

Shields

COPY

OIL PRODUCERS, INC.

R. L. SHIELDS, President



Russell, Kansas

RECEIVED
STATE CORPORATION COMMISSION

SEP 29 2000

FORM ACO-1 DRILL STEM TESTS

CONSERVATION DIVISION
Wichita, Kansas

SHIELDS OIL PRODUCERS, INC. LEASE Greathouse #5

D.S.T. #1 3255-3288 Times: 30-30-30-30

I.H.P. 1555# I.F.P. 59-59# I.S.I.P. 296#

F.F.P. 71-71# F.S.I.P. 118# F.H.P. 1528#

Recovery: 20' oil cut mud (10% Oil, 90% Mud)

D.S.T. #2 3291-3318 Times: 45-45-45-45

I.H.P. 1584# I.F.P. 13-100# I.S.I.P. 423#

F.F.P. 103-138# F.S.I.P. 421# F.H.P. 1560#

Recovery: 250' water with show of oil on top of fluid

D.S.T. #3 3392-3431 Times: 45-45-45-45

I.H.P. 1654# I.F.P. 13-45# I.S.I.P. 1161#

F.F.P. 55-74# F.S.I.P. 1138# F.H.P. 1618#

Recovery: 120' gas - 80' clean oil - 60' Oil cut mud

D.S.T. #4 3532-3549 Times: 30-45-30-90

I.H.P. 1740# I.F.P. 501-927# I.S.I.P. 1083#

F.F.P. 940-1072# F.S.I.P. 1089# F.H.P. 1722#

Recovery: 2720' Clean oil (21 gravity)

D.S.T. #5 3561-3569 Times: 30-45-45-90

I.H.P. 1746# I.F.P. 19-89# I.S.I.P. 1011#

F.F.P. 91-137# F.S.I.P. 1053# F.H.P. 1711#

Recovery: 30' Oil cut mud (10% oil, 90% mud) 250' muddy water

D.S.T. #6 Times:

I.H.P. I.F.P. I.S.I.P.

F.F.P. F.S.I.P. F.H.P.

Recovery:

TRILOBITE TESTING L.L.C.

OPERATOR : Shields Oil Producers DATE 6-12-00
 WELL NAME: Greathouse #5 KB 1984.00 ft TICKET NO: 13182 DST #1
 LOCATION : 19-11-19 Ellis co KS GR 1979.00 ft FORMATION: C-D LKC
 INTERVAL : 3259.00 To 3292.00 ft TD 3292.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13254	13254	3024			PF Fr. 0845 to 0915 hr
SI 30 Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0	IS Fr. 0915 to 0945 hr
SF 30 Clock(hrs)	12	12	elect			SF Fr. 0945 to 1015 hr
FS 30 Depth(ft)	3289.0	3289.0	3261.0	0.0	0.0	FS Fr. 1015 to 1045 hr

	Field	1	2	3	4	
A. Init Hydro	1588.0	1572.0	1555.0	0.0	0.0	T STARTED 0654 hr
B. First Flow	59.0	68.0	12.0	0.0	0.0	T ON BOTM 0842 hr
B1. Final Flow	59.0	56.0	24.0	0.0	0.0	T OPEN 0845 hr
C. In Shut-in	296.0	300.0	308.0	0.0	0.0	T PULLED 1045 hr
D. Init Flow	71.0	93.0	27.0	0.0	0.0	T OUT 1200 hr
E. Final Flow	71.0	65.0	34.0	0.0	0.0	
F. Fl Shut-in	118.0	126.0	122.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1565.0	1557.0	1528.0	0.0	0.0	Tool Wt. 1000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 48000.00 lbs
						Unseated Str Wt 48000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3252.00 ft
						H.W. I.D 3.80 in
						H.W. Length 222.00 ft

RECOVERY

Tot Fluid 20.00 ft of 0.00 ft in DC and 20.00 ft in DP
 20.00 ft of Oil cut mud
 0.00 ft of 10% oil 90% mud
 0.00 ft of
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:
 Weak building to 1/2"

Final Flow:
 Weak building to 1/2"

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.00 lb/c
 Vis. 40.00 S/L
 W.L. 9.40 in3
 F.C. 0.00 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 104.00 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 Dan Bangle
 Co. Rep. Todd Morgenstern
 Contr. Shields
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Greathouse #5

LOCATION : 19-11-19 Ellis co KS

TICKET No. 13182 D.S.T. No. 1 DATE 6-12-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 33

TOTAL TOOL 53

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 53

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands52 Single 1 Total 3252

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3305

TOTAL DEPTH 3292

TOTAL DRILL PIPE ABOVE K.B. 13

REMARKS:

P.O. SUB	3119
C.O. SUB	3239
S.I. TOOL	3245
HMV	3250
JARS n/a	
SAFETY JOINT n/a	
PACKER	3254
PACKER	3259
DEPTH 3259	
1'	3260
ANCHOR	
Alpine @	3261
5' Perfs	3265
5' Perfs	3270
5' Perfs	3275
5' Perfs	3280
5' Perfs	3285
4' Perfs	3289
AK-1 @	3289
BULLNOSE 3'	3292
T.D.	3292

TEST HISTORY

Tk# 13182 DST# 1 Greathouse #5 Shields Oil Producers

Flag Points
t(Min.) P(PSig)

A:	0.00	1555.04
B:	0.00	11.64
C:	31.00	24.30
D:	29.50	307.62
E:	0.00	27.44
F:	29.50	34.43
G:	29.50	121.69
Q:	0.00	1528.34

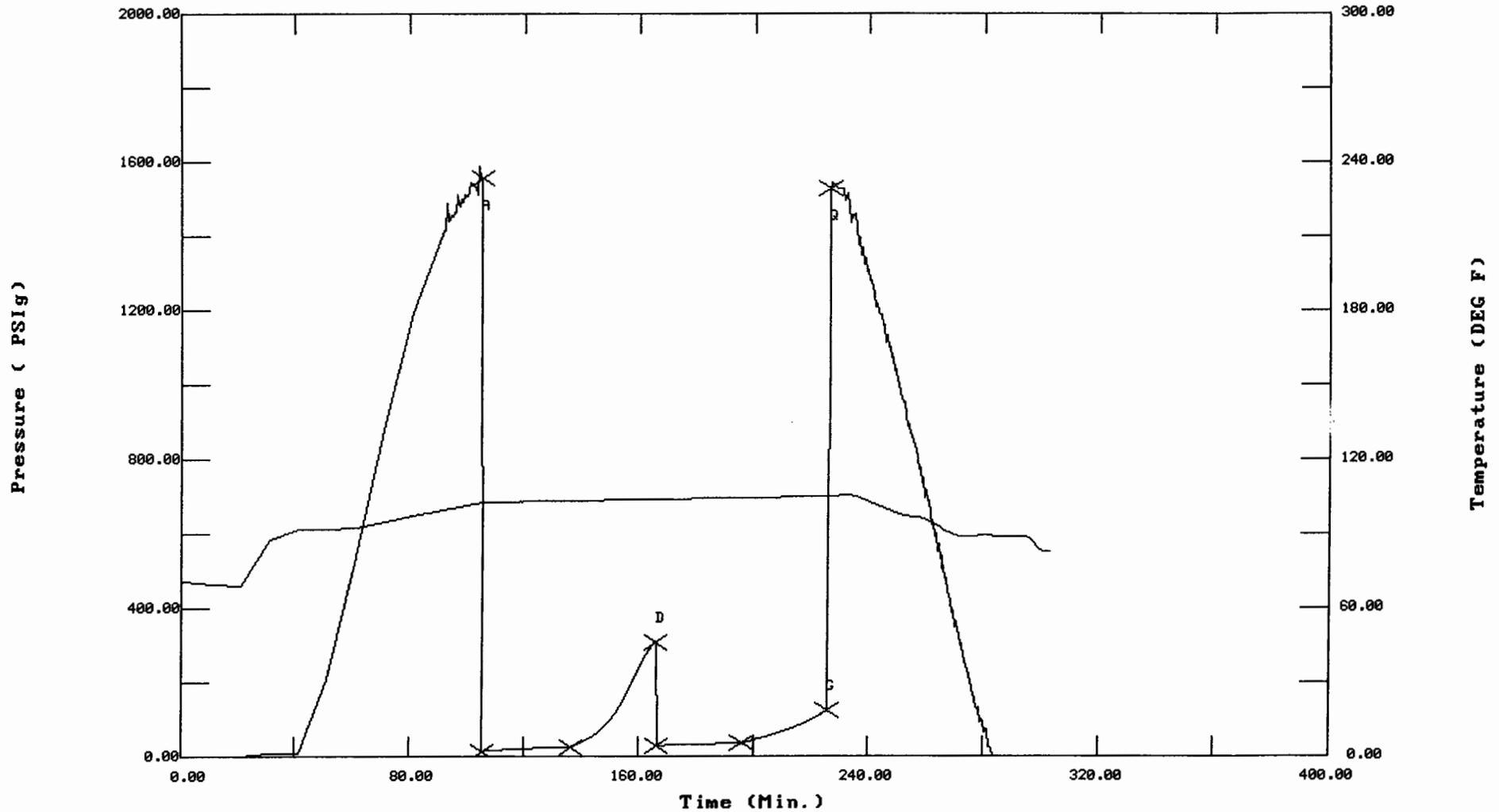
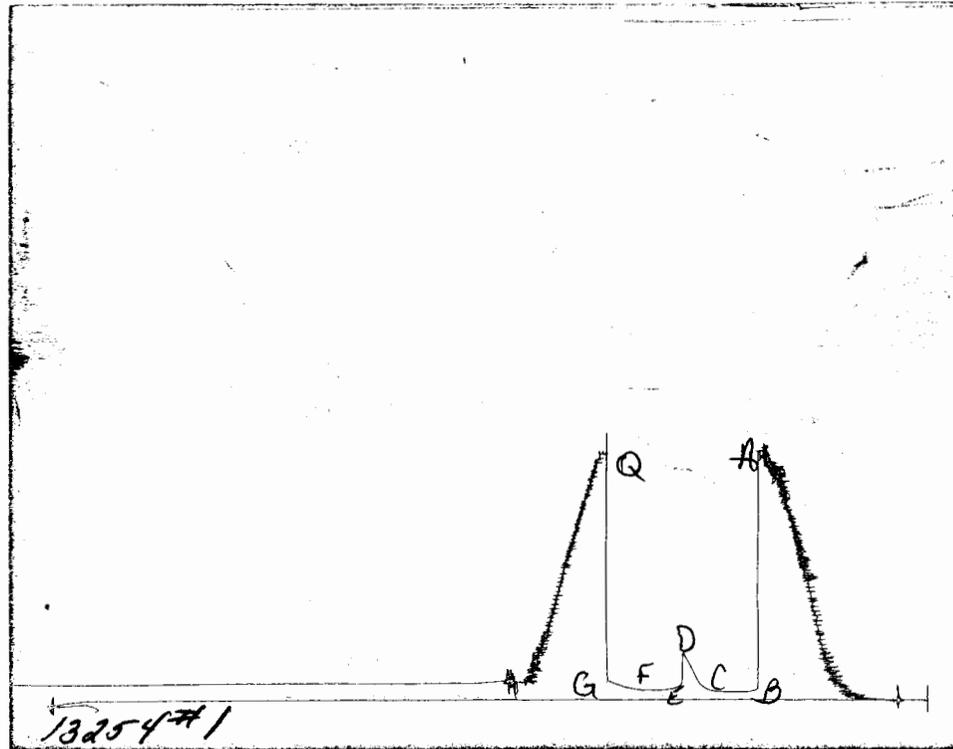


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 13182

Test Ticket

Well Name & No. <u>#5 Great house</u>	Test No. <u>1</u>	Date <u>6-12-00</u>
Company <u>Shields Oil Producers</u>	Zone Tested <u>C-D</u>	<u>LKC</u>
Address <u>P.O. Box 709, Russell, Ks. 67665</u>	Elevation <u>1984</u>	KB <u>1979</u> GL
Co. Rep / Geo. <u>Todd Morgenstern</u>	Cont. <u>Shields</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>19</u>	Twp. <u>11</u>	Rge. <u>19</u> Co. <u>Ellis</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>3259 - 3292</u>	Initial Str Wt./Lbs. <u>48,000</u>	Unseated Str Wt./Lbs. <u>48,000</u>
Anchor Length <u>33</u>	Wt. Set Lbs. <u>29,000</u>	Wt. Pulled Loose/Lbs. <u>69,000</u>
Top Packer Depth <u>3254</u>	Tool Weight <u>1000</u>	
Bottom Packer Depth <u>3259</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>3292</u>	Wt. Pipe Run <u>222</u>	Drill Collar Run <u> </u>
Mud Wt. <u>9</u> LCM <u> </u> Vis. <u>40</u> WL <u>9.4</u>	Drill Pipe Size <u>4.5 XH</u>	Ft. Run <u>3252</u>
Blow Description <u>I.F. Weak - building to 1/2"</u>		

E.F. Weak - building to 1/2"

Recovery — Total Feet <u>20</u>	GIP <u> </u>	Ft. in DC <u> </u>	Ft. in DP <u>20</u>
Rec. <u>20</u> Feet Of <u>OCM</u>	%gas <u>10</u> %oil <u> </u>	%water <u>90</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>	
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u>	%water <u> </u> %mud <u> </u>	
BHT <u>104</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 <u> </u>	Chlorides <u>3000</u>	ppm System <u> </u>

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1588</u>	<u>1555</u>		<u>3024</u>	<u>05:30</u>
(B) First Initial Flow Pressure	<u>59</u>	<u>12</u>		(depth) <u>3261</u>	T-Started <u>06:54</u>
(C) First Final Flow Pressure	<u>59</u>	<u>24</u>		Recorder No. <u>13254</u>	T-Open <u>08:45</u>
(D) Initial Shut-In Pressure	<u>296</u>	<u>308</u>		(depth) <u>3289</u>	T-Pulled <u>10:45</u>
(E) Second Initial Flow Pressure	<u>71</u>	<u>27</u>		Recorder No. <u> </u>	T-Out <u>10:00</u>
(F) Second Final Flow Pressure	<u>71</u>	<u>34</u>		(depth) <u> </u>	T-Off Location <u>10:15</u>
(G) Final Shut-in Pressure	<u>118</u>	<u>152</u>		Initial Opening <u>30</u>	Test <u>600</u>
(Q) Final Hydrostatic Mud	<u>1565</u>	<u>1528</u>		Initial Shut-in <u>30</u>	Jars <u> </u>
				Final Flow <u>30</u>	Safety Joint <u> </u>
				Final Shut-in <u>30</u>	Straddle <u> </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 Todd Morgenstern
 Our Representative Dan Rangle

Elec. Rec. 150
 Mileage
 Other
 TOTAL PRICE \$ 750

TRILOBITE TESTING L.L.C.

OPERATOR : Shields Oil Producers DATE 6-12-00
 WELL NAME: Greathouse #5 KB 1984.00 ft TICKET NO: 13183 DST #2
 LOCATION : 19-11-19 Ellis co KS GR 1979.00 ft FORMATION: E-F LKC
 INTERVAL : 3295.00 To 3322.00 ft TD 3322.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	13254	13254	3024			PF Fr. 2020 to 2105 hr
SI 45 Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0	IS Fr. 2105 to 2150 hr
SF 45 Clock(hrs)	12	12	elect			SF Fr. 2150 to 2235 hr
FS 45 Depth(ft)	3319.0	3319.0	3297.0	0.0	0.0	FS Fr. 2235 to 2320 hr

	Field	1	2	3	4	
A. Init Hydro	1600.0	1641.0	1584.0	0.0	0.0	T STARTED 1833 hr
B. First Flow	82.0	77.0	13.0	0.0	0.0	T ON BOTM 2017 hr
B1. Final Flow	142.0	126.0	100.0	0.0	0.0	T OPEN 2020 hr
C. In Shut-in	462.0	452.0	423.0	0.0	0.0	T PULLED 2320 hr
D. Init Flow	177.0	161.0	103.0	0.0	0.0	T OUT 0115 hr
E. Final Flow	177.0	167.0	138.0	0.0	0.0	
F. Fl Shut-in	450.0	440.0	421.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1553.0	1546.0	1560.0	0.0	0.0	Tool Wt. 1000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 48000.00 lbs
						Unseated Str Wt 48000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3285.00 ft
						H.W. I.D 3.80 in
						H.W. Length 222.00 ft

RECOVERY

Tot Fluid 250.00 ft of	0.00 ft in DC and	250.00 ft in DP				
250.00 ft of Water w/ show oil on top						
0.00 ft of						
0.00 ft of						
0.00 ft of						
0.00 ft of						
0.00 ft of						
0.00 ft of						
0.00 ft of						
SALINITY 75000.00 P.P.M.	A.P.I. Gravity	0.00				

BLOW DESCRIPTION

Initial Flow:
 Weak building to 3"
 Final Flow:
 Weak building to 1 1/2"

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.40 lb/c
 Vis. 0.00 S/L
 W.L. 10.00 in3
 F.C. 0.00 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 108.00 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 Dan Bangle
 Co. Rep. Todd Morgenstern
 Contr. Shields
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

TEST HISTORY

Tk# 13183 DST# 2 Greathouse #5 Shields Oil Producers

Flag Points
t(Min.) P(PSig)

A:	0.00	1584.02
B:	0.00	13.24
C:	46.50	100.28
D:	43.00	422.84
E:	0.00	103.16
F:	45.00	137.93
G:	44.00	420.70
Q:	0.00	1560.07

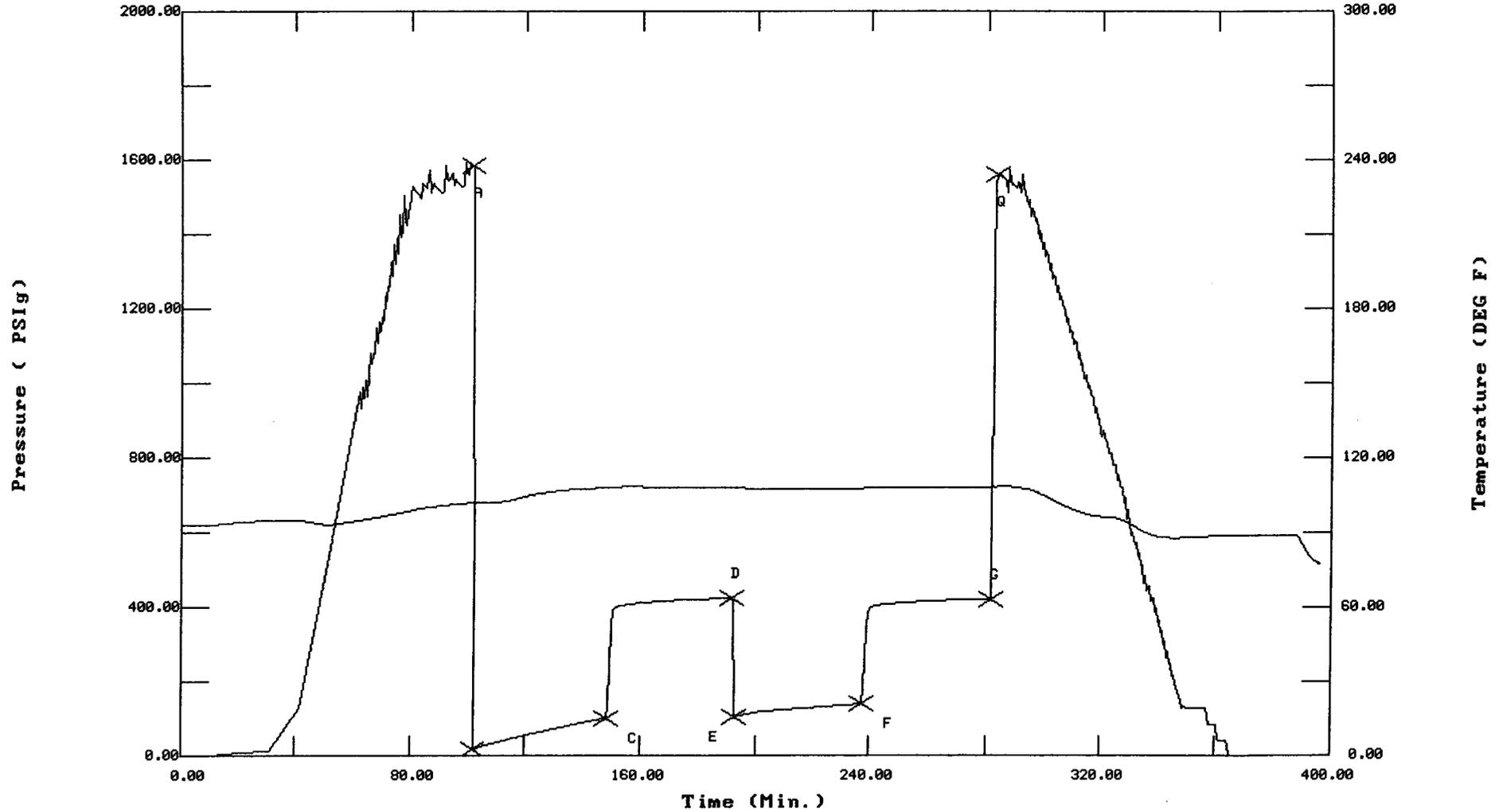
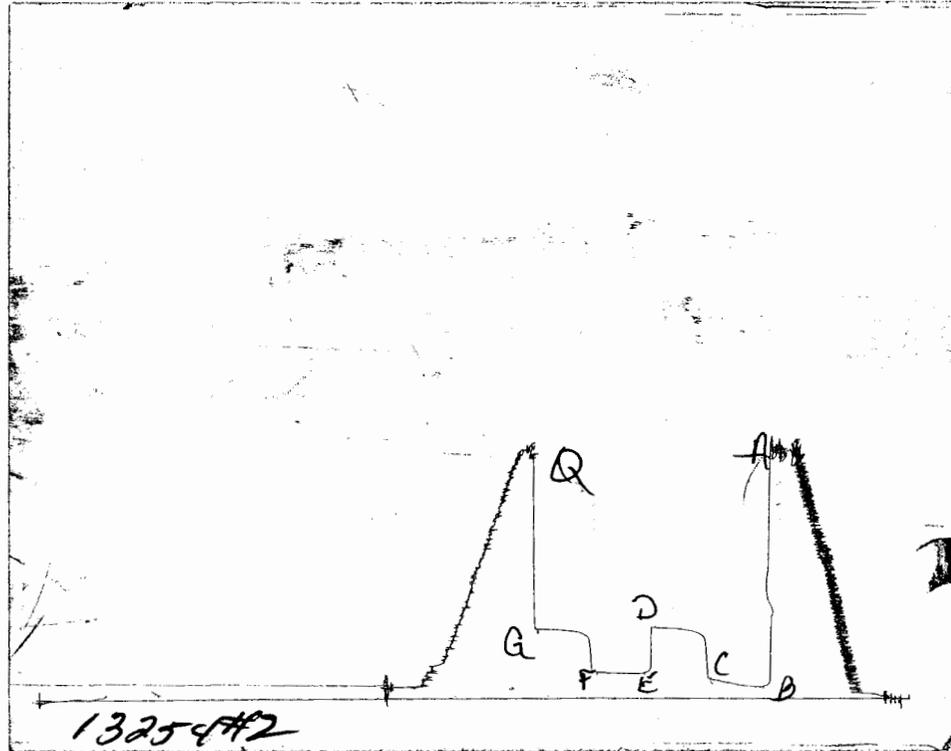


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13183

Test Ticket

Well Name & No. <u>#5 Greathouse</u>	Test No. <u>2</u>	Date <u>6-12-00</u>
Company <u>Shields Oil Producers</u>	Zone Tested <u>E-F LKC</u>	
Address _____	Elevation <u>1984</u> KB <u>1979</u> GL	
Co. Rep / Geo. <u>Todd Morgenstern</u> Cont. <u>Shields</u>	Est. Ft. of Pay _____	Por. _____ %
Location: Sec. <u>19</u> Twp. <u>11</u> Rge. <u>19</u>	Co. <u>Ellis</u>	State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____
	Evaluation (Y, N) _____	

Interval Tested <u>3295 - 3322</u>	Initial Str Wt./Lbs. <u>48,000</u>	Unseated Str Wt./Lbs. <u>48,000</u>
Anchor Length <u>27</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>60,000</u>
Top Packer Depth <u>3290</u>	Tool Weight <u>1000</u>	
Bottom Packer Depth <u>3295</u>	Hole Size — 7 7/8" _____	Rubber Size — 6 3/4" _____
Total Depth <u>3322</u>	Wt. Pipe Run <u>222</u>	Drill Collar Run _____
Mud Wt. <u>9.4</u> LCM _____ Vis. <u>41</u> WL <u>10</u>	Drill Pipe Size <u>4.5 XH</u>	Ft. Run <u>3285</u>
Blow Description <u>F.F. Weak - building to 3"</u>		
<u>F.F. Weak - building to 1 1/2"</u>		

Recovery — Total Feet <u>250</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>250</u>		
Rec. <u>250</u>	Feet Of <u>WTR w/ show oil</u>	%gas _____	%oil _____	%water _____	%mud _____
Rec. _____	Feet Of <u>on top</u>	%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>108</u>	°F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____	
RW <u>1.09 @ 80</u>	°F Chlorides <u>25,000</u>	ppm Recovery _____	Chlorides <u>8,000</u>	ppm System _____	

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1800</u>	<u>1584</u>		<u>3024</u>	<u>18:10</u>
(B) First Initial Flow Pressure	<u>82</u>	<u>13</u>	PSI	(depth) <u>3297</u>	T-Started <u>18:33</u>
(C) First Final Flow Pressure	<u>142</u>	<u>100</u>	PSI	Recorder No. <u>13254</u>	T-Open <u>20:20</u>
(D) Initial Shut-In Pressure	<u>462</u>	<u>423</u>	PSI	(depth) <u>3319</u>	T-Pulled <u>23:20</u>
(E) Second Initial Flow Pressure	<u>177</u>	<u>103</u>	PSI	Recorder No. _____	T-Out <u>01:15</u>
(F) Second Final Flow Pressure	<u>177</u>	<u>138</u>	PSI	(depth) _____	T-Off Location <u>01:30</u>
(G) Final Shut-in Pressure	<u>450</u>	<u>421</u>	PSI	Initial Opening <u>45</u>	Test <u>1000</u>
(Q) Final Hydrostatic Mud	<u>1553</u>	<u>1560</u>	PSI	Initial Shut-in <u>45</u>	Jars _____
				Final Flow <u>45</u>	Safety Joint _____
				Final Shut-in <u>45</u>	Straddle _____

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Approved By Todd Morgenstern
Our Representative Dan Banoff

Circ. Sub _____
Sampler _____
Extra Packer _____
Elec. Rec. X 150
Mileage _____
Other _____
TOTAL PRICE \$ 750

TRILOBITE TESTING L.L.C.

OPERATOR : Shields Oil Producers DATE 6-13-00
 WELL NAME: Greathouse #5 KB 1984.00 ft TICKET NO: 13184 DST #3
 LOCATION : 19-11-19 Ellis co KS GR 1979.00 ft FORMATION: J-K LKC
 INTERVAL : 3396.00 To 3435.00 ft TD 3435.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	13254	13254	3024			PF Fr. 1838 to 1923 hr
SI 45 Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0	IS Fr. 1923 to 2008 hr
SF 45 Clock(hrs)	12	12	elect			SF Fr. 2008 to 2053 hr
FS 45 Depth(ft)	3432.0	3432.0	3398.0	0.0	0.0	FS Fr. 2053 to 2138 hr

	Field	1	2	3	4	
A. Init Hydro	1729.0	1700.0	1654.0	0.0	0.0	T STARTED 1659 hr
B. First Flow	71.0	70.0	13.0	0.0	0.0	T ON BOTM 1835 hr
B1. Final Flow	82.0	78.0	45.0	0.0	0.0	T OPEN 1838 hr
C. In Shut-in	1179.0	1174.0	1161.0	0.0	0.0	T PULLED 2138 hr
D. Init Flow	106.0	100.0	55.0	0.0	0.0	T OUT 2315 hr
E. Final Flow	118.0	108.0	74.0	0.0	0.0	
F. Fl Shut-in	1156.0	1149.0	1138.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1623.0	1627.0	1618.0	0.0	0.0	Tool Wt. 12000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 49000.00 lbs
						Unseated Str Wt 49000.00 lbs

RECOVERY

Tot Fluid 140.00 ft of 0.00 ft in DC and 140.00 ft in DP
 120.00 ft of Gas in pipe
 80.00 ft of Clean oil
 0.00 ft of 100% oil
 60.00 ft of Heavy oil cut mud
 0.00 ft of 40% oil 60% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of

Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 0.00 in
 D. Pipe ID 3.80 in
 D.C. Length 0.00 ft
 D.P. Length 3406.00 ft
 H.W. I.D 3.80 in
 H.W. Length 222.00 ft

SALINITY 0.00 P.P.M. A.P.I. Gravity 25.00

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/c
 Vis. 41.00 S/L
 W.L. 9.40 in3
 F.C. 0.00 in
 Mud Drop N

BLOW DESCRIPTION

Initial Flow:
 Weak building to 1 1/2"

Final Flow:
 Weak building to 1"

Amt. of fill 0.00 ft
 Btm. H. Temp. 107.00 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 Dan Bangle
 Co. Rep. Todd Morgenstern
 Contr. Shields
 Rig # 1
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

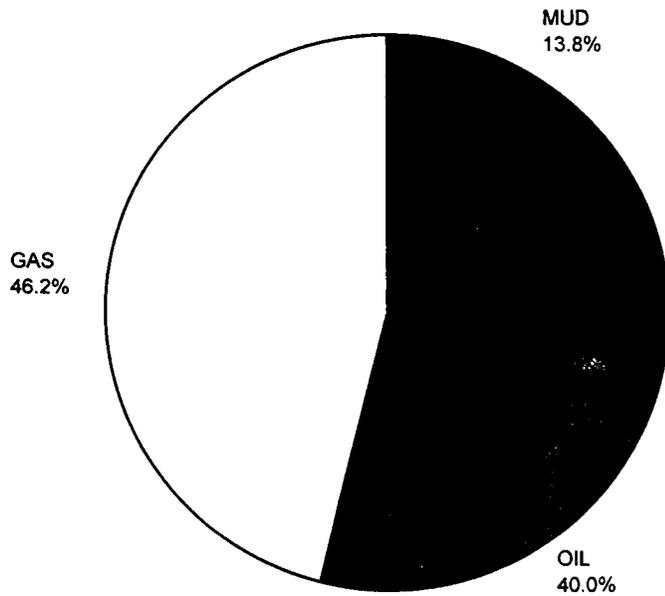
CALCULATED RECOVERY ANALYSIS

DST 3

TICKET 13184

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL	1	120	100	120	0	0	0	0	0
PIPE	2	80	0	0	100	80	0	0	0
	3	60	0	0	40	24	0	0	60
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
DRILL	1	0	0	0	0	0	0	0	0
COLLARS	2	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
TOTAL		260	0	120	0	104	0	0	36

BBL OIL= 1.47888 * HRS OPEN 1.5 = BBL/DAY 23.66208
 BBL WATER= 0 * = 0
 BBL MUD= 0.51192
 BBL GAS = 1.7064



TEST HISTORY

Tk# 13184 DST# 3 Greathouse #5 Shields Oil Producers

Flag Points

t(Min.) P(PSig)

R:	0.00	1653.77
B:	0.00	12.90
C:	44.50	44.93
D:	45.50	1160.54
E:	0.00	54.68
F:	44.50	74.41
G:	46.00	1138.47
Q:	0.00	1618.30

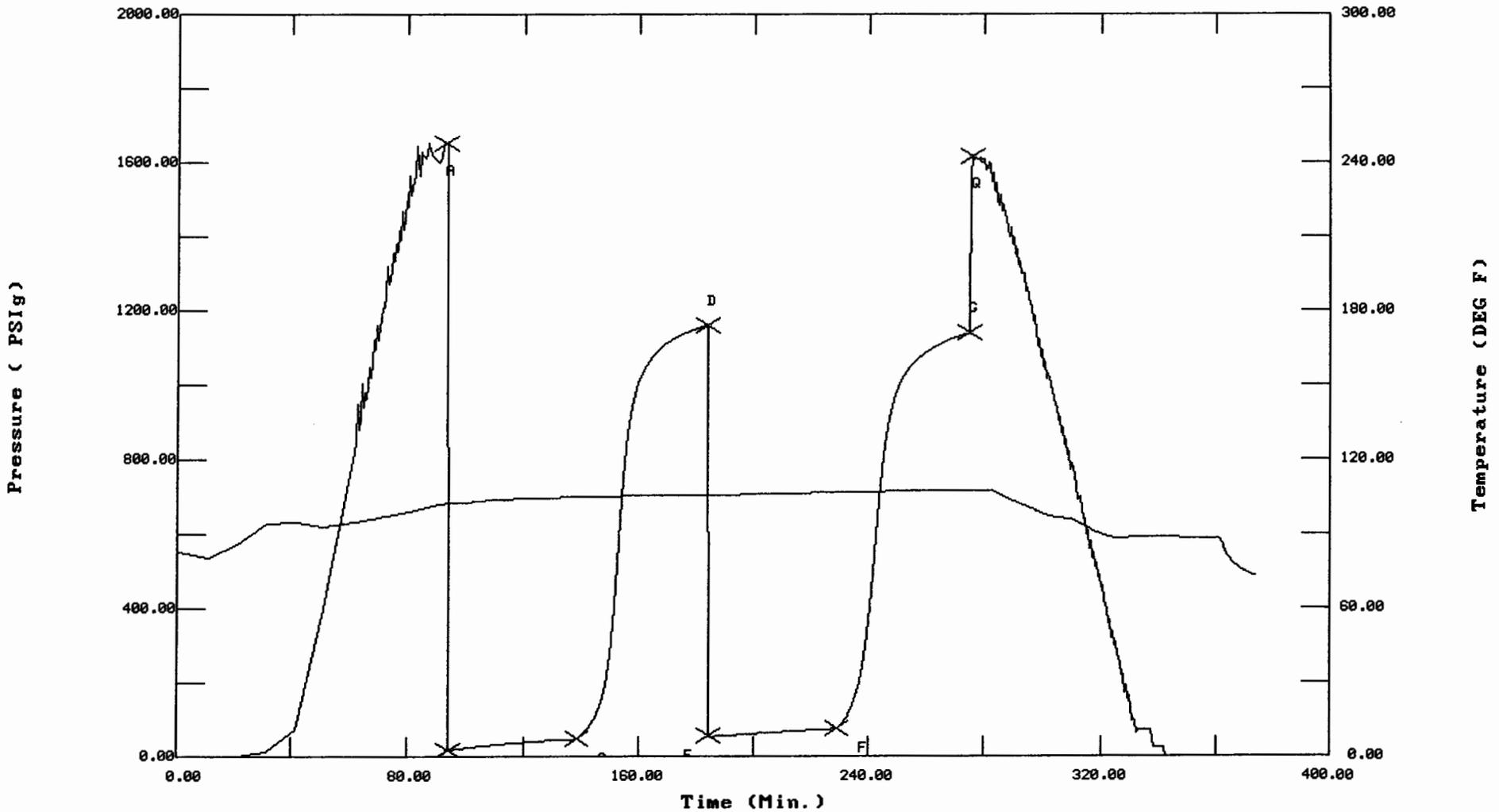
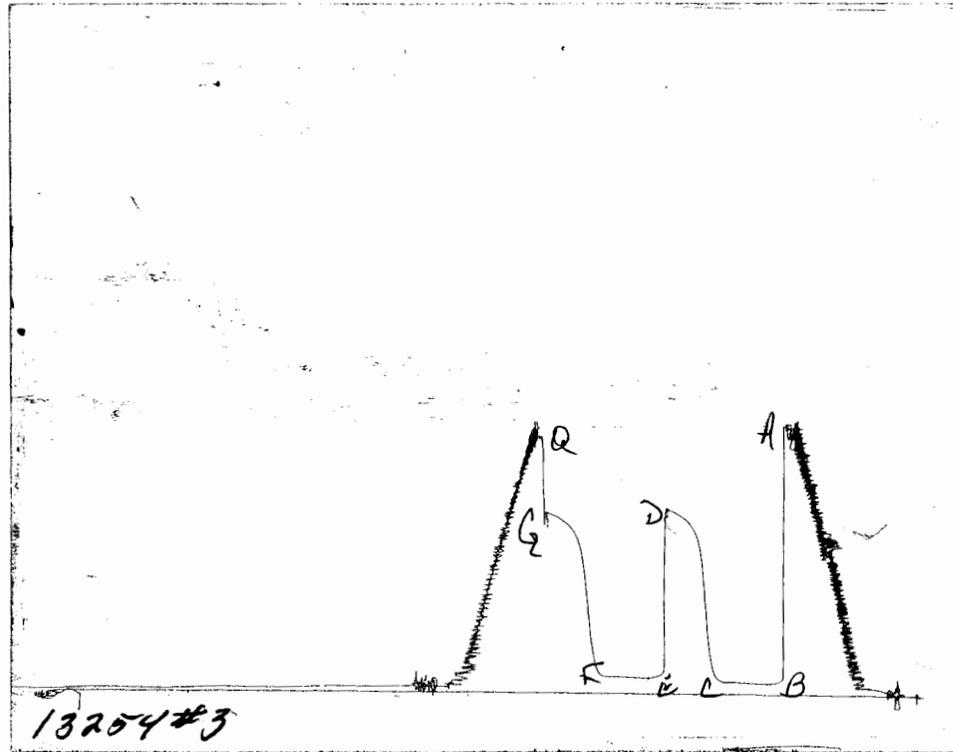


CHART PAGE



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 13184

Test Ticket

Well Name & No. #5 Great house Test No. 3 Date 6-13-00
 Company Shields Oil Producers Zone Tested J-K LKC
 Address _____ Elevation 1984 KB 1979 GL
 Co. Rep / Geo. Todd Morgenstern Cont. Shields Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 19 Twp. 11 Rge. 19 Co. Ellis State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3396 - 3435 Initial Str Wt./Lbs. 49000 Unseated Str Wt./Lbs. 44000
 Anchor Length 39 Wt. Set Lbs. 29200 Wt. Pulled Loose/Lbs. 55000
 Top Packer Depth 3391 Tool Weight 1200
 Bottom Packer Depth 3396 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Total Depth 3435 Wt. Pipe Run 222 Drill Collar Run _____
 Mud Wt. 9.1 LCM _____ Vis. 41 WL 9.4 Drill Pipe Size 4.5x14 Ft. Run 3406
 Blow Description I.F. Weak-building to 1 1/2"

I.F. Weak-building to 1"

Recovery — Total Feet 140 GIP 120 Ft. in DC _____ Ft. in DP 140
 Rec. 80 Feet Of clean oil %gas 100%oil _____ %water _____ %mud _____
 Rec. 60 Feet Of HO CM %gas 40%oil _____ %water 60%mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 107 °F Gravity _____ °API D@ _____ °F Corrected Gravity 25 °API _____
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1729</u>	<u>1654</u>		<u>3024</u>	<u>06:55</u>
(B) First Initial Flow Pressure	<u>71</u>	<u>13</u>		(depth) <u>3398</u>	T-Started <u>16:59</u>
(C) First Final Flow Pressure	<u>82</u>	<u>45</u>		Recorder No. <u>13254</u>	T-Open <u>18:23</u>
(D) Initial Shut-In Pressure	<u>1179</u>	<u>1161</u>		(depth) <u>3432</u>	T-Pulled <u>21:23</u>
(E) Second Initial Flow Pressure	<u>106</u>	<u>55</u>		Recorder No. _____	T-Out <u>23:15</u>
(F) Second Final Flow Pressure	<u>118</u>	<u>74</u>		(depth) _____	T-Off Location <u>23:35</u>
(G) Final Shut-in Pressure	<u>1156</u>	<u>1138</u>		Initial Opening <u>45</u>	Test <u>400</u>
(Q) Final Hydrostatic Mud	<u>1623</u>	<u>1618</u>		Initial Shut-in <u>45</u>	Jars _____
				Final Flow <u>45</u>	Safety Joint _____
				Final Shut-in <u>45</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 Todd E. Morgenstern
 Our Representative Dan Rangle

Extra Packer _____
 Elec. Rec. X 150
 Mileage _____
 Other _____
 TOTAL PRICE \$ 750

TRILOBITE TESTING L.L.C.

OPERATOR : Shields Oil Producers DATE 5-14-00
 WELL NAME: Greathouse #5 KB 1984.00 ft TICKET NO: 13185 DST #4
 LOCATION : 19-11-19 Ellis co KS GR 1979.00 ft FORMATION: Arbuckle
 INTERVAL : 3537.00 To 3553.00 ft TD 3553.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13254	13254	3024			PF Fr. 1443 to 1513 hr
SI 45	Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0	IS Fr. 1513 to 1558 hr
SF 30	Clock(hrs)	12	12	elect			SF Fr. 1558 to 1628 hr
FS 90	Depth(ft)	3550.0	3550.0	3539.0	0.0	0.0	FS Fr. 1628 to 1758 hr

	Field	1	2	3	4	
A. Init Hydro	1799.0	1756.0	1740.0	0.0	0.0	T STARTED 1322 hr
B. First Flow	556.0	557.0	501.0	0.0	0.0	T ON BOTM 1440 hr
B1. Final Flow	898.0	896.0	927.0	0.0	0.0	T OPEN 1443 hr
C. In Shut-in	1074.0	1079.0	1083.0	0.0	0.0	T PULLED 1758 hr
D. Init Flow	981.0	978.0	940.0	0.0	0.0	T OUT 2150 hr
E. Final Flow	1063.0	1067.0	1055.0	0.0	0.0	
F. Fl Shut-in	1074.0	1092.0	1089.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1705.0	1682.0	1722.0	0.0	0.0	Tool Wt. 800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 49000.00 lbs
						Unseated Str Wt 62000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3536.00 ft
						H.W. I.D 3.80 in
						H.W. Length 222.00 ft

RECOVERY

Tot Fluid 2720.00 ft of 0.00 ft in DC and 2720.00 ft in DP
 2720.00 ft of Clean heavy oil
 0.00 ft of 100% oil
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 21.00

BLOW DESCRIPTION

Initial Flow:
 Strong-bottom of bucket in 45 seconds

Final Flow:
 Strong bottom of bucket in 45 seconds

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/c
 Vis. 44.00 S/L
 W.L. 9.00 in3
 F.C. 0.00 in
 Mud Drop N
 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
 Cushion Type
 Reversed Out Y
 Tool Chased N
 Tester Dan Bangle
 Co. Rep. Todd Morgenstern
 Contr. Shields
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Greathouse #5

LOCATION : 19-11-19 Ellis co KS

TICKET No. 13185 D.S.T. No. 4 DATE 6-14-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 16

TOTAL TOOL 36

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 36

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands57 Single Total 3536

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3572

TOTAL DEPTH 3553

TOTAL DRILL PIPE ABOVE K.B. 19

REMARKS:

	P.O. SUB	3397
	C.O. SUB	3517
	S.I. TOOL	3523
	HMV	3528
	- JARS n/a	
	-	
	-	
	- SAFETY JOINT n/a	
	-	
	PACKER	3532
	-	
	PACKER	3537
	- DEPTH 3537	
	1'	3538
	- ANCHOR	
	- Alpine @ 3539	
	5' Perfs	3543
	-	
	5' Perfs	3548
	-	
	-	
	-	
	-	
	2' Perfs	3550
	-	
	-	
	- AK-1 @ 3550	
	-	
	- BULLNOSE 3'	3553
	- T.D.	3553

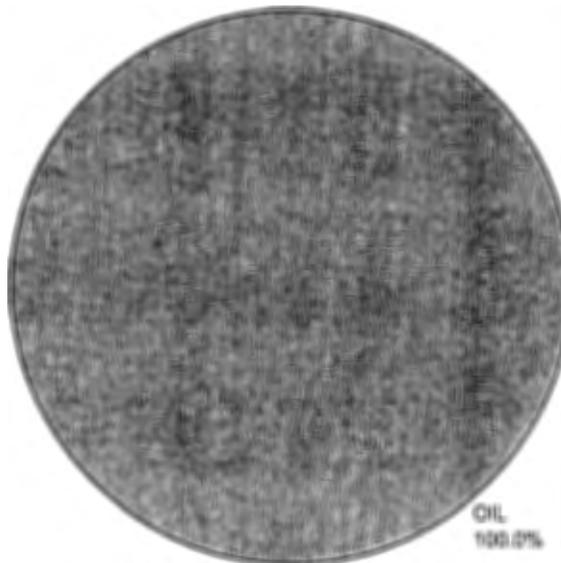
CALCULATED RECOVERY ANALYSIS

DST 4

TICKET 13185

SAMPLE #	TOTAL		GAS		OIL		WATER		MUD	
	FEET	%	FEET	%	FEET	%	FEET	%	FEET	%
DRILL	1	2720	0	0	100	2720	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL	1	0	0	0	0	0	0	0	0	0
COLLARS	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		2720	0	0	0	2720	0	0	0	0

BBL OIL= 38.6784 * HRS OPEN 1 = BBL/DAY 928.2816
 BBL WATER= 0 * = 0
 BBL MUD= 0
 BBL GAS = 0

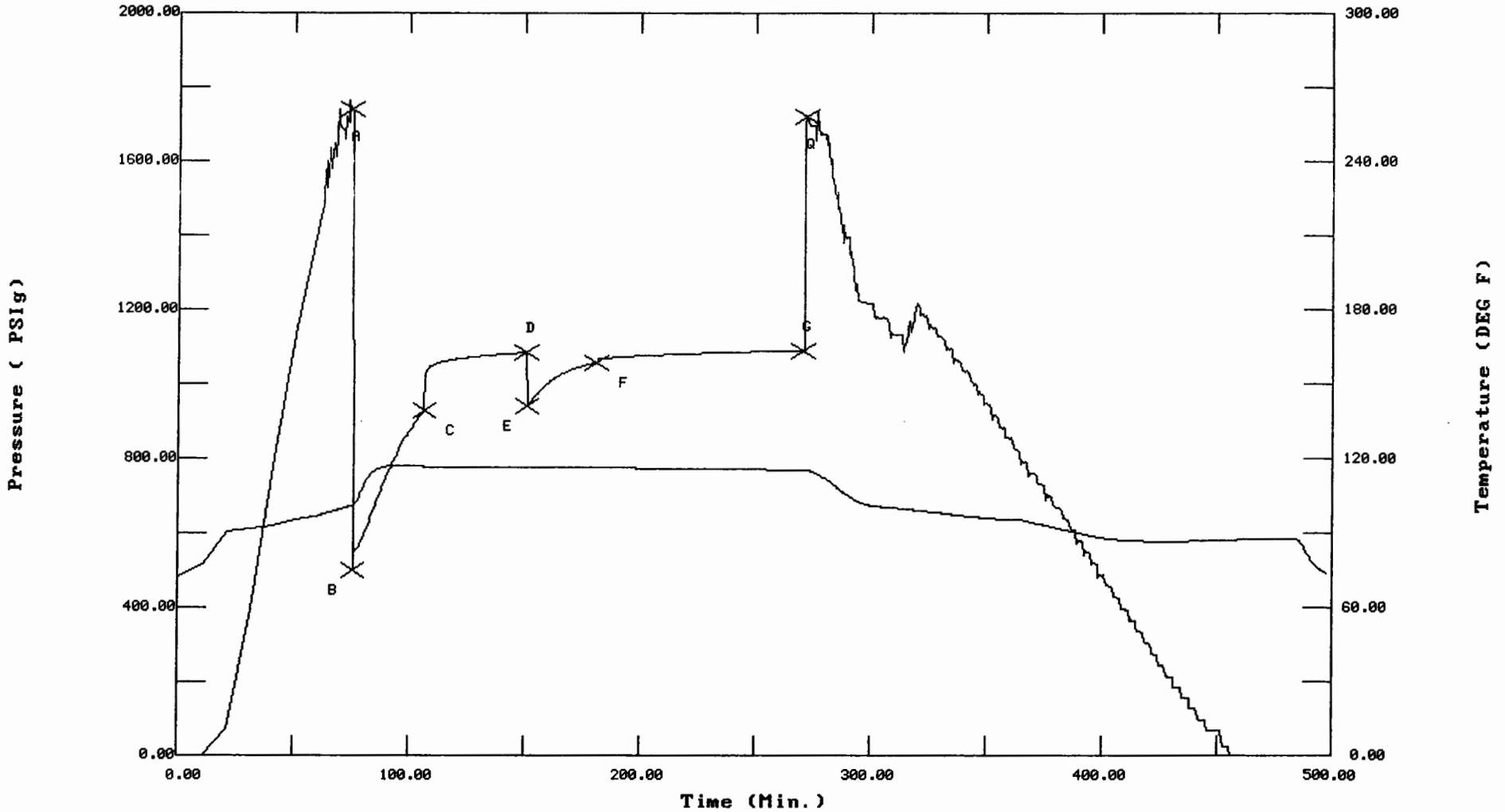


TEST HISTORY

Tk# 13185 DST# 4 Greathouse #5 Shields Oil Producers

Flag Points

	t (Min.)	P (PSIg)
A:	0.00	1739.77
B:	0.00	500.97
C:	31.00	927.45
D:	44.00	1083.08
E:	0.00	940.46
F:	30.00	1055.60
G:	89.50	1089.25
Q:	0.00	1721.99



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 13185

Test Ticket

Well Name & No. <u>#5 Greathouse</u>	Test No. <u>4</u>	Date <u>6-14-00</u>
Company <u>Shields Oil Producers</u>	Zone Tested <u>Arbuckle</u>	
Address _____	Elevation <u>1984</u> KB <u>1979</u> GL	
Co. Rep / Geo. <u>Todd Morgenstern</u>	Cont. <u>Shields</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>19</u> Twp. <u>11</u> Rge. <u>19</u>	Co. <u>Ellis</u> State <u>Ks</u>	
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3537 - 3553</u>	Initial Str Wt./Lbs. <u>49000</u>	Unseated Str Wt./Lbs. <u>62000</u>
Anchor Length <u>16'</u>	Wt. Set Lbs. <u>29000</u>	Wt. Pulled Loose/Lbs. <u>80000</u>
Top Packer Depth <u>3532</u>	Tool Weight <u>800</u>	
Bottom Packer Depth <u>3537</u>	Hole Size — 7 7/8" _____	Rubber Size — 6 3/4" _____
Total Depth <u>3553</u>	Wt. Pipe Run <u>222</u>	Drill Collar Run _____
Mud Wt. <u>9.2</u> LCM <u>0</u> Vis. <u>44</u> WL <u>9</u>	Drill Pipe Size <u>4.5 XH</u>	Ft. Run <u>3536</u>
Blow Description <u>I.F. Strong B.O.B. in 45 sec</u>		

I.F. Strong - B.O.B. in 45 Sec.

Recovery — Total Feet <u>2720</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>2720</u>
Rec. <u>2720</u> Feet Of <u>Clean Heavy Oil</u>	%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 <u>115</u> °F Gravity _____	°API D@ _____	°F Corrected Gravity <u>21</u>	°API _____
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____	Chlorides <u>8,000</u> ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	<u>1799</u>	<u>1740</u>	PSI	Recorder No. <u>3024</u>	T-On Location <u>13:00</u>	
(B) First Initial Flow Pressure	<u>556</u>	<u>501</u>	PSI	(depth) <u>3539</u>	T-Started <u>13:22</u>	
(C) First Final Flow Pressure	<u>898</u>	<u>927</u>	PSI	Recorder No. <u>13254</u>	T-Open <u>14:43</u>	
(D) Initial Shut-In Pressure	<u>1074</u>	<u>1083</u>	PSI	(depth) <u>3550</u>	T-Pulled <u>17:58</u>	
(E) Second Initial Flow Pressure	<u>981</u>	<u>940</u>	PSI	Recorder No. _____	T-Out <u>21:50</u>	
(F) Second Final Flow Pressure	<u>1063</u>	<u>1082</u>	PSI	(depth) _____	T-Off Location <u>22:00</u>	
(G) Final Shut-in Pressure	<u>1074</u>	<u>1089</u>	PSI	Initial Opening <u>30</u>	Test <u>300</u>	
(Q) Final Hydrostatic Mud	<u>1205</u>	<u>1722</u>	PSI	Initial Shut-in <u>45</u>	Jars _____	
				Final Flow <u>30</u>	Safety Joint _____	
				Final Shut-in <u>90</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 _____

Our Representative Don Rangle

Extra Packer _____

Elec. Rec. X 150

Mileage _____

Other 1 = 45

TOTAL PRICE \$ 795

TRILOBITE TESTING L.L.C.

OPERATOR : Shields Oil Producers DATE 5-15-00
 WELL NAME: Greathouse #5 KB 1984.00 ft TICKET NO: 13186 DST #5
 LOCATION : 19-11-19 Ellis co KS GR 1979.00 ft FORMATION: Arbuckle
 INTERVAL : 3565.00 To 3573.00 ft TD 3573.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	3024					PF Fr. 0720 to 0750 hr
SI 45 Range(Psi)	4995.0	0.0	0.0	0.0	0.0	IS Fr. 0750 to 0835 hr
SF 45 Clock(hrs)	elect					SF Fr. 0835 to 0920 hr
FS 90 Depth(ft)	3567.0	0.0	0.0	0.0	0.0	FS Fr. 0920 to 1050 hr

	Field	1	2	3	4	
A. Init Hydro	1746.0	0.0	0.0	0.0	0.0	T STARTED 0529 hr
B. First Flow	19.0	0.0	0.0	0.0	0.0	T ON BOTM 0717 hr
B1. Final Flow	89.0	0.0	0.0	0.0	0.0	T OPEN 0720 hr
C. In Shut-in	1011.0	0.0	0.0	0.0	0.0	T PULLED 1050 hr
D. Init Flow	91.0	0.0	0.0	0.0	0.0	T OUT 1230 hr
E. Final Flow	137.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	1053.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1711.0	0.0	0.0	0.0	0.0	Tool Wt. 800.00 lbs
Inside/Outside	I					Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 49000.00 lbs
						Unseated Str Wt 50000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3565.00 ft
						H.W. I.D 3.80 in
						H.W. Length 222.00 ft

RECOVERY

Tot Fluid 280.00 ft of 0.00 ft in DC and 280.00 ft in DP
 30.00 ft of Oil cut mud
 0.00 ft of 10% oil 90% mud
 250.00 ft of Muddy water
 0.00 ft of
 SALINITY 35000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak building to 6" fair blow

Final Flow:
 Weak building to 1 1/2"

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/c
 Vis. 44.00 S/L
 W.L. 9.00 in3
 F.C. 0.00 in
 Mud Drop N
 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
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Dan Bangle
 Co. Rep. Todd Morgenstern
 Contr. Shields
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Greathouse #5

LOCATION : 19-11-19 Ellis co KS

TICKET No. 13186 D.S.T. No. 5 DATE 6-15-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 8

TOTAL TOOL 28

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 28

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands57 Single 1 Total 3565

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3593

TOTAL DEPTH 3573

TOTAL DRILL PIPE ABOVE K.B. 20

REMARKS:

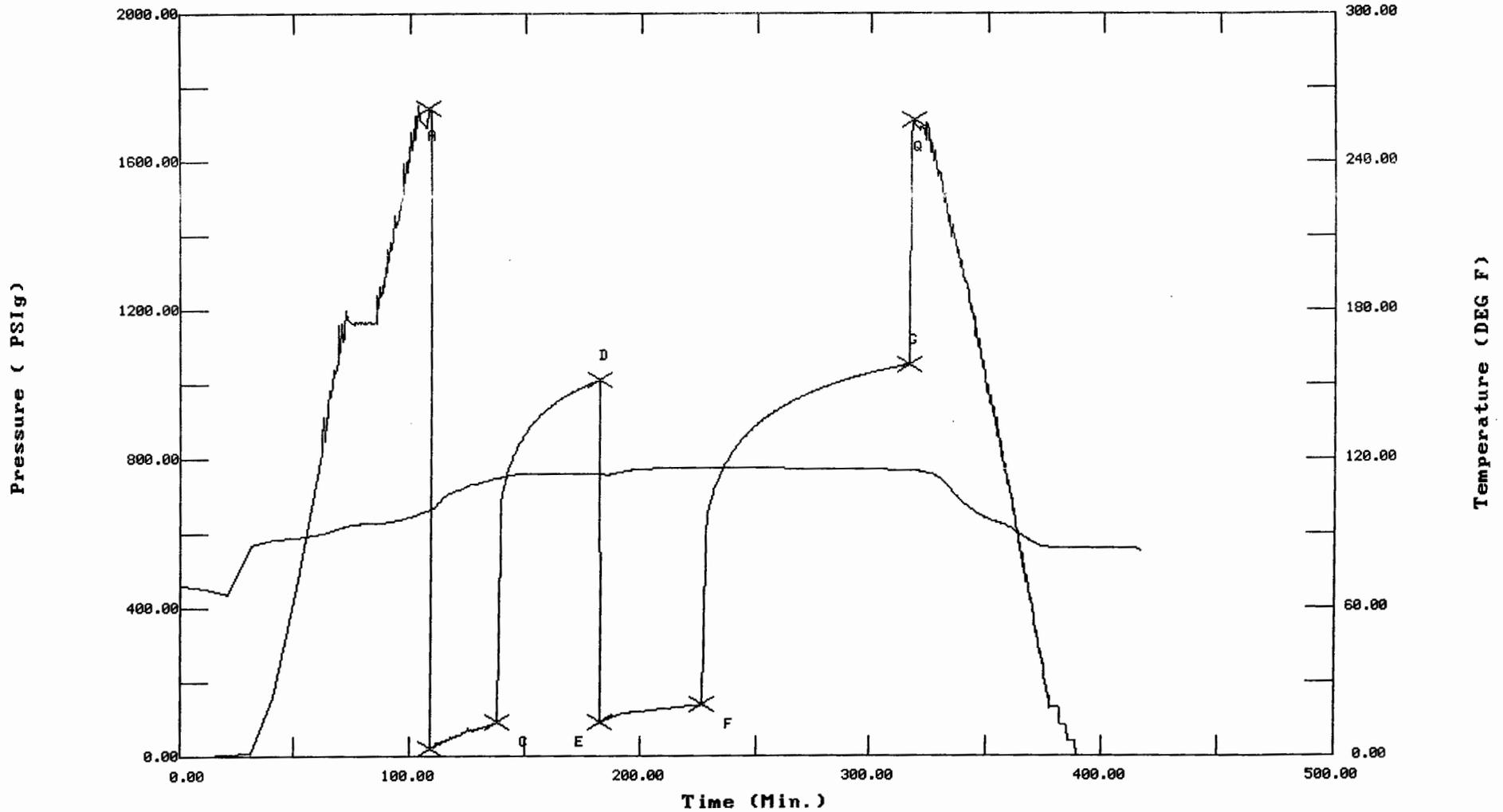
	P.O. SUB	3425
	C.O. SUB	3545
	S.I. TOOL	3551
	HMV	3556
	JARS n/a	
	SAFETY JOINT n/a	
	PACKER	3560
	PACKER	3565
	- DEPTH 3565	
	1'	3566
	- ANCHOR	
	- Alpine @ 3567	
	4' Perfs	3570
	BULLNOSE 3' Perfs	3573
	- T.D.	3573

TEST HISTORY

Tk# 13186 DST# 5 Greathouse #5 Shields Oil Producers

Flag Points
t(Min.) P(PSig)

A:	0.00	1745.92
B:	0.00	19.45
C:	29.00	89.21
D:	44.00	1011.36
E:	0.00	90.57
F:	44.50	136.87
G:	89.50	1053.36
Q:	0.00	1710.73



540060

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 13186

Test Ticket

Well Name & No. #5 Greathouse Test No. 5 Date 6-15-00
 Company Shields Oil Producers Zone Tested Arbuckle
 Address _____ Elevation 1984 KB 1979 GL
 Co. Rep / Geo. Todd Morgenstern Cont. Shields Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 19 Twp. 11 Rge. 19 Co. Ellis State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3565-3573 Initial Str Wt./Lbs. 49,000 Unseated Str Wt./Lbs. 50,000
 Anchor Length 8 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth 3560 Tool Weight 800
 Bottom Packer Depth 3565 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Total Depth 3573 Wt. Pipe Run 222 Drill Collar Run _____
 Mud Wt. 9.2 LCM _____ Vis. 44 WL 9 Drill Pipe Size 4.5 XH Ft. Run 3565
 Blow Description I.F. Weak-building to 6" fair blow.

E.F. Weak-building to 1 1/2"

Recovery — Total Feet 280 GIP _____ Ft. in DC _____ Ft. in DP 280
 Rec. 30 Feet Of O.C.M. %gas 10 %oil _____ %water 90 %mud _____
 Rec. 250 Feet Of mdy wtr. %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 115 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API _____
 RW .18 @ 80 °F Chlorides 35,000 ppm Recovery Chlorides 8,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1746</u>		<u>3024</u>	<u>04:50</u>
(B) First Initial Flow Pressure		<u>19</u>		(depth) <u>3567</u>	T-Started <u>05:29</u>
(C) First Final Flow Pressure		<u>89</u>		Recorder No. <u>19254</u>	T-Open <u>07:20</u>
(D) Initial Shut-In Pressure		<u>1011</u>		(depth) _____	T-Pulled <u>10:50</u>
(E) Second Initial Flow Pressure		<u>91</u>		Recorder No. _____	T-Out <u>12:30</u>
(F) Second Final Flow Pressure		<u>137</u>		(depth) _____	T-Off Location _____
(G) Final Shut-in Pressure		<u>1053</u>		PSI Initial Opening <u>30</u>	Test <u>300</u>
(Q) Final Hydrostatic Mud		<u>1711</u>		PSI Initial Shut-in <u>45</u>	Jars _____
				Final Flow <u>45</u>	Safety Joint _____
				Final Shut-in <u>90</u>	Straddle _____

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Approved By Todd E. Morgenstern
 Our Representative Dan Ruffe

Extra Packer _____
 Elec. Rec. X 150
 Mileage _____
 Other _____
 TOTAL PRICE \$ 750