fold	1	Howco
PACKER		
OTHER Rotating Head	1	Howco

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
6-29-92 DATE TIME 19 00	6-29-92 DATE TIME 22 00	6-30-92 DATE TIME 01 00	6-30-92 DATE TIME 05 45

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
G. Bye-17	85826	6+ Bend
W. Wilson	69377	6+ Bend
Giocabetti	50808 6-15	Pratt

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NOV 10 1992

CONSERVATION DIVISION
WICHITA, KS

DEPARTMENT: Cement

DESCRIPTION OF JOB:
5 1/2 Logging string

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE: X. Bud Prackin

HALLIBURTON OPERATOR: Glenn Byerly

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CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	100	Standard	B	107.5% Sulf .75% H.k.d 322	5% EA-2	1.26	15.85
	125	Standard	B	107.5% Sulf .75% H.k.d 322	5% EA-2 5% K ⁹ 110	1.36	15.3

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISP _____ OVERALL _____

CEMENT LEFT IN PIPE _____

PREFLUSH: BBL-GAL 25 TYPE Salt

LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 86.5

CEMENT SLURRY: BBL-GAL 527

TOTAL VOLUME: BBL-GAL _____

REMARKS

Hallwood Petroleum
 LeAnn Teichmayer
 WELL NO. A-9
 JOB TYPE Logging
 DATE 6-30-92

JOB LOG

WELL NO. A-9 LEASE Terchman

TICKET NO. 245809

CUSTOMER Hollywood Petroleum

PAGE NO. 1

JOB TYPE Long string

DATE 6-30-92

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T.	C.	TUBING	CASING	
	22:00							On Location
	00:45							Run Float Equipment
	02:30							Casing on Bottom
	02:45							- Break Circulation (Rig Pump)
	03:55	6	25					500 Run Salt Flush
	04:08	6	0					500 Start Mixing & lead. cnt
	04:15	6	22.4					500 Start Mixing Tail cnt
	04:25	6	52.7					100 Finish Mixing
	04:26							- Wash out lines
	04:30							- Release Plug
	04:33	8	0					200 Start Displacement
	04:39	8	34					400 Cement on Bottom
	04:44	5	83					700 Decrease Rate
	04:45		86.5					1300 Lead Plug
	04:48							Release PSI
	04:49							Float held
	04:50							wash up
	03:50							Plug Rathole 10 sks. of l.c.
	05:45							Job Complete
								Thanks
								Glen Wayne

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CONSERVATION DIVISION
WICHITA, KS

4,668.00