24-25-21 W

COPY

Abercrombie Drilling, Inc.

Computer Inventoried

API #15-057-20531

FIELD #1
100' S & 100'W-SE-SE
Sec. 24-25s-21W
Ford County, Ks.

DST #1 4682-4712'
30-45-60-45
Gas to surface, 35 minn. into final flow period
Recovered 704' cl gsy oil, 184'
HOCM (20% oil)
IFP 68-99 ISIP 701
FFP 138-225 FSIP 68

DST #2 4713-4750'
30-45-60-45
Recovered 60' HOCM (30% oil)
IFP 29-29 IBHP 1026
FFP 39-39 FBHP 936

DST #3 4746-4756' (Miss Warsaw)
30-45-60-45
Recovered 180' gas in pipe
90' clean gassy oil
90' HOCM (20% oil)
IFP 55-66 ISIP 1360
FFP 88-100 FSIP 1272

DST #4 4756-4762- (Miss Warsaw)
30-45-60-45
Recovered 90' gs in pipe, 20' OCM
IFP 29-29 ISIP 1336
FFP 39-49 FSIP 1236

DST #5 4118-4131' (Lansing A Zone)
30-45-30-45
Recovered 40' muddy water (chlorides 60,000 PPM)
IFP 29-29 ISIP 1256
FFP 39-39 FSIP 1236

ORIGINAL

FIELD #1
100' S & 100'W-SE-SE
Sec. 24-25s-21W
Ford County, Ks.

ELECTRIC TOPS

Anhydrite	1404' (+882')
B'anhydrite	1424' (+862')
Heebner	4002' (-1717')
Br Lime	4109' (-1823')
Lansing	4118' (-1832')
BKC	4512' (-2226')
Marmaton	4521' (-2235')
Ft Scott	4633' (-2347')
Up Cherokee Shal	4647' (-2361')
Lw Cherokee Shale	4680' (-2394')
Lw Cher Lime St	4701' (-2415')
Mississippi Warsaw	4744' (-2358')
Miss Osage	4764' (-2378')
LTD	4840' (-2554')
DTD	4840' (-2554')

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name FIELD #1 Test No. 1 Date 1/30/95

Company ABERCROMBIE DRILLING Zone CHEROKEE

Address 150 N MAIN WICHITA KS 67202 Elevation 2286

Co. Rep./Geo. STEVE FRANKAMP Cont. ABERCROMBIE #5 Est. Ft. of Pay 3

Location: Sec. 24 Twp. 25S Rge. 21W Co. FORD State KS

Interval Tested 4682-4712 Drill Pipe Size 4.5" XH

Anchor Length 30 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 4677 Drill Collar – 2.25 Ft. Run 179

Bottom Packer Depth 4682 Mud Wt. 9.2 lb/Gal.

Total Depth 4712 Viscosity 47 Filtrate 8.8

Tool Open @ 12:20PM Initial Blow STRONG - BOTTOM OF BUCKET IN 2 MINUTES

Final Blow STRONG - BOTTOM OF BUCKET WHEN TOOL OPENED
GAS TO SURFACE 35 MINUTES INTO FINAL FLOW - TO SMALL TO MEASURE

Recovery - Total Feet 888 Flush Tool? NO

Rec. 704 Feet of CLEAN GASSY OIL 50%GAS/50%OIL

Rec. 184 Feet of OIL CUT GASSY MUD 60%GAS/20%OIL/20%MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 118 °F Gravity °API @ °F Corrected Gravity 34 °API

RW @ °F Chlorides ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2316.90 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 68.10 PSI @ (depth) 4686 w / Clock No. 27501

(C) First Final Flow Pressure 99.40 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 700.60 PSI @ (depth) 4708 w / Clock No. 25810

(E) Second Initial Flow Pressure 137.80 PSI AK1 Recorder No. Range

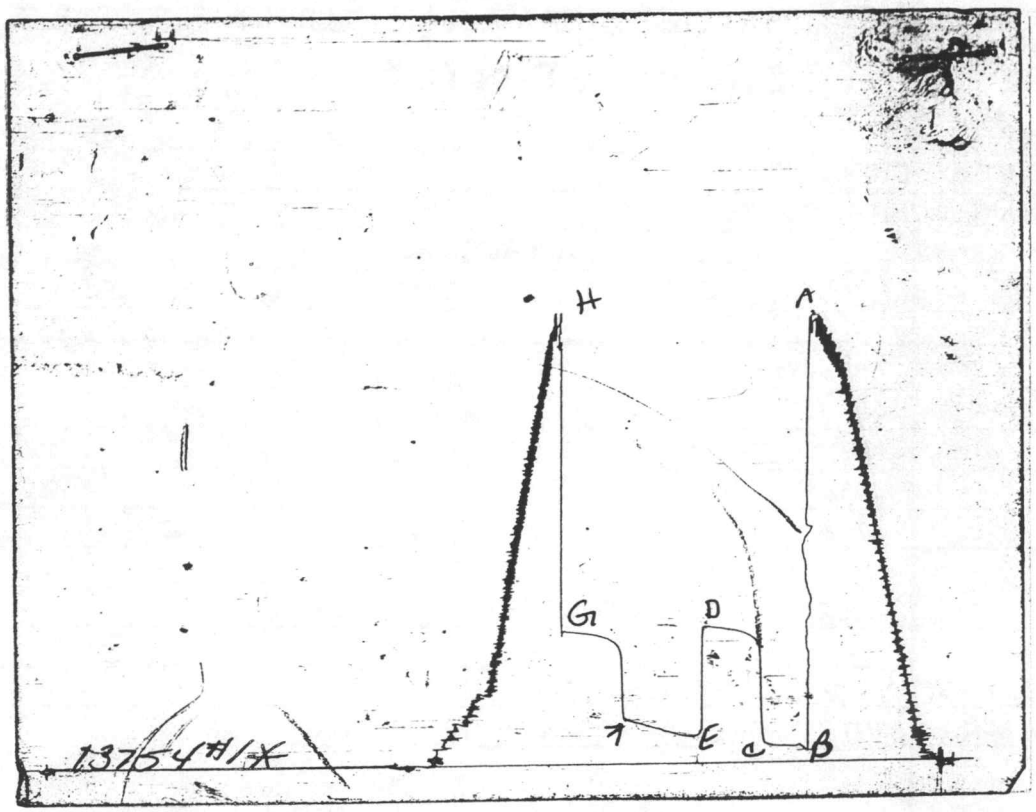
(F) Second Final Flow Pressure 225.40 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 683.80 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2269.20 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2319	2316.90
(B) FIRST INITIAL FLOW PRESSURE	68	68.10
(C) FIRST FINAL FLOW PRESSURE	98	99.40
(D) INITIAL CLOSED-IN PRESSURE	699	700.60
(E) SECOND INITIAL FLOW PRESSURE	137	137.80
(F) SECOND FINAL FLOW PRESSURE	226	225.40
(G) FINAL CLOSED-IN PRESSURE	679	683.80
(H) FINAL HYDROSTATIC MUD	2269	2269.20

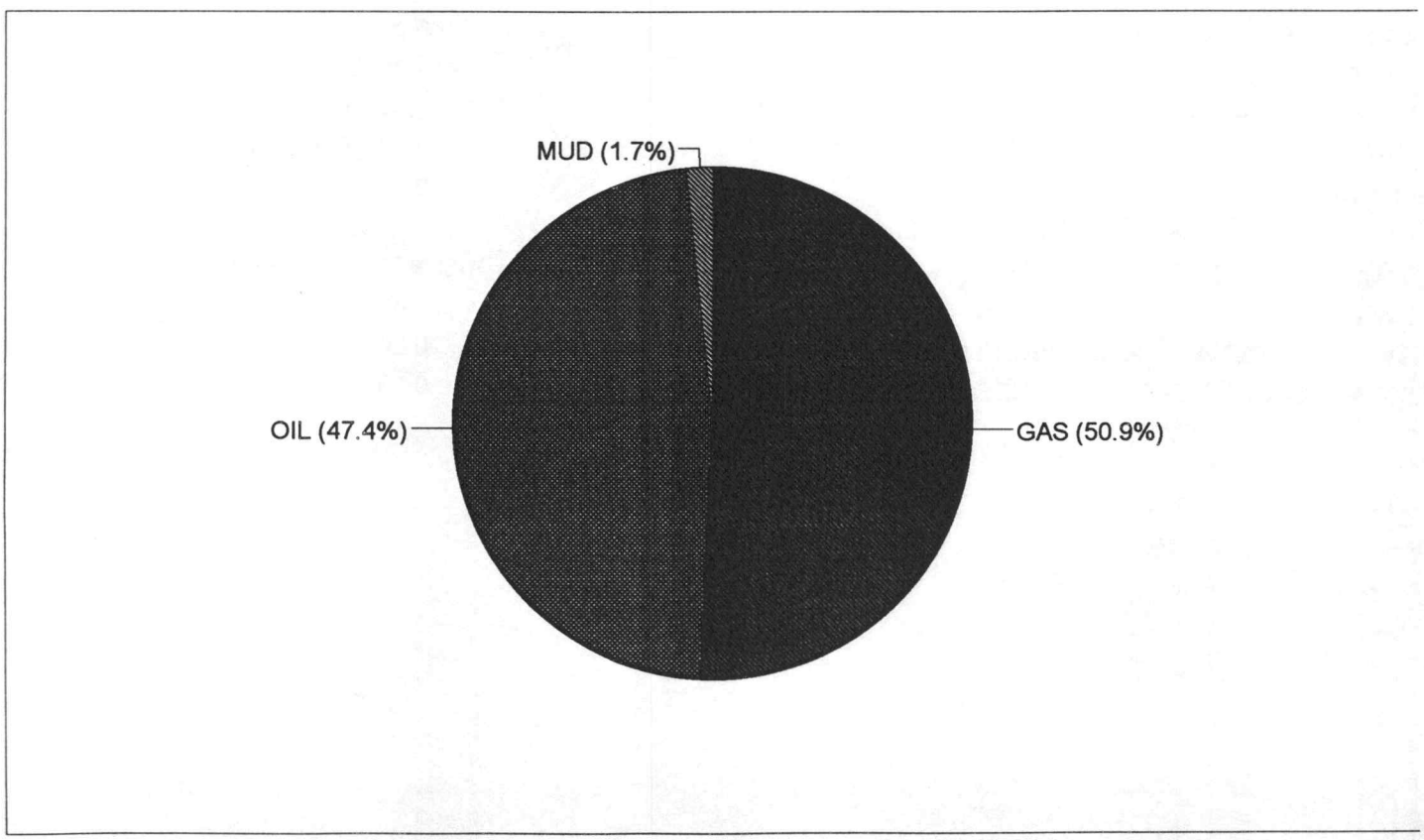
CALCULATED RECOVERY ANALYSIS

DST # 1 TICKET # 8391

****

SAMPLE #		TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
DRILL PIPE	1	704	50	352	50	352		0		0
	2	5	60	3	20	1		0	20	1
	3			0		0		0		0
	4			0		0		0		0
	5			0		0		0		0
	6			0		0		0		0
WEIGHT PIPE	1			0		0		0		0
	2			0		0		0		0
	3			0		0		0		0
	4			0		0		0		0
DRL COLLAR	1	179	60	107.4	20	35.8		0	20	35.8
	2			0		0		0		0
	3			0		0		0		0
	4			0		0		0		0
	5			0		0		0		0
TOTAL		888		0		0		0		0

			HRS OPE	BBL/DAY
BBL OIL=	5.194722	*	1.50	83.11555
BBL WATER=	0	*		0
BBL MUD=	0.189282			
BBL GAS =	5.573286			



COMPUTER OIL EVALUATION BY TRILOBITE TESTING, L.L.C.

ABERCROMBIE DRILLING

FIELD #1 DST 1

24 25S 21W FORD KS

ELEVATION:	2286	KB	EST. PAY	3	FT
DATUM:	-2401		ZONE TESTED:	CHEROKEE	
TEST INTERVAL:	4682-4712		TIME INTERVALS:	30-45-60-45	
RECORDER DEPTH:	4686		VISCOSITY:	7.46	CP
BOTTOM HOLE TEMP:	118		HOLE SIZE:	7.875	IN

CUBIC FEET OF GAS IN PIPE:	28			
TOTAL FEET OF RECOVERY:	888.00	CORRECTED PIPE FILLUP:	609.189	
TOTAL BARRELS OF RECOVERY:	10.96	CORR. BARRELS OF RECOVERY:	6.993	BBL
BARRELS IN DRILL PIPE:	10.08	API GRAVITY:	34	
BARRELS IN WEIGHT PIPE:	0.00	FLUID GRADIENT:	0.370	
BARRELS IN DRILL COLLARS:	0.88			
GAS OIL RATIO:	2.56	CU.FT/BBL		
BUBBLE POINT PRESSURE:	29			
UNCORRECTED INITIAL PRODUCTION:			175.32	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			111.88	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			96.392	

INITIAL SLOPE	157.15	PSI/CYCLE	FINAL SLOPE	109.06	PSI/CYCLE
INITIAL P*	735.45	PSI	FINAL P*	734.46	PSI

TRANSMISSIBILITY	166.81	(MD.-FT./CP.)
PERMEABILITY	414.78	(MD.)
INDICATED FLOW CAPACITY	1244.35	(MD.FT)
PRODUCTIVITY INDEX	0.19	(BBL/DAY/PSI)
DAMAGE RATIO	0.85	
RADIUS OF INVESTIGATION	193.21	(FT,)
POTENTIOMETRIC SURFACE	-696.79	(FT.)
DRAWDOWN FACTOR	0.135	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	0.00	
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	0.00	

INITIAL FLOW

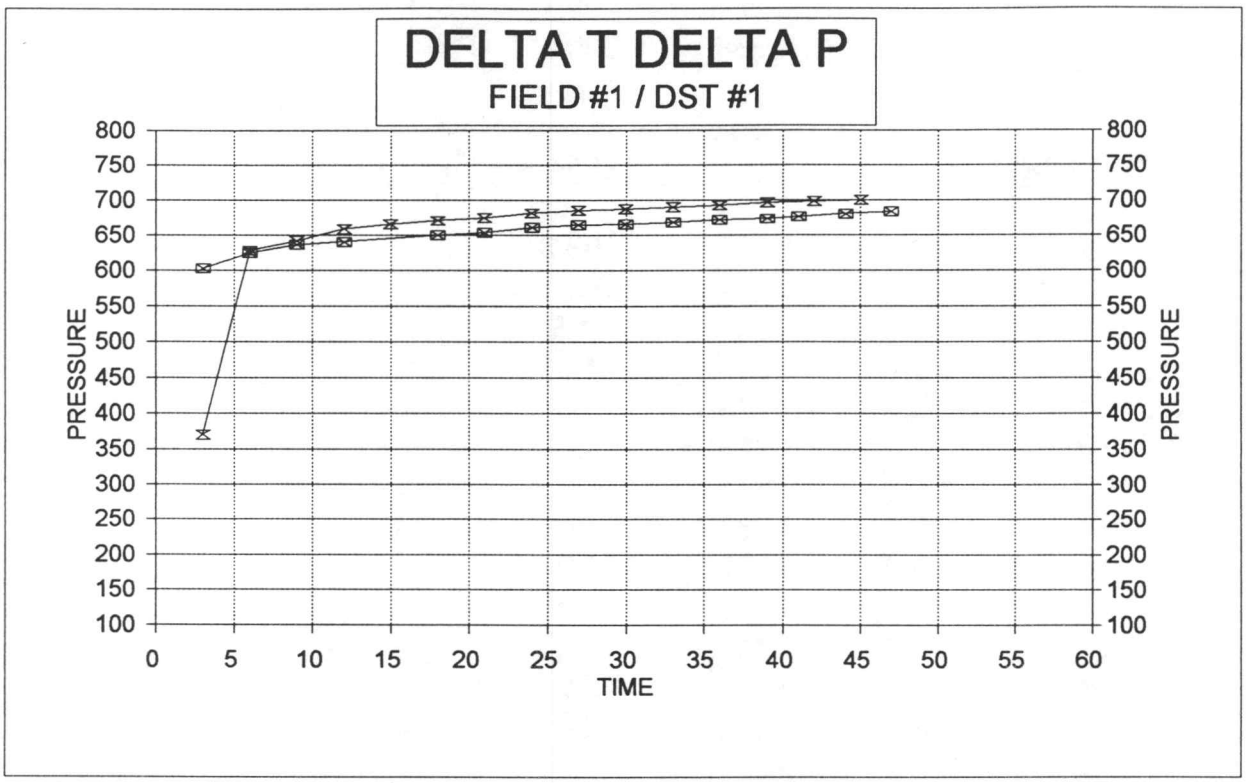
DST # 1
RECORDER 13754

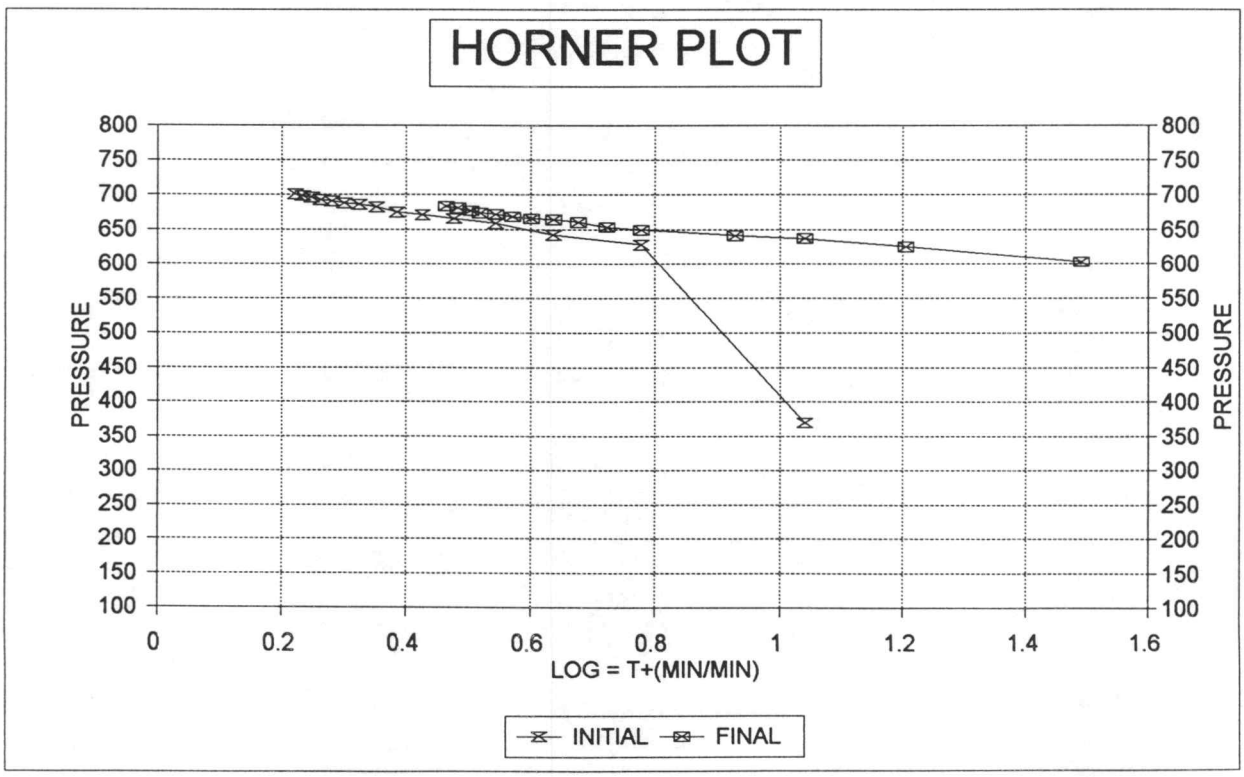
TIME(MIN)	PRESSURE	<> PRESSURE
0	68.1	68.1
3	70.9	2.8
6	88.6	17.7
9	85.6	-3.0
12	85.6	0.0
15	85.6	0.0
18	85.6	0.0
21	85.6	0.0
24	85.6	0.0
27	87.6	2.0
30	91.5	3.9
33	99.4	7.9

FINAL FLOW

DST # 1
RECORDER 13754

TIME(MIN)	PRESSURE	<> PRESSURE
0	137.8	137.8
3	138.8	1.0
6	143.7	4.9
9	146.7	3.0
12	149.6	3.0
15	155.5	5.9
18	164.4	8.9
21	168.3	3.9
24	174.2	5.9
27	179.1	4.9
30	185.0	5.9
33	190.0	4.9
36	197.8	7.9
39	201.8	3.9
42	208.7	6.9
45	211.6	3.0
48	218.5	6.9
51	225.4	6.9


DELTA T DELTA P
FIELD #1 / DST #1
PRESSURE
TIME
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
0
5
10
15
20
25
30
35
40
45
50
55
60


HORNER PLOT
PRESSURE
LOG = T+(MIN/MIN)
INITIAL
FINAL
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

FINAL SHUT-IN

FIELD #1

DST # 1	SLOPE	109.1	PSI/CYCLE
TOTAL FLOW TIME 90	P*	734.46	PSI

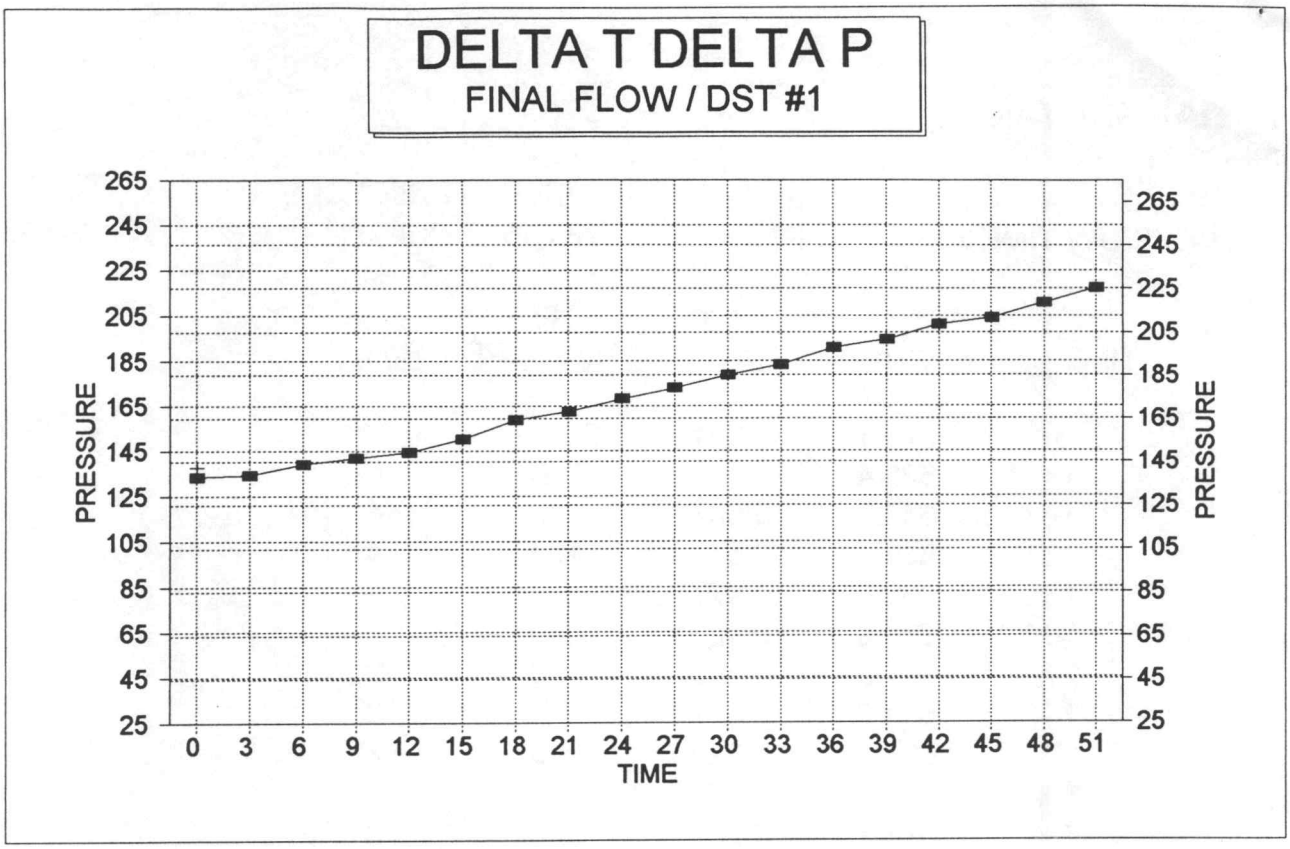
	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	603.8	1.491	603.8	31
	6	625.5	1.204	21.7	16
	9	637.3	1.041	11.9	11
	12	641.3	0.929	4.0	9
	18	650.2	0.778	8.9	6
	21	654.1	0.723	4.0	5
	24	661.1	0.677	6.9	5
	27	665.0	0.637	4.0	4
X	30	666.0	0.602	1.0	4
	33	669.0	0.571	3.0	4
	36	671.9	0.544	3.0	4
	39	673.9	0.520	2.0	3
	41	676.9	0.504	3.0	3
	44	680.8	0.484	4.0	3
X	47	683.8	0.465	3.0	3

INITIAL SHUT-IN

FIELD #1

DST # 1	SLOPE	157.1	PSI/CYCLE
INITIAL FLOW TIME 30	P*	735.45	PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	370.1	1.041	370.1	11
	6	628.4	0.778	258.4	6
	9	642.3	0.637	13.8	4
	12	659.1	0.544	16.8	4
	15	666.0	0.477	6.9	3
	18	670.9	0.426	4.9	3
X	21	674.9	0.385	4.0	2
	24	681.8	0.352	6.9	2
	27	685.8	0.325	4.0	2
	30	687.7	0.301	2.0	2
	33	690.7	0.281	3.0	2
	36	692.7	0.263	2.0	2
	39	696.6	0.248	4.0	2
	42	698.6	0.234	2.0	2
X	45	700.6	0.222	2.0	2



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE: 96.39191

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name FIELD #1 Test No. 2 Date 1/31/95

Company ABERCROMBIE DRILLING Zone MISSISSIPPI

Address 150 N MAIN WICHITA KS 67202 Elevation 2286

Co. Rep./Geo. STEVE FRANKAMP Cont. ABERCROMBIE #5 Est. Ft. of Pay

Location: Sec. 24 Twp. 25S Rge. 21W Co. FORD State KS

Interval Tested 4713-4750

Anchor Length 37

Top Packer Depth 4708

Bottom Packer Depth 4713

Total Depth 4750

Drill Pipe Size 4.5" XH

Wt. Pipe I.D. - 2.7 Ft. Run

Drill Collar – 2.25 Ft. Run 179

Mud Wt. 9.2 lb/Gal.

Viscosity 47 Filtrate 8.8

Tool Open @ 3:45 Initial Blow WEAK - BUILDING TO 1/4 INCH.

Final Blow WEAK - BUILDING TO 1-1/4 INCH.

Recovery - Total Feet 60 Flush Tool? NO

Rec. 60 Feet of OIL CUT MUD. 30% OIL; 70% MUD.

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

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

RW @ °F Chlorides ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2309.70 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 28.50 PSI @ (depth) 4717 w / Clock No. 27501

(C) First Final Flow Pressure 28.50 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1030.10 PSI @ (depth) 4746 w / Clock No. 25810

(E) Second Initial Flow Pressure 33.50 PSI AK1 Recorder No. Range

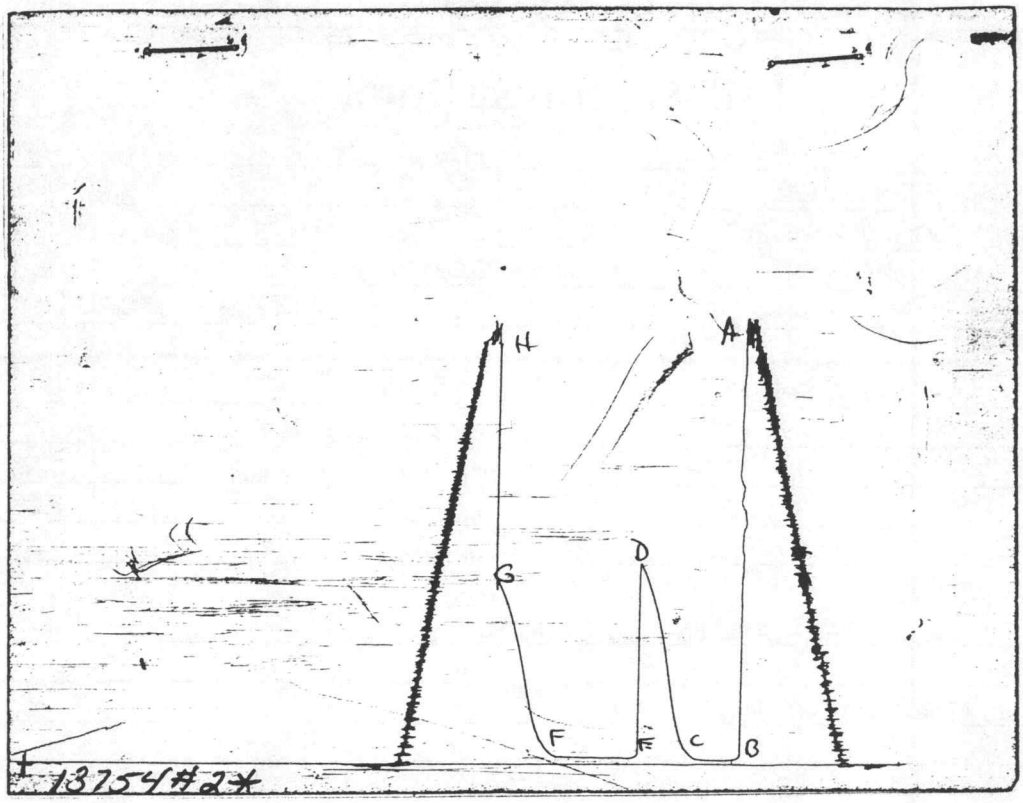
(F) Second Final Flow Pressure 33.50 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 943.70 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2278.70 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2319	2309.70
(B) FIRST INITIAL FLOW PRESSURE	29	28.50
(C) FIRST FINAL FLOW PRESSURE	29	28.50
(D) INITIAL CLOSED-IN PRESSURE	1026	1030.10
(E) SECOND INITIAL FLOW PRESSURE	39	33.50
(F) SECOND FINAL FLOW PRESSURE	39	33.50
(G) FINAL CLOSED-IN PRESSURE	936	943.70
(H) FINAL HYDROSTATIC MUD	2269	2278.70

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name FIELD #1 Test No. 3 Date 1/31/95

Company ABERCROMBIE DRILLING Zone MISSISSIPPI

Address 150 N MAIN WICHITA KS 67202 Elevation 2286

Co. Rep./Geo. STEVE FRANKAMP Cont. ABERCROMBIE #5 Est. Ft. of Pay

Location: Sec. 24 Twp. 25S Rge. 21W Co. FORD State KS

Interval Tested 4746-4756

Anchor Length 10

Top Packer Depth 4741

Bottom Packer Depth 4746

Total Depth 4756

Drill Pipe Size 4.5" XH

Wt. Pipe I.D. - 2.7 Ft. Run

Drill Collar – 2.25 Ft. Run 179

Mud Wt. 9.2 lb/Gal.

Viscosity 46 Filtrate 9.6

Tool Open @ 4:25PM Initial Blow WEAK, BUILDING TO 5".

Final Blow WEAK, BUILDING TO 6".

Recovery - Total Feet 180 Flush Tool? NO

Rec. 180 Feet of GAS IN PIPE.

Rec. 90 Feet of CLEAN GASSY OIL. 10% GAS; 90% OIL.

Rec. 90 Feet of OIL AND WATER CUT MUD. 20% OIL; 20% WATER; 60% MUD.

Rec. Feet of

Rec. Feet of

BHT 118 °F Gravity °API @ °F Corrected Gravity 36 °API

RW 0.95 @ 80 °F Chlorides 6500 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2308.40 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 43.30 PSI @ (depth) 4749 w / Clock No. 27501

(C) First Final Flow Pressure 52.20 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1348.40 PSI @ (depth) 4752 w / Clock No. 25810

(E) Second Initial Flow Pressure 80.00 PSI AK1 Recorder No. Range

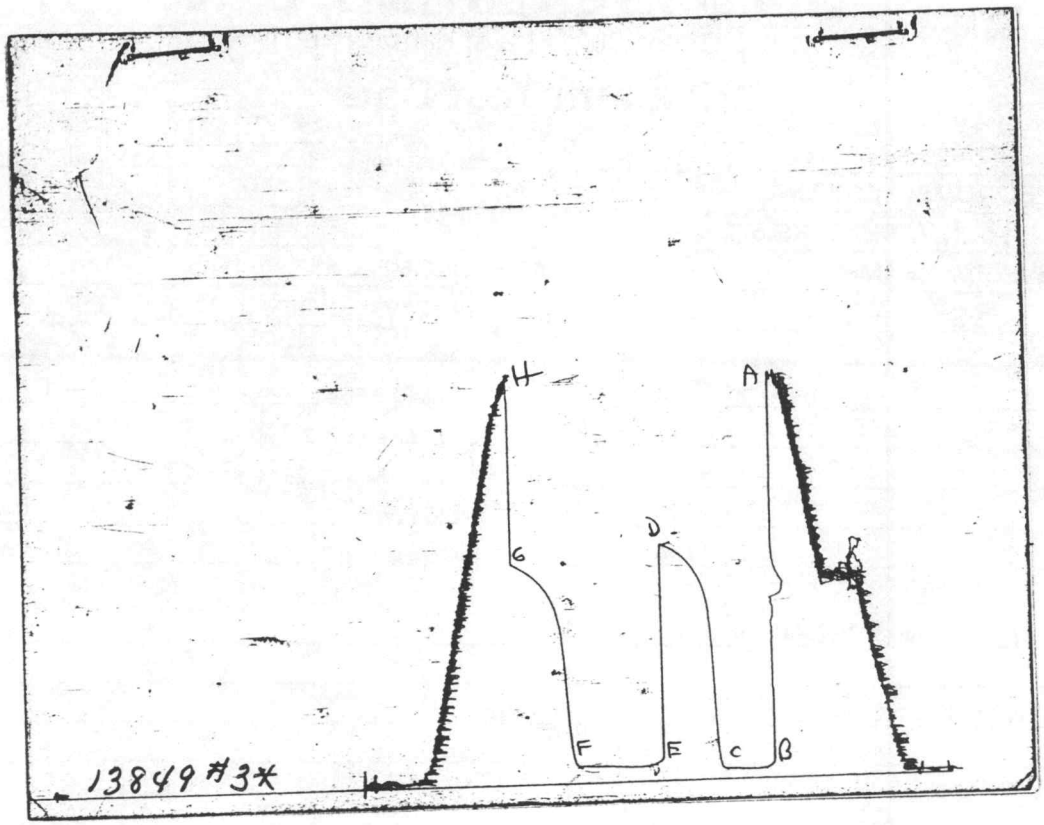
(F) Second Final Flow Pressure 94.40 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1256.60 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2288.50 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2312	2308.40
(B) FIRST INITIAL FLOW PRESSURE	55	43.30
(C) FIRST FINAL FLOW PRESSURE	66	52.20
(D) INITIAL CLOSED-IN PRESSURE	1360	1348.40
(E) SECOND INITIAL FLOW PRESSURE	88	80.00
(F) SECOND FINAL FLOW PRESSURE	100	94.40
(G) FINAL CLOSED-IN PRESSURE	1272	1256.60
(H) FINAL HYDROSTATIC MUD	2290	2288.50

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name FIELD #1 Test No. 4 Date 2/1/95

Company ABERCROMBIE DRILLING Zone MISSISSIPPI

Address 150 N MAIN WICHITA KS 67202 Elevation 2286

Co. Rep./Geo. STEVE FRANKAMP Cont. ABERCROMBIE #5 Est. Ft. of Pay

Location: Sec. 24 Twp. 25S Rge. 21W Co. FORD State KS

Interval Tested 4756-4762

Anchor Length 6

Top Packer Depth 4751

Bottom Packer Depth 4756

Total Depth 4762

Drill Pipe Size 4.5" XH

Wt. Pipe I.D. - 2.7 Ft. Run

Drill Collar – 2.25 Ft. Run 179

Mud Wt. 9.2 lb/Gal.

Viscosity 44 Filtrate 12

Tool Open @ 6:40AM Initial Blow WEAK - BUILDING TO 2 INCHES.

Final Blow WEAK - BUILDING TO 1-1/2 INCH.

Recovery - Total Feet 110 Flush Tool? NO

Rec. 90 Feet of GAS IN PIPE.

Rec. 90 Feet of CLEAN GASSY OIL. 10% GAS; 90% OIL.

Rec. 20 Feet of OIL CUT GASSY MUD.

Rec. Feet of

Rec. Feet of

BHT 118 °F Gravity °API @ °F Corrected Gravity 36 °API

RW @ °F Chlorides ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2304.60 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 28.50 PSI @ (depth) 4748 w / Clock No. 27501

(C) First Final Flow Pressure 28.50 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1346.00 PSI @ (depth) 4758 w / Clock No. 25810

(E) Second Initial Flow Pressure 41.30 PSI AK1 Recorder No. Range

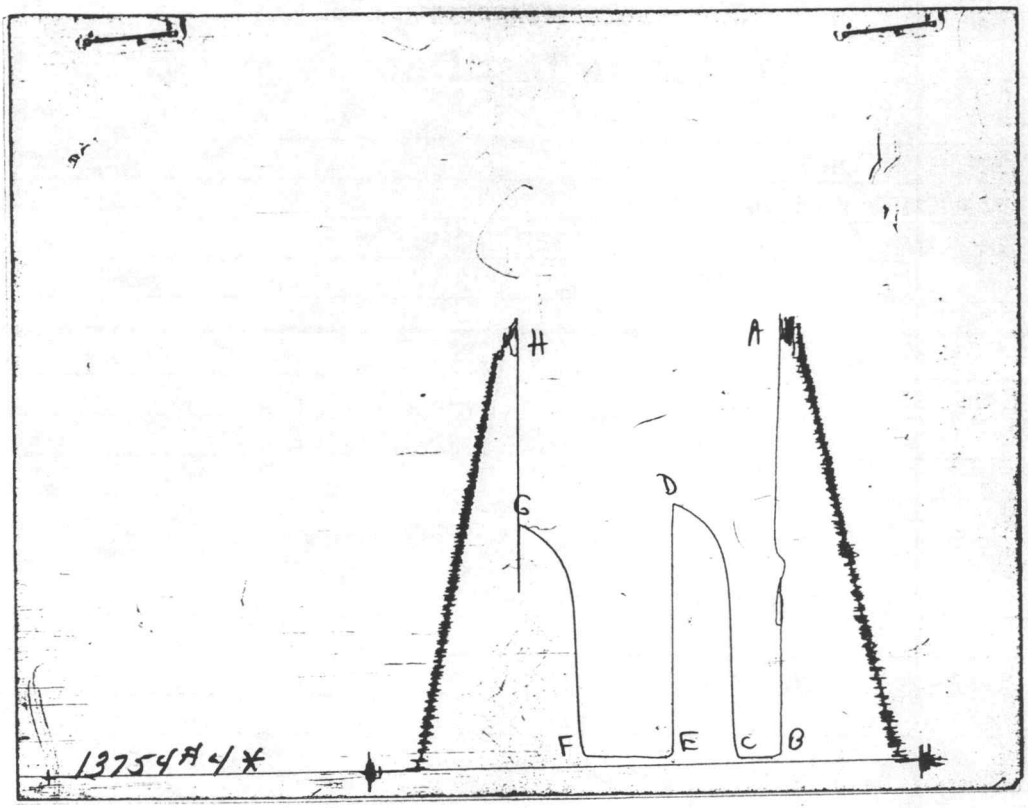
(F) Second Final Flow Pressure 51.20 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1254.00 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2289.50 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2309	2304.60
(B) FIRST INITIAL FLOW PRESSURE	29	28.50
(C) FIRST FINAL FLOW PRESSURE	29	28.50
(D) INITIAL CLOSED-IN PRESSURE	1336	1346.00
(E) SECOND INITIAL FLOW PRESSURE	39	41.30
(F) SECOND FINAL FLOW PRESSURE	49	51.20
(G) FINAL CLOSED-IN PRESSURE	1236	1254.00
(H) FINAL HYDROSTATIC MUD	2289	2289.50

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name FIELD #1 Test No. 5 Date 2/2/95

Company ABERCROMBIE DRILLING Zone KC 'A'

Address 150 N MAIN WICHITA KS 67202 Elevation 2286

Co. Rep./Geo. STEVE FRANKAMP Cont. ABERCROMBIE #5 Est. Ft. of Pay

Location: Sec. 24 Twp. 25S Rge. 21W Co. FORD State KS

Interval Tested 4118-4131 Drill Pipe Size 4.5" XH

Anchor Length 13 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 4118 Drill Collar – 2.25 Ft. Run 29

Bottom Packer Depth 4131 Mud Wt. 9.2 lb/Gal.

Total Depth 4840 Viscosity 44 Filtrate 12

Tool Open @ 5:45AM Initial Blow WEAK STEADY SURFACE BLOW.

Final Blow NO BLOW.

Recovery - Total Feet 40 Flush Tool? NO

Rec. 40 Feet of MUDDY WATER. 60% WATER; 40% MUD.

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 109 °F Gravity °API @ °F Corrected Gravity 36 °API

RW 0.12 @ 80 °F Chlorides 60000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2002.20 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 28.50 PSI @ (depth) 4104 w / Clock No. 27501

(C) First Final Flow Pressure 28.50 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1250.00 PSI @ (depth) 4127 w / Clock No. 25810

(E) Second Initial Flow Pressure 42.30 PSI AK1 Recorder No. 7437 Range 4200

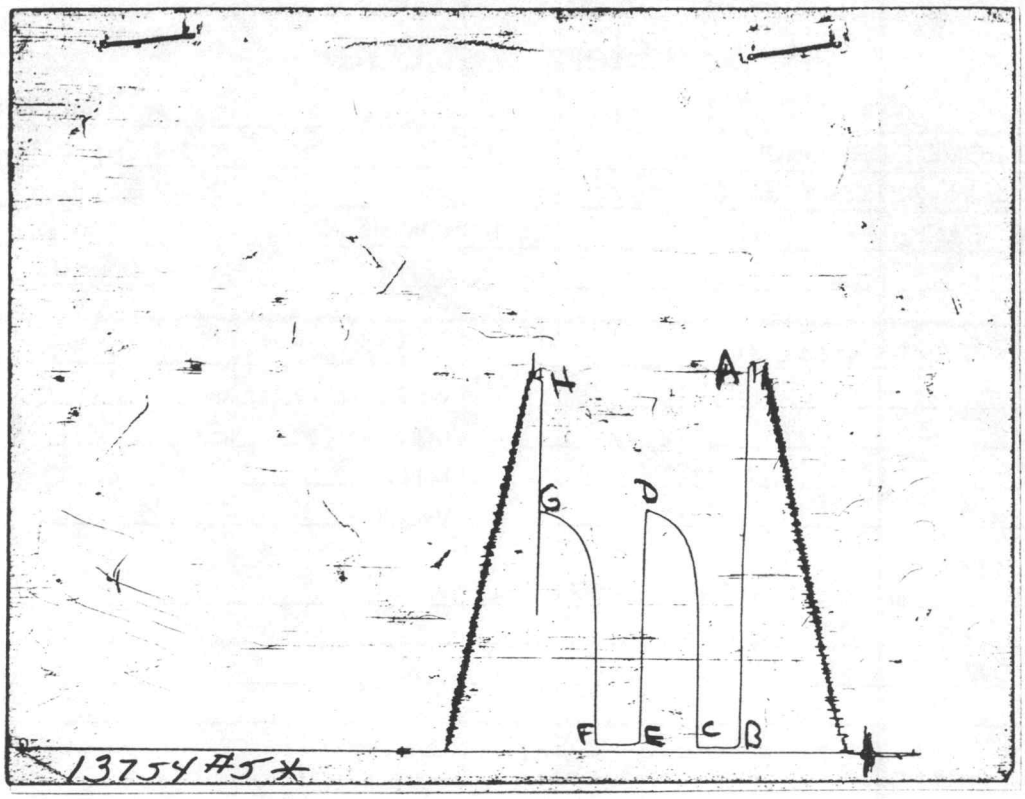
(F) Second Final Flow Pressure 42.30 PSI @ (depth) 4836 w / Clock No. 28567

(G) Final Shut-in Pressure 1243.00 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1981.00 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative DAN BANGLE

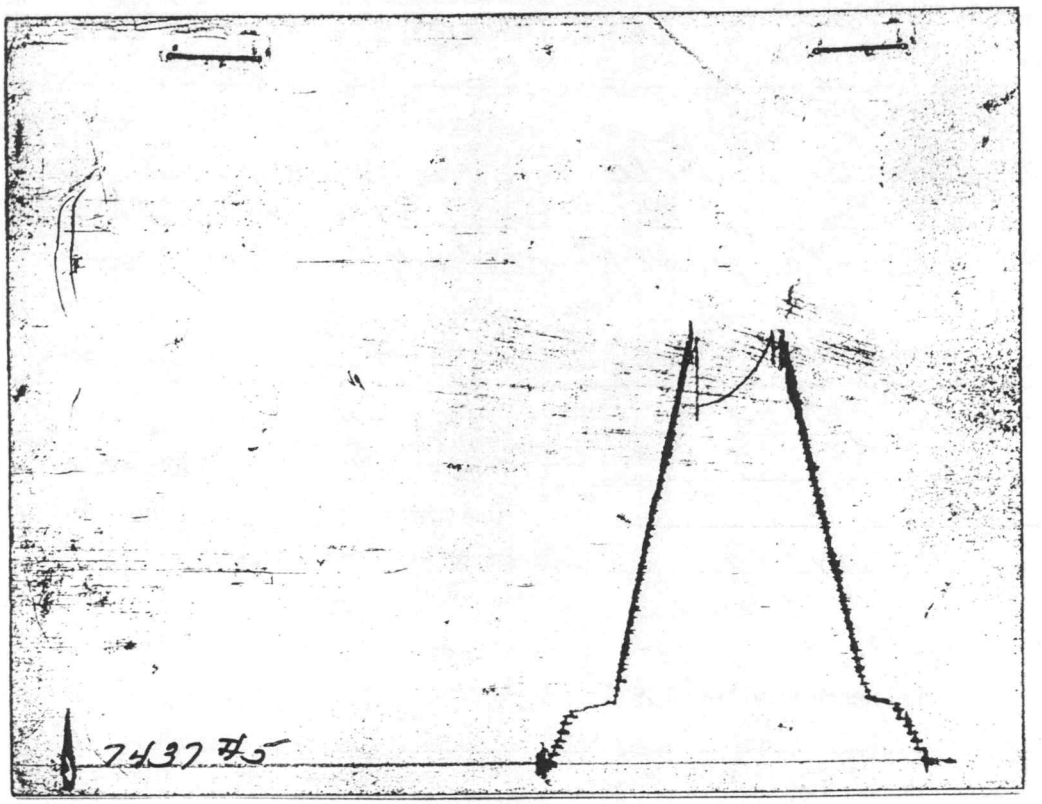
CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2016	2002.20
(B) FIRST INITIAL FLOW PRESSURE	29	28.50
(C) FIRST FINAL FLOW PRESSURE	29	28.50
(D) INITIAL CLOSED-IN PRESSURE	1256	1250.00
(E) SECOND INITIAL FLOW PRESSURE	39	42.30
(F) SECOND FINAL FLOW PRESSURE	39	42.30
(G) FINAL CLOSED-IN PRESSURE	1236	1243.00
(H) FINAL HYDROSTATIC MUD	1986	1981.00

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD		
(B) FIRST INITIAL FLOW PRESSURE		
(C) FIRST FINAL FLOW PRESSURE		
(D) INITIAL CLOSED-IN PRESSURE		
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 8395

Well Name & No. Field #1 Test No. 5 Date 2-2-95

Company Abercrombie Drlg. Zone Tested "A" K.C.

Address _____ Elevation 2286 K.B.

Co. Rep./Geo. Steve Frankamp Cont. Abercrombie #5 Est. Ft. of Pay _____

Location: Sec. 24 Twp. 25 Rge. 21 Co. Ford State Ks.

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

Interval Tested 4118 - 4131 Drill Pipe Size 4.5XH

Anchor Length 13 Top Choke — 1" _____ Bottom Choke — ¾" _____

Top Packer Depth 4118 Hole Size — 7⅞" _____ Rubber Size — 6¾" _____

Bottom Packer Depth 4131 Wt. Pipe I.D. — 2.7 Ft. Run _____

Total Depth 4840 Drill Collar — 2.25 Ft. Run 29'

Mud Wt. 9.2 lb/gal. Viscosity 44 Filtrate 12

Tool Open @ 5:45 a.m. Initial Blow weak steady surface blow

Final Blow No blow

Recovery — Total Feet 40 Feet of Gas in Pipe _____ Flush Tool? _____

Rec. 40	Feet Of mdy WTR.	%gas	%oil	60 %water	40 %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 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .12 @ 80 °F Chlorides 60,000 ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud	2016 PSI	AK1 Recorder No.	13754	Range	4000
(B) First Initial Flow Pressure	29 PSI	@ (depth)	4104	w/Clock No.	27501
(C) First Final Flow Pressure	29 PSI	AK1 Recorder No.	13849	Range	4375
(D) Initial Shut-In Pressure	1256 PSI	@ (depth)	4127	w/Clock No.	25810
(E) Second Initial Flow Pressure	39 PSI	AK1 Recorder No.	7437	Range	4200
(F) Second Final Flow Pressure	39 PSI	@ (depth)	4836	w/Clock No.	28567
(G) Final Shut-In Pressure	1236 PSI	Initial Opening	30	Test	STraddle 600
(H) Final Hydrostatic Mud	1986 PSI	Initial Shut-In	45	Jars	_____
		Final Flow	30	Safety Joint	_____
		Final Shut-In	45	Straddle	X 250
				Circ. Sub	_____
				Sampler	_____
				Extra Packer	X 150
				Other	A.P. Carrier
				TOTAL PRICE $	1000

Approved By Steve Frankamp

Our Representative Dan Bangle

Printcraft Printers - Hays, KS