TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Do not write inventoried

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 DRLG 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 — ¾" _____

Top Packer Depth 3287 Hole Size — 7⅞" _____ Rubber Size — 6¾" _____

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 11.2

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

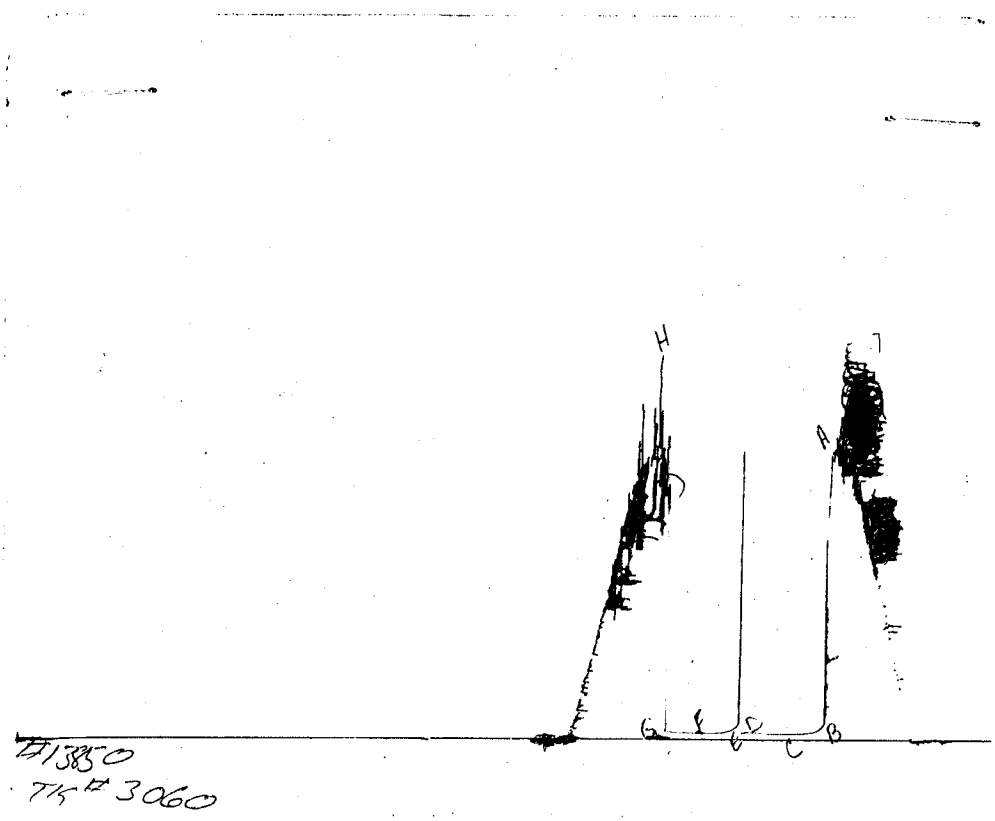
Our Representative _____

525

TOTAL PRICE $ _____

Printcraft Printers - Hays, KS

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

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

№ 3060

Well Name & No. KOMARK "A" 23 Test No. ONE Date 9-5-90

Company HALLWOOD PETROLEUM INC. Zone Tested LKC. - "J"

Address P.O. BOX 378111 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 4½" FH.

Anchor Length 27 Top Choke — 1" Bottom Choke — ¾"

Top Packer Depth 3287 Hole Size — 7⅞" Rubber Size — 6¾"

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 WEAK FOR 15" MIN.

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. 13550 Range 4425

(B) First Initial Flow Pressure 33 PSI @ (depth) 3297 w/Clock No. 25813

(C) First Final Flow Pressure 44 PSI AK1 Recorder No. 13851 Range 4325

(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 30 Test 400

(H) Final Hydrostatic Mud 1707 PSI Initial Shut-In 30 Jars

Final Flow 30 Safety Joint

Final Shut-In 30 Straddle

Circ. Sub

Approved By Sampler 125.00

Our Representative Extra Packer

Other

TOTAL PRICE $ 525.00

Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. KOMARK #23 Test No. 2 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 DRLG Est. Ft. of Pay 0

Location: Sec. 30 Twp. 22S Rge. 11W Co. STAFFORD State KANSAS

Interval Tested 3367-3382 Drill Pipe Size 4.5" FH

Anchor Length 15 Top Choke — 1" _____ Bottom Choke — ¾" _____

Top Packer Depth 3362 Hole Size — 7⅞" _____ Rubber Size — 6¾" _____

Bottom Packer Depth 3367 Wt. Pipe I.D. — 2.7 Ft. Run 0

Total Depth 3382 Drill Collar — 2.25 Ft. Run 0

Mud Wt. 9.2 lb/gal. Viscosity 47 Filtrate 11.2

Tool Open @ 10:00 PM Initial Blow WEAK TO FAIR BLOW-3" IN BUCKET IN 10 MINUTES

Final Blow SAME AS INITIAL

Recovery — Total Feet 30 Flush Tool? NO

Rec. 380 Feet of GAS IN PIPE

Rec. 30 Feet of OIL CUT MUD-10%OIL/90% MUD

Rec. 0 Feet of _____

Rec. 0 Feet of _____

Rec. 0 Feet of _____

BHT 106 °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	1611.2 PSI	AK1 Recorder No.	13850	Range	4425
(B) First Initial Flow Pressure	20.9 PSI	@ (depth)	3377	w/Clock No.	25813
(C) First Final Flow Pressure	31.4 PSI	AK1 Recorder No.	13851	Range	4325
(D) Initial Shut-In Pressure	116.9 PSI	@ (depth)	3382	w/Clock No.	31154
(E) Second Initial Flow Pressure	32.9 PSI	AK1 Recorder No.	0	Range	0
(F) Second Final Flow Pressure	32.9 PSI	@ (depth)	0	w/Clock No.	0
(G) Final Shut-In Pressure	114.5 PSI	Initial Opening	60		
(H) Final Hydrostatic Mud	1600.9 PSI	Initial Shut-In	60		
		Final Flow	60		
		Final Shut-In	60		

MR HARRY SCHMIDT'

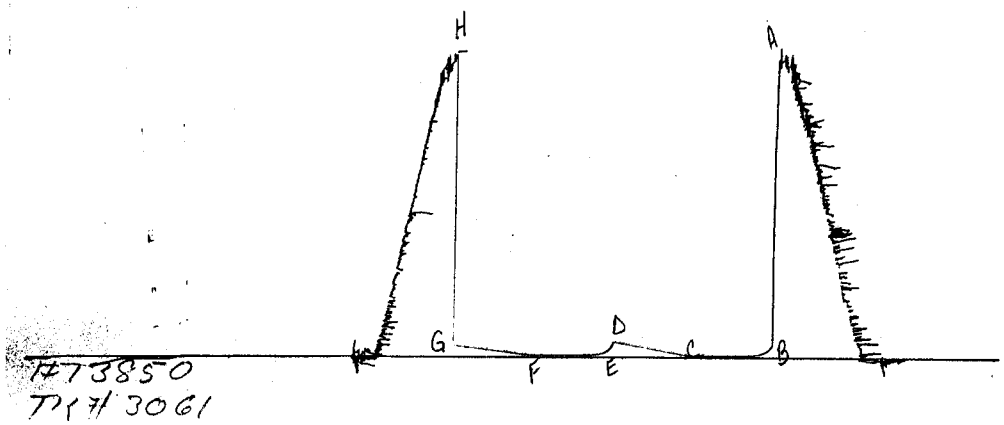
Our Representative _____

525

TOTAL PRICE $ _____

Printcraft Printers - Hays, KS

DST# 2 RECORDER# 13850



This is an actual photograph of recorder chart.

POINT	PRESSURE 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

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.

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

№ 3061

Well Name & No. KOMARK # 23 Test No. TWO Date 9-5-90

Company HALLWOOD PETROLEUM INC. Zone Tested LKC. - H

Address P.O. BOX 378111 DENVER CO. 80237 Elevation 1821

Co. Rep. / Geo. J.C. MAUGHAN Cont. DUKE Est. Ft. of Pay

Location: Sec. 30 Twp. 22 S Rge. 11 W Co. STAFFORD State KANS.

No. of Copies Distribution Sheet Yes No Turnkey Yes No

Interval Tested 3367 TO 3382 Drill Pipe Size 4½" F.H.

Anchor Length 15' Top Choke — 1" Bottom Choke — ¾"

Top Packer Depth 3362 Hole Size — 7⅞" Rubber Size — 6¾"

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 47 Filtrate 11.2

Tool Open @ 10:00 P Initial Blow WEAK TO FAIR 3" IN BUCKET 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	400.00
(H) Final Hydrostatic Mud	1610 PSI	Initial Shut-In	60	Jars	
		Final Flow	60	Safety Joint	
		Final Shut-In	60	Straddle	
				Circ. Sub	
				Sampler	125.00
				Extra Packer	
				Other	
				TOTAL PRICE $	525.00

Approved By

Our Representative

Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. KOMARK #23 Test No. 3 Date 9/6/90

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 DRLG Est. Ft. of Pay 0

Location: Sec. 30 Twp. 22S Rge. 11W Co. STAFFORD State KANSAS

Interval Tested 3403-3442 Drill Pipe Size 4.5" FH

Anchor Length 39 Top Choke — 1" _____ Bottom Choke — ¾" _____

Top Packer Depth 3308 Hole Size — 7⅞" _____ Rubber Size — 6¾" _____

Bottom Packer Depth 3403 Wt. Pipe I.D. — 2.7 Ft. Run 0

Total Depth 3442 Drill Collar — 2.25 Ft. Run 0

Mud Wt. 9.2 lb/gal. Viscosity 51 Filtrate 10.8

Tool Open @ 3:15 PM Initial Blow RECEIVED FAIR BLOW THROUGHOUT-TO BOTTOM OF BUCKET IN 10 MINUTES

Final Blow WEAK TO FAIR BLOW-4" IN BUCKET THROUGHOUT FLOW PERIOD

Recovery — Total Feet 135 Flush Tool? NO

Rec. 585 Feet of GAS IN PIPE

Rec. 15 Feet of OIL CUT MUD

Rec. 120 Feet of MUDDY WATER

Rec. 0 Feet of

Rec. 0 Feet of

BHT 106 °F Gravity _____ °API @ 0 °F Corrected Gravity 0 °API

RW 0.1 @ 90 °F Chlorides 60000 ppm Recovery Chlorides 6000 ppm System

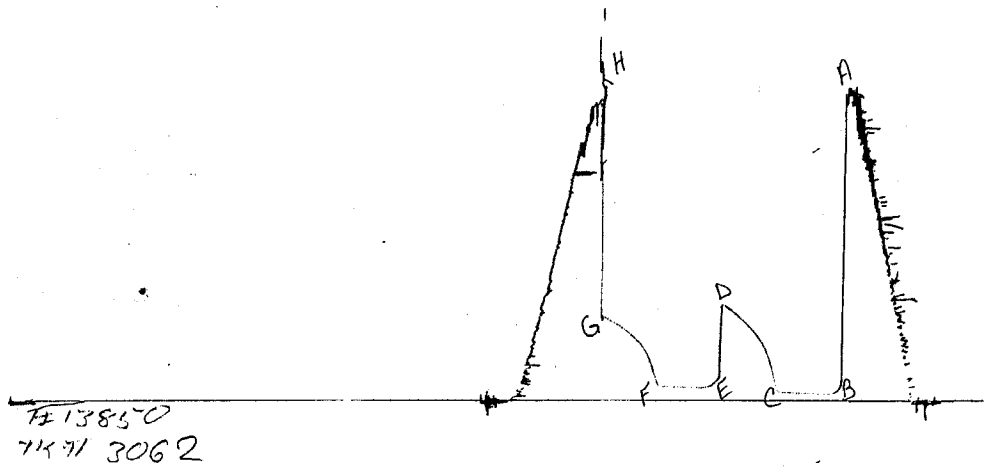
(A) Initial Hydrostatic Mud	1788.9 PSI	AK1 Recorder No.	13850	Range	4425
(B) First Initial Flow Pressure	45.3 PSI	@ (depth)	3408	w/Clock No.	25813
(C) First Final Flow Pressure	67.2 PSI	AK1 Recorder No.	13851	Range	4325
(D) Initial Shut-In Pressure	566.1 PSI	@ (depth)	3442	w/Clock No.	31154
(E) Second Initial Flow Pressure	79.4 PSI	AK1 Recorder No.	0	Range	0
(F) Second Final Flow Pressure	89.7 PSI	@ (depth)	0	w/Clock No.	0
(G) Final Shut-In Pressure	491.2 PSI	Initial Opening	45		
(H) Final Hydrostatic Mud	1779.5 PSI	Initial Shut-In	45		
		Final Flow	45		
		Final Shut-In	45		

MR HARRY SCHMDIT 525

Our Representative _____ TOTAL PRICE $ _____

Printcraft Printers - Hays, KS

DST# 3 RECORDER# 13850



FI 13850
7K-71 3062

This is an actual photograph of recorder chart.

POINT	PRESSURE 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

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.

Gravity 0 corrected @ 60 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

№ 3062

Well Name & No. KOMARK #23 Test No. THREE Date 9-6-90

Company HALLWOOD PETROLEUM INC. Zone Tested LKC.-

Address P.O. BOX 378111 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 3403 TO 3442 Drill Pipe Size

Anchor Length 39' Top Choke — 1" Bottom Choke — ¾"

Top Packer Depth 3308 Hole Size — 7⅞" Rubber Size — 6¾"

Bottom Packer Depth 3403 Wt. Pipe I.D. — 2.7 Ft. Run

Total Depth 3442 Drill Collar — 2.25 Ft. Run

Mud Wt. 9.2 lb / gal. Viscosity 51 Filtrate 10.8

Tool Open @ 3:15 P Initial Blow RECEIVED A FAIR BLOW THROUGHOUT BOT. OF BUCKET IN 10 MIN.

Final Blow WEAK TO FAIR 4" IN BUCKET THROUGHOUT F.P.

Recovery — Total Feet 135 Flush Tool? NO

Rec. 15' Feet of GAS IN PIPE

Rec. 15' Feet of OIL CUT MUD

Rec. 120 Feet of MUDY WATER

Rec. Feet of

Rec. Feet of

BHT 106 °F Gravity °API @ °F Corrected Gravity °API

RW 0.1 @ 90 °F Chlorides 60,000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud	1785 PSI	AK1 Recorder No.	13850	Range	4425
(B) First Initial Flow Pressure	44 PSI	@ (depth)	3408	w/Clock No.	25813
(C) First Final Flow Pressure	66 PSI	AK1 Recorder No.	13851	Range	4325
(D) Initial Shut-In Pressure	565 PSI	@ (depth)	3442	w/Clock No.	31154
(E) Second Initial Flow Pressure	77 PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	88 PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	488 PSI	Initial Opening	45	Test	4000
(H) Final Hydrostatic Mud	1780 PSI	Initial Shut-In	45	Jars	
		Final Flow	45	Safety Joint	
		Final Shut-In	45	Straddle	
				Circ. Sub	
				Sampler	125 cu
				Extra Packer	
				Other	
				TOTAL PRICE $	525.00

Approved By

Our Representative

Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. KOMARK #23 Test No. 4 Date 9/7/90

Company HALLWOOD PETROLEUM INC Zone Tested ARBUCKLE

Address P.O. BOX 378111 DENVER COLORADO 80237 Elevation 1821

Co. Rep./Geo. MR J.C. MUSGROVE Cont. DUKE DRLG Est. Ft. of Pay 0

Location: Sec. 30 Twp. 22S Rge. 11W Co. STAFFORD State KANSAS

Interval Tested 3519-3546 Drill Pipe Size 4.5" FH

Anchor Length 27 Top Choke — 1" _____ Bottom Choke — ¾" _____

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 0

Total Depth 3546 Drill Collar — 2.25 Ft. Run 0

Mud Wt. 9.3 lb/gal. Viscosity 49 Filtrate 12.8

Tool Open @ 11:30 AM Initial Blow VERY GOOD-TO BOTTOM OF BUCKET IN 2 MINUTES

Final Blow SAME AS INITIAL BLOW

Recovery — Total Feet 1430 Flush Tool? NO

Rec. 1430 Feet of WATER

Rec. 0 Feet of

Rec. 0 Feet of

Rec. 0 Feet of

Rec. 0 Feet of

BHT 114 °F Gravity _____ °API @ 0 °F Corrected Gravity 0 °API

RW 0.35 @ 90 °F Chlorides 15000 ppm Recovery Chlorides 9000 ppm System

(A) Initial Hydrostatic Mud	1920.3 PSI	AK1 Recorder No.	13850	Range	4425
(B) First Initial Flow Pressure	90.4 PSI	@ (depth)	3524	w/Clock No.	25813
(C) First Final Flow Pressure	501.2 PSI	AK1 Recorder No.	13851	Range	4325
(D) Initial Shut-In Pressure	775.4 PSI	@ (depth)	3546	w/Clock No.	31154
(E) Second Initial Flow Pressure	467.8 PSI	AK1 Recorder No.	0	Range	0
(F) Second Final Flow Pressure	650.2 PSI	@ (depth)	0	w/Clock No.	0
(G) Final Shut-In Pressure	778.9 PSI	Initial Opening	30		
(H) Final Hydrostatic Mud	1901.4 PSI	Initial Shut-In	30		
		Final Flow	30		
		Final Shut-In	30		

MR HARRY SCHMIDT

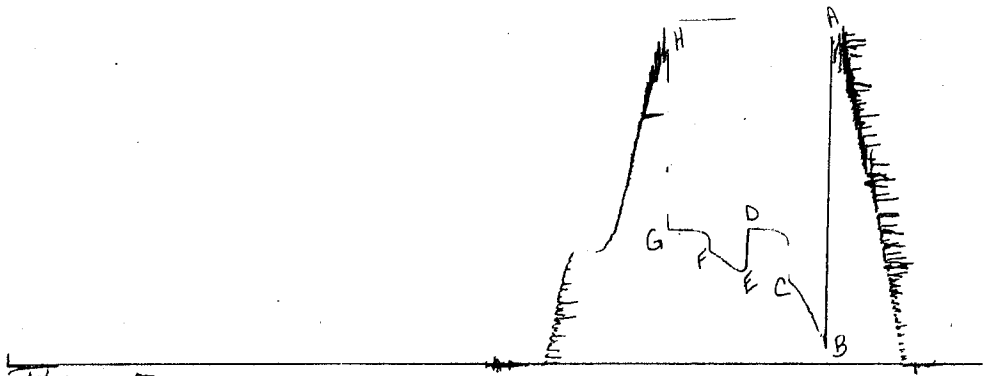
Our Representative

525

TOTAL PRICE $

Printcraft Printers - Hays, KS

DST# 4 RECORDER# 13850



KZ 1385
TVD 3063

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

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

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 .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

№ 3063

Well Name & No. HOWARD E 23 Test No. FOUR Date 9-7-90

Company HALLWOOD PETROLEUM INC. Zone Tested ARB.

Address P.O. BOX 378111 DENVER CO. 80237 Elevation 1821

Co. Rep. / Geo. J.C. MUSGROVE Cont. DUKE Est. Ft. of Pay

Location: Sec. 30 Twp. 22S Rge. 11W Co. STAFFORD State KS

No. of Copies 1 Distribution Sheet ___ Yes ___ No Turnkey ___ Yes ___ No

Interval Tested 3519 TO 3546 Drill Pipe Size 4 1/2" XH

Anchor Length 27' Top Choke — 1" ___ Bottom Choke — ¾" ___

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 WEAK SURF. BOT. OF BUCKET 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.	25215
(C) First Final Flow Pressure	500 PSI	AK1 Recorder No.	13851	Range	4325
(D) Initial Shut-In Pressure	772 PSI	@ (depth)	3546	w/Clock No.	31154
(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	HOWCO
(H) Final Hydrostatic Mud	1900 PSI	Initial Shut-In	30	Jars	___
		Final Flow	30	Safety Joint	___
		Final Shut-In	30	Straddle	___
				Circ. Sub	___
				Sampler	125 CC
				Extra Packer	___
				Other	___
				TOTAL PRICE $	525.00

Approved By [signature]

Our Representative [signature]

Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. KOMARK #23 Test No. 5 Date 9/8/90

Company HALLWOOD PETROLEUM INC Zone Tested ARBUCKLE

Address P.O. BOX 378111 DENVER COLORADO 80237 Elevation 1821

Co. Rep./Geo. MR J.C. MUSGROVE Cont. DUKE DRLG Est. Ft. of Pay 0

Location: Sec. 30 Twp. 22S Rge. 11W Co. STAFFORD State KANSAS

Interval Tested 3601-3625 Drill Pipe Size 4.5" FH

Anchor Length 24 Top Choke — 1" _____ Bottom Choke — ¾" _____

Top Packer Depth 3596 Hole Size — 7⅞" _____ Rubber Size — 6¾" _____

Bottom Packer Depth 3601 Wt. Pipe I.D. — 2.7 Ft. Run 0

Total Depth 3625 Drill Collar — 2.25 Ft. Run 0

Mud Wt. 9.3 lb/gal. Viscosity 49 Filtrate 12.8

Tool Open @ 1:15 AM Initial Blow VERY GOOD TO BOTTOM OF BUCKET IN 10 SECONDS

Final Blow VERY WEAK-1/2" IN BUCKET

Recovery — Total Feet 2050 Flush Tool? NO

Rec. 2050 Feet of WATER

Rec. 0 Feet of _____

Rec. 0 Feet of _____

Rec. 0 Feet of _____

Rec. 0 Feet of _____

BHT 114 °F Gravity _____ °API @ 0 °F Corrected Gravity 0 °API

RW 1.2 @ 60 °F Chlorides 6000 ppm Recovery Chlorides 9000 ppm System

(A) Initial Hydrostatic Mud	1975.6 PSI	AK1 Recorder No.	13850	Range	4425
(B) First Initial Flow Pressure	467.8 PSI	@ (depth)	3605	w/Clock No.	25813
(C) First Final Flow Pressure	915.1 PSI	AK1 Recorder No.	13851	Range	4325
(D) Initial Shut-In Pressure	915.1 PSI	@ (depth)	3625	w/Clock No.	31154
(E) Second Initial Flow Pressure	915.1 PSI	AK1 Recorder No.	0	Range	0
(F) Second Final Flow Pressure	915.1 PSI	@ (depth)	0	w/Clock No.	0
(G) Final Shut-In Pressure	915.1 PSI	Initial Opening	30		
(H) Final Hydrostatic Mud	1970.9 PSI	Initial Shut-In	30		
		Final Flow	30		
		Final Shut-In	30		

MR HARRY SCHMIDT

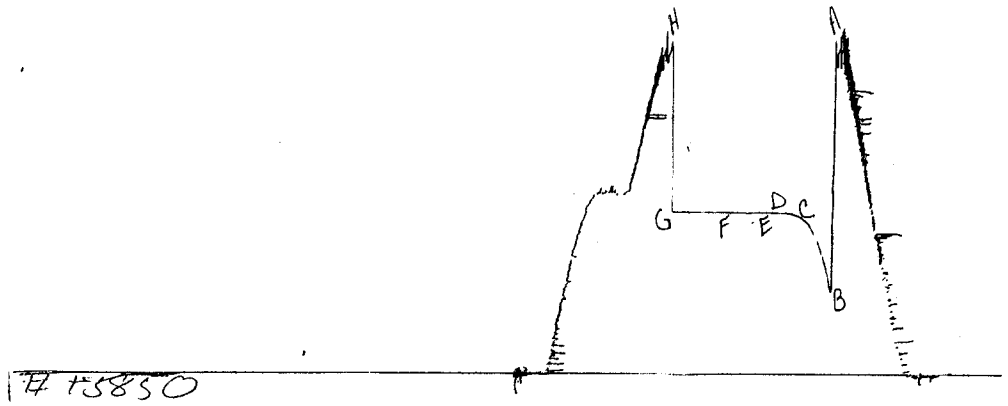
Our Representative _____

525

TOTAL PRICE $ _____

Printcraft Printers - Hays, KS

DST# 5 RECORDER# 13850



#13850
T/S # 3064

This is an actual photograph of recorder chart.

POINT	PRESSURE 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

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. [illegible] Test No. FIVE Date 9-8-90

Company HALLWOOD PETROLEUM INC. Zone Tested ARB.

Address [illegible] Elevation 1921

Co. Rep. / Geo. [illegible] Cont. DUKE Est. Ft. of Pay

Location: Sec. 30 Twp. 22 S Rge. 11 W Co. [illegible] State [illegible]

No. of Copies Distribution Sheet Yes No Turnkey Yes No

Interval Tested 3601 TO 3625 Drill Pipe Size 4½" F.H.

Anchor Length 24' Top Choke — 1" Bottom Choke — ¾"

Top Packer Depth 3596 Hole Size — 7⅞" Rubber Size — 6¾"

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 10.8

Tool Open @ 1:15 A Initial Blow VERY GOOD BOB IN BUCKET IN 1 MIN.

Final Blow VERY WEAK ½" IN BUCKET

Recovery — Total Feet 2050 Flush Tool? NO

Rec. 2,050 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 60000 ppm Recovery Chlorides 9,000 ppm System

(A) Initial Hydrostatic Mud	1973 PSI	AK1 Recorder No.	[illegible]	Range	4029
(B) First Initial Flow Pressure	466 PSI	@ (depth)	3605	w/Clock No.	25513
(C) First Final Flow Pressure	914 PSI	AK1 Recorder No.	13351	Range	4325
(D) Initial Shut-In Pressure	914 PSI	@ (depth)	3625	w/Clock No.	31154
(E) Second Initial Flow Pressure	914 PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	914 PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	914 PSI	Initial Opening	30	Test	400.00
(H) Final Hydrostatic Mud	1973 PSI	Initial Shut-In	30	Jars	
		Final Flow	30	Safety Joint	
		Final Shut-In	30	Straddle	
				Circ. Sub	
				Sampler	125.00
				Extra Packer	
				Other	
				TOTAL PRICE $	525.00

Approved By

Our Representative [illegible]

Printcraft Printers - Hays, KS