

15-063-21535

TRILOBITE TESTING L.L.C.

20-14s-30w

OPERATOR : Shields Drilling

DATE 5-28-99

WELL NAME: Sharp 'A' #2

KB 2882.00 ft

TICKET NO: 11918

DST #1

LOCATION : 20-14s-30w Gove co KS

GR 2877.00 ft

FORMATION: KC 70

INTERVAL : 4040.00 To 4070.00 ft

TD 4070.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13309	13309	2346			PF Fr. 1845 to 1915 hr
SI 30 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1915 to 1945 hr
SF 30 Clock(hrs)	12	12	alpin			SF Fr. 1945 to 2015 hr
FS 30 Depth(ft)	4067.0	4067.0	4041.0	0.0	0.0	FS Fr. 2015 to 2045 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2002.0	0.0	0.0	T STARTED 0700 hr
B. First Flow	0.0	0.0	20.0	0.0	0.0	T ON BOTM 1841 hr
B1. Final Flow	0.0	0.0	24.0	0.0	0.0	T OPEN 1845 hr
C. In Shut-in	0.0	0.0	1138.0	0.0	0.0	T PULLED 2045 hr
D. Init Flow	0.0	0.0	24.0	0.0	0.0	T OUT 1258 hr
E. Final Flow	0.0	0.0	27.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1115.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	1949.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 52000.00 lbs
						Unseated Str Wt 52000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.50 in
						D.C. Length 0.00 ft
						D.P. Length 3219.00 ft
						H.W. I.D 3.40 in
						H.W. Length 828.00 ft

RECOVERY

Tot Fluid 5.00 ft of 0.00 ft in DC and 5.00 ft in DP
 5.00 ft of drilling mud 100% mud
 0.00 ft of
 0.00 ft of

SALINITY 3000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak blow died in 6 mins.
 Initial Shut-in:
 No return
 Final Flow:
 No blow
 Final Shut-in:
 No return

MUD DATA-----	Chemical
Mud Type	
Weight	9.30 lb/cf
Vis.	49.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Scott Oatsdean
Contr.	Shields
Rig #	1
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Sharp 'A' #2

LOCATION : 20-14-30

TICKET No. 11918 D.S.T. No. 1 DATE 5-28-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 22

INTERVAL TOOL

TOTAL PACKERS AND ANCHOR 30

TOTAL TOOL 52

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 52

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands65 Single 1 Total 4047

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4099

TOTAL DEPTH 4070

TOTAL DRILL PIPE ABOVE K.B. 29

REMARKS:

P.O. SUB	
C.O. SUB 1'	4017
S.I. TOOL 5'	4023
HMV 5'	4028
JARS n/a	
SAFETY JOINT 2'	4030
PACKER top	4035
PACKER bottom	4040
DEPTH 4040	
STUBB 1'	4041
ANCHOR alpine recorder	4041
24' perf	4065
ak-1 recorder	4067
T.C. DEPTH	
BULLNOSE 5' bullplug	4070
T.D.	4070

11918 DST #1 Sharp 'A' Shields Drilg.

TEST HISTORY

Flag Points

	t (Min.)	P (PSig)
R:	0.00	2002.07
B:	0.00	20.11
C:	30.00	24.38
D:	29.00	1138.17
E:	0.00	24.26
F:	30.00	27.46
G:	28.00	1115.42
Q:	0.00	1949.64

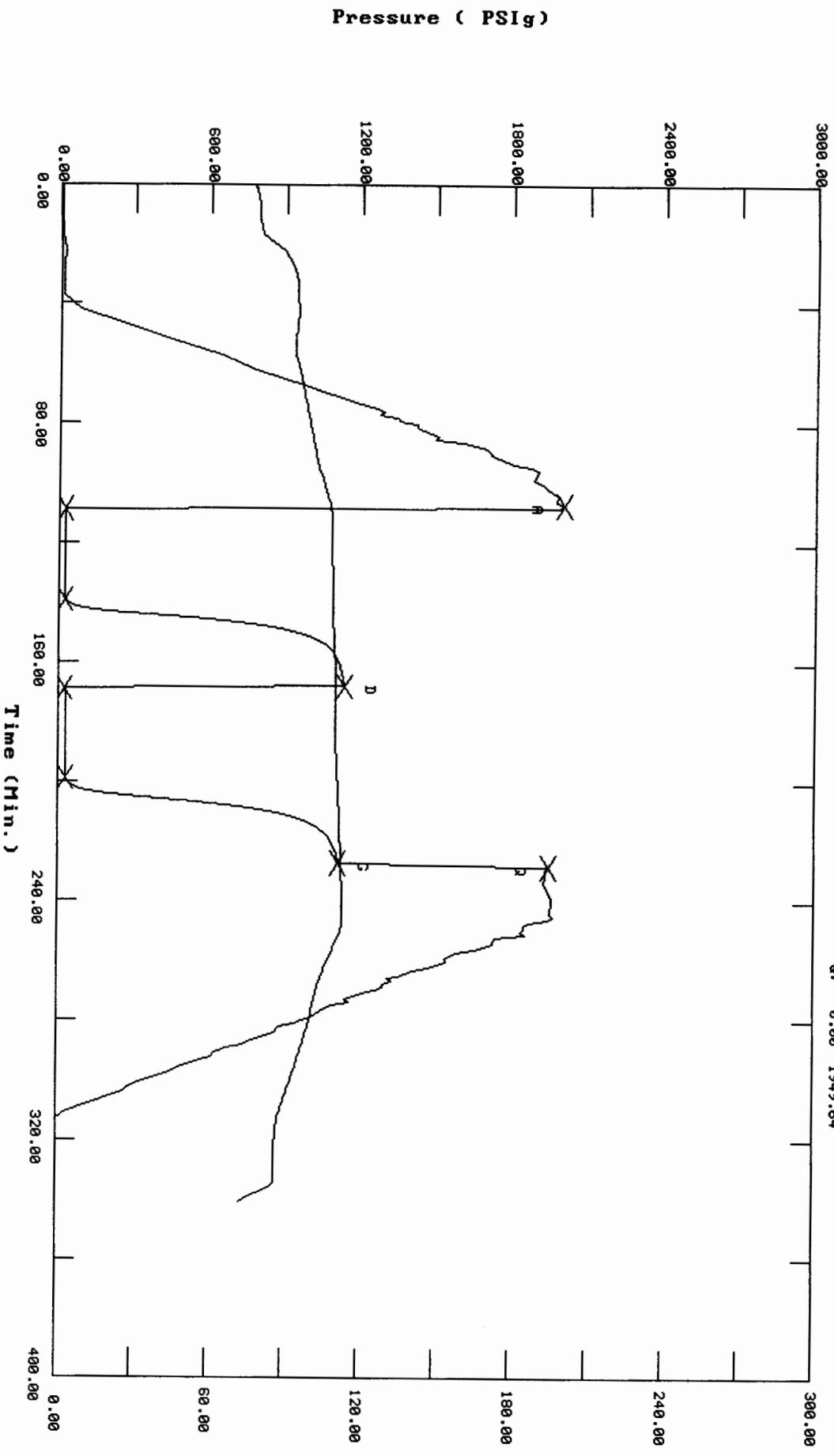
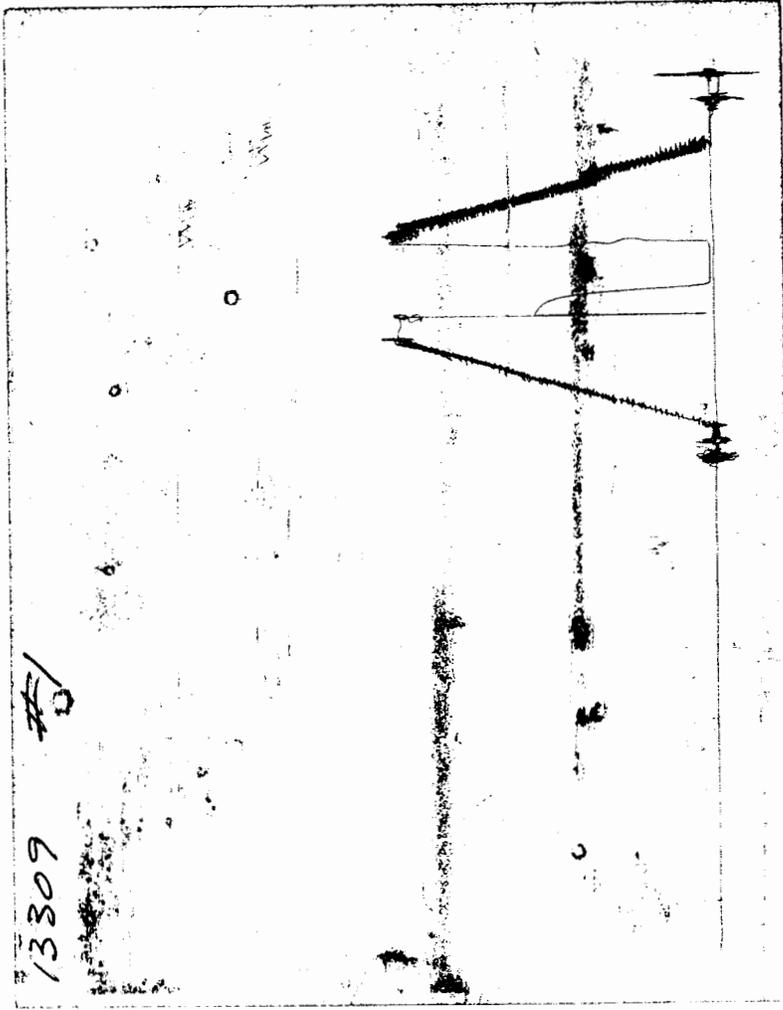


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 11918

Test Ticket

Well Name & No. <u>Sharp A #2</u>	Test No. <u>1</u>	Date <u>5-28-99</u>
Company <u>Shields Oil Prod.</u>	Zone Tested <u>KC 70</u>	
Address _____	Elevation <u>2882</u> KB <u>2877</u> GL	
Co. Rep / Geo. <u>Scott Oatsdean</u>	Cont. <u>Shields #1</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>20</u> Twp. <u>14</u> Rge. <u>30</u> Co. <u>Goose</u> State <u>KS</u>		
No. of Copies <u>None</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) _____

Interval Tested <u>4040</u> <u>4070</u>	Initial Str Wt./Lbs. <u>52,000</u>	Unseated Str Wt./Lbs. <u>52,000</u>
Anchor Length _____ <u>30</u>	Wt. Set Lbs. <u>26,000</u>	Wt. Pulled Loose/Lbs. <u>65,000</u>
Top Packer Depth _____ <u>4035</u>	Tool Weight <u>4,000</u>	
Bottom Packer Depth _____ <u>4040</u>	Hole Size — <u>7 7/8"</u> ✓	Rubber Size — <u>6 3/4"</u> ✓
Total Depth _____ <u>4070</u>	Wt. Pipe Run <u>828 #4</u>	Drill Collar Run _____
Mud Wt. <u>9.3</u> LCM <u>Tr</u> Vis. <u>49</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2 #4</u>	Ft. Run <u>3219'</u>
Blow Description <u>Weak blow died in 6 min</u>		

No return
No blow
No return

Recovery — Total Feet <u>5'</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>5'</u>
Rec. <u>5'</u> Feet Of <u>Drilg Mud</u>	%gas _____	%oil _____	%water <u>100</u> %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
BHT <u>112°</u> °F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F	Chlorides _____ ppm Recovery	Chlorides <u>3000</u> ppm System	

(A) Initial Hydrostatic Mud _____	AK-1	Alpine <u>2002</u>	PSI Recorder No. <u>2346</u>	T-On Location <u>18:00 p.m.</u>
(B) First Initial Flow Pressure _____		<u>20</u>	(depth) <u>4041'</u>	T-Started <u>19:00 p.m.</u>
(C) First Final Flow Pressure _____		<u>24</u>	PSI Recorder No. <u>13309</u>	T-Open <u>20:45 p.m.</u>
(D) Initial Shut-In Pressure _____		<u>1138</u>	(depth) <u>4067'</u>	T-Pulled <u>22:45 p.m.</u>
(E) Second Initial Flow Pressure _____		<u>24</u>	PSI Recorder No. _____	T-Out <u>12:58 am</u>
(F) Second Final Flow Pressure _____		<u>27</u>	(depth) _____	T-Off Location _____
(G) Final Shut-in Pressure _____		<u>1115</u>	PSI Initial Opening <u>30</u>	Test <u>X</u> <u>700</u>
(Q) Final Hydrostatic Mud _____		<u>1949</u>	PSI Initial Shut-in <u>30</u>	Jars _____
			Final Flow <u>30</u>	Safety Joint <u>X</u> <u>50</u>
			Final Shut-in <u>30</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 Scott A Oatsdean

Our Representative Shawn B...

Circ. Sub X N/C

Sampler _____

Extra Packer _____

Elec. Rec. X 150

Mileage _____

Other _____

TOTAL PRICE \$ 900

TRILOBITE TESTING L.L.C.

OPERATOR : Shields Drilling Prod. DATE 5-29-99
 WELL NAME: Sharp A #2 KB 2882.00 ft TICKET NO: 11919 DST #2
 LOCATION : 20-14s-30w Gove co KS GR 2877.00 ft FORMATION: KC
 INTERVAL : 4160.00 To 4235.00 ft TD 4235.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13309	13309	2346			PF Fr. 2200 to 2230 hr
SI 45	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 2230 to 2315 hr
SF 45	Clock(hrs)	12	12	alpin			SF Fr. 2315 to 2400 hr
FS 60	Depth(ft)	4232.0	4232.0	4168.0	0.0	0.0	FS Fr. 2400 to 0100 hr

	Field	1	2	3	4	
A. Init Hydro	2124.0	2100.0	2064.0	0.0	0.0	T STARTED 2030 hr
B. First Flow	47.0	44.0	28.0	0.0	0.0	T ON BOTM 2157 hr
B1. Final Flow	70.0	59.0	61.0	0.0	0.0	T OPEN 2200 hr
C. In Shut-in	1067.0	1059.0	1061.0	0.0	0.0	T PULLED 0100 hr
D. Init Flow	82.0	79.0	62.0	0.0	0.0	T OUT 0300 hr
E. Final Flow	106.0	101.0	96.0	0.0	0.0	
F. Fl Shut-in	1044.0	1050.0	1040.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2112.0	2091.0	2042.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 72000.00 lbs
						Initial Str Wt 54000.00 lbs
						Unseated Str Wt 54000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.50 in
						D.C. Length 0.00 ft
						D.P. Length 3376.00 ft
						H.W. I.D 3.40 in
						H.W. Length 828.00 ft

RECOVERY

Tot Fluid 120.00 ft of 0.00 ft in DC and 120.00 ft in DP
 120.00 ft of drilling mud w/ oil scum 100% mud
 0.00 ft of
 0.00 ft of

SALINITY 3000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.50 lb/cf
Vis.	47.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:
 1/4" at open built to 1 1/2"
 Initial Shut-in:
 No return
 Final Flow:
 Weak surface blow in 9 mins. 1/4"
 built to 3/4"
 Final Shut-in:
 No return

Amt. of fill	0.00 ft
Btm. H. Temp.	115.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00

SAMPLES:
 SENT TO:

Reversed Out N
 Tool Chased N
 Tester Shane McBride
 Co. Rep. Scott Oatsdean
 Contr. Shields
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Sharp A #2

LOCATION : 20-14-30

TICKET No. 11919 D.S.T. No. 2 DATE 5-29-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 22

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 14

TOTAL TOOL 36

DRILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STND.Stands Single Total

P. ANCHOR STND.Stands 1 Single Total 61

TOTAL ASSEMBLY 97

C. ABOVE TOOLS.Stands Single Total

P. ABOVE TOOLS.Stands 68 Single Total 4143

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4240

TOTAL DEPTH 4235

TOTAL DRILL PIPE ABOVE K.B. 5

MARKS:

P.O. SUB	
C.O. SUB 1'	4137
S.I. TOOL 5'	4143
HMV 5'	4148
JARS n/a	
SAFETY JOINT 2'	4150
PACKER top	4155
PACKER bottom	4160
DEPTH 4160	
STUBB 1'	4161
ANCHOR 6'Perf	4167
1' c.o.	4168
alpin recorder	4168
61' drillpipe	4229
1' c.o.	4230
T.C.	
DEPTH	
ak-1 recorder	4232
BULLNOSE 5' bullplug	4235
T.D.	4235

TEST HISTORY

11919 DST #2 Sharp A Shields Drilg Prod.

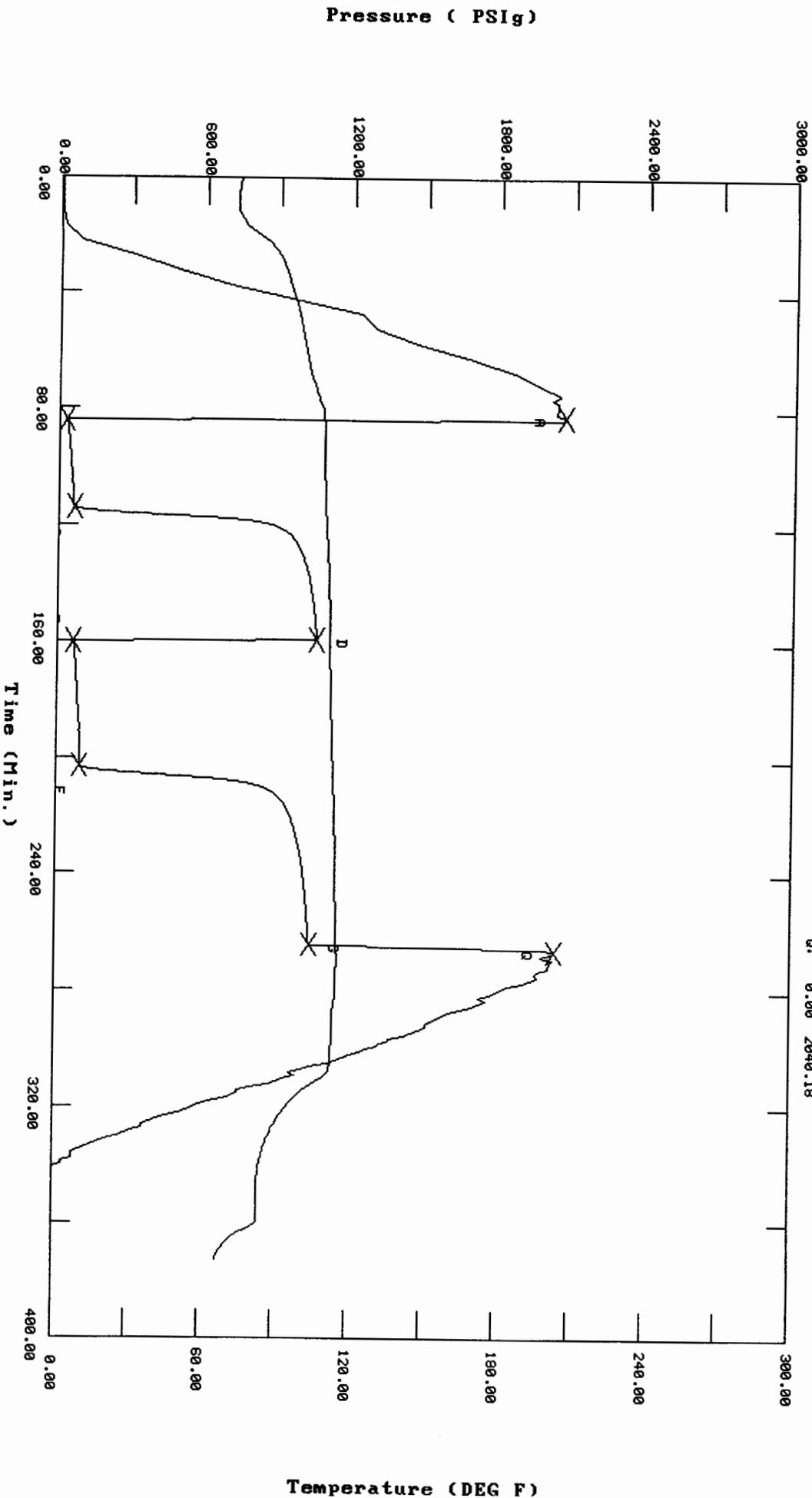
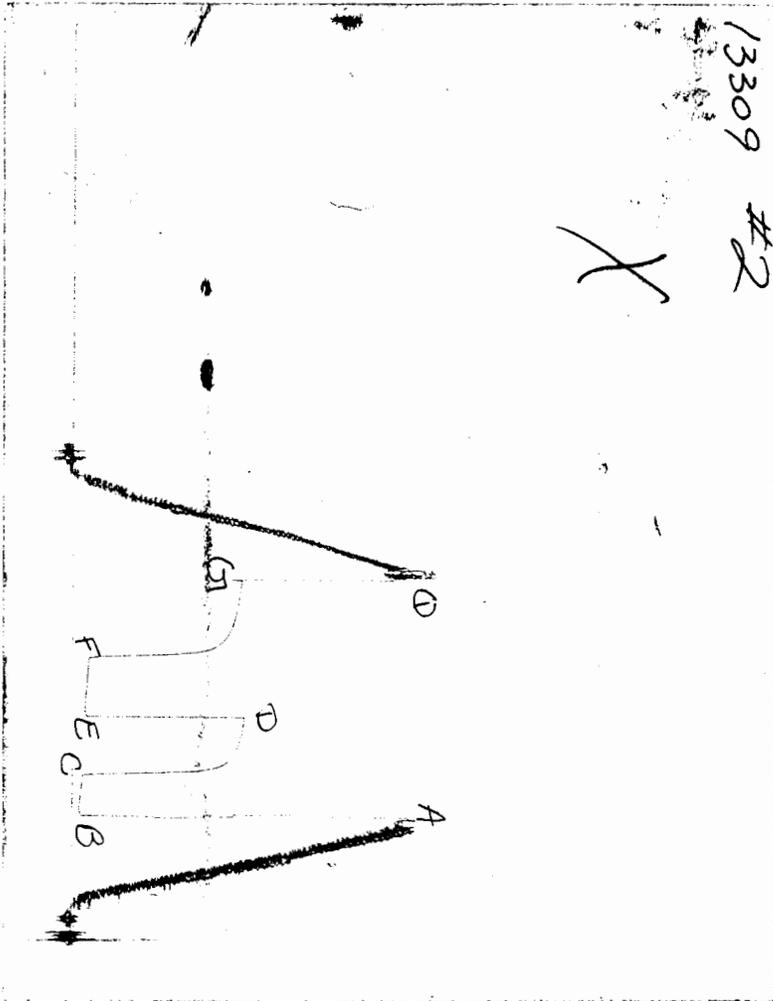


CHART PAGE

13309

#2

X



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 11919

Test Ticket

Well Name & No. <u>Sharp A #2</u>		Test No. <u>2</u>	Date <u>5-29-99</u>
Company <u>Shields Oil Prod.</u>		Zone Tested <u>KC</u>	
Address _____		Elevation <u>2882</u> KB <u>2877</u> GL	
Co. Rep / Geo. <u>Scott Oatsleant Cont. Shields #1</u>		Est. Ft. of Pay _____	Por. _____ %
Location: Sec. <u>20</u>	Twp. <u>14</u>	Rge. <u>30</u>	Co. <u>Gove</u> State <u>KS</u>
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u>N</u>		Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) _____

Interval Tested <u>4160</u>	<u>4235</u>	Initial Str Wt./Lbs. <u>54000</u>	Unseated Str Wt./Lbs. <u>54000</u>
Anchor Length _____	<u>75</u>	Wt. Set Lbs. <u>26000</u>	Wt. Pulled Loose/Lbs. <u>73000</u>
Top Packer Depth _____	<u>4155</u>	Tool Weight <u>4000</u>	
Bottom Packer Depth _____	<u>4160</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth _____	<u>4235</u>	Wt. Pipe Run <u>828 x 11</u>	Drill Collar Run _____
Mud Wt. <u>9.5</u> LCM _____ Vis. <u>47</u> WL <u>88</u>		Drill Pipe Size <u>4 1/2 FH</u>	Ft. Run <u>3376'</u>
Blow Description <u>1/4" @ open built to 1 1/2" in.</u>			
<u>No return</u>			
<u>Weak surface blow in 9 min 1/4" in. built to 3/4" in.</u>			
<u>No return</u>			

Recovery — Total Feet <u>120'</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>120'</u>	Feet Of <u>Drily mud sec of oil</u>	%gas <u>sec</u>	%oil _____ %water <u>100</u> %mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
BHT <u>115°</u>	°F Gravity _____	°API D@ _____	°F Corrected Gravity _____ °API _____
RW _____ @ _____	°F Chlorides _____	ppm Recovery _____	Chlorides <u>3,000</u> ppm System

(A) Initial Hydrostatic Mud	<u>AK-1 2124</u>	<u>Alpine 2064</u>	PSI Recorder No. <u>2346</u>	T-On Location <u>19:55 p.m.</u>
(B) First Initial Flow Pressure	<u>47</u>	<u>28</u>	PSI (depth) <u>4168'</u>	T-Started <u>20:30 p.m.</u>
(C) First Final Flow Pressure	<u>70</u>	<u>61</u>	PSI Recorder No. <u>13309</u>	T-Open <u>22:00 p.m.</u>
(D) Initial Shut-In Pressure	<u>1067</u>	<u>1061</u>	PSI (depth) <u>4232'</u>	T-Pulled <u>01:00 p.m.</u>
(E) Second Initial Flow Pressure	<u>82</u>	<u>62</u>	PSI Recorder No. _____	T-Out <u>03:00 A.M.</u>
(F) Second Final Flow Pressure	<u>106</u>	<u>96</u>	PSI (depth) _____	T-Off Location <u>03:30 A.M.</u>
(G) Final Shut-in Pressure	<u>1044</u>	<u>1040</u>	PSI Initial Opening <u>30</u>	Test X <u>700</u>
(Q) Final Hydrostatic Mud	<u>2112</u>	<u>2042</u>	PSI Initial Shut-in _____	Jars _____
			Final Flow <u>45</u>	Safety Joint <u>X 50</u>
			Final Shut-in <u>60</u>	Straddle _____
				Circ. Sub <u>X N/C</u>
				Sampler _____
				Extra Packer _____
				Elec. Rec. <u>X 150</u>
				Mileage _____
				Other _____
				TOTAL PRICE \$ <u>900</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 _____
 Our Representative Shawn B...

TRILOBITE TESTING L.L.C.

OPERATOR : Shields Oil Prod.

DATE 5-31-99

WELL NAME: Sharp A #2

KB 2882.00 ft

TICKET NO: 11395 DST #3

LOCATION : 20-14s-30w Gove co KS

GR 2877.00 ft

FORMATION: Myric Station

INTERVAL : 4435.00 To 4465.00 ft

TD 4465.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 7	Rec.	11058	11058	2346			PF Fr. 0745 to 0815 hr
SI 45	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0815 to 0900 hr
SF 45	Clock(hrs)	12	12	alpin			SF Fr. 0900 to 0945 hr
FS 60	Depth(ft)	4460.0	4460.0	4436.0	0.0	0.0	FS Fr. 0945 to 1045 hr

	Field	1	2	3	4	
A. Init Hydro	2502.0	2309.0	2230.0	0.0	0.0	T STARTED 0555 hr
B. First Flow	100.0	107.0	25.0	0.0	0.0	T ON BOTM 0742 hr
B1. Final Flow	122.0	124.0	84.0	0.0	0.0	T OPEN 0745 hr
C. In Shut-in	986.0	990.0	968.0	0.0	0.0	T PULLED 1045 hr
D. Init Flow	155.0	162.0	91.0	0.0	0.0	T OUT 1310 hr
E. Final Flow	188.0	194.0	174.0	0.0	0.0	
F. Fl Shut-in	963.0	969.0	953.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2479.0	2309.0	2211.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 56000.00 lbs
						Unseated Str Wt 57000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.50 in
						D.C. Length 0.00 ft
						D.P. Length 3593.00 ft
						H.W. I.D 3.50 in
						H.W. Length 828.00 ft

RECOVERY

Tot Fluid 390.00 ft of 0.00 ft in DC and 390.00 ft in DP
 270.00 ft of Gas in pipe
 90.00 ft of Slightly gassy oil cut mud
 0.00 ft of 10% gas 20% oil 70% mud
 90.00 ft of Clean gassy oil 25% gas 75% oil
 90.00 ft of Gassy mud cut oil 20% gas 60% oil 20% mud
 120.00 ft of Gassy slightly water and mud cut oil
 0.00 ft of 10% gas 60% oil 10% water 20% mud
 0.00 ft of

TOOL DATA-----
 Tool Wt. 4000.00 lbs
 Wt Set On Packer 26000.00 lbs
 Wt Pulled Loose 65000.00 lbs
 Initial Str Wt 56000.00 lbs
 Unseated Str Wt 57000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 0.00 in
 D. Pipe ID 3.50 in
 D.C. Length 0.00 ft
 D.P. Length 3593.00 ft
 H.W. I.D 3.50 in
 H.W. Length 828.00 ft

SALINITY 0.00 P.P.M. A.P.I. Gravity 35.00

MUD DATA-----

Mud Type Chemical
 Weight 9.40 lb/cf
 Vis. 46.00 S/L
 W.L. 8.80 in3
 F.C. 0.00 in
 Mud Drop N

BLOW DESCRIPTION

Initial Flow:
 Bottom of bucket in 14 mins.
 Initial Shut-in:
 Bleed off 1 1/2 mins. return in 1/2 min. built to 1"
 Final Flow:
 Bottom of bucket in 11 mins.
 Final Shut-in:
 Bled off in 2 mins. returned in 2 mins. built to 1"

Amt. of fill 0.00 ft
 Btm. H. Temp. 128.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00

SAMPLES:

SENT TO:

Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Shane McBride
 Co. Rep. Scott Oatsdean
 Contr. Shields
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

11395 DST #3 Sharp A #2 Shields Oil Prod.

TEST HISTORY

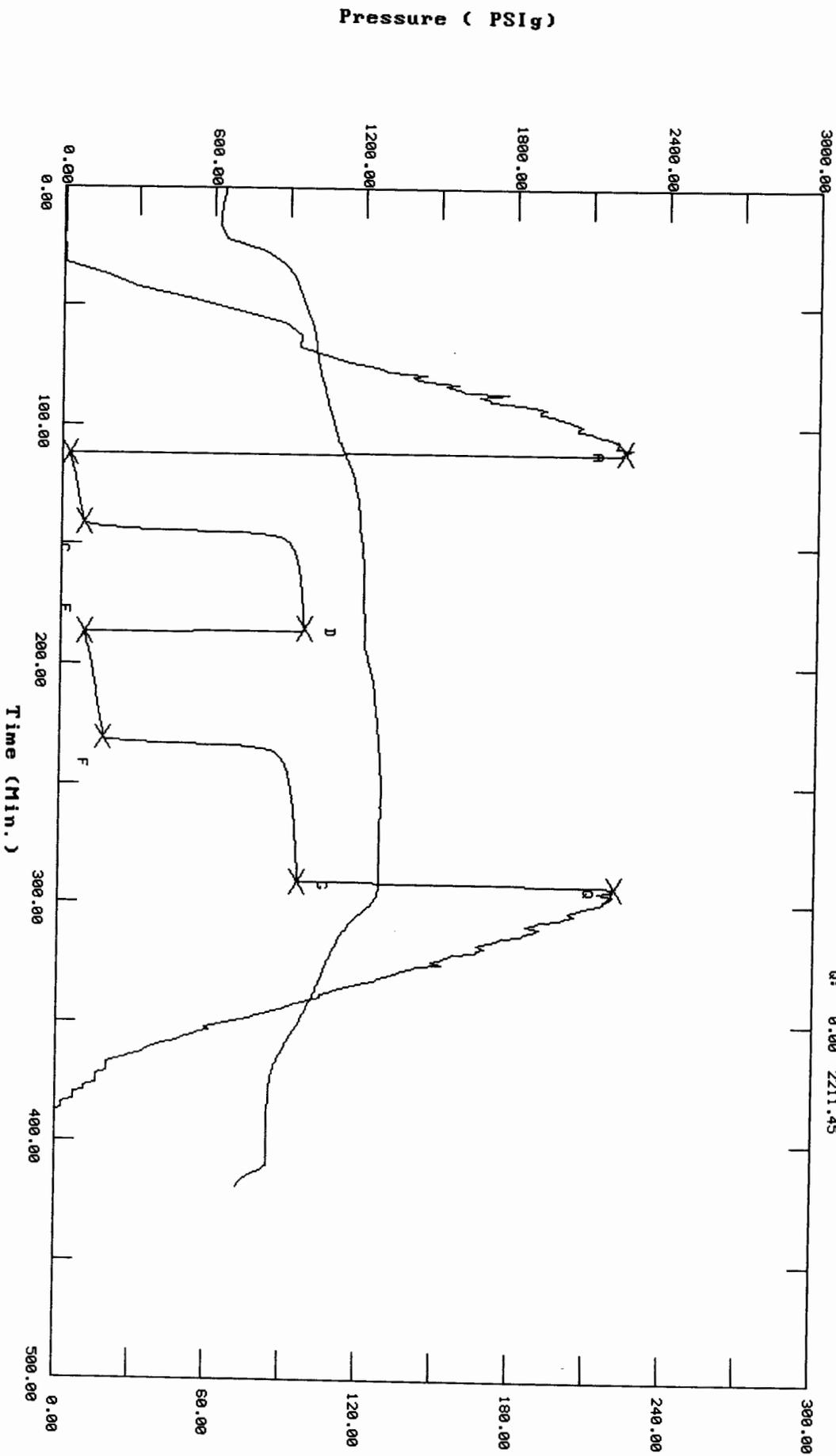
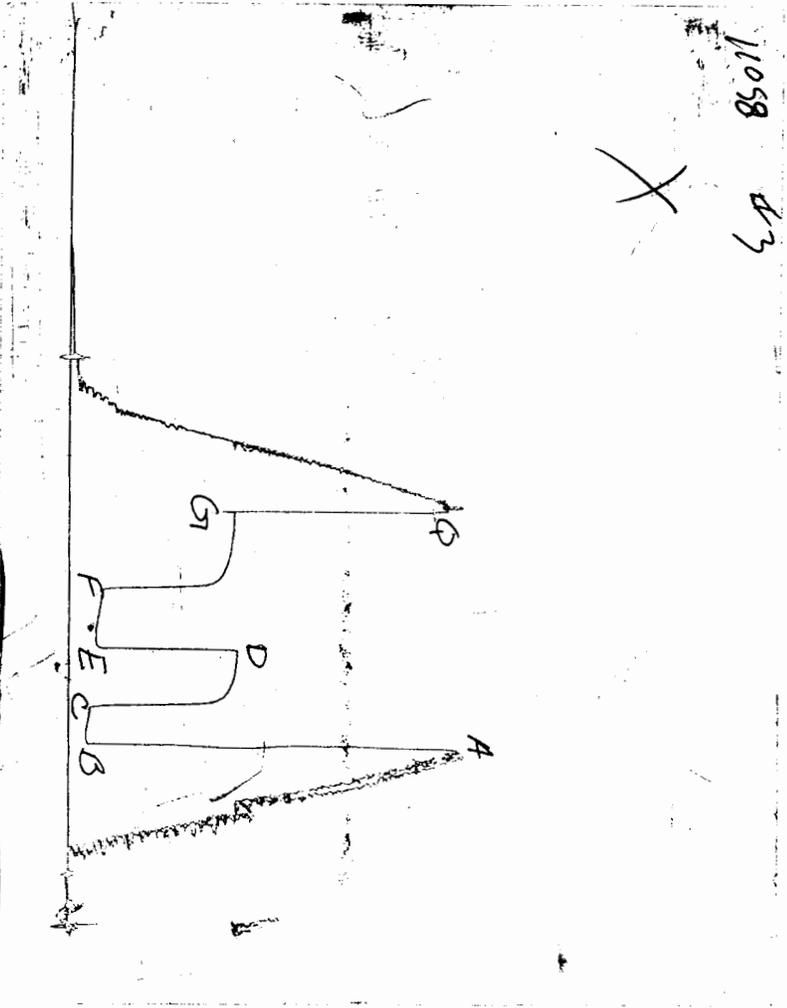


CHART PAGE

11058 A3

X



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11395

Well Name & No. Shap A #2 Test No. 3 Date 5-31-99
 Company Shields Oil Prod. Zone Tested myric Station
 Address _____ Elevation 2882' KB 2877' GL
 Co. Rep / Geo. Scott Oatsdean Cont. Shields #1 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 20 Twp. 14 Rge. 30 Co. Goar State Ks
 No. of Copies N/A Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) _____

Interval Tested 4435 4465 Initial Str Wt./Lbs. 56,000 Unseated Str Wt./Lbs. 57,000
 Anchor Length _____ 30 Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth _____ 4430 Tool Weight 4,000
 Bottom Packer Depth _____ 4435 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth _____ 4465 Wt. Pipe Run 828' x 1/2" Drill Collar Run _____
 Mud Wt. 9.4 LCM — Vis. 46 WL 8.8 Drill Pipe Size 4 1/2 FH Ft. Run 3593'
 Blow Description B.O.B in 14 min
Bleed off 1 1/2 min - return in 1/2 min, built to 1" w.
B.O.B in 11 min
Bleed off 2 min - return in 2 min, built to 1" w.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>390'</u>	<u>—</u>	<u>270'</u>	<u>390'</u>
Rec. <u>90</u> Feet Of <u>Slightly Gassy Oil cut mud</u>	<u>10 % gas</u>	<u>20 % oil</u>	<u>% water 70 % mud</u>
Rec. <u>90</u> Feet Of <u>Clean Gassy Oil</u>	<u>25 % gas</u>	<u>75 % oil</u>	<u>% water % mud</u>
Rec. <u>90</u> Feet Of <u>Gassy mud cut Oil</u>	<u>20 % gas</u>	<u>60 % oil</u>	<u>% water 20 % mud</u>
Rec. <u>120</u> Feet Of <u>Gassy slightly Water & mud cut Oil</u>	<u>10 % gas</u>	<u>60 % oil</u>	<u>10 % water 20 % mud</u>
Rec. _____ Feet Of _____	<u>% gas</u>	<u>% oil</u>	<u>% water % mud</u>
BHT <u>128°</u> °F Gravity <u>35.5</u> °API D@ <u>65</u> °F Corrected Gravity <u>35</u> °API			
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides <u>3,000</u> ppm System			

(A) Initial Hydrostatic Mud	<u>2502</u>	<u>2230</u>	PSI	Recorder No.	<u>2346</u>	T-Started	<u>05:55 a.m.</u>
(B) First Initial Flow Pressure	<u>100</u>	<u>25</u>	PSI	(depth)	<u>4436'</u>	T-Open	<u>07:45 a.m.</u>
(C) First Final Flow Pressure	<u>122</u>	<u>89</u>	PSI	Recorder No.	<u>11058</u>	T-Pulled	<u>10:45 a.m.</u>
(D) Initial Shut-in Pressure	<u>986</u>	<u>968</u>	PSI	(depth)	<u>4460'</u>	T-Out	<u>13:10 p.m.</u>
(E) Second Initial Flow Pressure	<u>155</u>	<u>91</u>	PSI	Recorder No.			
(F) Second Final Flow Pressure	<u>188</u>	<u>174</u>	PSI	(depth)			
(G) Final Shut-in Pressure	<u>963</u>	<u>953</u>	PSI	Initial Opening	<u>30</u>	Test	<u>x 700</u>
(H) Final Hydrostatic Mud	<u>2479</u>	<u>2211</u>	PSI	Initial Shut-in	<u>45</u>	Jars	
	<u>AK-1</u>	<u>AK-1</u>		Final Flow	<u>45</u>	Safety Joint	<u>x 50</u>
				Final Shut-in	<u>60</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 Scott A Oatsdean
 Our Representative Shawn M. B. A.

Circ. Sub 1 N/C
 Sampler _____
 Extra Packer _____
 Elect. Rec. x 150
 Other _____
 TOTAL PRICE \$ 900

TRILOBITE TESTING L.L.C.

OPERATOR : Shields Oil Prod.

DATE 6-1-99

WELL NAME: Sharp A #2

KB 2882.00 ft

TICKET NO: 11396 DST #4

LOCATION : 20-14s-30w Gove co KS

GR 2877.00 ft

FORMATION: Johnson

INTERVAL : 4520.00 To 4570.00 ft

TD 4570.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 11 Rec.	11058	11058	2346			PF Fr. 0630 to 0641 hr
SI 0 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. to hr
SF 0 Clock(hrs)	12	12	alpin			SF Fr. to hr
FS 0 Depth(ft)	4565.0	4565.0	4534.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2238.0	0.0	0.0	T STARTED 0430 hr
B. First Flow	0.0	0.0	156.0	0.0	0.0	T ON BOTM 0627 hr
B1. Final Flow	0.0	0.0	691.0	0.0	0.0	T OPEN 0630 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 0641 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 0935 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	0.0	0.0	2187.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 82000.00 lbs
						Initial Str Wt 62000.00 lbs
						Unseated Str Wt 67000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.50 in
						D.C. Length 120.00 ft
						D.P. Length 3595.00 ft
						H.W. I.D 3.50 in
						H.W. Length 828.00 ft

RECOVERY

Tot Fluid 837.00 ft of 120.00 ft in DC and 717.00 ft in DP
 837.00 ft of Drilling mud
 0.00 ft of
 0.00 ft of

SALINITY 3000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	42.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flwo:
 Bottom of bucket in 1 1/2 mins.
 slowly lost packer seat pulled tool

Amt. of fill	0.00 ft
Btm. H. Temp.	116.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out Y	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Scott Oatsdean
Contr.	Shields
Rig #	1
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Sharp A #2

LOCATION : 20-14s-30w Gove co KS

TICKET No. 11396 D.S.T. No. 4 DATE 6-1-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 22

INTERVAL TOOL

TOTAL PACKERS AND ANCHOR 19

TOTAL TOOL 41

DRILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STND.Stands Single Total

P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 72

C. ABOVE TOOLS.Stands2 Single Total 120

P. ABOVE TOOLS.Stands73 Single 1 Total 4392

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4584

TOTAL DEPTH 4570

TOTAL DRILL PIPE ABOVE K.B. 14

REMARKS:

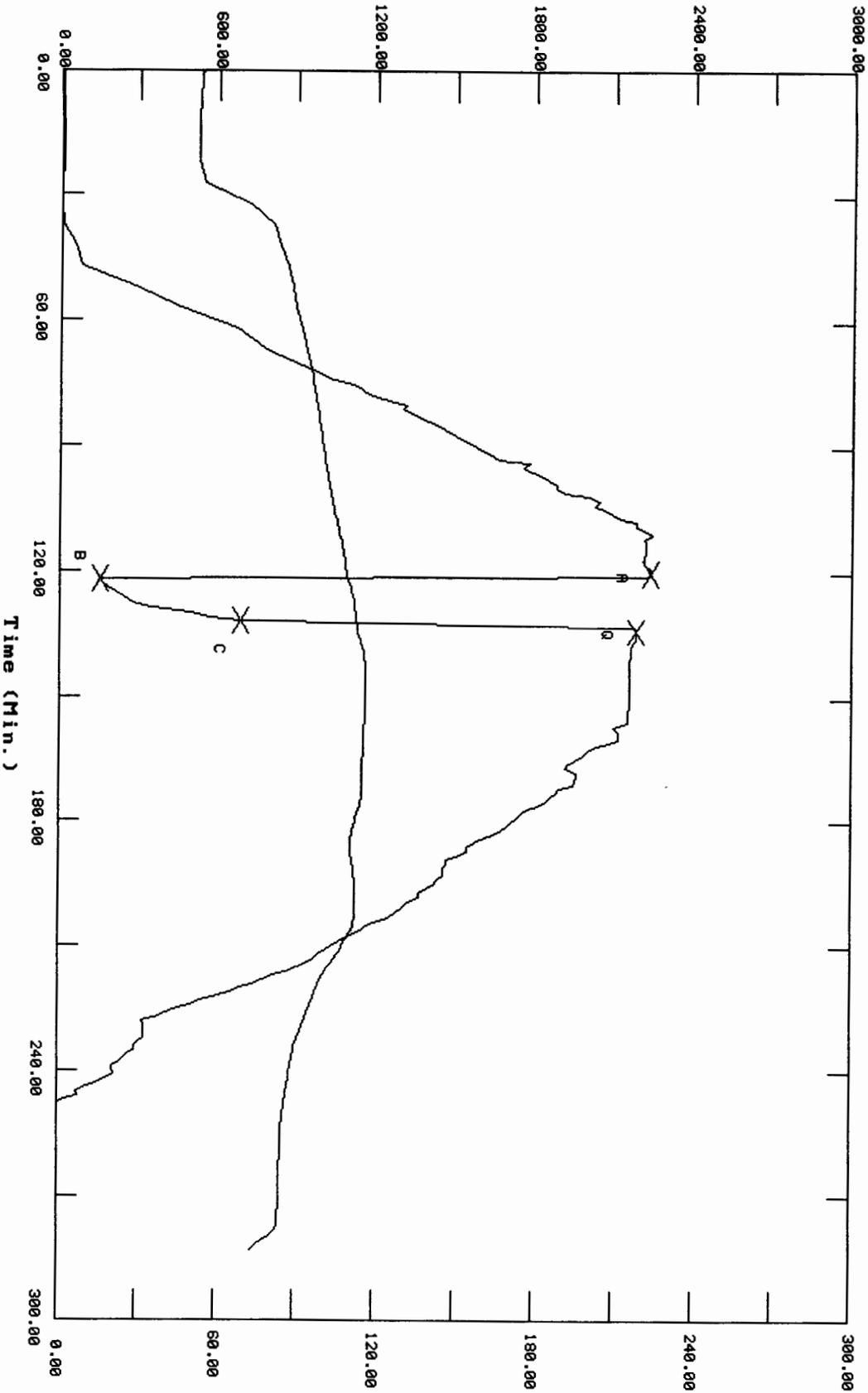
P.O. SUB	
C.O. SUB 1'	4497
S.I. TOOL 5'	4503
HMV 5'	4508
JARS n/a	
SAFETY JOINT 2'	4510
PACKER top	4515
PACKER bottom	4520
DEPTH 4520	
STUBB 1'	4521
ANCHOR 13' perf	4534
alpine recorder	4534
31' drillpipe	4565
ak-1 recorder	4565
T.C.	
DEPTH	
BULLNOSE 5' bullplug	4570
T.D.	4570

11396 DST #4 Sharp A #2 Shields Oil Prod.

TEST HISTORY

Flag Points
t (Min.) P (PSig)

A: 0.00 2238.69
 B: 0.00 156.02
 C: 10.00 691.38
 G: 0.00 2187.20



Temperature (DEG F)

Pressure (PSig)

Time (Min.)

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11396 DST #4 Sharp A #2 Shields Oil Prod.
 DATE: 07/01/99 TIME: 23:22:13

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	120.00	2238.7	0.0	109.00		
***** Start Flow 1	0.00	156.0	0.0	109.80		
	1.00	167.2	11.2	110.29		
	2.00	186.3	30.3	110.78		
	3.00	212.1	56.1	111.21		
	4.00	235.2	79.2	111.58		
	5.00	264.0	108.0	111.89		
	6.00	300.7	144.7	112.14		
	7.00	353.3	197.3	112.35		
	8.00	502.7	346.7	112.51		
	9.00	572.8	416.7	112.66		
***** End Flow 1	10.00	691.4	535.4	112.86		
***** Start Shutin 1	0.00	691.4	0.0	112.86	0.0000	0.478
	1.00	2176.8	1485.4	113.10	11.0000	4.738
***** End Shut-in 1	2.00	2187.2	1495.8	113.36	6.0000	4.784
***** Final Hydro.	134.00	2187.2	0.0	113.36		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11396

Well Name & No. Sharp A #2 Test No. 4 Date 6-1-99
 Company Shields Oil Prod. Zone Tested Johnson
 Address _____ Elevation 2882 KB 2877 GL
 Co. Rep / Geo. Scott Oatsdean Cont. Shields #1 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 20 Twp. 14 Rge. 30 Co. Gove State KS
 No. of Copies Norm Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) _____

Interval Tested 4520' 4570' Initial Str Wt./Lbs. 62,000 Unseated Str Wt./Lbs. 67,000
 Anchor Length _____ 50' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 82,000
 Top Packer Depth _____ 4512' Tool Weight 4,000
 Bottom Packer Depth _____ 4526' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth _____ 4570' Wt. Pipe Run 828' Drill Collar Run 120'
 Mud Wt. 9.3 LCM 1/4 Vis. 42 WL 9.6 Drill Pipe Size 4 1/2 FH Ft. Run 3595'
 Blow Description B.O.B in 1 1/2 min - slowly lost packer seat - pull tool

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>837</u>	—	<u>120</u>	<u>717'</u>
Rec. <u>837'</u> Feet Of <u>Drillg Mud</u>	%gas	%oil	%water <u>100</u> %mud
Rec. _____ Feet Of _____	%gas	%oil	%water _____ %mud
Rec. _____ Feet Of _____	%gas	%oil	%water _____ %mud
Rec. _____ Feet Of _____	%gas	%oil	%water _____ %mud
Rec. _____ Feet Of _____	%gas	%oil	%water _____ %mud

BHT 116° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3,000 ppm System

(A) Initial Hydrostatic Mud 2238 PSI Recorder No. 2346 T-Started 04:30 A.M.
 (B) First Initial Flow Pressure 156 PSI (depth) 4534' T-Open 06:30 A.M.
 (C) First Final Flow Pressure 691 PSI Recorder No. 11058 T-Pulled 06:41 A.M.
 (D) Initial Shut-in Pressure _____ PSI (depth) 4565' T-Out 09:35 A.M.
 (E) Second Initial Flow Pressure _____ PSI Recorder No. _____
 (F) Second Final Flow Pressure _____ PSI (depth) _____
 (G) Final Shut-in Pressure _____ PSI Initial Opening 11 Test 700
 (H) Final Hydrostatic Mud 2187 PSI Initial Shut-in _____ Jars _____
 Final Flow _____ Safety Joint 50
 Final Shut-in _____ 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 Scott A. Oatsdean
 Our Representative Shields Oil Prod.

Circ. Sub 35
 Sampler _____
 Extra Packer _____
 Elect. Rec. 150
 Other _____
 TOTAL PRICE \$ 935