

Computer inventoried

ORIGINAL

Well Name: J. Donovan A-1
Company: Woolsey Petroleum Corp.
Location: 8-34s-13w
Barber County Kansas
Date: 9/28/98

RELEASED KGC

MAR 28 2001 10 00 1999

CONFIDENTIAL

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl.Corp. DATE 09-16-98
WELL NAME: J.Donovan A-1 KB 1855.00 ft TICKET NO: 11824 DST #1
LOCATION : 8-34s-13w Barber co. KS GR 1847.00 ft FORMATION: Lans A
INTERVAL : 4299.00 To 4315.00 ft TD 4315.00 ft TEST TYPE: CONVENTIONAL

CONFIDENTIAL

RECORDER DATA

Table with columns: Mins, Field, 1, 2, 3, 4, TIME DATA. Rows include PF 30 Rec., SI 60 Range(Psi), SF 60 Clock(hrs), FS 240 Depth(ft).

Table with columns: Field, 1, 2, 3, 4. Rows include A. Init Hydro, B. First Flow, Bl. Final Flow, C. In Shut-in, D. Init Flow, E. Final Flow, F. Fl Shut-in, G. Final Hydro, Inside/Outside.

RECOVERY

Tot Fluid 890.00 ft of 0.00 ft in DC and 890.00 ft in DP
0.00 ft of
210.00 ft of Muddy water 30% mud 70% water
680.00 ft of Gassy salt water. est.5%g 95%w
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of Rw .057 ohms @ 88 degrees F.
0.00 ft of EST.FT. of PAY-----7
SALINITY 122000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA-----
Tool Wt. 2100.00 lbs
Wt Set On Packer 20000.00 lbs
Wt Pulled Loose 68000.00 lbs
Initial Str Wt 49000.00 lbs
Unseated Str Wt 54000.00 lbs
Bot Choke 0.75 in
Hole Size 7.88 in
D Col. ID 2.25 in
D. Pipe ID 3.80 in
D.C. Length 0.00 ft
D.P. Length 4297.00 ft

BLOW DESCRIPTION

Initial Flow:
Strong blow bottom of bucket in
1-2 secs. gas to surface in 7 mins.
Initial Shut-in:
Fair blow.
Final Flow:
Strong blow (see gas volume report)
Final Shut-in:
Weak blow

KCC
JUN 08 1999
CONFIDENTIAL

RELEASED

MAR 28 2001

FROM CONFIDENTIAL

SAMPLES: gas sample
SENT TO:Caraway/Liberal

MUD DATA-----
Mud Type Chemical
Weight 9.20 lb/cf
Vis. 44.00 S/L
W.L. 7.20 in3
F.C. 0.20 in
Mud Drop N
Amt. of fill 0.00 ft
Btm. H. Temp. 121.00 F
Hole Condition Good
% Porosity 15.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00 N
Cushion Type None
Reversed Out N
Tool Chased N
Tester Gary Pevoteaux
Co. Rep. Mike Maune
Contr. Duke Drlg.
Rig # 2
Unit #
Pump T. LCM 0#/bl

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: J.Donovan A-1

LOCATION : 8-34s-13w Barber co. KS

TICKET No. 11824 D.S.T. No. 1 DATE 09-16-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 16

TOTAL TOOL 43

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 43

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands68 Single 1 Total 4297

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4340

TOTAL DEPTH 4315

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

Comments:Fax reports early AM.

FLUID SAMPLER DATA (not run)

GAS----- cubic ft
 OIL-----
 MUD-----
 WATER-----
 OTHER-----
 PRESSURE----- PSI
 Rw ----- ohms @
 Chlorides--- ppm. / deg. F.
 GRAVITY----- n/a

P.O. SUB	
C.O. SUB @ top of tool	4272
S.I. TOOL Sterling	4278
HMV Sterling	4283
JARS Bowen	4288
SAFETY JOINT Bowen	4290
PACKER Top	4294
PACKER Btm.	4299
DEPTH 4299	
STUBB 1 ft.	4300
ANCHOR perfs	
Alpine rec. @	4305
T.C. DEPTH	
10 ft. perfs to	4310
AK-1 rec. @	4312
BULLNOSE 5 ft. perforated	4315
T.D.	

TEST HISTORY
 11824 DST#1 J. DONOUAN A-1 WOOLSEY PETL. CORP.

Flag Points

t (Min.)	P (PSig)
R: 0.00	2052.28
B: 0.00	347.62
C: 29.25	287.95
D: 60.25	923.45
E: 0.00	256.06
F: 59.50	445.06
G: 240.75	1260.25
Q: 0.00	2027.27

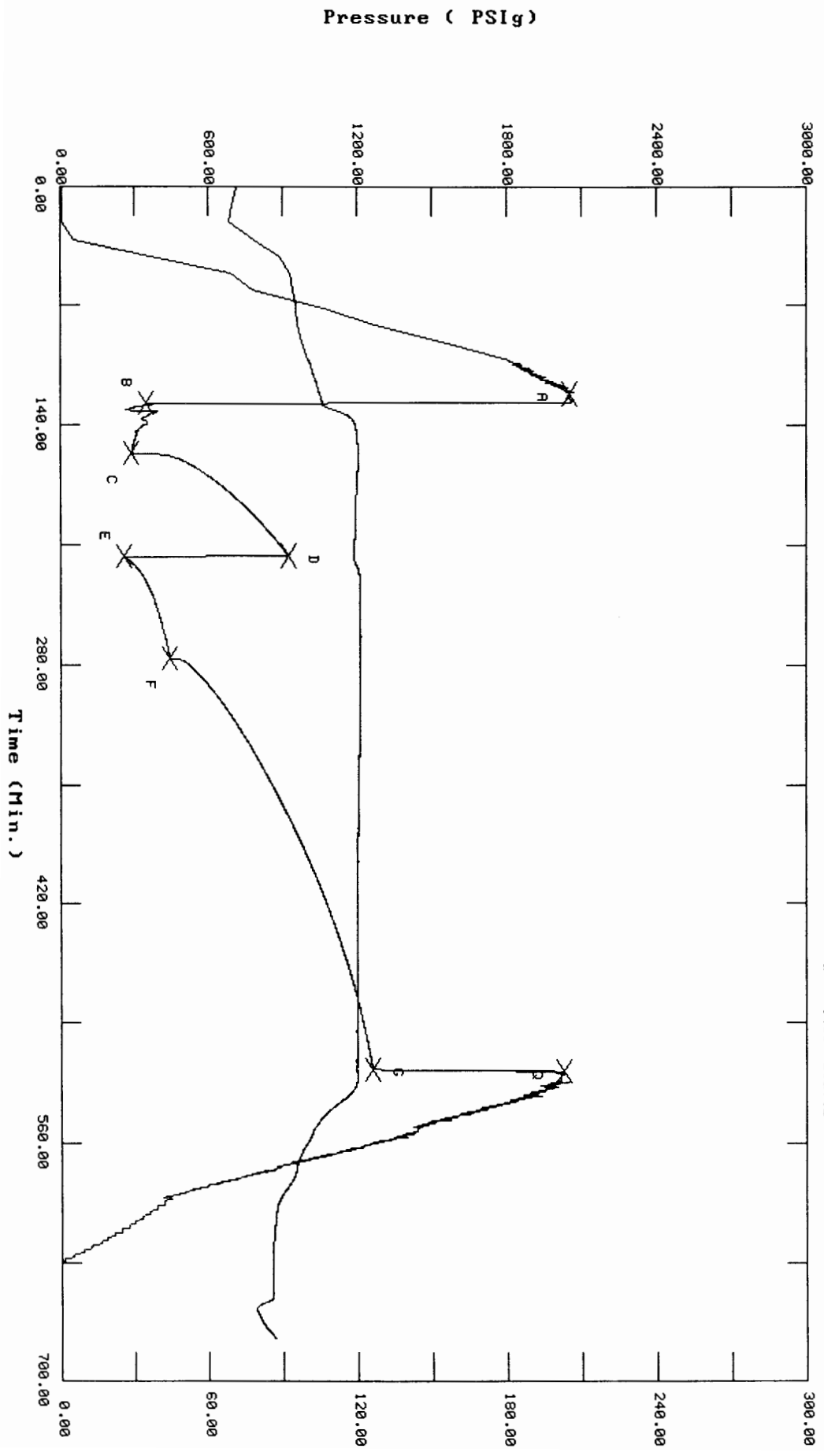


CHART PAGE

DST#1

10248

SAMMED

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 11824

Well Name & No. <u>Donovan A-1</u>	Test No. <u>1</u>	Date <u>9-16-98</u>
Company <u>Woolsey Petr. Corp.</u>	Zone Tested <u>LANS A</u>	
Address <u>125 N MARKET STREET, 1000, WICHITA KS. 67202</u>		Elevation <u>1855</u> KB <u>1847</u> GL
Co. Rep / Geo. <u>Michael Maune</u>	Cont. <u>Dick Dico #2</u>	Est. Ft. of Pay <u>7</u> Por. <u>5</u> %
Location: Sec. <u>8</u>	Twp. <u>34^s</u>	Rge. <u>13^w</u> Co. <u>BARBER</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>—</u> Evaluation (Y, N) <u>—</u>

Interval Tested <u>4299 - 4315'</u>	Initial Str Wt./Lbs. <u>49,000</u>	Unseated Str Wt./Lbs. <u>54,000</u>
Anchor Length <u>16'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>68,000</u>
Top Packer Depth <u>4294'</u>	Tool Weight <u>2,100 #</u>	
Bottom Packer Depth <u>4299'</u>	Hole Size — 7 7/8" <u>L</u>	Rubber Size — 6 3/4" <u>L</u>
Total Depth <u>4315'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>None</u>
Mud Wt. <u>9.2</u> LCM <u>0</u> Vis. <u>44</u> WL <u>7.2 cc</u>	Drill Pipe Size <u>4 1/2" X.H.</u>	Ft. Run <u>4297'</u>
Blow Description <u>IF: Strong below BOB in 1-2 sec. GTS in 7 mins. (see gas volume report) ISI: Fair below FF: Strong below. (see gas volume report) FSI: Weak below.</u>		

Recovery — Total Feet <u>890</u> Fluid GIP <u>yes</u>	Ft. in DC <u>~</u>	Ft. in DP <u>890</u>
Rec. <u>210</u> Feet Of <u>M.W.</u>	%gas	%oil <u>70</u> %water <u>30</u> %mud
Rec. <u>680</u> Feet Of <u>Crassy Salt Water cut 5</u>	%gas	%oil <u>95</u> %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>121</u> °F Gravity <u>N/A</u>	°API D@ <u>~</u>	°F Corrected Gravity <u>N/A</u> °API
RW <u>.057</u> @ <u>88</u> °F Chlorides <u>122,000</u> ppm Recovery	Chlorides <u>5900</u> ppm System	

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2052</u>	PSI	Recorder No. <u>alp. 2342</u>	T-On Location <u>0450</u>	
(B) First Initial Flow Pressure	<u>348</u>	PSI	(depth) <u>4305'</u>	T-Started <u>0601</u>	
(C) First Final Flow Pressure	<u>288</u>	PSI	Recorder No. <u>10248</u>	T-Open <u>0808</u>	
(D) Initial Shut-In Pressure	<u>923</u>	PSI	(depth) <u>4312'</u>	T-Pulled <u>1440</u>	
(E) Second Initial Flow Pressure	<u>256</u>	PSI	Recorder No. <u>~</u>	T-Out <u>1650</u>	
(F) Second Final Flow Pressure	<u>445</u>	PSI	(depth) <u>~</u>	T-Off Location <u>1735</u>	
(G) Final Shut-in Pressure	<u>1260</u>	PSI	Initial Opening <u>30</u>	Test <u>✓ 700^{cc}</u>	
(Q) Final Hydrostatic Mud	<u>2027</u>	PSI	Initial Shut-in <u>60</u>	Jars <u>✓ 200^{cc}</u>	
			Final Flow <u>60</u>	Safety Joint <u>✓ 50^{cc}</u>	
			Final Shut-in <u>120</u>	Straddle _____	
				Circ. Sub _____	
				Sampler _____	
				Extra Packer _____	
				Elec. Rec. <u>✓ 150^{cc}</u>	
				Mileage _____	
				Other <u>Time ✓</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 Michael Maune

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl.Corp. DATE 09-18-98
WELL NAME: J.Donovan A-1 KB 1855.00 ft TICKET NO: 11825 DST #2
LOCATION : 8-34s-13w Barber co. Ks GR 1847.00 ft FORMATION: Lans I
INTERVAL : 4686.00 To 4707.00 ft TD 4707.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13638	13638	2342			PF Fr. 0350 to 0420 hr
SI 60 Range(Psi)	4650.0	4650.0	4995.0	0.0	0.0	IS Fr. 0420 to 0520 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0520 to 0620 hr
FS 275 Depth(ft)	4704.0	4704.0	4691.0	0.0	0.0	FS Fr. 0620 to 1055 hr

	Field	1	2	3	4	
A. Init Hydro	2181.0	2165.0	2246.0	0.0	0.0	T STARTED 0159 hr
B. First Flow	56.0	79.0	23.0	0.0	0.0	T ON BOTM 0345 hr
B1. Final Flow	56.0	68.0	35.0	0.0	0.0	T OPEN 0350 hr
C. In Shut-in	1611.0	1588.0	1645.0	0.0	0.0	T PULLED 1055 hr
D. Init Flow	56.0	53.0	26.0	0.0	0.0	T OUT 1230 hr
E. Final Flow	63.0	53.0	48.0	0.0	0.0	
F. Fl Shut-in	1716.0	1630.0	1722.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2165.0	2165.0	2223.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 98000.00 lbs
						Initial Str Wt 53000.00 lbs
						Unseated Str Wt 55000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 4673.00 ft

RECOVERY

Tot Fluid 62.00 ft of 0.00 ft in DC and 62.00 ft in DP
496.00 ft of Gas in pipe.
62.00 ft of Muddy Water 32% mud 68% water
0.00 ft of oil scum at top of tool.
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of Rw .066 ohms @ 90 degrees F.
0.00 ft of EST.FT. of PAY-----5
SALINITY 106000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----
Mud Type Chemical
Weight 9.10 lb/cf
Vis. 45.00 S/L
W.L. 8.80 in3
F.C. 0.20 in
Mud Drop N
Amt. of fill 5.00 ft
Btm. H. Temp. 122.00 F
Hole Condition Fair
% Porosity 12.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00 N
Cushion Type None
Reversed Out N
Tool Chased Y 3.00 ft
Tester Gary Pevoteaux
Co. Rep. Mike Maune
Contr. Duke Drlg.
Rig # 2
Unit #
Pump T. LCM 0#/bl

BLOW DESCRIPTION

Initial Flow:
Fair to strong blow bottom of bucket
in 11 mins.
Initial Shut-in:
No blow.
Final Flow:
Fair to strong blow bottom of
bucket in 26 mins.
Final Shut-in:
No blow

SAMPLES: None
SENT TO:Caraway/Liberal

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: J.Donovan A-1

LOCATION : Sec.08 Twp.34s Rg.13w Ks

TICKET No. 11825 D.S.T. No. 2 DATE 09-18-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

TOTAL TOOL TO BOTTOM OF TOP PACKERS AND ANCHOR 21

TOTAL TOOL 48

DRILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STAND.Stands Single Total

P. ANCHOR STAND.Stands Single Total

TOTAL ASSEMBLY 48

C. ABOVE TOOLS.Stands Single Total

P. ABOVE TOOLS.Stands75 Single 1 Total 4673

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4721

TOTAL DEPTH 4707

TOTAL DRILL PIPE ABOVE K.B. 14

REMARKS:

Comments: Fax reports early AM. Hit bridge @ approx. 4300'. Slid tool 3 ft. to btm.

FLUID SAMPLER DATA (not run)

WAS----- cubic ft

IL-----

UD-----

WATER-----

OTHER-----

PRESSURE----- PSI

Flow ----- ohms @

Chlorides--- ppm. / deg. F.

DENSITY----- n/a

P.O. SUB	
C.O. SUB @ top of tool	4659
S.I. TOOL Sterling	4665
HMV Sterling	4670
JARS Bowen	4675
SAFETY JOINT Bowen	4677
PACKER Top	4681
PACKER Btm.	4686
DEPTH 4686	
STUBB 1 ft.	4687
ANCHOR	
perfs	
Alpine rec. @	4691
T.C. DEPTH	
15 ft. perfs to	4702
AK-1 rec. @	4704
BULLNOSE 5 ft. perforated	4707
T.D.	

11825 DST#2 J. DONOVAN A-1 WOOLSEY PETL. CORP.

TEST HISTORY

Flag Points

t (Min.)	P (PSig)
A: 0.00	2246.49
B: 0.00	22.65
C: 29.75	35.33
D: 59.75	1644.81
E: 0.00	25.84
F: 59.00	47.33
G: 273.00	1722.36
Q: 0.00	2233.31

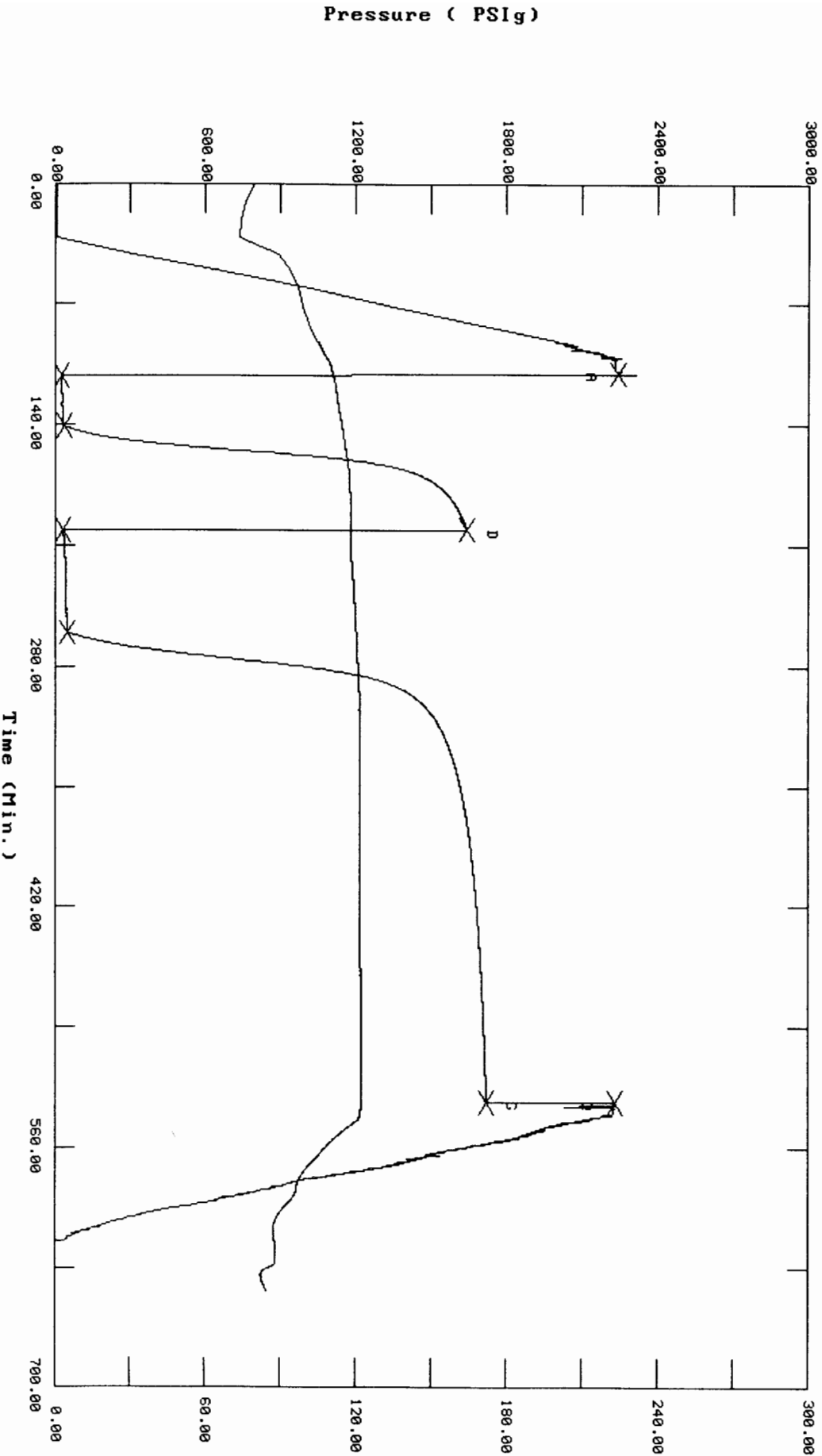
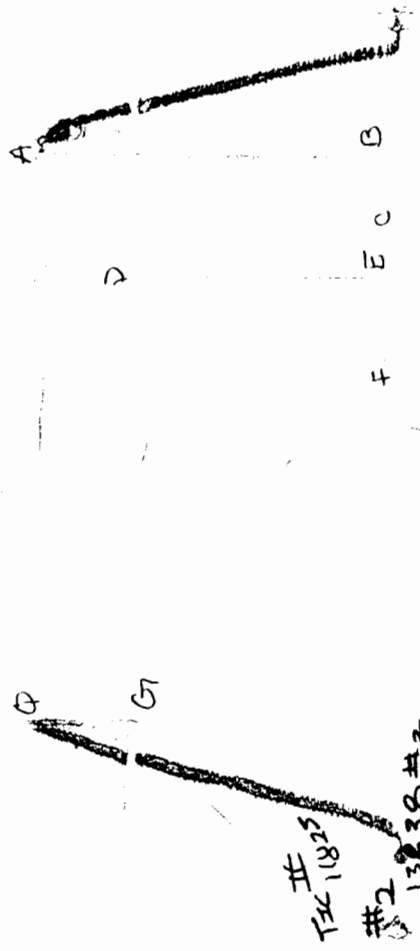


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11825

Well Name & No. <u>S. DONOHAN A-1</u>	Test No. <u>2</u>	Date <u>9-18-98</u>
Company <u>WOOLSEY PETR. CORP.</u>	Zone Tested <u>LANS I</u>	
Address <u>125 N. MARKET STREET, 000 WICHITA KS 67202</u>	Elevation <u>1895</u>	KB <u>1897</u> GL
Co. Rep / Geo. <u>MIKE MAUNE</u>	Cont. <u>DUKE DRUG #2</u>	Est. Ft. of Pay <u>5</u> Por. <u>12</u> %
Location: Sec. <u>8</u>	Twp. <u>34S</u>	Rge. <u>13W</u> Co. <u>BARBER</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested 4686 - 4707' Initial Str Wt./Lbs. 53,000 Unseated Str Wt./Lbs. 55,000
 Anchor Length 21' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 98,000
 Top Packer Depth 4681' Tool Weight 2100#
 Bottom Packer Depth 4686' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 4707' Wt. Pipe Run None Drill Collar Run None
 Mud Wt. 9.1 LCM 0 Vis. 45 WL 8.8cc Drill Pipe Size 4 1/2" x H. Ft. Run 4673'
 Blow Description IF: Fair to strong below. BOB in 11 mins.
ISI: No blow.

FF: Fair to strong below. BOB in 26 mins. FSI: No blow
COMMENT: HIT BRIDGE @ APPROX 4300'. SLED TOOL 3 FT. TO BIM.

Recovery — Total Feet 62 Fluid GIP 496' Ft. in DC - Ft. in DP 62'
 Rec. 62 Feet Of MW %gas %oil 68 %water 32 %mud
 Rec. - Feet Of Oil seam @ top %gas %oil %water %mud
 Rec. - Feet Of of tool %gas %oil %water %mud
 Rec. - Feet Of %gas %oil %water %mud
 Rec. - Feet Of %gas %oil %water %mud
 BHT 122 °F Gravity N/A °API D@ - °F Corrected Gravity N/A °API
 RW .066 @ 90 °F Chlorides 106,000 ppm Recovery Chlorides 6,100 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2181</u>	<u>2246</u>	<u>alp.</u>	<u>2342</u>	<u>0141</u>
(B) First Initial Flow Pressure	<u>56</u>	<u>23</u>	PSI (depth)	<u>4691'</u>	<u>0159</u>
(C) First Final Flow Pressure	<u>56</u>	<u>35</u>	PSI Recorder No.	<u>13638</u>	<u>0350</u>
(D) Initial Shut-In Pressure	<u>1611</u>	<u>1645</u>	PSI (depth)	<u>4704'</u>	<u>1055</u>
(E) Second Initial Flow Pressure	<u>56</u>	<u>26</u>	PSI Recorder No.	<u>-</u>	<u>1230</u>
(F) Second Final Flow Pressure	<u>63</u>	<u>47</u>	PSI (depth)	<u>-</u>	<u>1315</u>
(G) Final Shut-in Pressure	<u>1716</u>	<u>1722</u>	PSI Initial Opening	<u>30</u>	Test <u>✓ 700⁰⁰</u>
(Q) Final Hydrostatic Mud	<u>2145</u>	<u>2234</u>	PSI Initial Shut-in	<u>60</u>	Jars <u>✓ 200⁰⁰</u>
			Final Flow	<u>60</u>	Safety Joint <u>✓ 50⁰⁰</u>
			Final Shut-in	<u>275</u>	Straddle <u>-</u>
				<u>✓</u>	Circ. Sub <u>-</u>
					Sampler <u>-</u>
					Extra Packer <u>-</u>
					Elec. Rec. <u>✓ 150⁰⁰</u>
					Mileage <u>-</u>
					Other <u>TIME ✓</u>

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Approved By Michael K Maune

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl.Corp. DATE 09-19-98
 WELL NAME: J.Donovan A-1 KB 1855.00 ft TICKET NO: 11551 DST #3
 LOCATION : 8-34s-13w Barber co. KS GR 1847.00 ft FORMATION: Miss.
 INTERVAL : 4894.00 To 4950.00 ft TD 4950.00 ft TEST TYPE: CONVENTIONAL

RECORDED DATA

Mins	Field	1	2	3	4	TIME DATA-----
15	30 Rec.	10248	10248	2342		PF Fr. 1807 to 1837 hr
15	60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0 IS Fr. 1837 to 1937 hr
15	60 Clock(hrs)	12 hr	12 hr	batt.		SF Fr. 1937 to 2037 hr
15	240 Depth(ft)	4947.0	4947.0	4904.0	0.0	0.0 FS Fr. 2037 to 0037 hr

	Field	1	2	3	4	
1.	Init Hydro	2371.0	2368.0	2370.0	0.0	0.0 T STARTED 1535 hr
2.	First Flow	57.0	48.0	21.0	0.0	0.0 T ON BOTM 1802 hr
3.	Final Flow	63.0	48.0	26.0	0.0	0.0 T OPEN 1807 hr
4.	In Shut-in	480.0	472.0	467.0	0.0	0.0 T PULLED 0038 hr
5.	Init Flow	57.0	48.0	23.0	0.0	0.0 T OUT 0230 hr
6.	Final Flow	64.0	48.0	32.0	0.0	0.0
7.	Fl Shut-in	1412.0	1406.0	1408.0	0.0	0.0
8.	Final Hydro	2338.0	2327.0	2340.0	0.0	0.0
	Inside/Outside	O	O	I	T	

RECOVERY

Tot Fluid	30.00 ft of	0.00 ft in DC and	30.00 ft in DP	Unseated Str Wt	56000.00 lbs
310.00	ft of Gas in pipe.			Bot Choke	0.75 in
30.00	ft of Heavy mud.			Hole Size	7.88 in
0.00	ft of			D Col. ID	2.25 in
0.00	ft of			D. Pipe ID	3.80 in
0.00	ft of			D.C. Length	0.00 ft
0.00	ft of			D.P. Length	4891.00 ft
0.00	ft of Rw n.c. ohms @	degrees F.			
0.00	ft of EST.FT. of PAY	-----10			
SALINITY	5500.00 P.P.M.	A.P.I. Gravity	0.00		

BLOW DESCRIPTION

Initial Flow:
 Weak to fair blow slow increase to 8"

Initial Shut-in:
 No blow.

Final Flow:
 Fair blow (6-12")

Final Shut-in:
 No blow

SAMPLES: None
 SENT TO: Caraway/Liberal

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	45.00 S/L
W.L.	9.60 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	123.00 F
Hole Condition	Good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Mike Maune
Contr.	Duke Drlg.
Rig #	2
Unit #	
Pump T.	LCM 2#/bl

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: J.Donovan A-1

LOCATION : Sec.08 Twp.34s Rg.13w Ks

TICKET No. 11551 D.S.T. No. 3 DATE 09-19-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 26

TOTAL TOOL 53

DRILL COLLAR ANCHOR IN INTERVAL

.C. ANCHOR STND.	Stands	Single	Total
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.P. ANCHOR STND.	Stands	Single	1	Total	30
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TOTAL ASSEMBLY 83

.C. ABOVE TOOLS.	Stands	Single	Total
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.P. ABOVE TOOLS.	Stands	79	Single	Total	4891
------------------	--------	----	--------	-------	------

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4974

TOTAL DEPTH 4950

TOTAL DRILL PIPE ABOVE K.B. 24

REMARKS:

Comments: Fax reports early AM.

FLUID SAMPLER DATA (not run)

AS-----	-----	cubic ft
IL-----	-----	
UD-----	-----	
ATER-----	-----	
THER-----	-----	
RESSURE-----	-----	PSI
w-----	-----	ohms @
chlorides---	ppm. /	deg. F.
GRAVITY-----	-----	n/a

P.O. SUB	
C.O. SUB @ top of tool	4867
S.I. TOOL Sterling	4873
HMV Sterling	4878
JARS Bowen	4883
SAFETY JOINT Bowen	4885
PACKER Top	4889
PACKER Btm.	4894
DEPTH	4894
STUBB 1 ft.	4895
ANCHOR	
4' perfs & sub to	4899
Alpine rec. @	4904
1 jt. pepe to	4929
T.C.	
DEPTH	
16' perfs & sub to	4945
AK-1 rec. @	4947
BULLNOSE 5 ft. perforated	4950
T.D.	

TEST HISTORY

11551 DST#3 J. DONOVAN A-1 WOOLSEY PETL. CORP.

Flag Points

t (Min.) P (PSig)

R:	0.00	2369.86
B:	0.00	21.14
C:	29.75	25.84
D:	59.50	467.47
E:	0.00	22.57
F:	59.50	31.80
G:	240.50	1408.30
Q:	0.00	2340.15

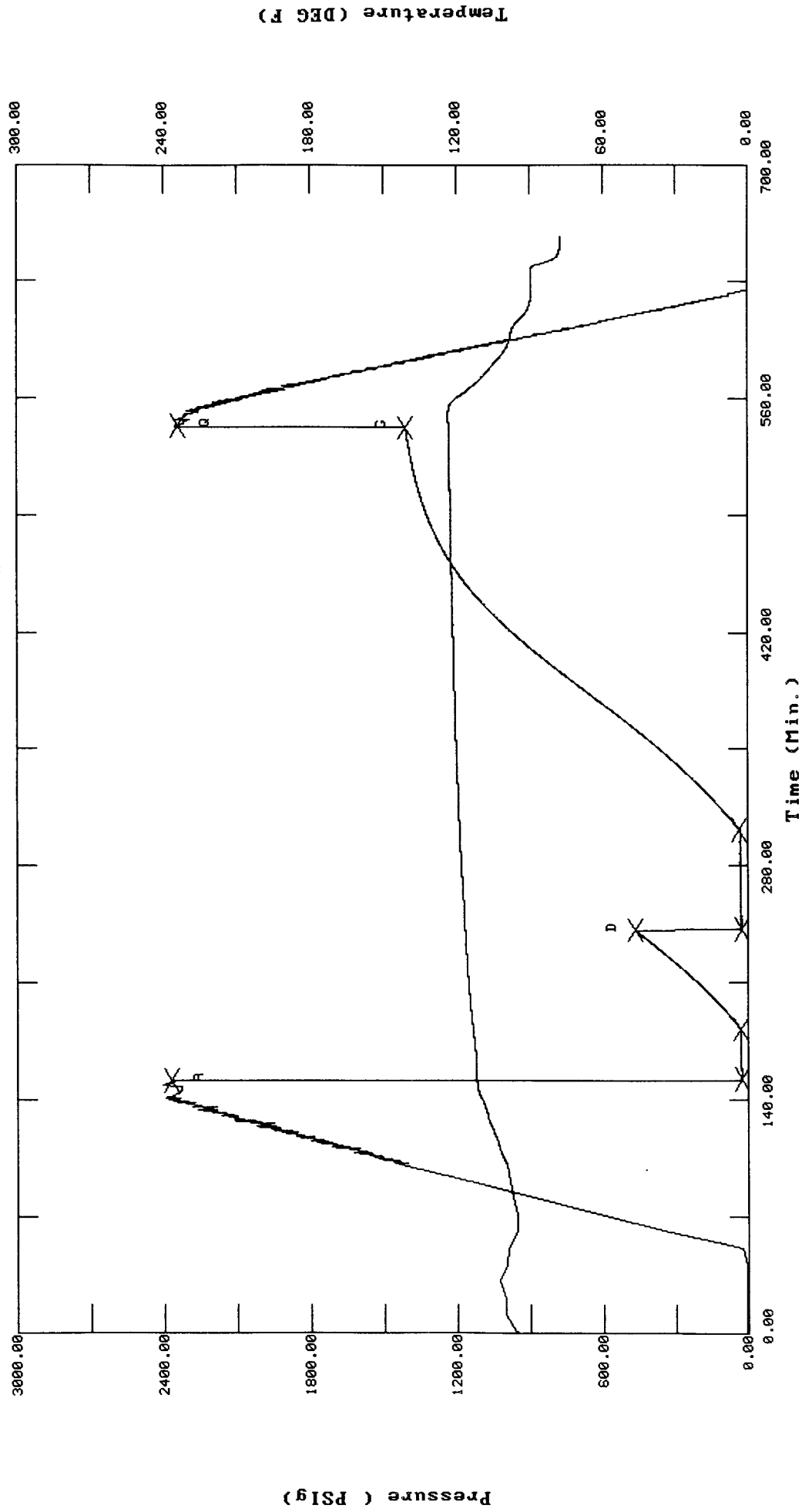
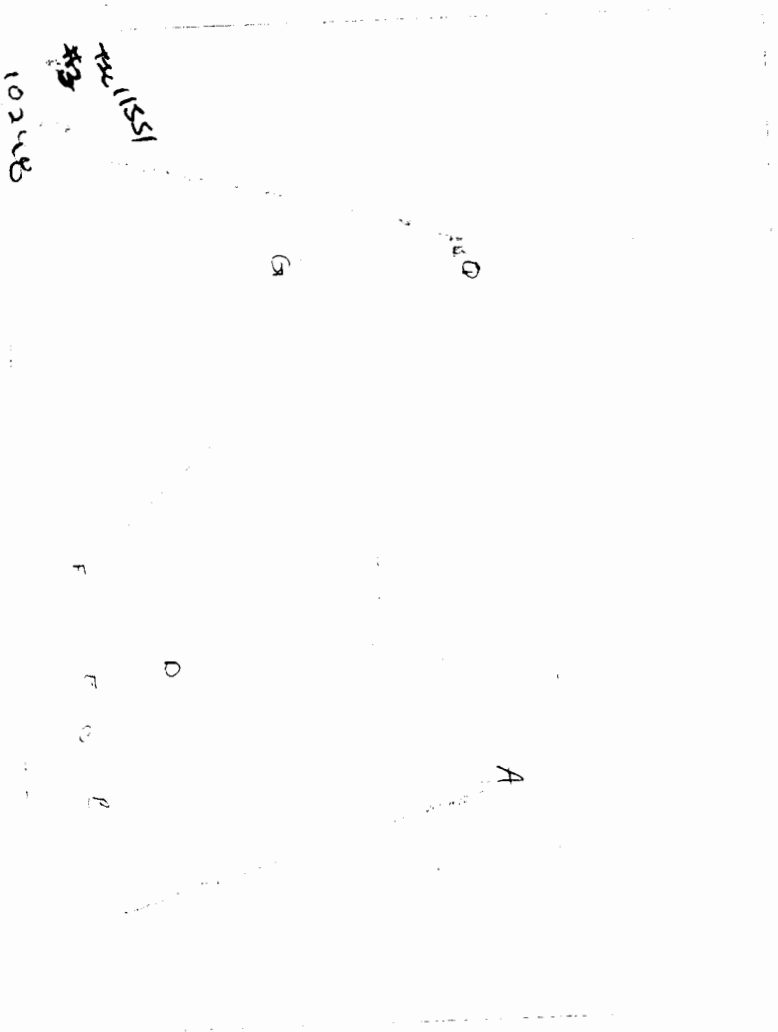


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11551

Well Name & No. <u>3, DONOVAN A-1</u>	Test No. <u>3</u>	Date <u>9-19-98</u>
Company <u>Woolsey Well Corp.</u>	Zone Tested <u>MISS.</u>	
Address <u>WICHITA KS 67202</u>	Elevation <u>1855</u> KB <u>1847</u> GL	
Co. Rep / Geo. <u>MIKE MAUNE</u> Cont. <u>DICK DRUG #2</u>	Est. Ft. of Pay <u>10</u>	Por. <u>10</u> %
Location: Sec. <u>8</u> Twp. <u>34S</u> Rge. <u>13W</u>	Co. <u>BARBER</u> State <u>KS.</u>	
No. of Copies <u>5</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested <u>4894 4950'</u>	Initial Str Wt./Lbs. <u>56000</u>	Unseated Str Wt./Lbs. <u>56000</u>
Anchor Length <u>56'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>64,000</u>
Top Packer Depth <u>4889'</u>	Tool Weight <u>2100 #</u>	
Bottom Packer Depth <u>4894'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>4950'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>None</u>
Mud Wt. <u>9.2</u> LCM <u>2#</u> Vis. <u>4S</u> WL <u>9.6cc.</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>4891'</u>
Blow Description <u>IF: waste to fair below. Blow increase to 8" @</u>		
<u>ISI: No below.</u>		
<u>FF: Fair below (6-12") FSI: No below.</u>		

Recovery — Total Feet <u>30 Flow</u> GIP <u>310'</u>	Ft. in DC <u>~</u>	Ft. in DP <u>30'</u>
Rec. <u>30</u> Feet Of <u>Heavy Mud.</u>	%gas _____	%oil _____
Rec. _____ Feet Of _____	%gas _____	%oil _____
Rec. _____ Feet Of _____	%gas _____	%oil _____
Rec. _____ Feet Of _____	%gas _____	%oil _____
Rec. _____ Feet Of _____	%gas _____	%oil _____
BHT <u>123</u> °F Gravity <u>N/A</u>	°API D@ <u>~</u>	°F Corrected Gravity <u>N/A</u>
RW <u>N.C</u> @ <u>~</u>	°F Chlorides <u>5,500</u> ppm Recovery	Chlorides <u>5,500</u> ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2371</u>	<u>2370</u>		<u>2342</u>	<u>1510</u>
(B) First Initial Flow Pressure	<u>57</u>	<u>21</u>		(depth) <u>4904'</u>	T-Started <u>1535</u>
(C) First Final Flow Pressure	<u>63</u>	<u>26</u>		Recorder No. <u>10248</u>	T-Open <u>1807</u>
(D) Initial Shut-In Pressure	<u>480</u>	<u>467</u>		(depth) <u>4947'</u>	T-Pulled <u>0038</u>
(E) Second Initial Flow Pressure	<u>57</u>	<u>23</u>		Recorder No. <u>~</u>	T-Out <u>0230</u>
(F) Second Final Flow Pressure	<u>64</u>	<u>32</u>		(depth) <u>~</u>	T-Off Location <u>0255</u>
(G) Final Shut-in Pressure	<u>1412</u>	<u>1408</u>		Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>700°</u>
(Q) Final Hydrostatic Mud	<u>2338</u>	<u>2340</u>		Initial Shut-in <u>40</u>	Jars <input checked="" type="checkbox"/> <u>200°</u>
				Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50°</u>
				Final Shut-in <u>240</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 Mike K. Maune

Extra Packer _____
 Elec. Rec. 150°
 Mileage _____
 Other TIM

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl.Corp. DATE 09-20-98
 WELL NAME: J.Donovan A-1 KB 1855.00 ft TICKET NO: 11552 DST #4
 LOCATION : 8-34s-13w Barber co. KS GR 1847.00 ft FORMATION: Miss.
 INTERVAL : 4972.00 To 5010.00 ft TD 5010.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 1625 to 1655 hr
SI 60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1655 to 1755 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 1755 to 1855 hr
FS 240 Depth(ft)	5007.0	5007.0	4978.0	0.0	0.0	FS Fr. 1855 to 2255 hr

	Field	1	2	3	4	
A. Init Hydro	2426.0	2416.0	2396.0	0.0	0.0	T STARTED 1406 hr
B. First Flow	28.0	42.0	18.0	0.0	0.0	T ON BOTM 1620 hr
31. Final Flow	30.0	42.0	23.0	0.0	0.0	T OPEN 1625 hr
C. In Shut-in	348.0	620.0	318.0	0.0	0.0	T PULLED 2257 hr
D. Init Flow	28.0	42.0	17.0	0.0	0.0	T OUT 0040 hr
E. Final Flow	28.0	42.0	23.0	0.0	0.0	
F. Fl Shut-in	1381.0	1571.0	1378.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2382.0	2386.0	2385.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 64000.00 lbs
						Initial Str Wt 56000.00 lbs
						Unseated Str Wt 56000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 4953.00 ft

RECOVERY

Tot Fluid	25.00 ft of	0.00 ft in DC and	25.00 ft in DP			
610.00	ft of Gas in pipe.					
25.00	ft of Drilling mud					
0.00	ft of					
0.00	ft of					
0.00	ft of					
0.00	ft of					
0.00	ft of Rw n.c. ohms @	degrees F.				
0.00	ft of EST.FT. of PAY-----	10				
SALINITY	5100.00 P.P.M.	A.P.I. Gravity	0.00			

BLOW DESCRIPTION

Initial Flow:
 Fair blow 2-12" in water
 Initial Shut-in:
 No blow
 Final Flow:
 Strong blow bottom of bucket in
 13 mins.
 Final Shut-in:
 No blow

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/cf
 Vis. 44.00 S/L
 W.L. 10.20 in3
 F.C. 0.20 in
 Mud Drop N
 Amt. of fill 4.00 ft
 Btm. H. Temp. 125.00 F
 Hole Condition Good
 % Porosity 11.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 N
 Cushion Type None
 Reversed Out N
 Tool Chased Y 3.00 ft
 Tester Gary Pevoteaux
 Co. Rep. Mike Maune
 Contr. Duke Drlg.
 Rig # 2
 Unit #
 Pump T. LCM 2#/bl

SAMPLES: None
 SENT TO: Caraway/Liberal

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: J.Donovan A-1

LOCATION : Sec.08 Twp.34s Rg.13w Ks

TICKET No. 11552 D.S.T. No. 4 DATE 09-20-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 38

TOTAL TOOL 65

DRILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STAND.Stands Single Total

P. ANCHOR STAND.Stands Single Total

TOTAL ASSEMBLY 65

C. ABOVE TOOLS.Stands Single Total

P. ABOVE TOOLS.Stands80 Single Total 4953

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5018

TOTAL DEPTH 5010

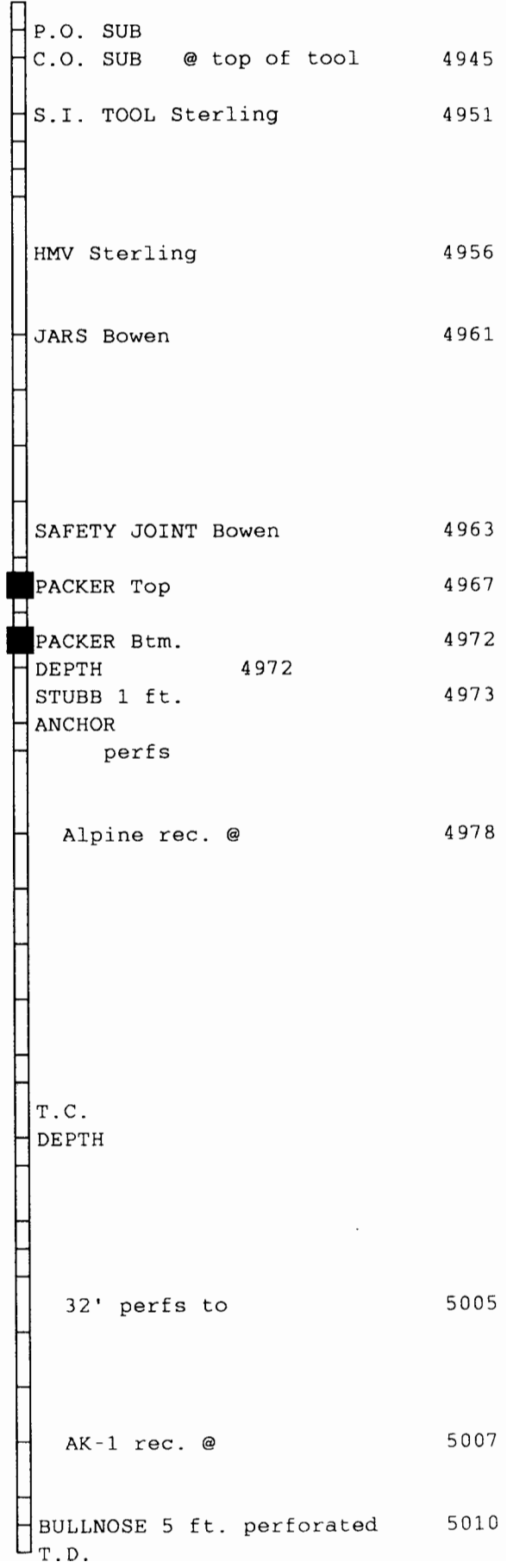
TOTAL DRILL PIPE ABOVE K.B. 8

REMARKS:

Comments: Fax reports early AM.
Slid tool 3 ft. to btm.

FLUID SAMPLER DATA (not run)

AS----- cubic ft
 IL----- ML.
 UD----- ML.
 ATER----- ML.
 THER-----
 PRESSURE----- PSI
 W ----- ohms @ deg. F.
 CHLORIDES----- ppm.
 GRAVITY----- deg.API



11852 DST#4 J. DONOVAN A-1 WOOLSEY PETL. CORP.

TEST HISTORY

Flag Points

Flag Points	t (Min.)	P (PSig)
A:	0.00	2395.63
B:	0.00	17.78
C:	29.25	23.49
D:	59.75	318.33
E:	0.00	16.69
F:	59.25	22.65
G:	242.00	1577.92
H:	0.00	2384.55

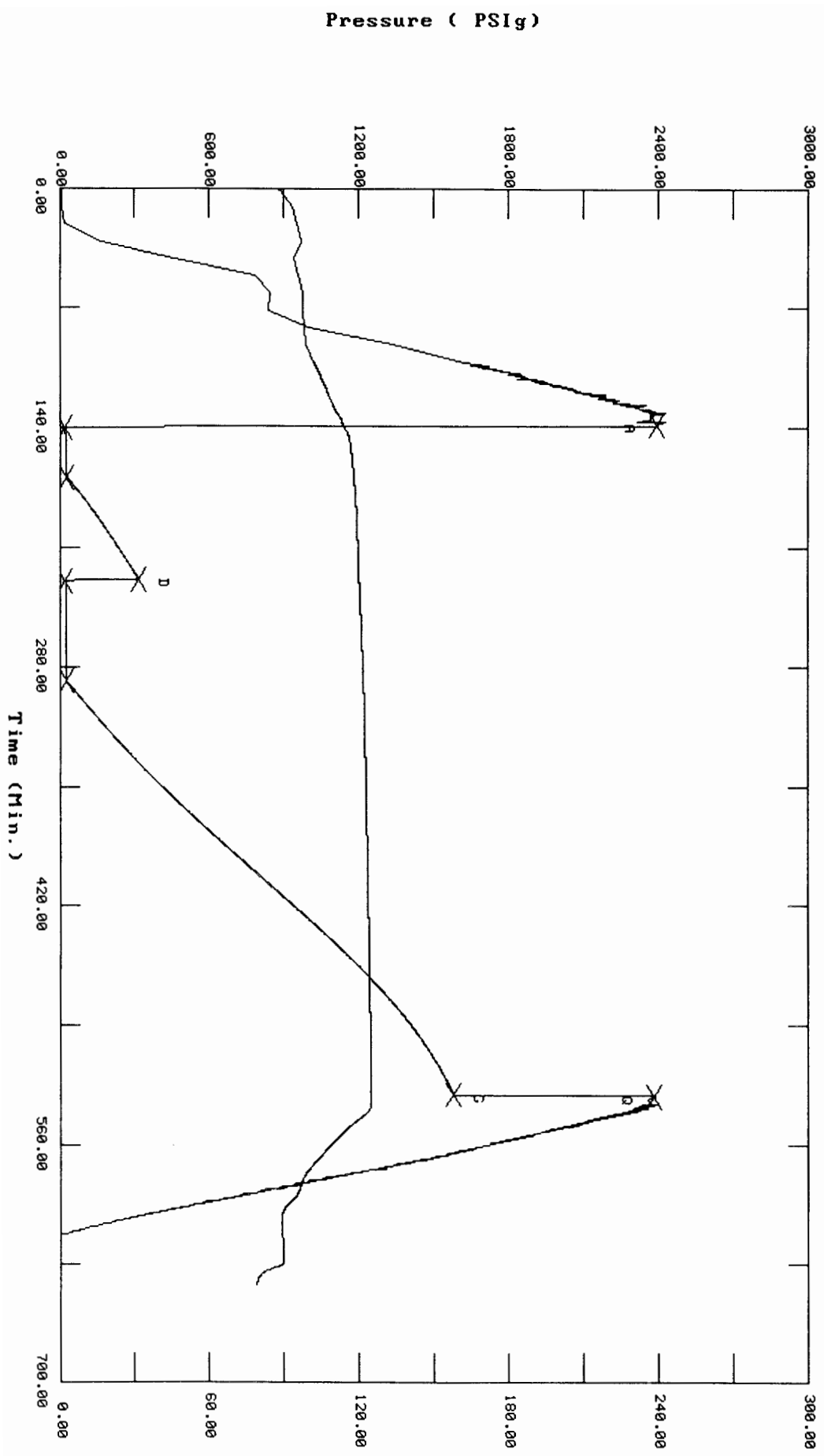
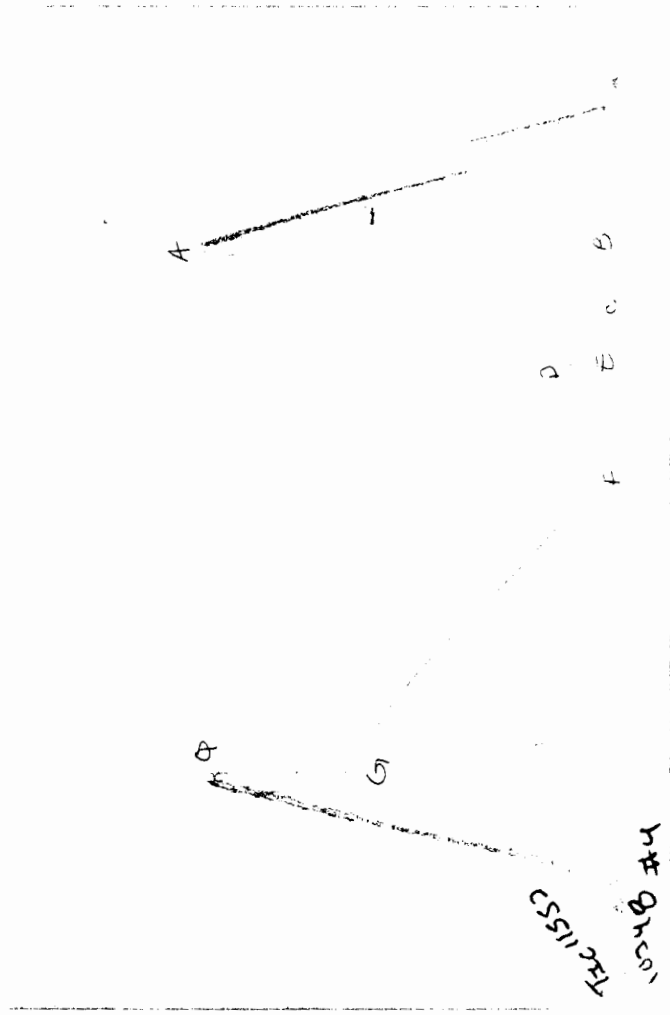


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11552

Well Name & No. <u>DONOVAN A-1</u>	Test No. <u>4</u>	Date <u>9-20-98</u>
Company <u>WOOLSEY PETL. CORP.</u>	Zone Tested <u>MISS</u>	
Address <u>WICHITA KS 67202</u>	Elevation <u>1855</u> KB <u>1847</u> GL	
Co. Rep / Geo. <u>MIKE MAUNE</u> Cont. <u>DUCE DRUG #2</u>	Est. Ft. of Pay <u>10</u> Por. <u>11</u> %	
Location: Sec. <u>8</u> Twp. <u>34S</u> Rge. <u>13W</u>	Co. <u>BARBER</u> State <u>KS</u>	
No. of Copies <u>5</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>-</u>	Evaluation (Y, N) <u>-</u>

Interval Tested <u>4972 - 5010'</u>	Initial Str Wt./Lbs. <u>54,000</u>	Unseated Str Wt./Lbs. <u>54,000</u>
Anchor Length <u>38'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>44,000</u>
Top Packer Depth <u>4967'</u>	Tool Weight <u>2100 #</u>	
Bottom Packer Depth <u>4972'</u>	Hole Size — 7 7/8" <u>✓</u>	Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u>5010'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>None</u>
Mud Wt. <u>9.2</u> LCM <u>2#</u> Vis. <u>44</u> WL <u>10.2cc.</u>	Drill Pipe Size <u>4 1/2" X.H.</u>	Ft. Run <u>49.53'</u>
Blow Description <u>IF: Fair below 2 - 12" in it²⁰</u>		

ISIN: No blow.
FF: Strong below 13 min. of bucket in 13 min. PSI: No blow.
Comment: Drill total 2-3 ft. to bottom

Recovery — Total Feet <u>25</u>	GIP <u>410</u>	Ft. in DC <u>~</u>	Ft. in DP <u>25'</u>
Rec. <u>25</u> Feet Of <u>Dreg. Mud</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>125</u> °F Gravity <u>N/A</u>	°API D@ <u>~</u>	°F Corrected Gravity <u>N/A</u>	°API
RW <u>NC.</u> @ <u>~</u>	°F Chlorides <u>5,100</u>	ppm Recovery Chlorides <u>5,100</u>	ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2426</u>	<u>2396</u>	<u>alp. 2342</u>	<u>1350</u>
(B) First Initial Flow Pressure	<u>28</u>	<u>18</u>	(depth) <u>4978'</u>	T-Started <u>1406</u>
(C) First Final Flow Pressure	<u>30</u>	<u>23</u>	Recorder No. <u>10248</u>	T-Open <u>1625</u>
(D) Initial Shut-In Pressure	<u>340</u>	<u>318</u>	(depth) <u>5007'</u>	T-Pulled <u>2257</u>
(E) Second Initial Flow Pressure	<u>28</u>	<u>17</u>	Recorder No. <u>~</u>	T-Out <u>0040</u>
(F) Second Final Flow Pressure	<u>20</u>	<u>23</u>	(depth) <u>~</u>	T-Off Location _____
(G) Final Shut-in Pressure	<u>1581</u>	<u>1518</u>	PSI Initial Opening <u>30</u>	Test <u>✓ 80000</u>
(Q) Final Hydrostatic Mud	<u>2382</u>	<u>2385</u>	PSI Initial Shut-in <u>40</u>	Jars <u>✓ 20000</u>
			Final Flow <u>60</u>	Safety Joint <u>✓ 5000</u>
			Final Shut-in <u>240</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 Mike Maune

Extra Packer _____
 Elec. Rec. ✓ 15000
 Mileage _____
 Other Int. ✓

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl.Corp. DATE 09-22-98
 WELL NAME: J.Donovan A-1 KB 1855.00 ft TICKET NO: 11553 DST #5
 LOCATION : 8-34s-13w Barber co. KS GR 1847.00 ft FORMATION: Viola
 INTERVAL : 5238.00 To 5330.00 ft TD 5330.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 1215 to 1245 hr
SI 60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1245 to 1345 hr
SF 30 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 1345 to 1415 hr
FS 180 Depth(ft)	5327.0	5327.0	5250.0	0.0	0.0	FS Fr. 1415 to 1517 hr

	Field	1	2	3	4	
A. Init Hydro	2602.0	2596.0	2559.0	0.0	0.0	T STARTED 0955 hr
B. First Flow	73.0	80.0	30.0	0.0	0.0	T ON BOTM 1211 hr
B1. Final Flow	78.0	80.0	34.0	0.0	0.0	T OPEN 1215 hr
C. In Shut-in	114.0	125.0	91.0	0.0	0.0	T PULLED 1720 hr
D. Init Flow	78.0	80.0	27.0	0.0	0.0	T OUT 1940 hr
E. Final Flow	78.0	80.0	39.0	0.0	0.0	
F. Fl Shut-in	141.0	155.0	130.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2547.0	2556.0	2519.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 59000.00 lbs
						Unseated Str Wt 59000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 5288.00 ft

RECOVERY

Tot Fluid	30.00 ft of	0.00 ft in DC and	30.00 ft in DP		
30.00	ft of Drilling mud				
0.00	ft of Oil scum at top of tool.				
0.00	ft of				
0.00	ft of				
0.00	ft of				
0.00	ft of				
0.00	ft of Rw n.c. ohms @	degrees F.			
0.00	ft of EST.FT. of PAY-----	8			
SALINITY	5000.00 P.P.M.	A.P.I. Gravity	0.00		

BLOW DESCRIPTION

Initial Flow:
 Weak decreasing blow (3/4"-surface blow)
 Initial Shut-in:
 No blow.
 Final Flow:
 No blow
 Final Shut-in:
 No blow

SAMPLES: None
 SENT TO:Caraway/Liberal

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/cf
 Vis. 45.00 S/L
 W.L. 8.80 in3
 F.C. 0.20 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 124.00 F
 Hole Condition Good
 % Porosity 9.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 N
 Cushion Type None
 Reversed Out N
 Tool Chased N
 Tester Gary Pevoteaux
 Co. Rep. Mike Maune
 Contr. Duke Drlg.
 Rig # 2
 Unit #
 Pump T. LCM 4#/bl

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: J.Donovan A-1

LOCATION : Sec.08 Twp.34s Rg.13w Ks

TICKET No. 11553 D.S.T. No. 5 DATE 09-22-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 30

TOTAL TOOL 57

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 119

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands 85 Single 1 Total 5228

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5347

TOTAL DEPTH 5330

TOTAL DRILL PIPE ABOVE K.B. 17

REMARKS:

Comments: Fax reports early AM.

FLUID SAMPLER DATA (not run)

GAS----- cubic ft
 OIL----- ML.
 MUD----- ML.
 WATER----- ML.
 OTHER-----
 PRESSURE----- PSI
 Flow ----- ohms @ deg. F.
 CHLORIDES----- ppm.
 GRAVITY----- deg.API

	P.O. SUB	
	C.O. SUB @ top of tool	5211
	S.I. TOOL Sterling	5217
	HMV Sterling	5222
	JARS Bowen	5227
	SAFETY JOINT Bowen	5229
	PACKER Top	5233
	PACKER Btm.	5238
	DEPTH 5238	
	STUBB 1 ft.	5239
	ANCHOR	
	10'perfs & sub to	5249
	Alpine rec. @	5250
	1 std. pipe to	5311
	T.C.	
	DEPTH	
	14' perfs & sub to	5325
	AK-1 rec. @	5327
	BULLNOSE 5 ft. perforated	5330
	T.D.	

TEST HISTORY

11553 DST#5 J. DONOVAN A-1 WOOLSEY PETL. CORP.

Flag Points

	t (Min.)	P (PSig)
A:	0.00	2559.12
B:	0.00	29.62
C:	31.25	33.81
D:	59.00	91.05
E:	0.00	27.35
F:	60.75	49.09
G:	155.25	129.74
H:	0.00	2518.75

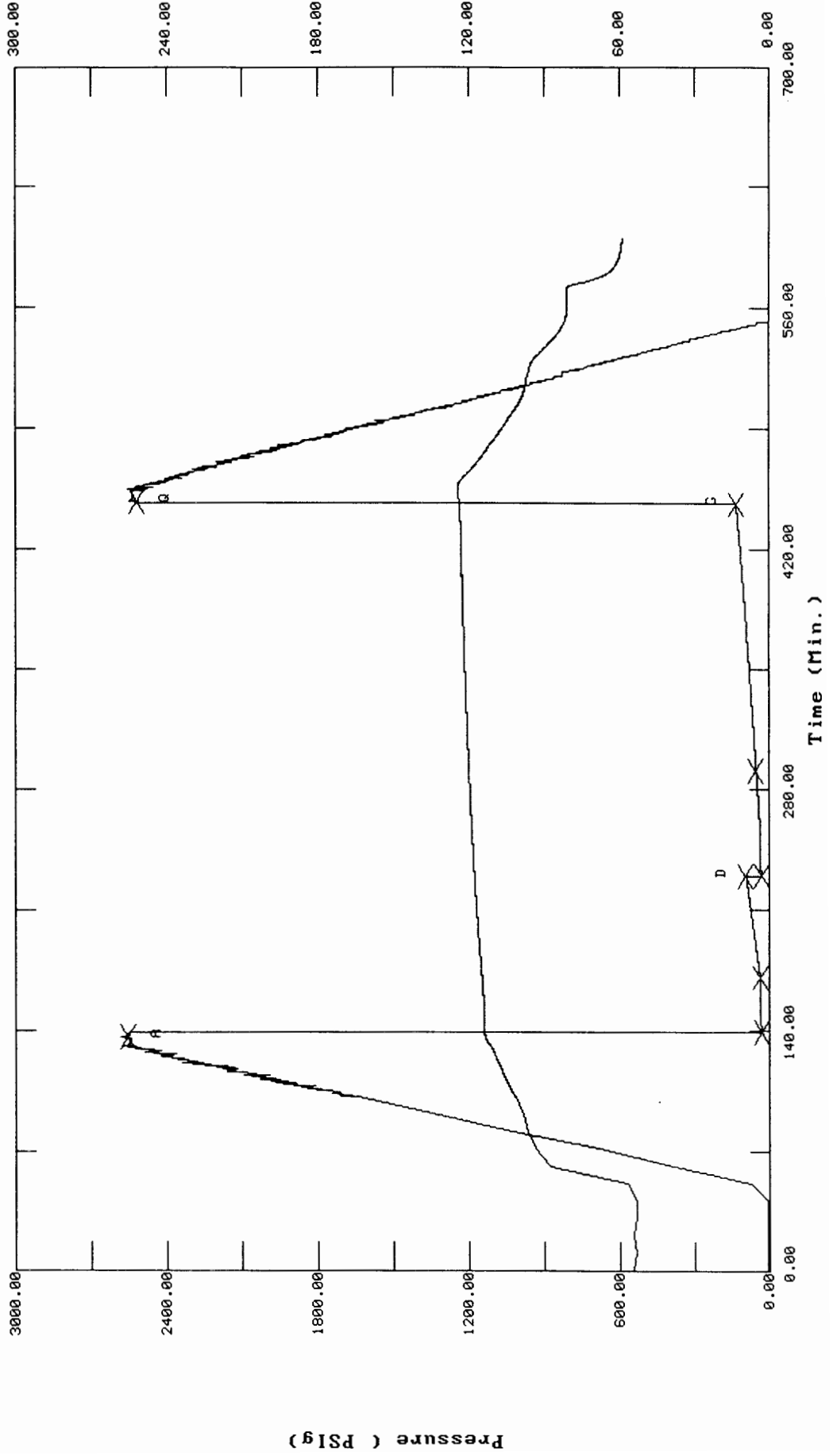
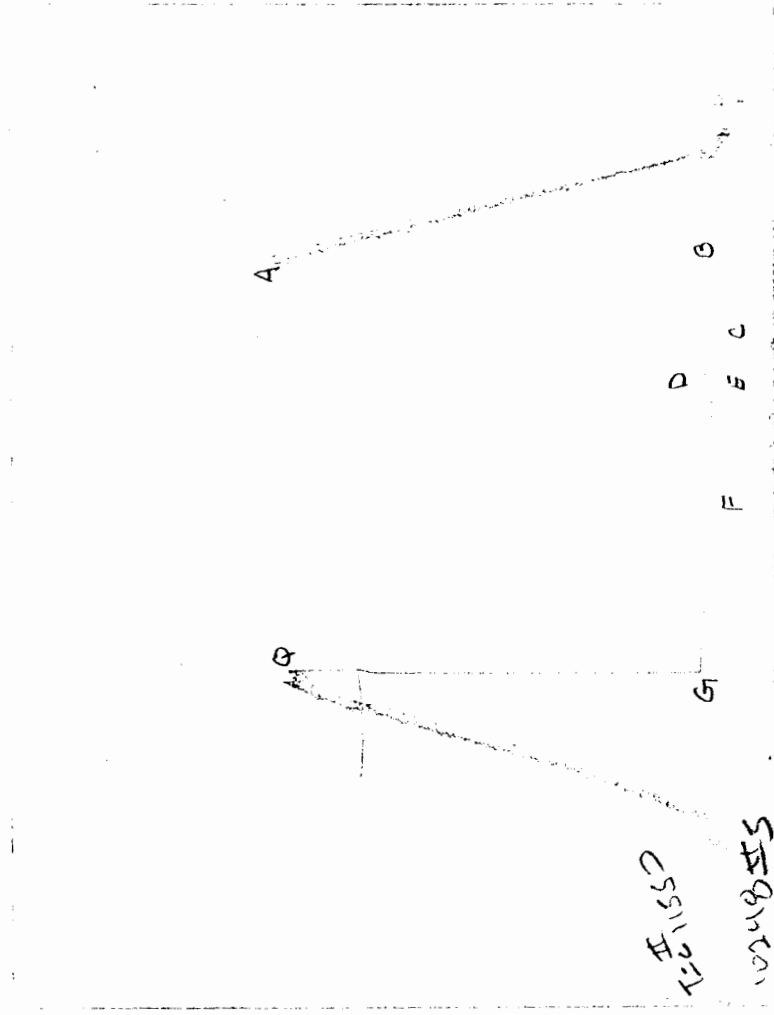


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11553

Well Name & No. <u>DONOVAN A-1</u>	Test No. <u>5</u>	Date <u>9-22-98</u>
Company <u>WOOLSEY PETL. CORP.</u>	Zone Tested <u>VIOLA</u>	
Address <u>WALHATA KS. 67202</u>	Elevation <u>1855</u> KB <u>1847</u> GL	
Co. Rep / Geo. <u>MIKE MAUNE</u>	Cont. <u>DUKE DRUG #2</u>	Est. Ft. of Pay <u>8</u> Por. <u>9</u> %
Location: Sec. <u>6</u> Twp. <u>34 S</u> Rge. <u>13 W</u>	Co. <u>BARBER</u> State <u>KS</u>	
No. of Copies <u>5</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u></u>	Evaluation (Y, N) <u></u>

Interval Tested <u>5238 - 5330'</u>	Initial Str Wt./Lbs. <u>59,000</u> Unseated Str Wt./Lbs. <u>59,000</u>
Anchor Length <u>92'</u>	Wt. Set Lbs. <u>20,000</u> Wt. Pulled Loose/Lbs. <u>70,000</u>
Top Packer Depth <u>5233'</u>	Tool Weight <u>2100#</u>
Bottom Packer Depth <u>5238'</u>	Hole Size — 7 7/8" <u>✓</u> Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u>5330'</u>	Wt. Pipe Run <u>None</u> Drill Collar Run <u>None</u>
Mud Wt. <u>9.2</u> LCM <u>4#</u> Vis. <u>45</u> WL <u>8.8cc</u>	Drill Pipe Size <u>4 1/2" X.H.</u> Ft. Run <u>5228'</u>
Blow Description <u>IF: Went decreasing below. (3/4" - surface below)</u>	

FF: No below.

Recovery — Total Feet <u>30</u>	GIP <u>✓</u>	Ft. in DC <u>✓</u>	Ft. in DP <u>30</u>
Rec. <u>30</u> Feet Of <u>Drill Mud</u>	%gas	%oil	%water %mud
Rec. _____ Feet Of <u>oil return @</u>	%gas	%oil	%water %mud
Rec. _____ Feet Of <u>top of tool</u>	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
BHT <u>124</u> °F Gravity <u>N/A</u> °API D@ <u>✓</u> °F Corrected Gravity <u>N/A</u> °API			
RW <u>N.C. @</u> °F Chlorides <u>5,000</u> ppm Recovery Chlorides <u>5,000</u> ppm System			

	AK-1	Alpine	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2602</u>	<u>2559</u>	<u>2342</u>	<u>0910</u>
(B) First Initial Flow Pressure	<u>73</u>	<u>30</u>	(depth) <u>5250'</u>	T-Started <u>0955</u>
(C) First Final Flow Pressure	<u>78</u>	<u>34</u>	Recorder No. <u>10248</u>	T-Open <u>1215</u>
(D) Initial Shut-In Pressure	<u>114</u>	<u>91</u>	(depth) <u>5327'</u>	T-Pulled <u>1720</u>
(E) Second Initial Flow Pressure	<u>78</u>	<u>29</u>	Recorder No. <u>✓</u>	T-Out <u>1940</u>
(F) Second Final Flow Pressure	<u>78</u>	<u>39</u>	(depth) <u>✓</u>	T-Off Location <u>2050</u>
(G) Final Shut-in Pressure	<u>141</u>	<u>130</u>	Initial Opening <u>30</u>	Test <u>✓ 800</u>
(Q) Final Hydrostatic Mud	<u>2547</u>	<u>2519</u>	Initial Shut-in <u>60</u>	Jars <u>✓ 200</u>
			Final Flow <u>30</u>	Safety Joint <u>✓ 50</u>
			Final Shut-in <u>180</u>	Straddle _____

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Approved By Michael K. Maune

Extra Packer _____
 Elec. Rec. ✓ 150
 Mileage _____
 Other Time 40