

436838

TRILOBITE TESTING L.L.C.

14-31s-40w

OPERATOR : Key Prod. Comp. Inc. DATE 10-9-00
 WELL NAME: Fleming #2-14 KB 3269.00 ft TICKET NO: 13103 DST #1
 LOCATION : 14-31S-40W Morton co KS GR 3264.00 ft FORMATION: Upper Morrow
 INTERVAL : 5356.00 To 5437.00 ft TD 5437.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10993	10993	2357			PF Fr. 0715 to 0745 hr
SI 60 Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0	IS Fr. 0745 to 0845 hr
SF 60 Clock(hrs)	12HR.	12HR.	Elet.			SF Fr. 0845 to 0945 hr
FS 120 Depth(ft)	5435.0	5435.0	5358.0	0.0	0.0	FS Fr. 0945 to 1145 hr

	Field	1	2	3	4	
A. Init Hydro	2686.0	0.0	2530.0	0.0	0.0	T STARTED 0415 hr
B. First Flow	250.0	0.0	154.0	0.0	0.0	T ON BOTM 0713 hr
B1. Final Flow	543.0	0.0	519.0	0.0	0.0	T OPEN 0715 hr
C. In Shut-in	1328.0	0.0	1288.0	0.0	0.0	T PULLED 1145 hr
D. Init Flow	607.0	0.0	522.0	0.0	0.0	T OUT 1500 hr
E. Final Flow	941.0	0.0	930.0	0.0	0.0	
F. Fl Shut-in	1317.0	0.0	1292.0	0.0	0.0	
G. Final Hydro	2506.0	0.0	2488.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 1800.00 lbs
						Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 65000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 5408.00 ft

RECOVERY

Tot Fluid 2100.00 ft of 0.00 ft in DC and 2100.00 ft in DP
 120.00 ft of Muddy water
 0.00 ft of 25% Water 75% mud
 180.00 ft of Watery mud
 0.00 ft of 70% water 30% mud
 1800.00 ft of Salt water
 0.00 ft of 100% water
 0.00 ft of
 0.00 ft of

SALINITY 135000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in 3 minutes.
 Initial Shut-In:
 Bled off 2" took 8 minutes. No blow back.
 Final Flow:
 Fair blow built to bottom of bucket in 6 minutes.
 Final Shut-In:
 Bled off 2" took 10 minutes. No blow back.
 Caught 1 sample to analyze but no GTS

SAMPLES: Yes 1
 SENT TO: Caraway Lab Liberal

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	65.00 S/L
W.L.	6.40 in3
F.C.	0.00 in
Mud Drop Y	30.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	124.00 F
Hole Condition	Good
% Porosity	12.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Mike Colantonio
Co. Rep.	Marvin Harvey
Contr.	Val Energy
Rig #	1
Unit #	
Pump T.	

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Fleming #2-14

LOCATION : 14-31S-40W Morton co KS

TICKET No. 13103 D.S.T. No. 1 DATE 10-9-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 19

TOTAL TOOL 49

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 111

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands87 Single 1 Total 5408

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5457

TOTAL DEPTH 5437

TOTAL DRILL PIPE ABOVE K.B. 20

REMARKS:

SAMPLER DATA

4000ml Water
1200PSI.
4000ml Total

.671 RW 66.4 Deg.
135000 Chlorides

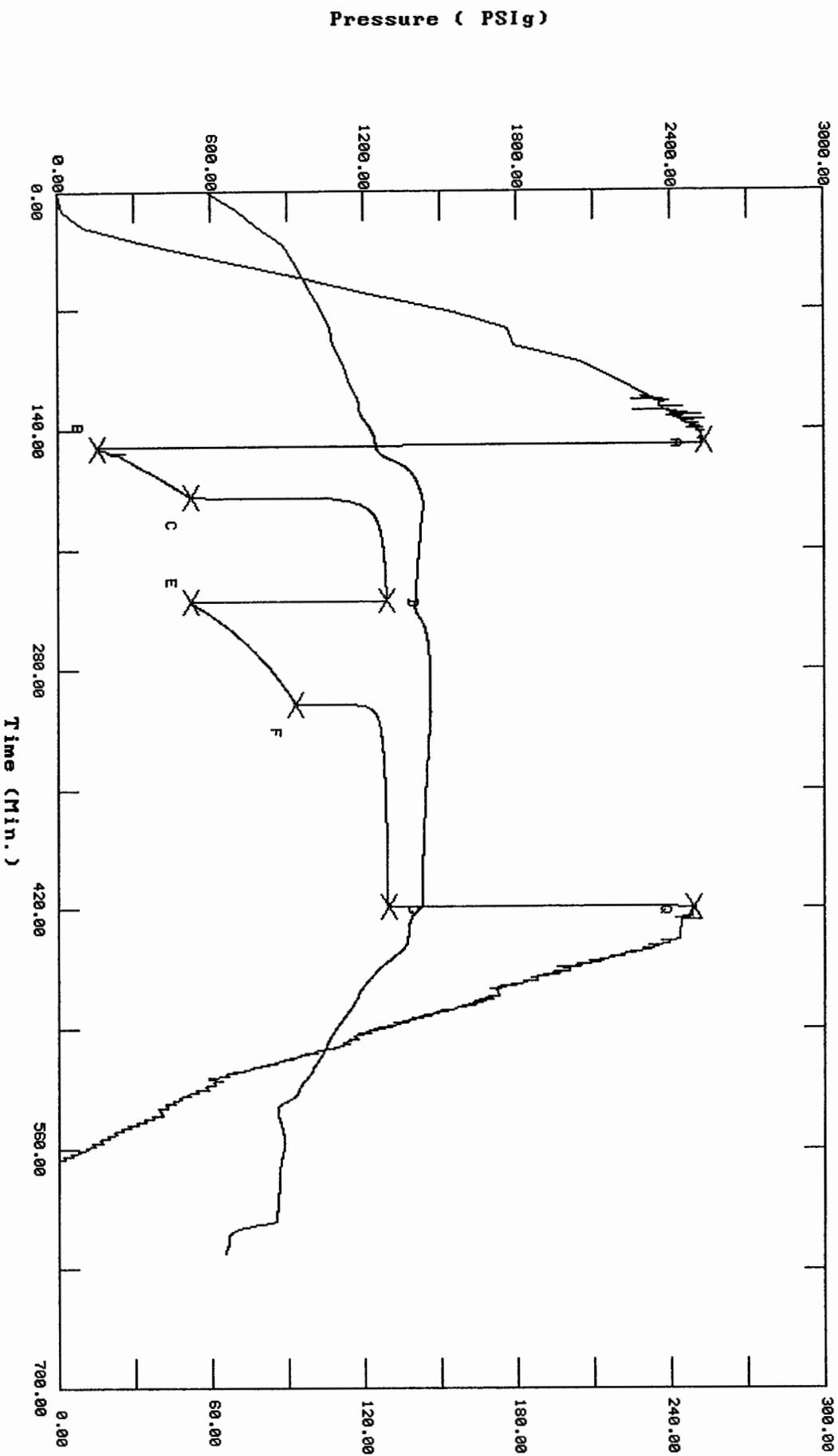
H	P.O. SUB Top tool	5326
H	C.O. SUB 1ft	5327
H	S.I. TOOL Sterling	5332
H	3ft Sampler	5335
H	HMV Sterling	5340
H	JARS Sterling	5345
H		
H	SAFETY JOINT Bowens	5347
H	PACKER 5ft	5351
H	PACKER 5ft Shale packer	5356
H	DEPTH	
H	1ft	5357
H	ANCHOR	
H	1ft perf	5358
H		
H	Alpine Rec.	5358
H		
H		
H		
H		
H		
H		
H		
H		
H		
H	5ft PU sub	5363
H	8ft perf	5371
H		
H	64ft Pipe & subs	5435
H	BULLNOSE AK-1 Rec	5435
H	T.D. 2ft Bullplug	5437

13103 DST#1 Fleming #2-14 Key Production Company Inc.

TEST HISTORY

Flag Points
 t (Min.) P (PSig)

A:	0.00	2530.89
B:	0.00	154.19
C:	29.00	519.65
D:	60.50	1288.60
E:	0.00	522.96
F:	60.00	930.63
G:	118.25	1292.48
Q:	0.00	2488.39

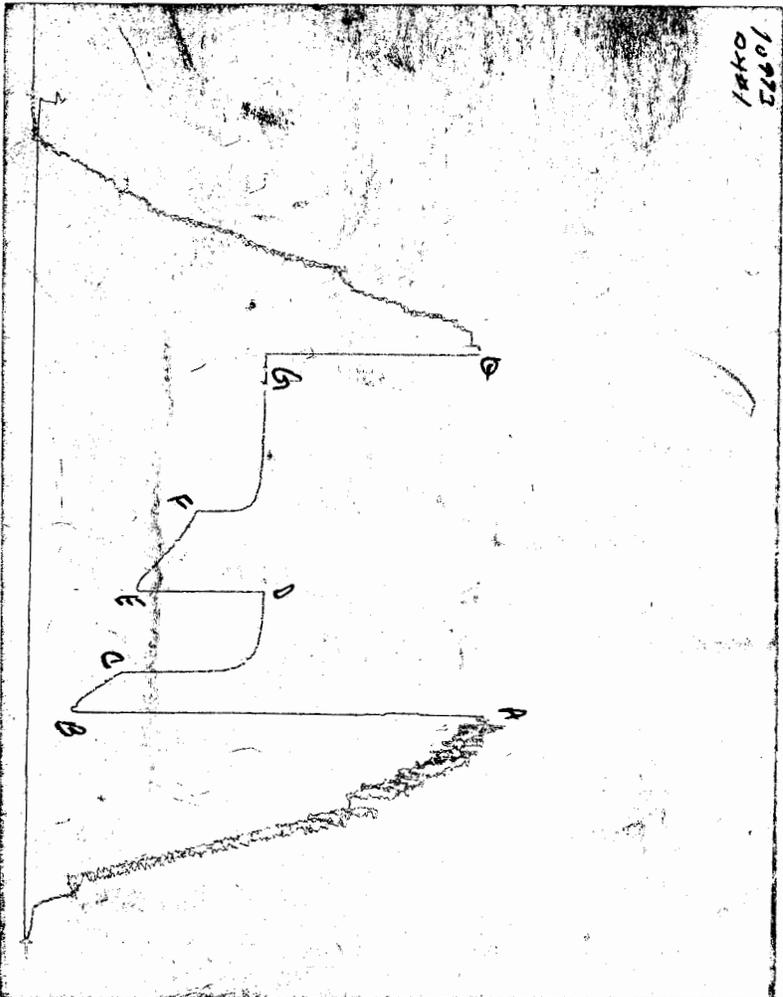


Temperature (DEG F)

Pressure (PSig)

Time (Min.)

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 13103

Test Ticket

Well Name & No. Fleming #2-14 Test No. #1 Date 10-9-00
 Company Key Prod. Comp. Inc. Zone Tested Upper Morrow
 Address 427 S. Boston St. 515 Tulsa Okla. 74103 Elevation 3269 KB 3264 GL
 Co. Rep / Geo. Roger Pearson Cont. V&I Energy Rly #1 Est. Ft. of Pay 15 Por. 12 %
 Location: Sec. 14 Twp. 31S Rge. 40W Co. Morton State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 5356 - 5437 Initial Str Wt./Lbs. 60,000 Unseated Str Wt./Lbs. 65,000
 Anchor Length 81' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 0
 Top Packer Depth 5351 Tool Weight 1,800
 Bottom Packer Depth 5352 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" X
 Total Depth 5437 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.0 LCM 1* Vis. 65 WL 6.4 Drill Pipe Size 4.5-X-0 Ft. Run 5408' 87 STD / 15 in'

Blow Description 1st Opening Strong Blow B.O.B. in 3 min
ISI Bld off 2" Took 8 min No Blow Back
2nd Opening Fair Blow Built to B.O.B. in 6 min
E.S.T. Bld off 2" Took 10 min No Blow Back

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>120</u>	Feet Of <u>M-W</u>	%gas _____ %oil <u>25</u> %water <u>75</u> %mud _____	
Rec. <u>180</u>	Feet Of <u>W-M</u>	%gas _____ %oil <u>70</u> %water <u>30</u> %mud _____	
Rec. <u>1800</u>	Feet Of <u>S&H Water</u>	%gas _____ %oil <u>100</u> %water _____ %mud _____	
Rec. _____	Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____	Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 124 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW .671 @ 66.4 °F Chlorides 135,000 ppm Recovery Chlorides 6100 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2686</u>	<u>2500</u>	<u>2357</u>	<u>3:30 AM</u>
(B) First Initial Flow Pressure	<u>250</u>	<u>154</u>	(depth) <u>5358</u>	T-Started <u>4:15 AM</u>
(C) First Final Flow Pressure	<u>543</u>	<u>519</u>	PSI Recorder No. <u>10993</u>	T-Open <u>7:15 AM</u>
(D) Initial Shut-In Pressure	<u>1328</u>	<u>1288</u>	PSI (depth) <u>5435</u>	T-Pulled <u>11:45 AM</u>
(E) Second Initial Flow Pressure	<u>607</u>	<u>522</u>	PSI Recorder No. _____	T-Out <u>1:00 PM</u>
(F) Second Final Flow Pressure	<u>941</u>	<u>930</u>	PSI (depth) _____	T-Off Location <u>4:15 PM</u>
(G) Final Shut-in Pressure	<u>1317</u>	<u>1292</u>	PSI Initial Opening <u>30 min</u>	Test <u>✓</u> <u>Conver Area 850</u>
(Q) Final Hydrostatic Mud	<u>2506</u>	<u>2488</u>	PSI Initial Shut-in <u>60 min</u>	Jars <u>✓</u> <u>200</u>
			Final Flow <u>60 min</u>	Safety Joint <u>✓</u> <u>50</u>
			Final Shut-in <u>120 min</u>	Straddle _____

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 Marvin Harvey
 Our Representative M. Colanton

Circ. Sub ✓ N/C
 Sampler ✓ 200
 Extra Packer ✓ 15 NAK 150
 Elec. Rec. ✓ 150
 Mileage ✓ 35 miles 35
 Other 1 1/2 45
 TOTAL PRICE \$ 61635.00
1680

10:45
 11:30
 10
 1:42

TRILOBITE TESTING L.L.C.

OPERATOR : Key Prod. Comp. Inc.

DATE 10-12-00

WELL NAME: Fleming #2-14

KB 3269.00 ft

TICKET NO: 13104

DST #2

LOCATION : 14-31S-40W Morton co KS

GR 3264.00 ft

FORMATION: Marmaton

INTERVAL : 4642.00 To 4760.00 ft

TD 6110.00 ft

TEST TYPE: CONV. HOOKWALL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 0 Rec.	10993	10993	13278	13278	2357	PF Fr. to hr
SI 0 Range(Psi)	4250.0	4250.0	4400.0	4400.0	4995.0	IS Fr. to hr
SF 0 Clock(hrs)	12HR.	12HR.	12HR.	12HR.	Elet.	SF Fr. to hr
FS 0 Depth(ft)	4829.0	4829.0	4755.0	4755.0	4740.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	0.0	0.0	2027.0	T STARTED 1300 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 1500 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 1730 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
G. Final Hydro	0.0	0.0	0.0	0.0	1998.0	

RECOVERY

Tot Fluid 0.00 ft of 0.00 ft in DC and 0.00 ft in DP
 0.00 ft of
 0.00 ft of

TOOL DATA-----
 Tool Wt. 20000.00 lbs
 Wt Set On Packer 35000.00 lbs
 Wt Pulled Loose 0.00 lbs
 Initial Str Wt 50000.00 lbs
 Unseated Str Wt 0.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.78 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 0.00 ft
 D.P. Length 4052.00 ft

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Got 52 Stds. in hole free 53 std. to 63 std had drag 63 std. to 66 std. had 10000-20000# drag 66std. got to 4204 could not go any more TOH.

MUD DATA-----
 Mud Type Chemical
 Weight 8.80 lb/c
 Vis. 66.00 S/L
 W.L. 6.40 in3
 F.C. 0.00 in
 Mud Drop Y 0.0 ft

Amt. of fill 0.00 ft
 Btm. H. Temp. 0.00 F
 Hole Condition Tight
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 3
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Mike Colantonio
 Co. Rep. Roger Pearson
 Contr. Val Energy
 Rig # 1
 Unit #
 Pump T.

SAMPLES:

SENT TO:

Test Successful: N

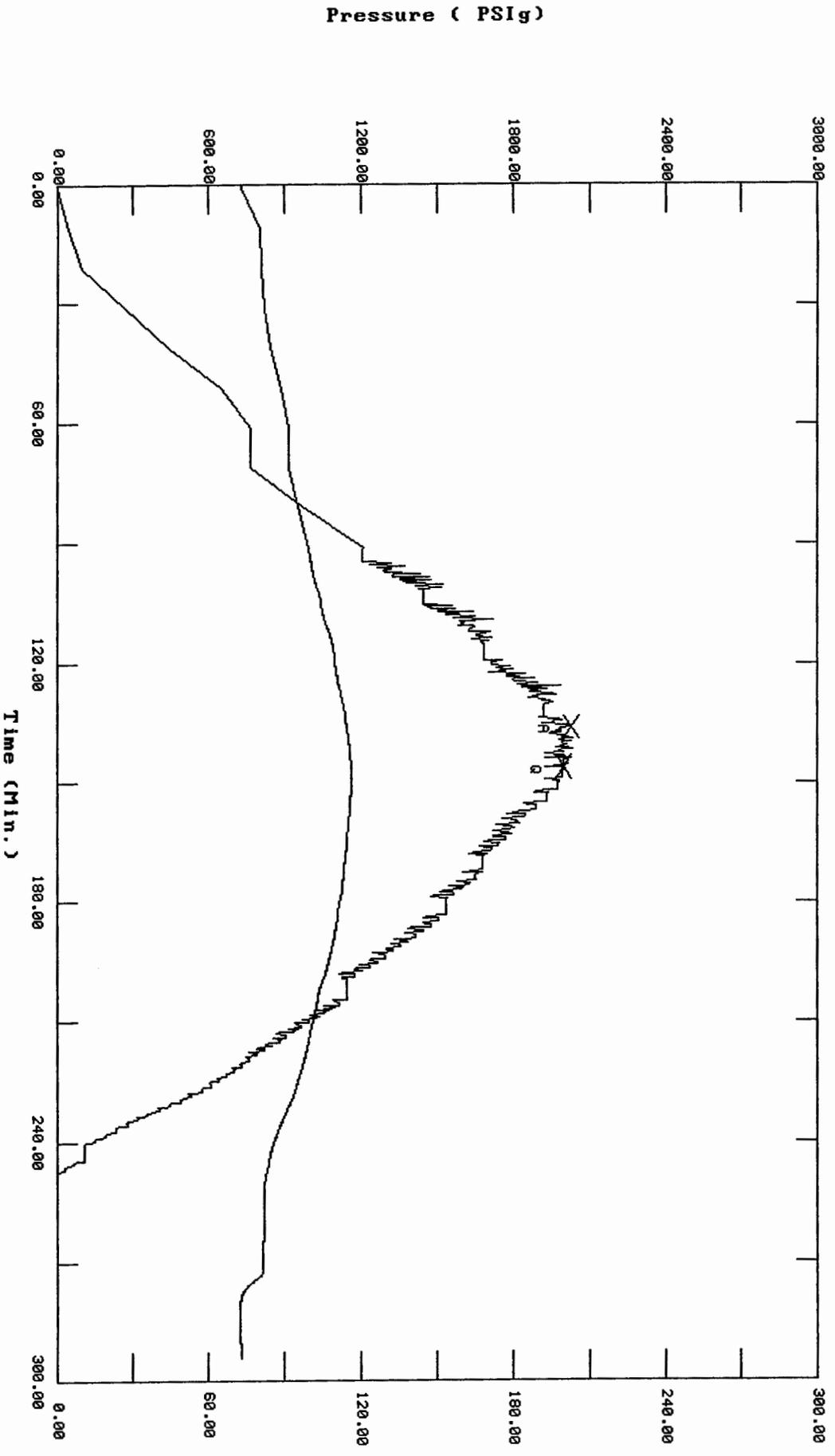
*** TOOL DIAGRAM *** CONV. HOOKWALL

WELL NAME: Fleming #2-14	H	P.O. SUB Top tool	4612
	H	C.O. SUB 1ft	4613
LOCATION : 14-31S-40W Morton co KS	H	S.I. TOOL Sterling	4618
TICKET No. 13104 D.S.T. No. 2 DATE 10-12-00	H	3ft Sampler	4621
TOTAL TOOL TO BOTTOM OF TOP PACKERS 30	H	HMV Sterling	4626
INTERVAL TOOL	H	JARS Sterling	4631
BOTTOM PACKERS AND ANCHOR 30	H		
TOTAL TOOL 60	H		
DRILL COLLAR ANCHOR IN INTERVAL	H		
D.C. ANCHOR STND.Stands Single Total	H	SAFETY JOINT Bowens	4633
D.P. ANCHOR STND.Stands 1 Single 1 Total 93	H	PACKER 5ft	4638
TOTAL ASSEMBLY 153	H	PACKER 5ft Shale packer	4642
D.C. ABOVE TOOLS.Stands Single Total	H	DEPTH	
D.P. ABOVE TOOLS.Stands66 Single Total 4052	H	1ft	4643
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4205	H	ANCHOR	
	H	2ft perf	4645
	H	95ft Pipe & Subs	4740
TOTAL DEPTH 6110	H	Alpine Rec	4740
TOTAL DRILL PIPE ABOVE K.B.	H	15ft Perf	4755
REMARKS:	H	AK-1 Rec	4755
SAMPLER DATA	H	1ft Blank off sub	4756
	H	PACKER 5ft Shale packer	4760
	H	5ft Hookwall	4763
	H	64ft pipe & subs	4829
	H	BULLNOSE AK-1 Rec	4829
	H	T.D. 2ft Bullplug	4831

13104 DST #2 Fleming #2-14 Key Prod. Comp. Inc.

TEST HISTORY

Flag Points
(Min.) P (PSIG)
R: 0.00 2027.38
Q: 0.00 1998.94

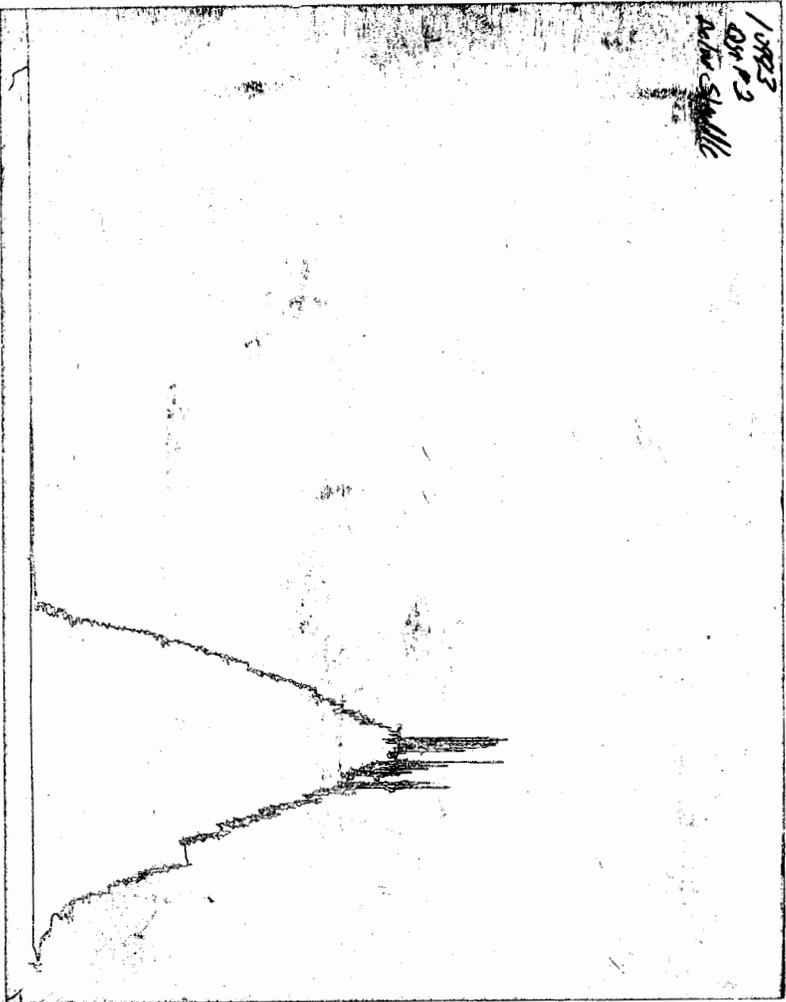


Pressure (PSig)

Temperature (DEG F)

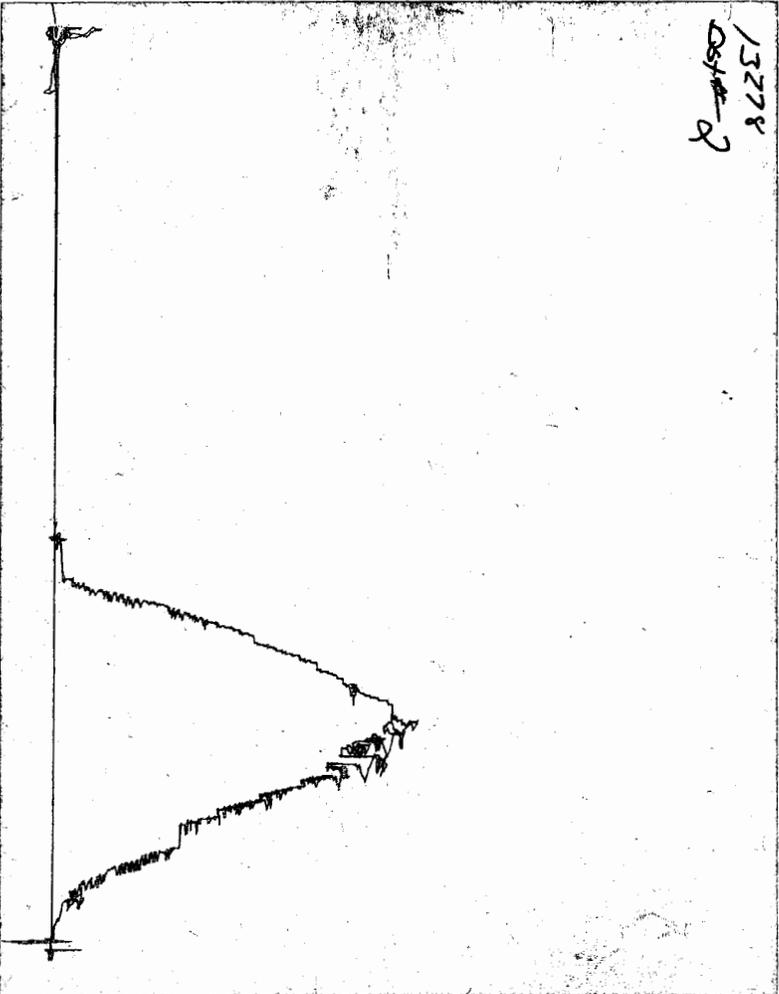
Time (Min.)

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13104

Test Ticket

Well Name & No. Fleming # 2-11 Test No. #2 Date 10-10-00
 Company Key Prod. Comp. Inc. Zone Tested MALMATON
 Address Tulsa OK. Elevation 3269 KB 3264 GL
 Co. Rep / Geo. Roger Pearson Cont. VAL Energy Rj #1 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 14 Twp. 31S Rge. 40W Co. Morton State KS.
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4642-4760 Initial Str Wt./Lbs. 59000 Unseated Str Wt./Lbs. _____
 Anchor Length 118' Wt. Set Lbs. 35000 Wt. Pulled Loose/Lbs. _____
 Top Packer Depth 4637 Tool Weight 2000
 Bottom Packer Depth 4760 Hole Size — 7 7/8" X Rubber Size — 6 3/4" X
 Total Depth 6110 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 8.8 LCM 2" Vis. 66 WL 6.4 Drill Pipe Size 4.5 x 0 Ft. Run 4052 665+0
 Blow Description Got 52 Sds in Hole FREE 53 STD TO 63 STD Mud
Drug 63 STD TO 66 STD Worked 10,000 to 09,000 # Drug 66 STD
got to 4204' Couldn't go no more T.O.H.
{MISRUN}

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
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 _____
Rec. _____ Feet Of _____		%gas _____ %oil _____	%water _____ %mud _____

BHT _____ °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4100 ppm System

	AK-1	Alpine	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2007</u> PSI	<u>2357</u>	<u>10:00am</u> 4:00
(B) First Initial Flow Pressure		PSI	(depth) <u>4740</u>	T-Started <u>11:00pm</u>
(C) First Final Flow Pressure		PSI	Recorder No. <u>13278</u>	T-Open _____ 5:30
(D) Initial Shut-In Pressure		PSI	(depth) <u>4755</u>	T-Pulled <u>5:00pm</u> 9:30
(E) Second Initial Flow Pressure		PSI	Recorder No. <u>10993</u>	T-Out <u>7:30pm</u>
(F) Second Final Flow Pressure		PSI	(depth) <u>4829</u>	T-Off Location <u>8:00pm</u>
(G) Final Shut-in Pressure		PSI	Initial Opening _____	Test <u>Hook up 11 5:50</u>
(Q) Final Hydrostatic Mud	<u>1998</u>	PSI	Initial Shut-in _____	Jars <u>200</u>
			Final Flow _____	Safety Joint <u>50</u>
			Final Shut-in _____	Straddle <u>250</u>
				Circ. Sub <u>n/c</u>
				Sampler <u>n/c</u> 50
				Extra Packer <u>2 SHAK 300</u>
				Elec. Rec. <u>150</u>
				Mileage <u>70 miles \$70.00</u>
				Other <u>Hook up \$300</u>
				TOTAL PRICE \$ <u>2020.00</u>

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 Roger Pearson
 Our Representative M. Colarta

TRILOBITE TESTING L.L.C.

OPERATOR : Key Prod. Comp. Inc. DATE 10-13-00
 WELL NAME: Fleming #2-14 KB 3269.00 ft TICKET NO: 13105 DST #3
 LOCATION : 14-31S-40W Morton co KS GR 3264.00 ft FORMATION: Marmaton
 INTERVAL : 4642.00 To 4760.00 ft TD 6110.00 ft TEST TYPE: CONV. HOOKWALL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----		
PF	0	Rec.	10993	10993	13278	13278	2357	PF Fr.	to hr
SI	0	Range(Psi)	4250.0	4250.0	4400.0	4400.0	4995.0	IS Fr.	to hr
SF	0	Clock(hrs)	12HR.	12HR.	12HR.	12HR.	Elet.	SF Fr.	to hr
FS	0	Depth(ft)	4829.0	4829.0	4755.0	4755.0	4740.0	FS Fr.	to hr

	Field	1	2	3	4		
A.	Init Hydro	0.0	0.0	0.0	0.0	0.0	T STARTED 0230 hr
B.	First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM hr
B1.	Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN hr
C.	In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 0430 hr
D.	Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT hr
E.	Final Flow	0.0	0.0	0.0	0.0	0.0	
F.	Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
G.	Final Hydro	0.0	0.0	0.0	0.0	0.0	
	Inside/Outside	0	0	0		i	

TOOL DATA-----
 Tool Wt. 20000.00 lbs
 Wt Set On Packer 40000.00 lbs
 Wt Pulled Loose 0.00 lbs
 Initial Str Wt 50000.00 lbs
 Unseated Str Wt 0.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.78 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 0.00 ft
 D.P. Length 4052.00 ft

RECOVERY

Tot Fluid 0.00 ft of 0.00 ft in DC and 0.00 ft in DP
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Got 62 stands in free. 63rd stand had a little drag. 65th stand had 10,000 drag. 66th stand got to 4208' stacked out. No more TOH

MISRUN!

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 8.80 lb/c
 Vis. 58.00 S/L
 W.L. 6.40 in3
 F.C. 0.00 in
 Mud Drop Y 0.0 ft

Amt. of fill 0.00 ft
 Btm. H. Temp. 117.00 F
 Hole Condition Tight
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 3
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Mike Colantonio
 Co. Rep. Roger Pearson
 Contr. Val Energy
 Rig # 1
 Unit #
 Pump T.

Test Successful: N

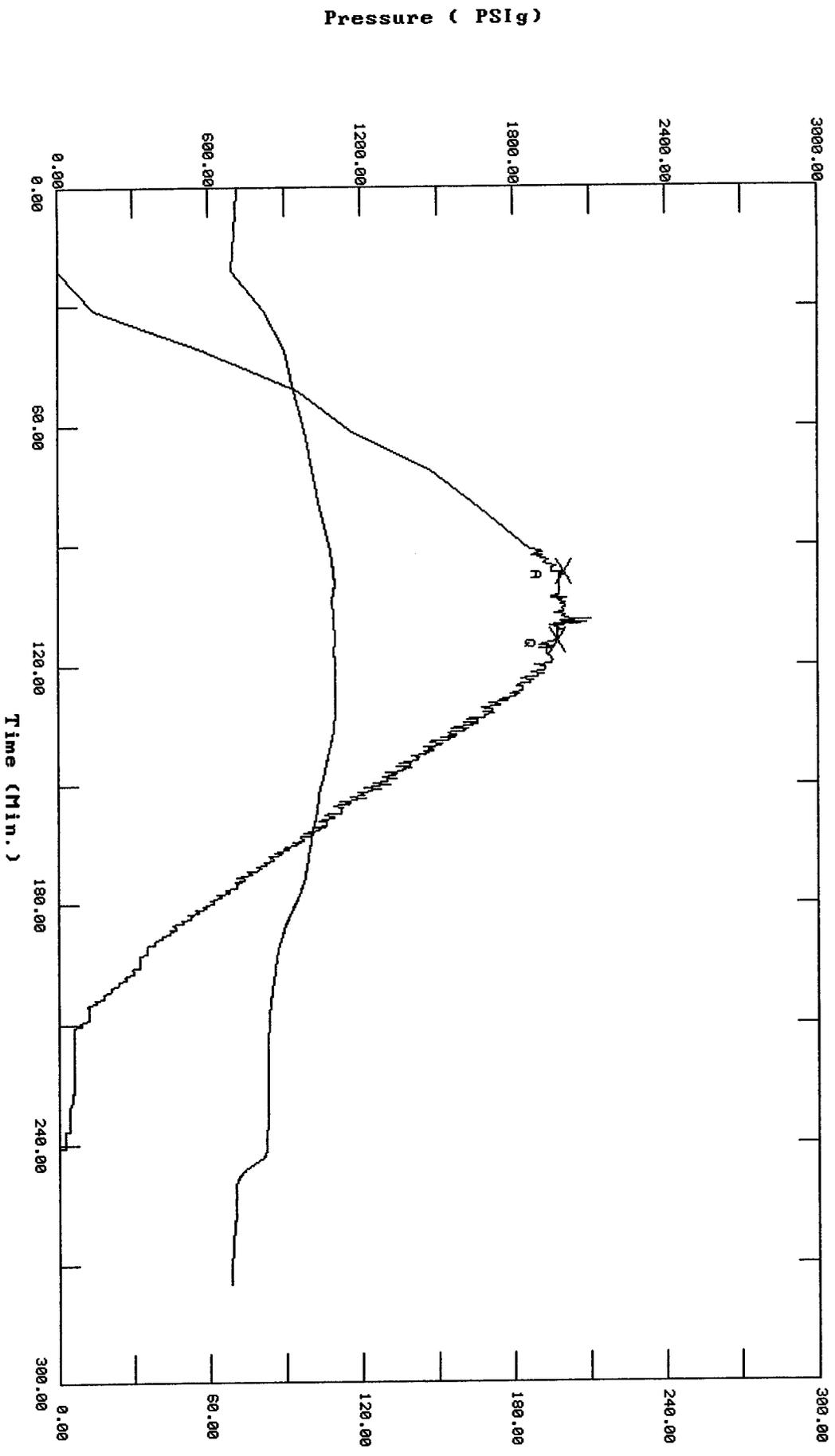
*** TOOL DIAGRAM *** CONV. HOOKWALL

WELL NAME: Fleming #2-14	H P.O. SUB Top tool	4612
	H C.O. SUB 1ft	4613
LOCATION : 14-31S-40W Morton co KS	H S.I. TOOL Sterling	4618
TICKET No. 13105 D.S.T. No. 3 DATE 10-13-00	H 3ft Sampler	4621
TOTAL TOOL TO BOTTOM OF TOP PACKERS 30	H	
INTERVAL TOOL	H HMV Sterling	4626
BOTTOM PACKERS AND ANCHOR 30	H JARS Sterling	4631
TOTAL TOOL 60	H	
DRILL COLLAR ANCHOR IN INTERVAL	H	
D.C. ANCHOR STND.Stands Single Total	H SAFETY JOINT Bowens	4633
D.P. ANCHOR STND.Stands 1 Single 1 Total 93	H	
TOTAL ASSEMBLY 153	■ PACKER 5ft	4638
D.C. ABOVE TOOLS.Stands Single Total	■ PACKER 5ft Shale packer	4642
D.P. ABOVE TOOLS.Stands 66 Single Total 4052	H DEPTH	
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4205	H 1ft	4643
	H ANCHOR	
TOTAL DEPTH 6110	H 2ft perf	4645
TOTAL DRILL PIPE ABOVE K.B.	H	
REMARKS:	H 95ft Pipe & Subs	4740
SAMPLER DATA	H Alpine Rec	4740
	H 15ft Perf	4755
	H AK-1 Rec	4755
	H 1ft Blank off sub	4756
	H	
	H	
	■ PACKER 5ft Shale packer	4760
	H	
	H 5ft Hookwall	4763
	H 31ft pipe & subs	4794
	H	
	H AK-1 Rec.	4794
	H BULLNOSE 1ft sub	4795
	U T.D. 1ft drill bit	4796

13105 DST #3 Fleming #2-14 Key Prod. Comp. Inc.

TEST HISTORY

Flag Points
(Min.) R (PSIG)
R: 0.00 2000.46
Q: 0.00 1974.73

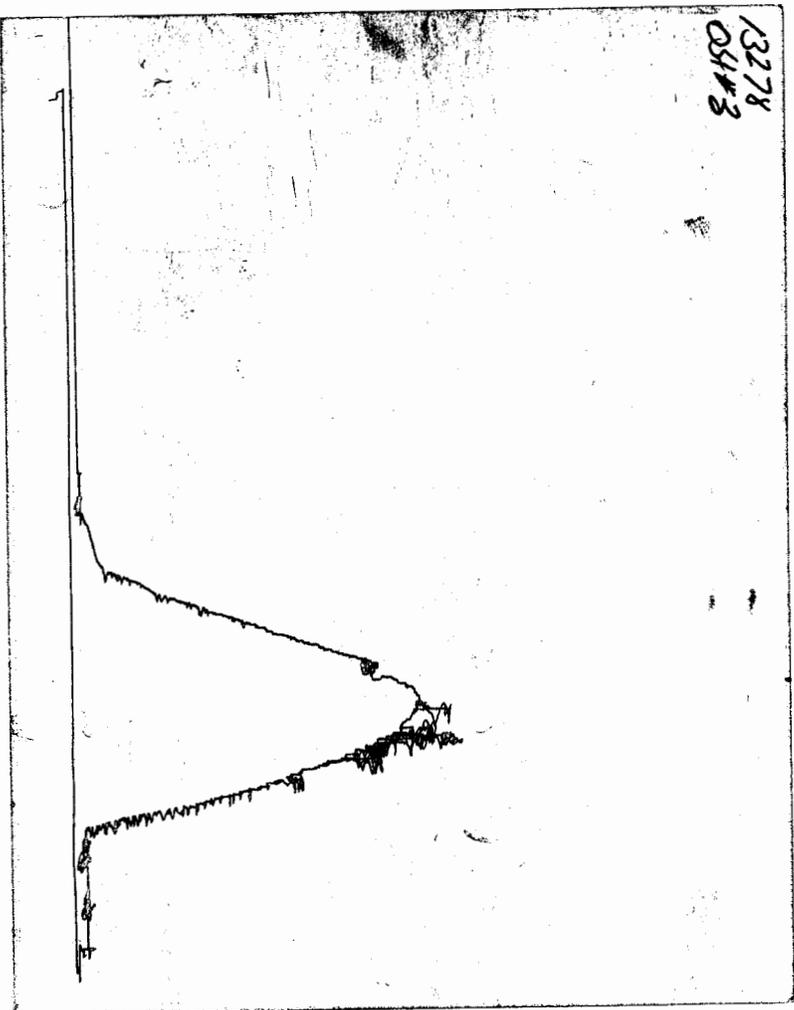


Pressure (PSIG)

Temperature (DEG F)

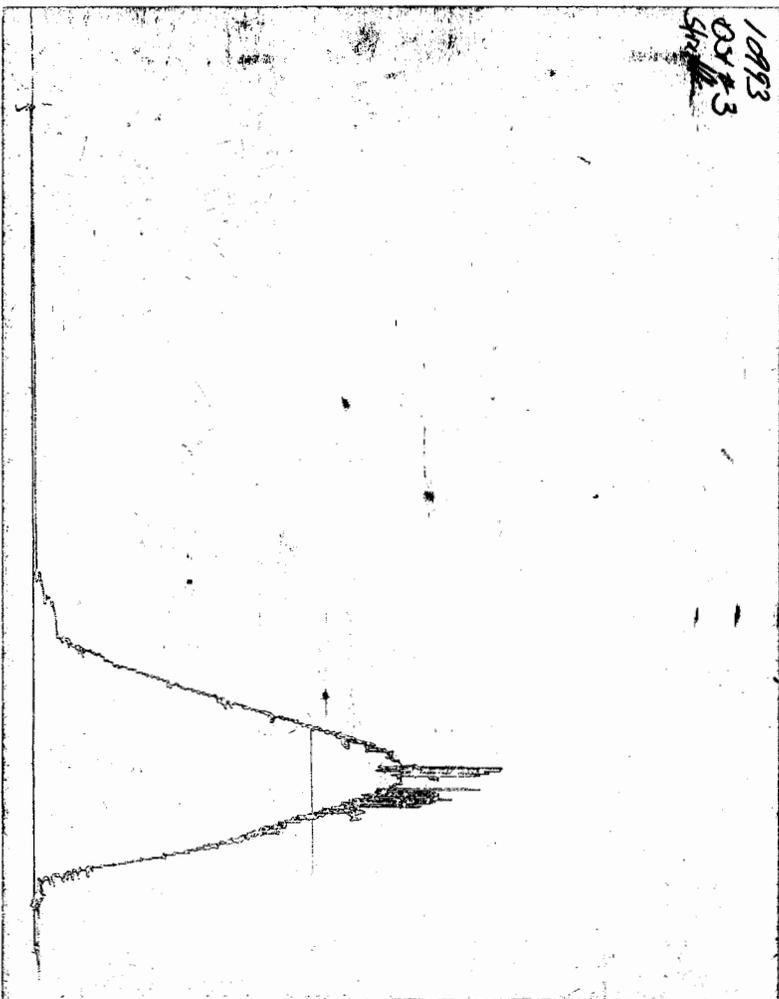
Time (Min.)

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13105

Test Ticket

Well Name & No. <u>Fleming # 2-11</u>	Test No. <u>43</u>	Date <u>10-13-00</u>
Company <u>Key Prod. Corp. Inc.</u>	Zone Tested <u>MALMerton</u>	
Address <u>Tulsa Okla.</u>	Elevation <u>3267</u> KB <u>3264</u> GL	
Co. Rep / Geo. <u>Roger Pearson</u>	Cont. <u>Valency Ry #1</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>14</u> Twp. <u>31.5</u> Rge. <u>40W</u> Co. <u>Morton</u> State <u>KS</u>		
No. of Copies <u> </u> Distribution Sheet (Y, N) <u> </u> Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>		

Interval Tested <u>4642-4760</u>	Initial Str Wt./Lbs. <u>59,000</u>	Unseated Str Wt./Lbs. <u> </u>
Anchor Length <u>118'</u>	Wt. Set Lbs. <u>40,000</u>	Wt. Pulled Loose/Lbs. <u> </u>
Top Packer Depth <u>4637</u>	Tool Weight <u>2,000</u>	
Bottom Packer Depth <u>4760</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u>X</u>
Total Depth <u>6110</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u> </u>
Mud Wt. <u>8.8</u> LCM <u>1#</u> Vis. <u>58</u> WL <u>6.4</u>	Drill Pipe Size <u>4.5 X-0</u>	Ft. Run <u> </u>
Blow Description <u>Got 625102 in Free 63" Std little Drag 65" Std. Had 10,100 Drag 66 Std Got to 42005' Stacked out NO MAKE T.O.H.</u>		

(MISRUN)

Recovery — Total Feet <u> </u>	GIP <u> </u>	Ft. in DC <u> </u>	Ft. in DP <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
BHT <u>117</u> °F Gravity <u> </u> °API D@ <u> </u> °F Corrected Gravity <u> </u> °API <u> </u>			
RW <u> </u> @ <u> </u> °F Chlorides <u> </u> ppm Recovery Chlorides <u>1,100</u> ppm System <u> </u>			

(A) Initial Hydrostatic Mud <u>AK-1 2260</u> <u>Alpine 2000</u>	PSI Recorder No. <u>2357</u>	T-On Location <u>12:30 AM</u>
(B) First Initial Flow Pressure <u> </u>	PSI (depth) <u>4740</u>	T-Started <u>2:30 AM</u>
(C) First Final Flow Pressure <u> </u>	PSI Recorder No. <u>13278</u>	T-Open <u> </u>
(D) Initial Shut-In Pressure <u> </u>	PSI (depth) <u>4755</u>	T-Pulled <u>4:30 AM</u>
(E) Second Initial Flow Pressure <u> </u>	PSI Recorder No. <u>10993</u>	T-Out <u>7:00 AM</u>
(F) Second Final Flow Pressure <u> </u>	PSI (depth) <u>4829</u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure <u> </u>	PSI Initial Opening <u> </u>	Test <input checked="" type="checkbox"/> Hook up 11:550
(Q) Final Hydrostatic Mud <u>2153</u> <u>1974</u>	PSI Initial Shut-in <u> </u>	Jars <input checked="" type="checkbox"/> 200
	Final Flow <u> </u>	Safety Joint <input checked="" type="checkbox"/> 50
	Final Shut-in <u> </u>	Straddle <input checked="" type="checkbox"/> 250
		Circ. Sub <input checked="" type="checkbox"/> N/C
		Sampler <input checked="" type="checkbox"/> n/c 150
		Extra Packer <input checked="" type="checkbox"/> 2 SHALE 300
		Elec. Rec. <input checked="" type="checkbox"/> 150
		Mileage <input checked="" type="checkbox"/> \$35.00 35
		Other <input checked="" type="checkbox"/> Hookup 11 300
		TOTAL PRICE \$ <u>\$1985.00</u>

2:00
4:30
6:30

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 Roger Pearson
Our Representative Mal Colvard

TRILOBITE TESTING L.L.C.

OPERATOR : Key Prod. Comp. Inc.
 WELL NAME: Fleming #2-14
 LOCATION : 14-31S-40W Morton co KS
 INTERVAL : 4642.00 To 4760.00 ft

DATE 10-13-00
 KB 3269.00 ft TICKET NO: 13106 DST #4
 GR 3264.00 ft FORMATION: Marmaton
 TD 6110.00 ft TEST TYPE: CONV. HOOKWALL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----		
PF	0 Rec.	10993	10993	13278	13278	2357	PF Fr.	to	hr
SI	0 Range(Psi)	4250.0	4250.0	4400.0	4400.0	4995.0	IS Fr.	to	hr
SF	0 Clock(hrs)	12HR.	12HR.	12HR.	12HR.	Elet.	SF Fr.	to	hr
FS	0 Depth(ft)	4829.0	4829.0	4755.0	4755.0	4740.0	FS Fr.	to	hr

	Field	1	2	3	4		
A. Init Hydro	2367.0	0.0	0.0	0.0	2037.0	T STARTED	0800 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM	hr
Bl. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN	hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED	1100 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT	1300 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0		
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----	
G. Final Hydro	2260.0	0.0	0.0	0.0	1986.0	Tool Wt.	20000.00 lbs
Inside/Outside	0	0	0	0	I	Wt Set On Packer	40000.00 lbs
						Wt Pulled Loose	0.00 lbs
						Initial Str Wt	50000.00 lbs
						Unseated Str Wt	0.00 lbs
						Bot Choke	0.75 in
						Hole Size	7.78 in
						D Col. ID	2.25 in
						D. Pipe ID	3.80 in
						D.C. Length	0.00 ft
						D.P. Length	4052.00 ft

RECOVERY

Tot Fluid 0.00 ft of 0.00 ft in DC and 0.00 ft in DP
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Had drag going in hole could not get past 4208 TOH.

MUD DATA-----
 Mud Type Chemical
 Weight 8.80 lb/c
 Vis. 66.00 S/L
 W.L. 6.40 in3
 F.C. 0.00 in
 Mud Drop Y 0.0 ft

Amt. of fill 0.00 ft
 Btm. H. Temp. 117.00 F
 Hole Condition Tight
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 3
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Mike Colantonio
 Co. Rep. Roger Pearson
 Contr. Val Energy
 Rig # 1
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: N

*** TOOL DIAGRAM *** CONV. HOOKWALL

WELL NAME: Fleming #2-14

LOCATION : 14-31S-40W Morton co KS

TICKET No. 13106 D.S.T. No. 4 DATE 10-13-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 30

TOTAL TOOL 60

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single 1 Total 93

TOTAL ASSEMBLY 153

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands66 Single Total 4052

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4205

TOTAL DEPTH 6110

TOTAL DRILL PIPE ABOVE K.B.

REMARKS:

SAMPLER DATA

□	P.O. SUB Top tool	4612
□	C.O. SUB 1ft	4613
□	S.I. TOOL Sterling	4618
□	3ft Sampler	4621
□	HMV Sterling	4626
□	JARS Sterling	4631
□	SAFETY JOINT Bowens	4633
■	PACKER 5ft	4638
■	PACKER 5ft Shale packer	4642
□	DEPTH 1ft	4643
□	ANCHOR 2ft perf	4645
□	95ft Pipe & Subs	4740
□	Alpine Rec 15ft Perf	4740 4755
□	AK-1 Rec	4755
□	1ft Blank off sub	4756
■	PACKER 5ft Shale packer	4760
□	5ft Hookwall	4763
□	31ft pipe & subs	4794
□	AK-1 REC	4794
□	BULLNOSE 1ft sub	4795
□	T.D. 1ft drill bit	4796

13106 DST#4 Fleming #2-14 Key Prod. Comp. Inc.

TEST HISTORY

Flag Points
(Min.) PK PSIG
R: 0.00 2037.00
Q: 0.00 1986.51

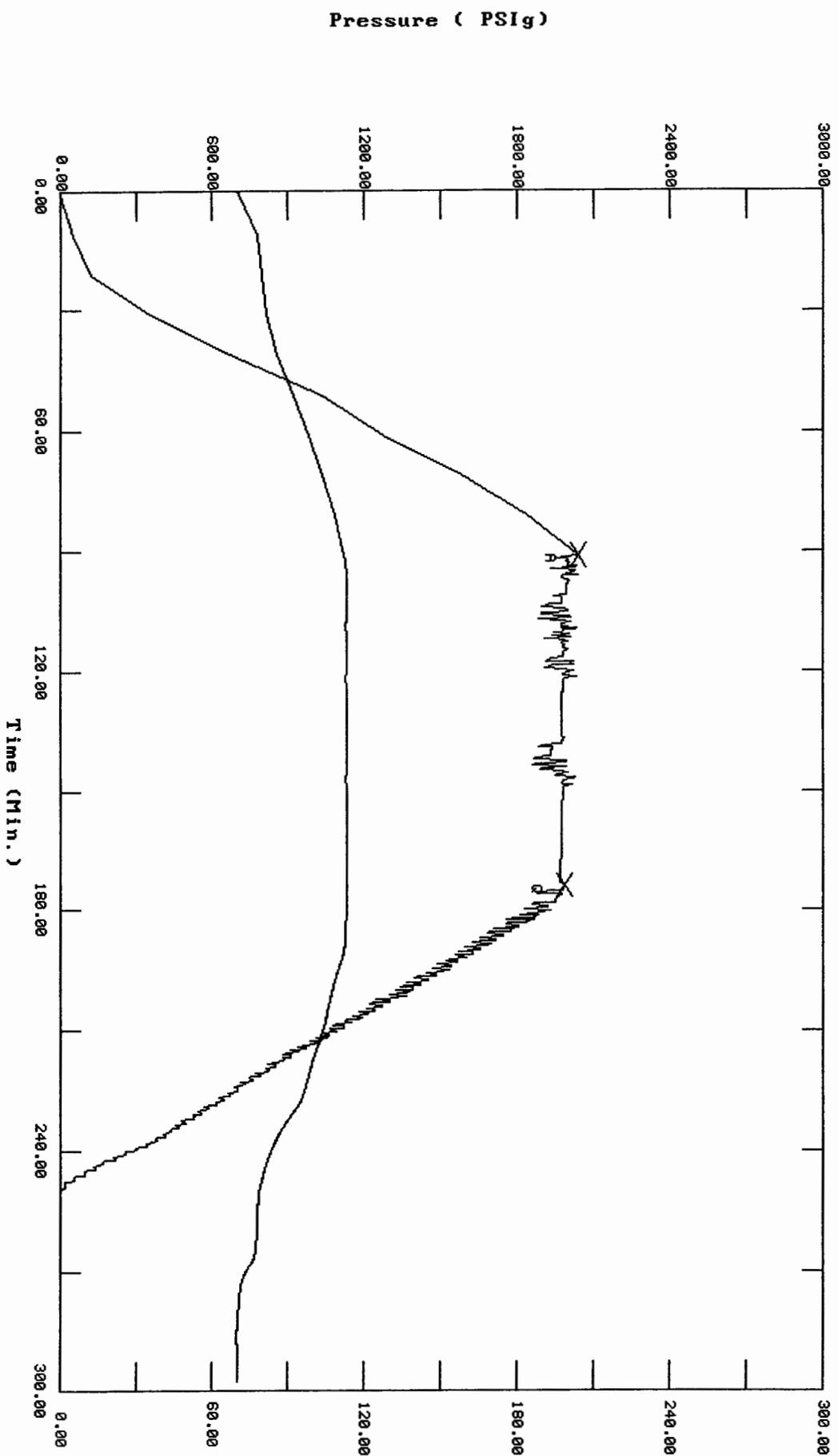
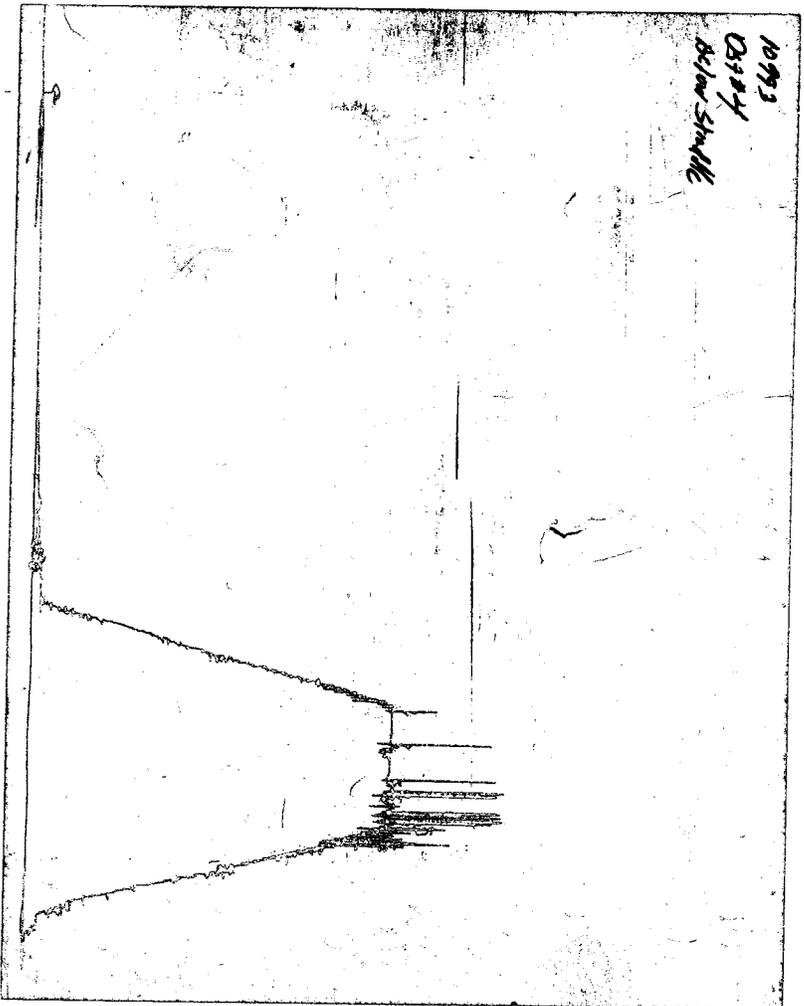
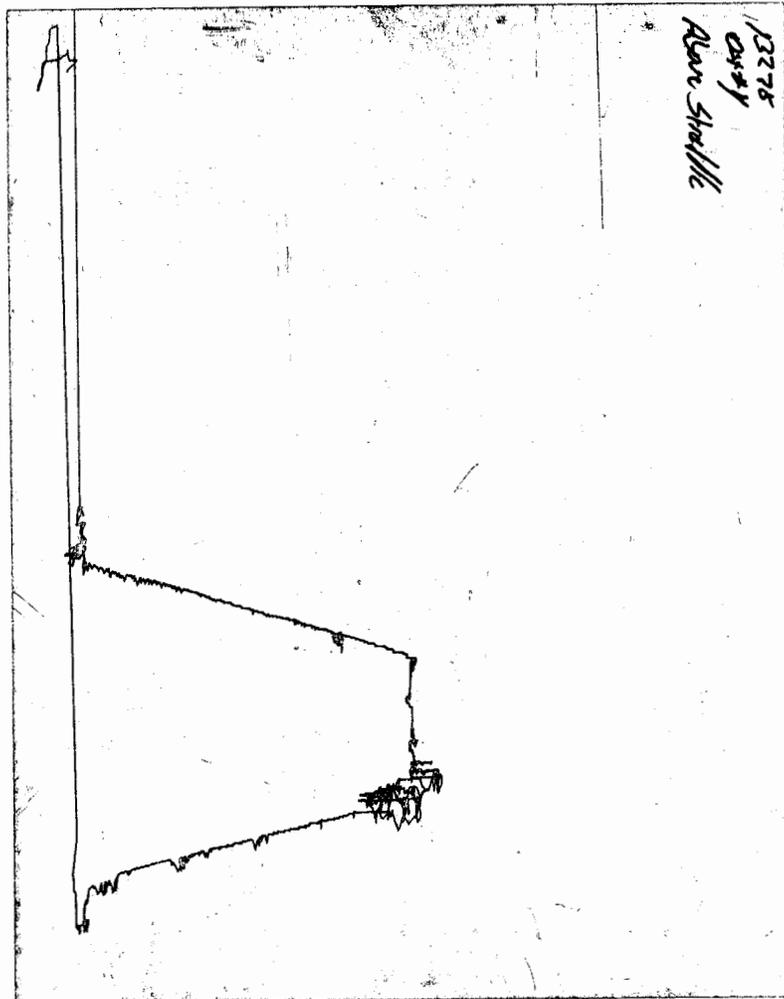


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13106

Test Ticket

Well Name & No. Fleming # 2-14 Test No. #4 Date 10-13-00
 Company Key Prod. Comp. Inc. Zone Tested Marmaton
 Address Tulsa OK Elevation 3267 KB 3267 GL
 Co. Rep / Geo. Roger Pearson Cont. Valency Rj #1 Est. Ft. of Pay Por. %
 Location: Sec. 14 Twp. 31-s Rge. 40W Co. Martin State Ks
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4642 - 4760 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs.
 Anchor Length 118' Wt. Set Lbs. 40,000 Wt. Pulled Loose/Lbs.
 Top Packer Depth 4637 Tool Weight 2,000
 Bottom Packer Depth 4760 Hole Size — 7 7/8" X Rubber Size — 6 3/4" X
 Total Depth 6110 Wt. Pipe Run Drill Collar Run
 Mud Wt. 8.8 LCM 1st Vis. 58 WL 6.4 Drill Pipe Size 4.5 x 0 Ft. Run
 Blow Description Had Drag going in Hole Could not get Past 4208 T.O.H.

Recovery — Total Feet	GIP	Ft. in DC		Ft. in DP	
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
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud

BHT 117 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 100 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2367</u>	<u>2037</u>	<u>2357</u>	<u>12:30 AM</u>
(B) First Initial Flow Pressure			(depth) <u>4740</u>	T-Started <u>8:00 AM</u>
(C) First Final Flow Pressure			PSI Recorder No. <u>13278</u>	T-Open _____
(D) Initial Shut-In Pressure			PSI (depth) <u>4755</u>	T-Pulled <u>11:00 AM</u>
(E) Second Initial Flow Pressure			PSI Recorder No. <u>10993</u>	T-Out <u>1:00 PM</u>
(F) Second Final Flow Pressure			PSI (depth) <u>4828</u>	T-Off Location _____
(G) Final Shut-in Pressure			PSI Initial Opening _____	Test <u>Hook Wall 550</u>
(Q) Final Hydrostatic Mud	<u>2260</u>	<u>1986</u>	PSI Initial Shut-in _____	Jars <u>200</u>
			Final Flow _____	Safety Joint <u>50</u>
			Final Shut-in _____	Straddle <u>250</u>
				Circ. Sub <u>N/C</u>
				Sampler <u>N/C</u> <u>150</u>
				Extra Packer <u>2 5/8" K</u> <u>300</u>
				Elec. Rec. <u>150</u>
				Mileage _____
				Other <u>Hook Wall</u> <u>300</u>

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Approved By Roger Pearson
 Our Representative [Signature]

TOTAL PRICE \$ 1950.00
 1.5 hrs 45 / 1995

7:30
3:00
10:30