TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name F. DINKEL #1 Test No. 1 Date 10/27/92

Company STAAB ENERGY & LEASING Zone LKC-"E"

Address 2514 HANEY DRIVE HAYS KS 67601 Elevation 2329

Co. Rep./Geo. N STAAB/ R NELSON Cont. MURFIN RIG #20 Est. Ft. of Pay

Location: Sec. ~~23~~ 25 Twp. 13S Rge. 21W Co. TREGO State KS

Interval Tested 3684-3700 Drill Pipe Size 4.5" XH

Anchor Length 16 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3679 Drill Collar – 2.25 Ft. Run 202

Bottom Packer Depth 3684 Mud Wt. 8.8 lb/Gal.

Total Depth 3700 Viscosity 46 Filtrate 9.2

Tool Open @ 10:52 PM Initial Blow 1" BLOW BUILDING TO BOTTOM OF BUCKET IN 25 MINUTES
1" BLOW BACK ON SHUT IN

Final Blow 1.5" BLOW BUILDING TO BOTTOM OF BUCKET IN 15 MINUTES
3" BLOW BACK ON SHUT IN

Recovery - Total Feet 275/225'GIP Flush Tool? NO

Rec. 60 Feet of CLEAN GASSY OIL-5%GAS/95%OIL

Rec. 35 Feet of MUD CUT OIL-55%OIL/45%MUD

Rec. 60 Feet of GSY MUD CUT OIL-15%GAS/50%OIL/35%MUD

Rec. 60 Feet of GSY OIL CUT MUD-5%GAS/20%OIL/5%WTR/70%MUD

Rec. 60 Feet of MUD CUT WATER-70%WTR/30%MUD

BHT 110 °F Gravity 37 °API @ 70 °F Corrected Gravity 36 °API

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

(A) Initial Hydrostatic Mud 1805.6 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 45.3 PSI @ (depth) 3690 w / Clock No. 30401

(C) First Final Flow Pressure 110.7 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 589.4 PSI @ (depth) 3699 w / Clock No. 27501

(E) Second Initial Flow Pressure 115.6 PSI AK1 Recorder No. _____ Range _____

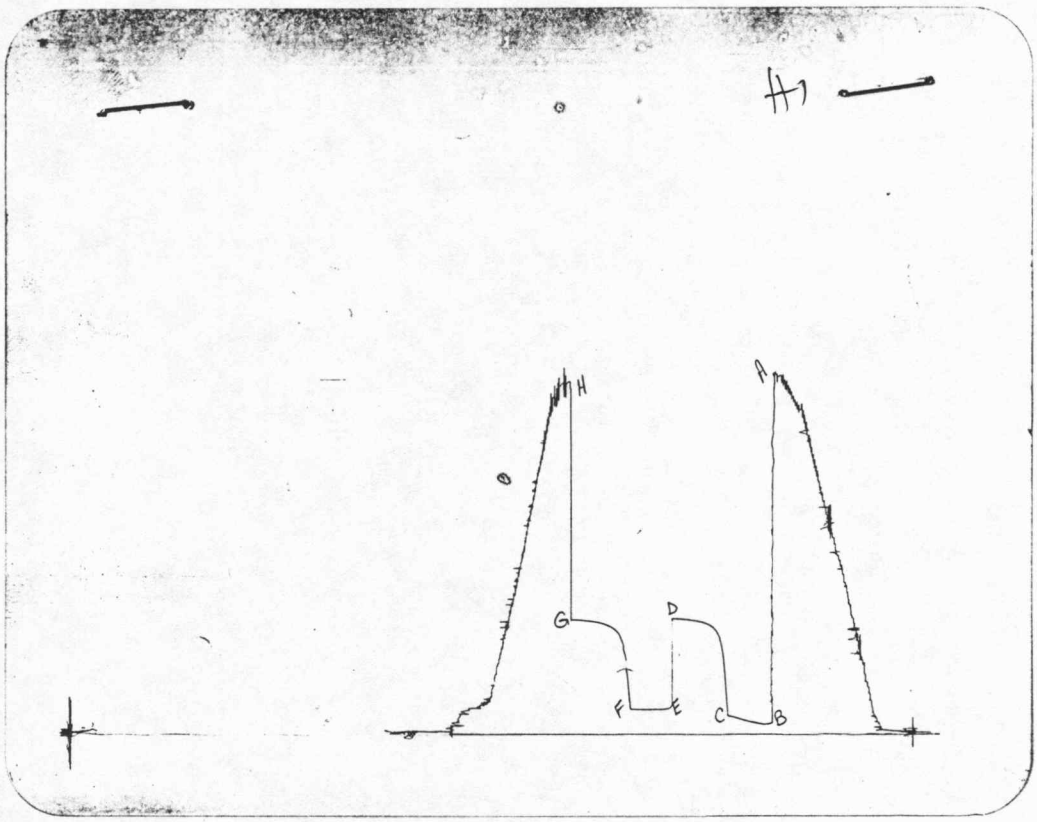
(F) Second Final Flow Pressure 131.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 588.3 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1770.8 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

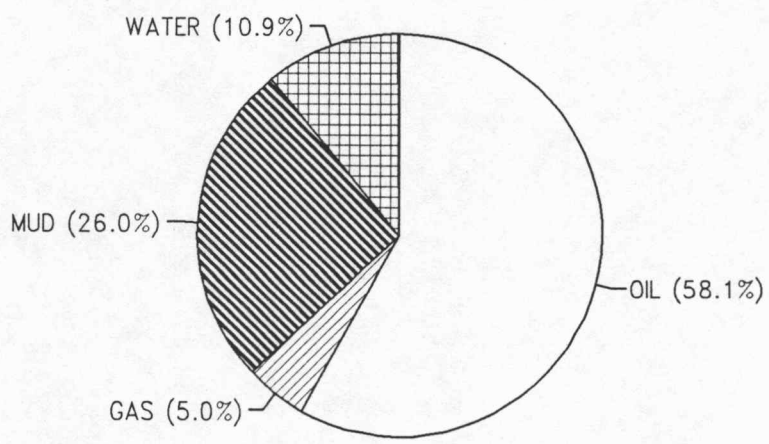
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1796	1805.6
(B) FIRST INITIAL FLOW PRESSURE	44	45.3
(C) FIRST FINAL FLOW PRESSURE	104	110.7
(D) INITIAL CLOSED-IN PRESSURE	591	589.4
(E) SECOND INITIAL FLOW PRESSURE	112	115.6
(F) SECOND FINAL FLOW PRESSURE	126	131.2
(G) FINAL CLOSED-IN PRESSURE	583	588.3
(H) FINAL HYDROSTATIC MUD	1773	1770.8

CALCULATED RECOVERY ANALYSIS

DST # 1 TICKET # 5533

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
DRILL 1	60	5	3	95	57	0	0	0	0
PIPE 2	13	0	0	55	7.15	0	0	45	5.85
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	22	0	0	55	12.1	0	0	45	9.9
COLLAR 2	60	15	9	50	30	0	0	35	21
3	60	5	3	20	12	5	3	70	42
4	60	0	0	0	0	70	42	30	18
5			0		0		0		0
TOTAL	275		15		118.25		45		96.75

			HRS OPEN	BBL/DAY
BBL OIL=	1.176762	*	1	28.242288
BBL WATER=	0.22005	*		5.2812
BBL MUD=	0.527688			
BBL GAS =	0.10134			



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 5533

Well Name & No. E. Dinkel #1 Test No. 1 Date 10-27-92

Company Staab Energy & Leasing Zone Tested LKC 'E'

Address 2514 Haney Drive Hays KS 67601 Elevation 2329 KB

Co. Rep./Geo. Norman Staab/Crater Cont. Murfin #20 Est. Ft. of Pay

Location: Sec. 23 Twp. 13s Rge. 21w Co. Trego State Ks

No. of Copies 5 Distribution Sheet ____ Yes ____ No Turnkey ____ Yes ____ No ____ Evaluation

Interval Tested 3684-3700 Drill Pipe Size 4½ XH

Anchor Length 16 Top Choke — 1" ____ Bottom Choke — ¾" ____

Top Packer Depth 3679 Hole Size — 7⅞" ____ Rubber Size — 6¾" ____

Bottom Packer Depth 3684 Wt. Pipe I.D. — 2.7 Ft. Run ____

Total Depth 3700 Drill Collar — 2.25 Ft. Run 202

Mud Wt. 8.8 lb/gal. Viscosity 46 Filtrate 9.2

Tool Open @ 10:52PM Initial Blow 1" blow building to bottom of bucket in 25 minutes (1" blowback on shutin)

Final Blow 1½" blow building to bottom of bucket in 15 minutes (3" blowback on shutin)

Recovery — Total Feet 275 Feet of Gas in Pipe 225 Flush Tool? ____

Rec. 60	Feet Of	cl gassy oil	5	%gas	95	%oil		%water	%mud
Rec. 35	Feet Of	MCO		%gas	55	%oil	45	%water	%mud
Rec. 60	Feet Of	Gsy MCO	15	%gas	50	%oil	35	%water	%mud
Rec. 60	Feet Of	Gsy OCM	5	%gas	20	%oil	5	%water	70 %mud
Rec. 60	Feet Of	MW		%gas		%oil	70	%water	30 %mud

BHT 110 °F Gravity 37 °API @ 70 °F Corrected Gravity 36 °API

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

(A) Initial Hydrostatic Mud	1796 PSI	AK1 Recorder No.	22150	Range	3925
(B) First Initial Flow Pressure	44 PSI	@ (depth)	3690	w/Clock No.	30401
(C) First Final Flow Pressure	104 PSI	AK1 Recorder No.	24174	Range	3050
(D) Initial Shut-In Pressure	591 PSI	@ (depth)	3699	w/Clock No.	27501
(E) Second Initial Flow Pressure	112 PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	126 PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	583 PSI	Initial Opening	30	Test	X
(H) Final Hydrostatic Mud	1773 PSI	Initial Shut-In	45	Jars	
		Final Flow	30	Safety Joint	
		Final Shut-In	45	Straddle	
				Circ. Sub	
				Sampler	
				Extra Packer	
				Other	
				TOTAL PRICE $	550.00

Approved By Ron Shelton

Our Representative Tom Simpson

Printcraft Printers - Hays, KS

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name E. DINKEL #1 Test No. 2 Date 10/28/92

Company STAAB ENERGY & LEASING Zone LKC-"H&I"

Address 2514 HANEY DRIVE HAYS KS 67601 Elevation 2329

Co. Rep./Geo. N STAAB/ R NELSON Cont. MURFIN RIG #20 Est. Ft. of Pay

Location: Sec. 23 Twp. 13S Rge. 21W Co. TREGO State KS

Interval Tested 3743-3787 Drill Pipe Size 4.5" XH

Anchor Length 44 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3738 Drill Collar – 2.25 Ft. Run 202

Bottom Packer Depth 3743 Mud Wt. lb/Gal.

Total Depth 3787 Viscosity 45 Filtrate

Tool Open @ 3:58 PM Initial Blow 1" BLOW BUILDING TO BOTTOM OF BUCKET IN 11 MINUTES
3" BLOW BACK ON SHUT IN

Final Blow 3" BLOW BUILDING TO BOTTOM OF BUCKET IN 4 MINUTES
3" BLOW BACK ON SHUT IN

Recovery - Total Feet 290 Flush Tool?

Rec. 400 Feet of GAS IN PIPE

Rec. 60 Feet of CLEAN GASSY OIL-10%GAS/90%OIL

Rec. 60 Feet of GSY MUD CUT OIL-15%GAS/45%OIL/40%MUD

Rec. 170 Feet of GSY MUD CUT OIL-10%GAS/40%OIL/50%MUD

Rec. Feet of

BHT 107 °F Gravity 42 °API @ 70 °F Corrected Gravity 41 °API

RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud 1863.4 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 62.3 PSI @ (depth) 3750 w / Clock No. 30401

(C) First Final Flow Pressure 121.4 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 806.9 PSI @ (depth) 3786 w / Clock No. 27501

(E) Second Initial Flow Pressure 132.1 PSI AK1 Recorder No. Range

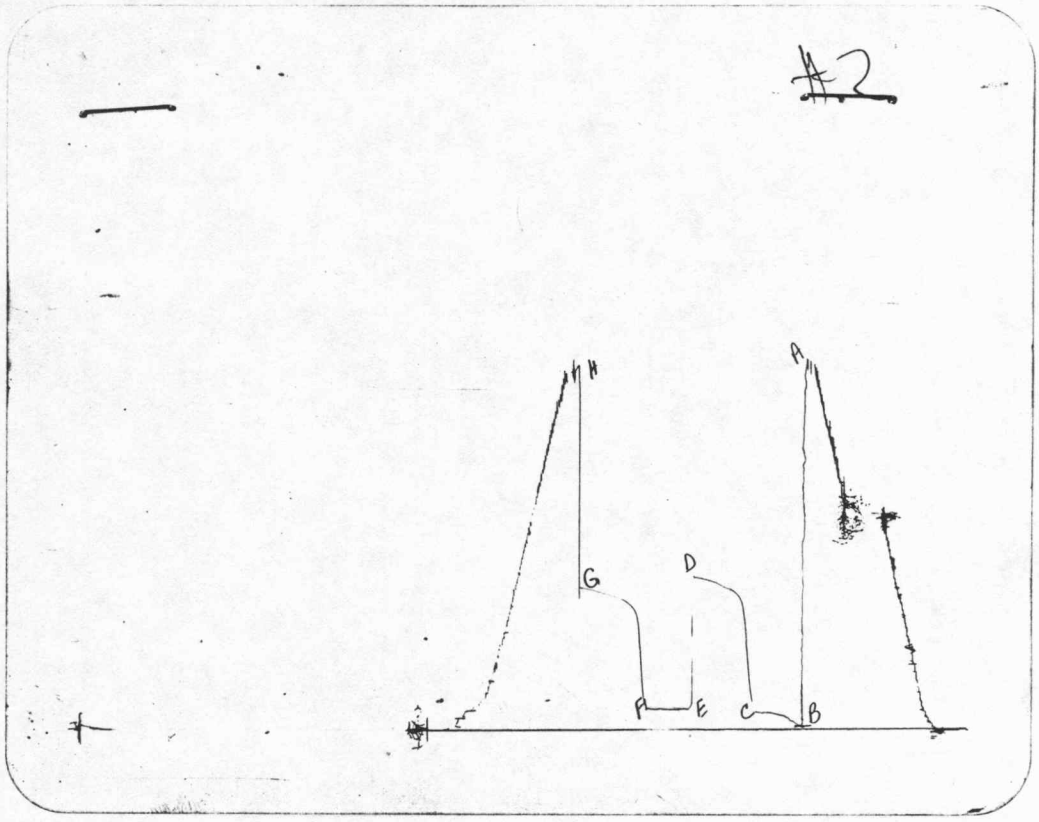
(F) Second Final Flow Pressure 145.6 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 740.8 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1840.7 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

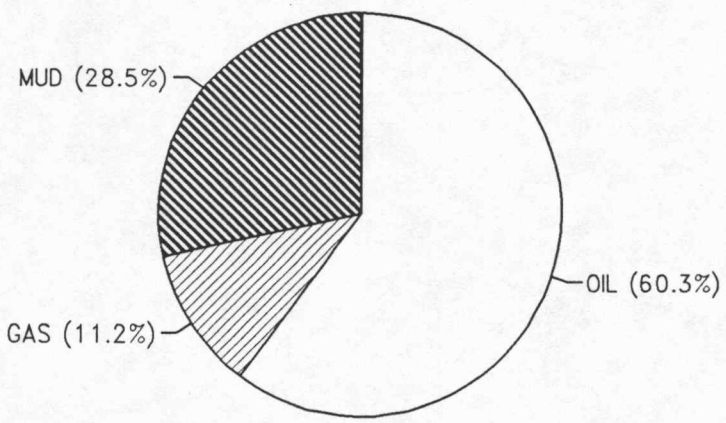
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1857	1863.4
(B) FIRST INITIAL FLOW PRESSURE	59	62.3
(C) FIRST FINAL FLOW PRESSURE	119	121.4
(D) INITIAL CLOSED-IN PRESSURE	804	806.9
(E) SECOND INITIAL FLOW PRESSURE	127	132.1
(F) SECOND FINAL FLOW PRESSURE	142	145.6
(G) FINAL CLOSED-IN PRESSURE	736	740.8
(H) FINAL HYDROSTATIC MUD	1834	1840.7

CALCULATED RECOVERY ANALYSIS

DST # 2 TICKET # 5534

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
DRILL 1	60	10	6	90	54	0	0	0	0
PIPE 2	28	15	4.2	45	12.6	0	0	40	11.2
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	32	15	4.8	45	14.4	0	0	40	12.8
COLLAR 2	170	10	17	40	68	0	0	50	85
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	290		32		149		0		109

			HRS OPEN	BBL/DAY
BBL OIL=	1.349988	*	1	32.399712
BBL WATER=	0	*		0
BBL MUD=	0.637506			
BBL GAS =	0.251646			



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 5534

Well Name & No. F. Dinkel #1 Test No. 2 Date 10-28-92

Company Staab Energy Corp Zone Tested LKC H & I

Address Elevation 2329 KB

Co. Rep./Geo. Walter Nelson Cont. Murfin #20 Est. Ft. of Pay

Location: Sec. 23 Twp. 13s Rge. 21w Co. Trego State Ks

No. of Copies Distribution Sheet Yes No Turnkey Yes No Evaluation

Interval Tested 3743-3787 Drill Pipe Size 4½ XH

Anchor Length 44 Top Choke — 1" Bottom Choke — ¾"

Top Packer Depth 3738 Hole Size — 7⅞" Rubber Size — 6¾"

Bottom Packer Depth 3743 Wt. Pipe I.D. — 2.7 Ft. Run

Total Depth 3787 Drill Collar — 2.25 Ft. Run 202

Mud Wt. lb / gal. Viscosity 45 Filtrate

Tool Open @ 3:58 PM Initial Blow 1" blow building to bottom of bucket in 11 minutes (3" blowback on shut in)

Final Blow 3" blow building to bottom of bucket in 4 minutes (4" blow back on shut in)

Recovery — Total Feet 290 Feet of Gas in Pipe 400 Flush Tool?

Rec. 60	Feet Of clean gassy oil	10 %gas	90 %oil	%water		%mud
Rec. 60	Feet Of Gry MCO	15 %gas	45 %oil	%water	40	%mud
Rec. 170	Feet Of Gry MCO	10 %gas	40 %oil	%water	50	%mud
Rec.	Feet Of	%gas	%oil	%water		%mud
Rec.	Feet Of	%gas	%oil	%water		%mud

BHT 107 °F Gravity 42 °API @ 70 °F Corrected Gravity 41 °API

RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud	1857 PSI	AK1 Recorder No. 22150		Range 3925	
(B) First Initial Flow Pressure	59 PSI	@ (depth) 3750		w/Clock No. 30401	
(C) First Final Flow Pressure	119 PSI	AK1 Recorder No. 24174		Range 3050	
(D) Initial Shut-In Pressure	804 PSI	@ (depth) 3786		w/Clock No. 27501	
(E) Second Initial Flow Pressure	125 PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	142 PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	736 PSI	Initial Opening 30		Test	
(H) Final Hydrostatic Mud	1834 PSI	Initial Shut-In 45		Jars	
		Final Flow 30		Safety Joint	
		Final Shut-In 45		Straddle	
				Circ. Sub	
				Sampler	
				Extra Packer	
				Other	
				TOTAL PRICE $	

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.

Approved By

Our Representative Paul Simpson

Printcraft Printers - Hays, KS

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name F. DINKEL #1 Test No. 3 Date 10/29/92

Company STAAB ENERGY & LEASING Zone LKC-"J"

Address 2514 HANEY DRIVE HAYS KS 67601 Elevation 2329

Co. Rep./Geo. N STAAB/ R NELSON Cont. MURFIN RIG #20 Est. Ft. of Pay

Location: Sec. 23 Twp. 13S Rge. 21W Co. TREGO State KS

Interval Tested 3794-3818 Drill Pipe Size 4.5" XH

Anchor Length 24 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3789 Drill Collar – 2.25 Ft. Run 202

Bottom Packer Depth 3794 Mud Wt. 9.1 lb/Gal.

Total Depth 3818 Viscosity 46 Filtrate 10

Tool Open @ 5:44 AM Initial Blow 1" BLOW BUILDING TO BOTTOM OF BUCKET IN 36 MINUTES
2" BLOW BACK ON SHUT IN

Final Blow 2" BLOW BUILDING TO BOTTOM OF BUCKET IN 30 MINUTES
2" BLOW BACK ON SHUT IN

Recovery - Total Feet 135 Flush Tool? NO

Rec. 340 Feet of GAS IN PIPE

Rec. 105 Feet of CLEAN GASSY OIL-10%GAS/90%OIL

Rec. 30 Feet of HVY OIL CUT MUD-25%OIL/75%MUD

Rec. Feet of

Rec. Feet of

BHT 106 °F Gravity 31 °API @ 60 °F Corrected Gravity 31 °API

RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud 1863.4 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 42.3 PSI @ (depth) 3801 w / Clock No. 27501

(C) First Final Flow Pressure 62.3 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 496.1 PSI @ (depth) 3817 w / Clock No. 27573

(E) Second Initial Flow Pressure 75.2 PSI AK1 Recorder No. Range

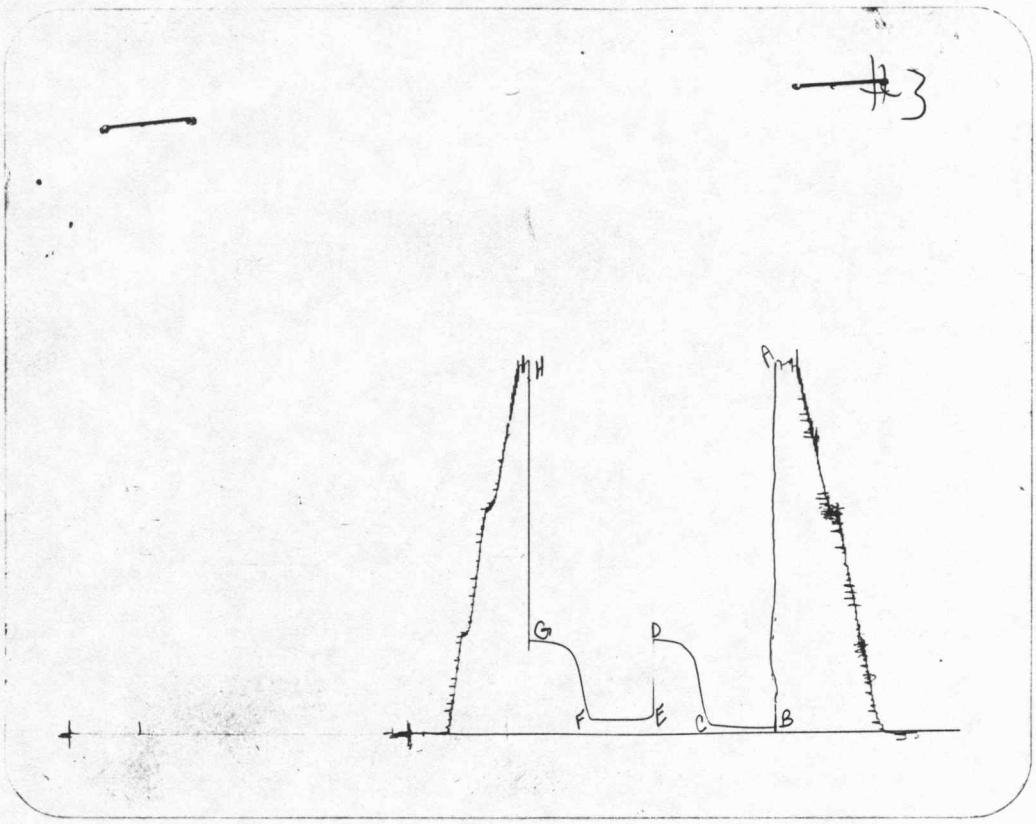
(F) Second Final Flow Pressure 88.3 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 487.6 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 1860.9 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative PAUL SIMPSON

CHART PAGE



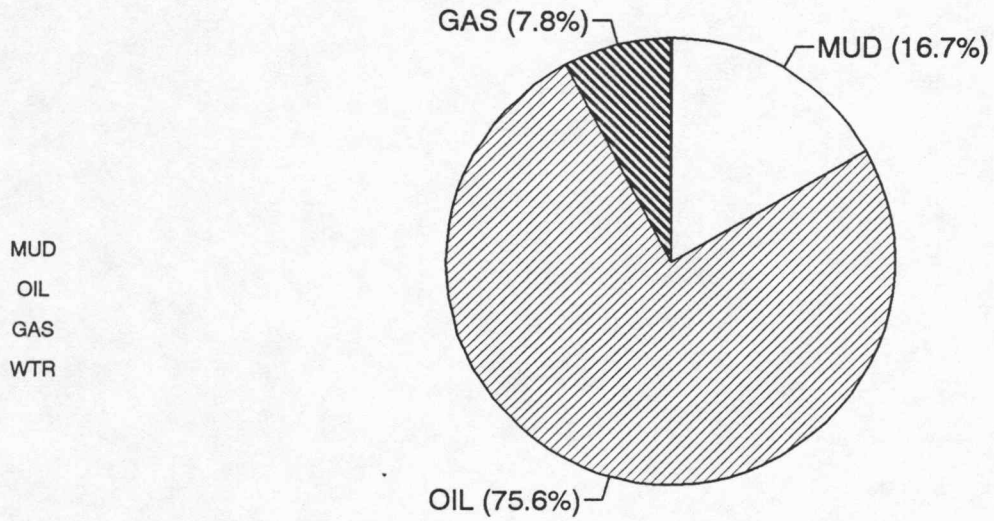
This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1865	1863.4
(B) FIRST INITIAL FLOW PRESSURE	37	42.3
(C) FIRST FINAL FLOW PRESSURE	59	62.3
(D) INITIAL CLOSED-IN PRESSURE	492	496.1
(E) SECOND INITIAL FLOW PRESSURE	74	75.2
(F) SECOND FINAL FLOW PRESSURE	82	88.3
(G) FINAL CLOSED-IN PRESSURE	484	487.6
(H) FINAL HYDROSTATIC MUD	1857	1860.9

DST # 3 TICKET 5535

SAMPLE #	TOTAL FEET	%	GAS FEET	%	OIL FEET	%	WATER FEET	%	MUD FEET
1	105	10	10.5	90	94.5	0	0	0	0
2	30	0	0	25	7.5	0	0	75	22.5
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	135	7.78	10.5	75.56	102	0.00	0	16.666667	22.5

			HRS OP	BBL/DAY
BBL OIL=	0.49878	*	1.5	7.98048
BBL WATER=	0	*		0
BBL MUD=	0.110025			
BBL GAS=	0.051345			



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 5535

Well Name & No. F. Dinkel Test No. 3 Date 10-29-92

Company Staab Energy & Leasing Zone Tested LKC 'J'

Address _____ Elevation 2329 KB

Co. Rep./Geo. Gader Nelson Cont. Murfin #20 Est. Ft. of Pay _____

Location: Sec. 23 Twp. 13s Rge. 21w Co. Trego State Ks

No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation

Interval Tested 3794-3818 Drill Pipe Size 4½ XH

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

Top Packer Depth 3789 Hole Size — 7⅞" _____ Rubber Size — 6¾" _____

Bottom Packer Depth 3794 Wt. Pipe I.D. — 2.7 Ft. Run _____

Total Depth 3818 Drill Collar — 2.25 Ft. Run 202

Mud Wt. 9.1 lb/gal. Viscosity 46 Filtrate 10

Tool Open @ 5:44 AM Initial Blow 1" blow building to bottom of bucket in 36 minutes (0" blowback on shut in)

Final Blow 2" blow building to bottom of bucket in 30 minutes (2" blow back on shut in

Recovery — Total Feet 135 Feet of Gas in Pipe 340 Flush Tool? _____

Rec. 105	Feet Of	clean oil	10 %gas	90 %oil	%water	%mud
Rec. 30	Feet Of	HOCM	%gas	25 %oil	%water	75 %mud
Rec. _____	Feet Of		%gas	%oil	%water	%mud
Rec. _____	Feet Of		%gas	%oil	%water	%mud
Rec. _____	Feet Of		%gas	%oil	%water	%mud

BHT 106 °F Gravity 31 °API @ 60 °F Corrected Gravity 31 °API

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

(A) Initial Hydrostatic Mud	1865 PSI	AK1 Recorder No.	22150	Range	3925
(B) First Initial Flow Pressure	37 PSI	@ (depth)	3801	w/Clock No.	2754
(C) First Final Flow Pressure	59 PSI	AK1 Recorder No.	24174	Range	3050
(D) Initial Shut-In Pressure	492 PSI	@ (depth)	3817	w/Clock No.	27573
(E) Second Initial Flow Pressure	74 PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	82 PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	484 PSI	Initial Opening	45	Test	550.00
(H) Final Hydrostatic Mud	1857 PSI	Initial Shut-In	45	Jars	
		Final Flow	45	Safety Joint	
		Final Shut-In	45	Straddle	
				Circ. Sub	
				Sampler	
				Extra Packer	
				Other	
				TOTAL PRICE $	

Approved By Ron Nelson

Our Representative Paul Simpson

Printcraft Printers - Hays, KS

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name: F. DINKEL #1 | Test No.: 4 | Date: 10/29/92

Company: STAAB ENERGY & LEASING | Zone: LKC-"K-L"

Address: 2514 HANEY DRIVE HAYS KS 67601 | Elevation: 2329

Co. Rep./Geo.: N STAAB/ R NELSON | Cont.: MURFIN RIG #20 | Est. Ft. of Pay:

Location: Sec.: 23 | Twp.: 13S | Rge.: 21W | Co.: TREGO | State: KS

Interval Tested: 3817-3882 | Drill Pipe Size: 4.5" XH

Anchor Length: 65 | Wt. Pipe I.D. - 2.7 Ft. Run:

Top Packer Depth: 3812 | Drill Collar – 2.25 Ft. Run: 202

Bottom Packer Depth: 3817 | Mud Wt.: 8.9 lb/Gal.

Total Depth: 3882 | Viscosity: 47 | Filtrate: 7.2

Tool Open @: 9:39 PM | Initial Blow: WEAK 1" BLOW DECREASING TO 3/4"

Final Blow: NO BLOW

Recovery - Total Feet: 5 | Flush Tool?: NO

Rec. 5 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: @ °F | Chlorides: ppm Recovery | Chlorides: ppm System

(A) Initial Hydrostatic Mud: 1922.3 PSI | AK1 Recorder No.: 22150 | Range: 3925

(B) First Initial Flow Pressure: 55.4 PSI | @ (depth): 3824 | w / Clock No.: 27501

(C) First Final Flow Pressure: 55.4 PSI | AK1 Recorder No.: 24174 | Range: 3050

(D) Initial Shut-in Pressure: 70.9 PSI | @ (depth): 3881 | w / Clock No.: 27573

(E) Second Initial Flow Pressure: 55.4 PSI | AK1 Recorder No.: | Range:

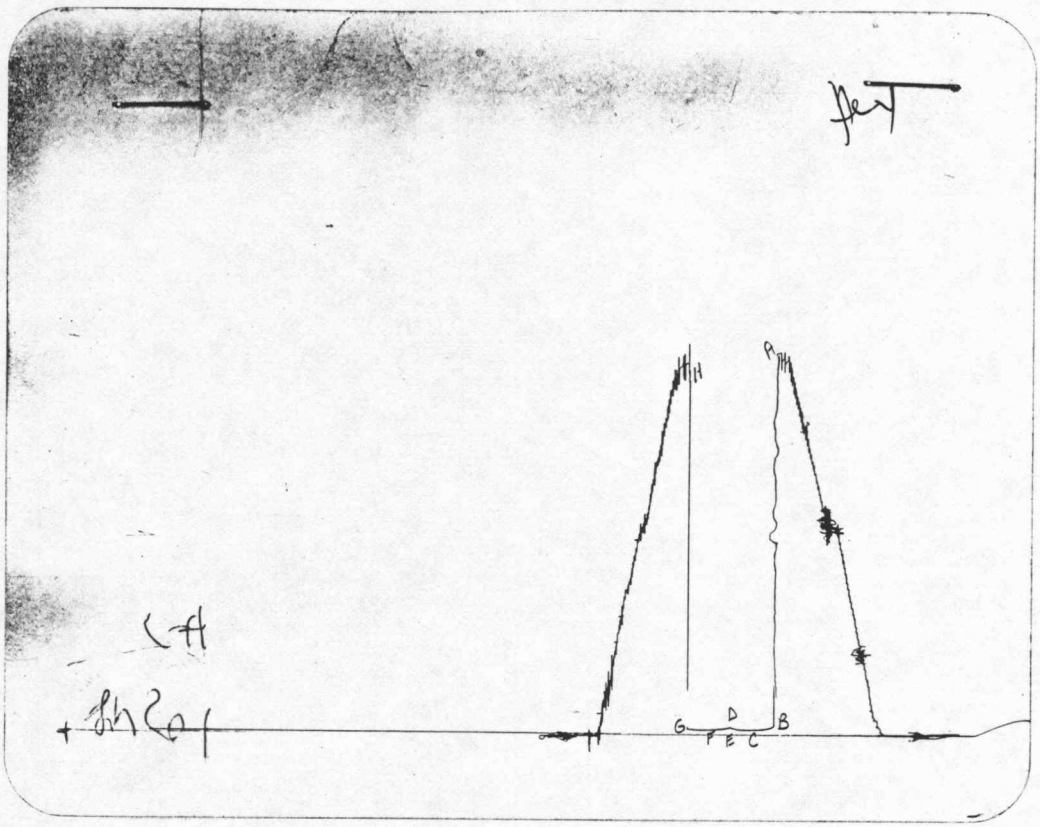
(F) Second Final Flow Pressure: 55.4 PSI | @ (depth): | w / Clock No.:

(G) Final Shut-in Pressure: 62.3 PSI | Initial Opening: 15 | Final Flow: 15

(H) Final Hydrostatic Mud: 1911.2 PSI | Initial Shut-in: 15 | Final Shut-in: 15

Our Representative: PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1918	1922.3
(B) FIRST INITIAL FLOW PRESSURE	52	55.4
(C) FIRST FINAL FLOW PRESSURE	52	55.4
(D) INITIAL CLOSED-IN PRESSURE	67	70.9
(E) SECOND INITIAL FLOW PRESSURE	52	55.4
(F) SECOND FINAL FLOW PRESSURE	52	55.4
(G) FINAL CLOSED-IN PRESSURE	59	62.3
(H) FINAL HYDROSTATIC MUD	1910	1911.2

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 5536

Well Name & No. F. Dinkel #1 Test No. 4 Date 10-29-92.

Company Stacy Energy & Leasing Zone Tested LKC K-L

Address _____ Elevation 2329 KB

Co. Rep./Geo. Gate Nelson Cont. Murfin #20 Est. Ft. of Pay _____

Location: Sec. 23 Twp. 13s Rge. 21w Co. Trego State KS

No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation

Interval Tested 3817-3882 Drill Pipe Size 4½ XH

Anchor Length 65 Top Choke — 1" _____ Bottom Choke — ¾" _____

Top Packer Depth 3812 Hole Size — 7⅞" _____ Rubber Size — 6¾" _____

Bottom Packer Depth 3817 Wt. Pipe I.D. — 2.7 Ft. Run _____

Total Depth 3882 Drill Collar — 2.25 Ft. Run 202

Mud Wt. 8.9 lb/gal. Viscosity 47 Filtrate 7.2

Tool Open @ 9:39PM Initial Blow weak 1" blow decreasing to ¾"

Final Blow no blow

Recovery — Total Feet 5 Feet of Gas in Pipe _____ Flush Tool? _____

Rec. 5	Feet Of mud	%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
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud

BHT 104 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

(A) Initial Hydrostatic Mud	1918 PSI	AK1 Recorder No.	22150	Range	3925
(B) First Initial Flow Pressure	52 PSI	@ (depth)	3824	w/Clock No.	27501
(C) First Final Flow Pressure	52 PSI	AK1 Recorder No.	24174	Range	3050
(D) Initial Shut-In Pressure	67 PSI	@ (depth)	3851	w/Clock No.	27573
(E) Second Initial Flow Pressure	52 PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	52 PSI	@ (depth)	_____	w/Clock No.	_____
(G) Final Shut-In Pressure	59 PSI	Initial Opening	15	Test	_____
(H) Final Hydrostatic Mud	1910 PSI	Initial Shut-In	15	Jars	_____
		Final Flow	15	Safety Joint	_____
		Final Shut-In	15	Straddle	_____
				Circ. Sub	_____
				Sampler	_____
				Extra Packer	_____
				Other	_____
				TOTAL PRICE $	_____

Approved By _____

Our Representative Paul Simpson

Printcraft Printers - Hays, KS

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name F. DINKEL #1 Test No. 5 Date 10/30/92

Company STAAB ENERGY & LEASING Zone CONG SAND

Address 2514 HANEY DRIVE HAYS KS 67601 Elevation 2329

Co. Rep./Geo. N STAAB/ R NELSON Cont. MURFIN RIG #20 Est. Ft. of Pay

Location: Sec. 23 Twp. 13S Rge. 21W Co. TREGO State KS

Interval Tested 3972-4016 Drill Pipe Size 4.5" XH

Anchor Length 44 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3967 Drill Collar – 2.25 Ft. Run 202

Bottom Packer Depth 3972 Mud Wt. 8.8 lb/Gal.

Total Depth 4016 Viscosity 51 Filtrate 8

Tool Open @ 5:08 AM Initial Blow 3/4" BLOW BUILDING TO 2"

Final Blow VERY WEAK SURFACE BLOW-BUILDING TO 1.5"

Recovery - Total Feet 70 Flush Tool? NO

Rec. 10 Feet of SLTLY MUD CUT OIL-95%OIL/5%MUD

Rec. 60 Feet of HEAVY OIL CUT MUD-25%OIL/75%MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 108 °F Gravity 38 °API @ 50 °F Corrected Gravity 39 °API

RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud 2020.3 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 55.4 PSI @ (depth) 3978 w / Clock No. 30401

(C) First Final Flow Pressure 62.3 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1105.6 PSI @ (depth) 4015 w / Clock No. 27573

(E) Second Initial Flow Pressure 70.9 PSI AK1 Recorder No. Range

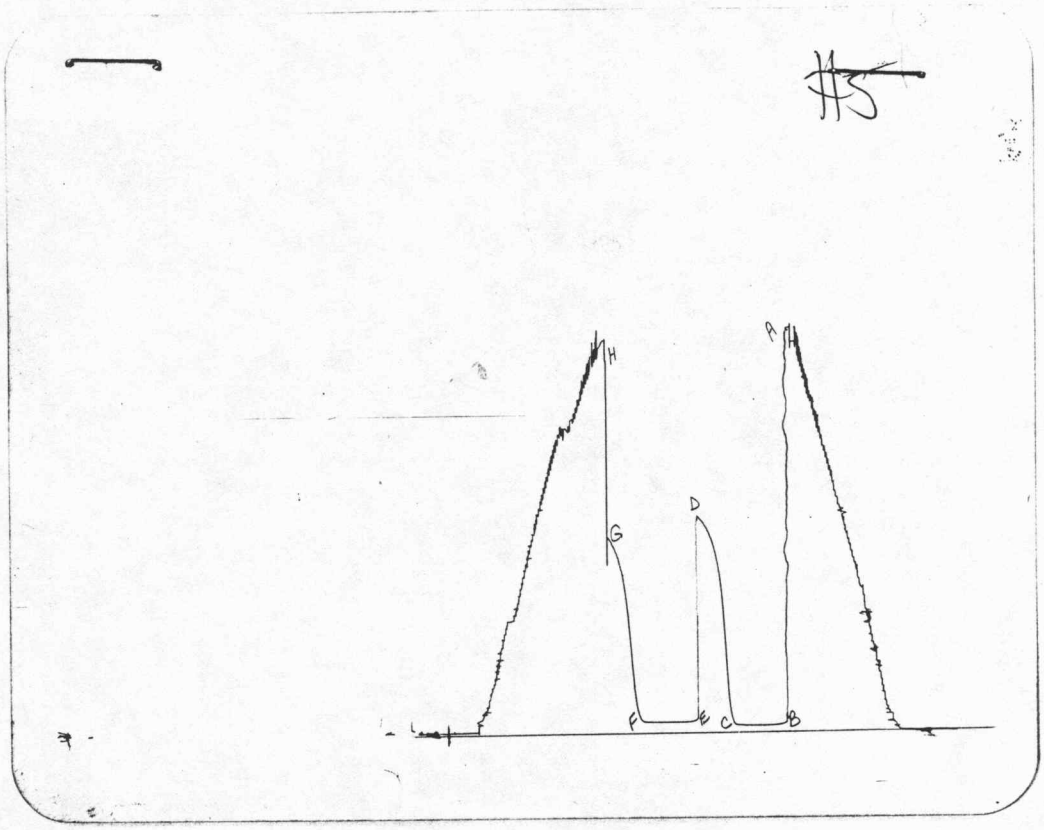
(F) Second Final Flow Pressure 75.2 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 995.6 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1977.6 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



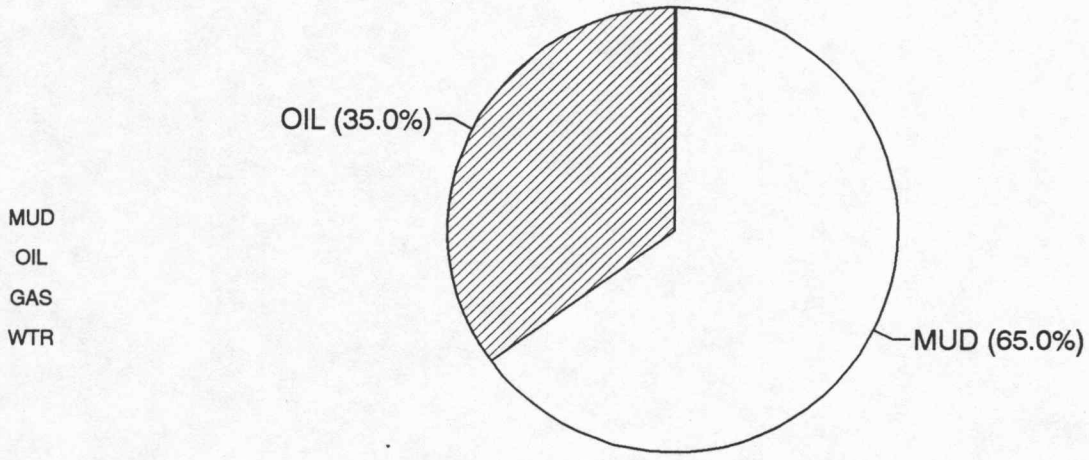
This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2019	2020.3
(B) FIRST INITIAL FLOW PRESSURE	52	55.4
(C) FIRST FINAL FLOW PRESSURE	59	62.3
(D) INITIAL CLOSED-IN PRESSURE	1100	1105.6
(E) SECOND INITIAL FLOW PRESSURE	67	70.9
(F) SECOND FINAL FLOW PRESSURE	74	75.2
(G) FINAL CLOSED-IN PRESSURE	994	995.6
(H) FINAL HYDROSTATIC MUD	1973	1977.6

DST # 5 TICKET 5537

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
1	10	0	0	95	9.5	0	0	5	0.5
2	60	0	0	25	15	0	0	75	45
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	70	0.00	0	35.00	24.5	0.00	0	65	45.5

			HRS OP	BBL/DAY
BBL OIL=	0.119805	*	1	2.87532
BBL WATER=	0	*		0
BBL MUD=	0.222495			
BBL GAS=	0			



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 5537

Well Name & No. F. Dinkel #1 Test No. 5 Date 10-30-92

Company Stanley Energy + Leasing Zone Tested Conq Sand

Address _____ Elevation 2324 KB

Co. Rep. / Geo. Gates Nelson Cont. Murfin #20 Est. Ft. of Pay _____

Location: Sec. 23 Twp. 13s Rge. 21w Co. Trego State KS

No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation

Interval Tested 3972-4016 Drill Pipe Size 4½ XH

Anchor Length 44 Top Choke — 1" _____ Bottom Choke — ¾" _____

Top Packer Depth 3967 Hole Size — 7⅞" _____ Rubber Size — 6¾" _____

Bottom Packer Depth 3972 Wt. Pipe I.D. — 2.7 Ft. Run _____

Total Depth 4016 Drill Collar — 2.25 Ft. Run 202

Mud Wt. 8.8 lb / gal. Viscosity 51 Filtrate 8.0

Tool Open @ 5:08 AM Initial Blow 3/4" blow building to 2"

Final Blow 0) weak surface blow - building to 1½"

Recovery — Total Feet 20 Feet of Gas in Pipe _____ Flush Tool? _____

Rec. 10	Feet Of	cl oil	%gas 95	%oil	%water 5	%mud
Rec. 10	Feet Of	HOCM	%gas 25	%oil	%water 75	%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 38 °API @ 50 °F Corrected Gravity 39 °API

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

(A) Initial Hydrostatic Mud	2019 PSI	AK1 Recorder No 22150	Range 3925
(B) First Initial Flow Pressure	52 PSI	@ (depth) 3978	w/Clock No. 30401
(C) First Final Flow Pressure	59 PSI	AK1 Recorder No 24174	Range 3050
(D) Initial Shut-In Pressure	1100 PSI	@ (depth) 4015	w/Clock No. 27573
(E) Second Initial Flow Pressure	67 PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure	74 PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure	994 PSI	Initial Opening 30	Test _____
(H) Final Hydrostatic Mud	1973 PSI	Initial Shut-In 30	Jars _____
		Final Flow 30	Safety Joint _____
		Final Shut-In 30	Straddle _____
			Circ. Sub _____
			Sampler _____
			Extra Packer _____
			Other _____
			TOTAL PRICE $ _____

Approved By _____

Our Representative Paul Simpson

Printcraft Printers - Hays, KS

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name F. DINKEL #1 Test No. 6 Date 10/31/92

Company STAAB ENERGY & LEASING Zone ARBUCKLE

Address 2514 HANEY DRIVE HAYS KS 67601 Elevation 2329

Co. Rep./Geo. N STAAB/ R NELSON Cont. MURFIN RIG #20 Est. Ft. of Pay

Location: Sec. 23 Twp. 13S Rge. 21W Co. TREGO State KS

Interval Tested 3972-4032 Drill Pipe Size 4.5" XH

Anchor Length 60 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3967 Drill Collar – 2.25 Ft. Run 202

Bottom Packer Depth 3972 Mud Wt. 8.9 lb/Gal.

Total Depth 4032 Viscosity 47 Filtrate 7.2

Tool Open @ 7:15 AM Initial Blow (SLID TOOL 2' WHEN OPENED)-2" BLOW BUILDING TO BOTTOM BUCKET IN 13 MINUTES-(1/4" BLOW BACK ON SHUT IN)

Final Blow 2" BLOW BUILDING TO BOTTOM OF BUCKET IN 14 MINUTES (1/8" BLOW ON SHUT IN)

Recovery - Total Feet 640 Flush Tool? NO

Rec. 20 Feet of CLEAN GASSY OIL-10%GAS/90%OIL

Rec. 200 Feet of OIL CUT MUDDY WATER-10%OIL/50%WTR/40%MUD

Rec. 180 Feet of WATERY MUD-20%WTR/80%MUD

Rec. 240 Feet of MUDDY WATER-70%WTR/ 30% MUD

Rec. Feet of

BHT 106 °F Gravity 39 °API @ 60 °F Corrected Gravity 39 °API

RW 0.31 @ 62 °F Chlorides 26000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 2080.6 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 101.3 PSI @ (depth) 3978 w / Clock No. 30401

(C) First Final Flow Pressure 191.2 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1170.8 PSI @ (depth) 4031 w / Clock No. 27573

(E) Second Initial Flow Pressure 235.4 PSI AK1 Recorder No. Range

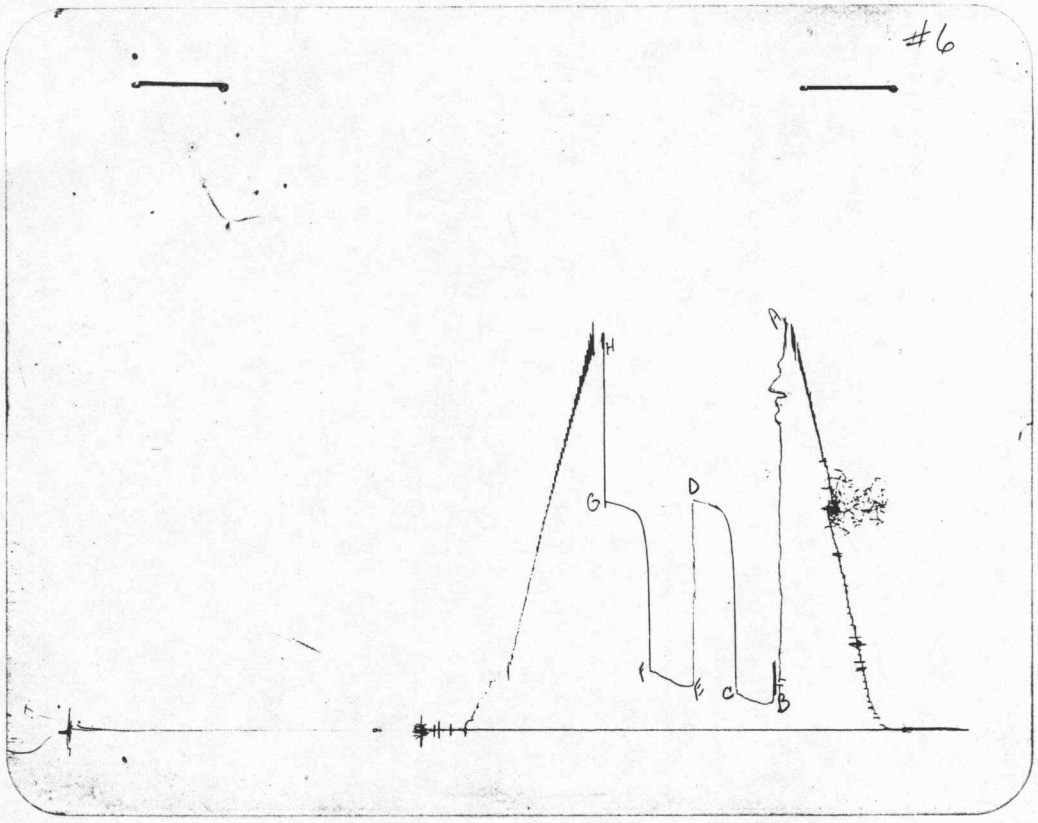
(F) Second Final Flow Pressure 301.4 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1165.7 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2010.4 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

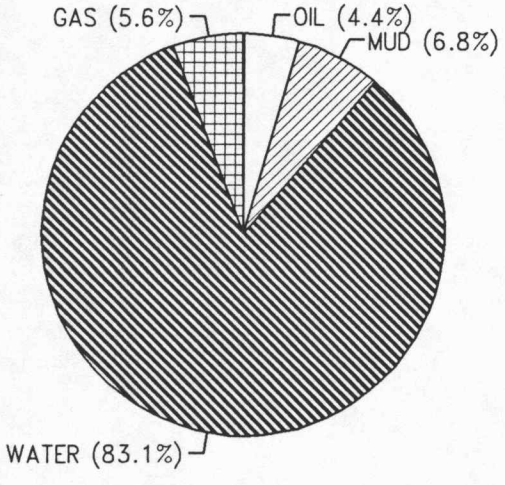
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2073	2080.6
(B) FIRST INITIAL FLOW PRESSURE	96	101.3
(C) FIRST FINAL FLOW PRESSURE	187	191.2
(D) INITIAL CLOSED-IN PRESSURE	1167	1170.8
(E) SECOND INITIAL FLOW PRESSURE	232	235.4
(F) SECOND FINAL FLOW PRESSURE	293	301.4
(G) FINAL CLOSED-IN PRESSURE	1160	1165.7
(H) FINAL HYDROSTATIC MUD	2003	2010.4

CALCULATED RECOVERY ANALYSIS

DST # 6 TICKET # 5538

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
DRILL 1	20	10	2	90	18	0	0	0	0
PIPE 2	200	0	0	10	20	50	100	40	80
3	180	0	0	0	0	20	36	80	144
4	38	0	0	0	0	70	26.6	30	11.4
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	202	0	0	0	0	70	141.4	30	60.6
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	640		2		38		304		296

			HRS OPEN	BBL/DAY
BBL OIL=	0.54036	*	1	12.96864
BBL WATER=	3.003618	*		72.086832
BBL MUD=	3.643722			
BBL GAS =	0.02844			



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 5538

Well Name & No. F Dinkel #1 Test No. 6 Date 10-31-92

Company Staab Energy & Leasing Zone Tested Arb

Address _____ Elevation 2329KB

Co. Rep./Geo. Carter Nelson Cont. Murfin #20 Est. Ft. of Pay _____

Location: Sec. 23 Twp. 13s Rge 21w Co. Trego State KS

No. of Copies 3 Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation

Interval Tested 3972-4032 Drill Pipe Size 4½ XH

Anchor Length 60 Top Choke — 1" _____ Bottom Choke — ¾" _____

Top Packer Depth 3967 Hole Size — 7⅞" _____ Rubber Size — 6¾" _____

Bottom Packer Depth 3972 Wt. Pipe I.D. — 2.7 Ft. Run _____

Total Depth 4032 Drill Collar — 2.25 Ft. Run 202

Mud Wt. 8.9 lb / gal. Viscosity 47 Filtrate 7.2

Tool Open @ 7:15 AM Initial Blow (slid tool 2' when opened) 2" blow building to bottom of bucket in 13 minutes (½" blow back on shut-in)

Final Blow 2" blow building to bottom of bucket in 14 minutes (½ blow on shut-in)

Recovery — Total Feet 640 Feet of Gas in Pipe _____ Flush Tool? _____

Rec. 20	Feet Of	cl gassy oil	%gas 10	%oil 90	%water	%mud
Rec. 200	Feet Of	OCMW	%gas 10	%oil 50	%water 40	%mud
Rec. 180	Feet Of	WM	%gas tr	%oil 20	%water 80	%mud
Rec. 240	Feet Of	MW	%gas tr	%oil 70	%water 30	%mud
Rec.	Feet Of		%gas	%oil	%water	%mud

BHT 106 °F Gravity 39 °API @ 60 °F Corrected Gravity 39 °API

RW .31 @ 62 °F Chlorides 26,000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud	2073 PSI	AK1 Recorder No.	22150	Range	3925
(B) First Initial Flow Pressure	96 PSI	@ (depth)	3978	w/Clock No.	30401
(C) First Final Flow Pressure	187 PSI	AK1 Recorder No.	24174	Range	3050
(D) Initial Shut-In Pressure	1167 PSI	@ (depth)	4031	w/Clock No.	27573
(E) Second Initial Flow Pressure	232 PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	293 PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	1160 PSI	Initial Opening	30	Test	
(H) Final Hydrostatic Mud	2003 PSI	Initial Shut-In	30	Jars	
		Final Flow	30	Safety Joint	
		Final Shut-In	30	Straddle	
				Circ. Sub	
				Sampler	
				Extra Packer	
				Other	
				TOTAL PRICE $	

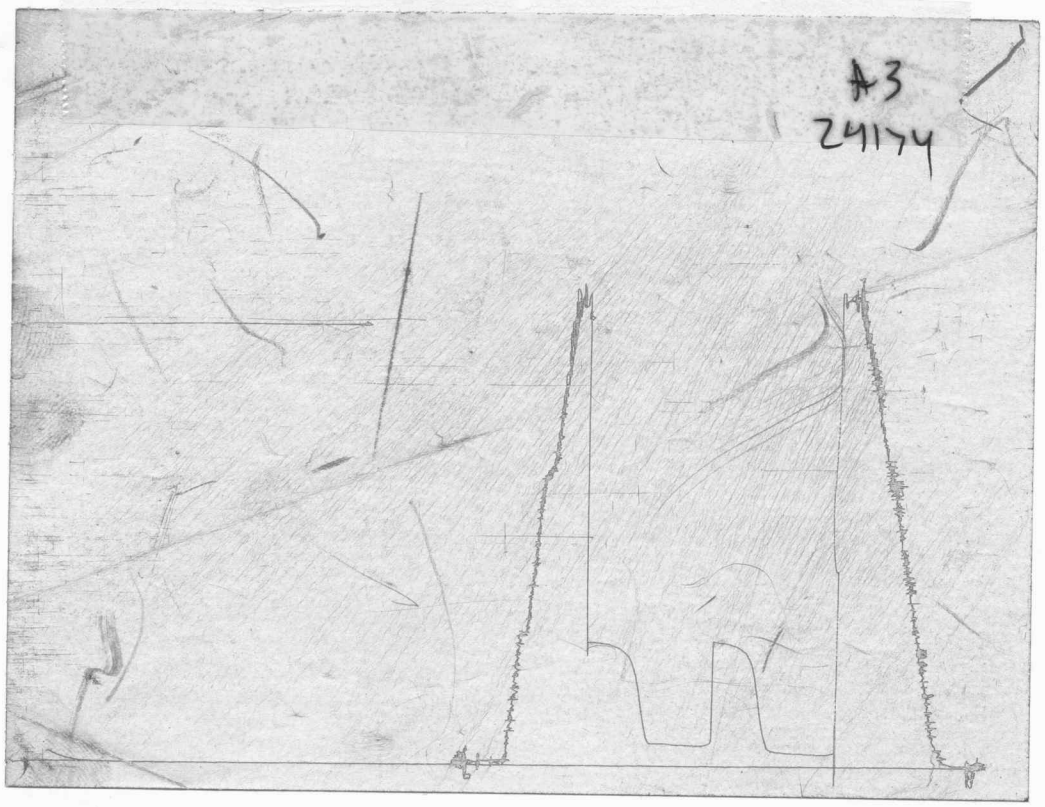
Approved By _____

Our Representative Paul Simpson

Printcraft Printers - Hays, KS

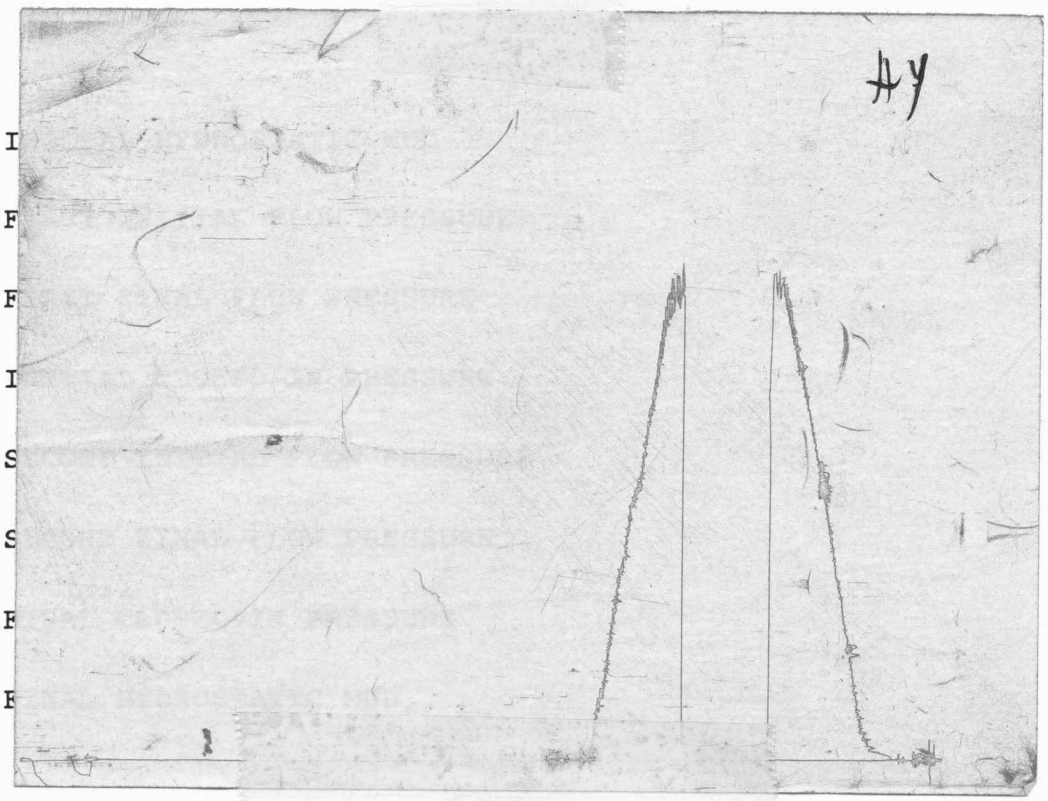
TT 5 - Texas Energy

CHART PAGE



This is an actual photograph of recorder chart

FIELD READING OFFICE READING



(A) I

(B) F

(C) F

(D) I

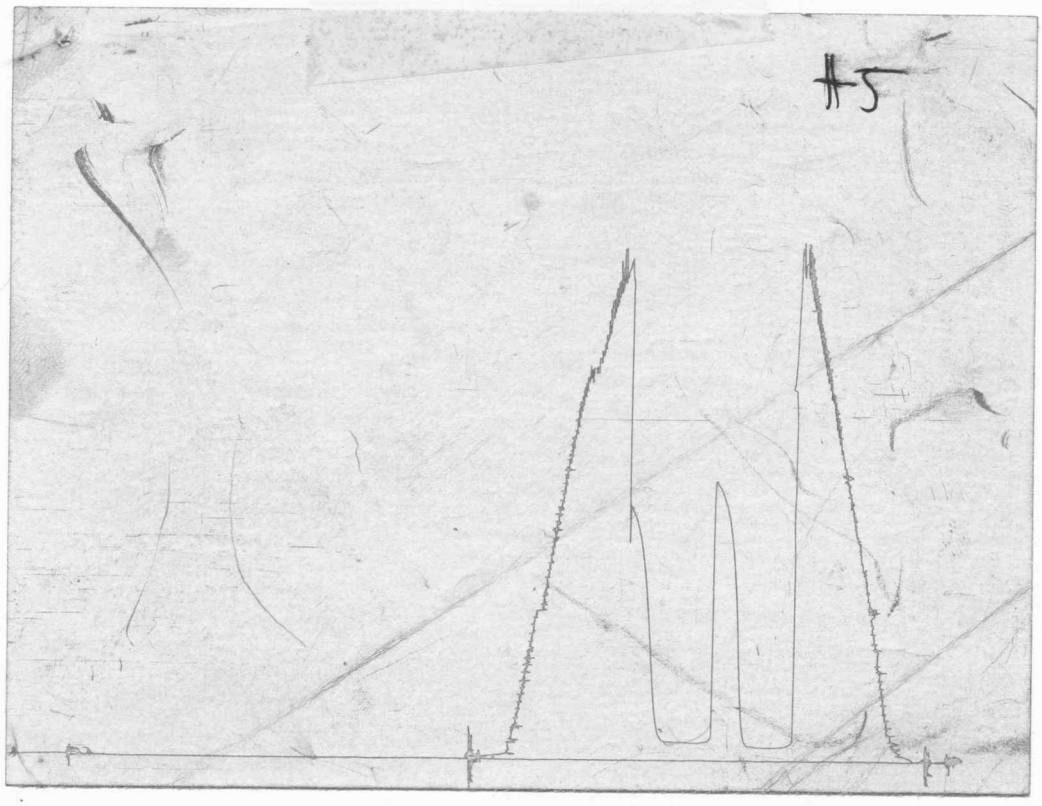
(E) S

(F) S

(G) F

(H) F

CHART PAGE



This is an actual photograph of recorder chart

FIELD READING

OFFICE READING