

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 15-007-22567 **ORIGINAL**
County BARBER
NE-SE-SW. Sec. 10 Twp. 34S Rge. 13W X^E_W
990' FSL Feet from S (circle one) Line of Section
2310' FWL Feet from E (circle one) Line of Section

Operator: License # 5506
Name: WOOLSEY PETROLEUM CORP.
Address 125 N MARKET, SUITE 1000
City/State/Zip WICHITA, KS 67202
Purchaser: KOCH OIL COMPANY

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or S (circle one)
Lease Name DONOVAN Well # 1
Field Name UN-NAMED

Operator Contact Person: DEBRA CLINGAN
Phone (316) 267-4379 ext 106
Contractor: Name: DUKE DRILLING CO INC.
License: 5929
Wellsite Geologist: MIKE MAUNE

Producing Formation HERTHA
Elevation: Ground 1694' KB 1702'
Total Depth LTD 5433 PBTD 4737'

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

Amount of Surface Pipe Set and Cemented at 220' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet

If Workover/Reentry: Old Well Info as follows:
Operator: N/A
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
07/06/98 07/22/98 08/10/98
Spud Date Date Reached TD Completion Date

If alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan A/H, 2-23-99 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 5200 ppm Fluid volume _____ bbls
Dewatering method used _____

Location of fluid disposal if hauled offsite:
NE 1/4 Sec 10 Twp 34S Rge 13W

Operator Name _____
Lease Name 15-007-22567 License No. _____
Quarter 1 Sec. 10 Twp. 34S S Rng. 13W E/W
County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Mark P. Stevenson
Title V.P. - OPERATIONS Date 11/3/98
Subscribed and sworn to before me this 3rd day of NOVEMBER, 1998.
Notary Public Debra K. Clingan
Date Commission Expires MARCH 4, 2002

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
KCC _____ SWD/Rep _____ NGPA _____
KGS _____ Plug _____ Other _____
(Specify)



ORIGINAL

SIDE TWO

Operator Name WOOLSEY PETROLEUM CORP.

Lease Name DONOVAN

Well # 1

Sec. 10 Twp. 34 Rge. 13W

East
 West

County BARBER

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run:

*Micro Log, Neutron
Density PE Log, Sonic Log,
Dual Induction*

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
KRIDER	2144	(- 442)
WABAUNSEE	3024	(-1322)
DOUGLAS	4038	(-2336)
LANSING	4154	(-2452)
MARMATON	4692	(-2990)
MISSISSIPPIAN C	4782	(-3080)
KINDERHOOK	5004	(-3302)
VIOLA	5132	(-3430)
SIMPSON SHALE	5238	(-3536)
ARBUCKLE	5385	(-3683)

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	14-3/4"	10-3/4"	32#/ft	220'	60/40POZ	175	2%GEL, 3%CC
PRODUCTION	7-7/8"	4-1/2"	10.5#/ft	4778'	ASC	100	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 JSPF	4634-4638' HERTHA	1000 GAL 15% NEFE	SAME
		5400 GAL 15% HCL	SAME

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2-3/8"	4691'	--	

Date of First, Resumed Production, SWD or Inj. 08/19/98 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	3.34	-0-	12		

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease
(If vented, submit ACO-18.)

Open Hole Perf. Dually Comp. Commingled
 Other (Specify)

4634-4638'

ALLIED CEMENTING CO., INC. ORIGINAL

TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Med. Lodge, Ks

DATE <u>7-6-98</u>	SEC. <u>10</u>	TWP. <u>34s</u>	RANGE <u>13w</u>	CALLED OUT <u>5:00 P.M.</u>	ON LOCATION <u>7:00 P.M.</u>	JOB START <u>8:45 P.M.</u>	JOB FINISH <u>9:30 P.M.</u>
LEASE <u>Donovan</u>		WELL # <u>1</u>	LOCATION <u>Union Chapel, 35-2w</u>			COUNTY <u>Barber</u>	STATE <u>Ks.</u>

OLD OR NEW (Circle one)

CONTRACTOR Duke Oil #2

TYPE OF JOB Surface Csg.

HOLE SIZE 14 3/4 T.D. 220

CASING SIZE 10 3/4 x 40.50 DEPTH 219'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 300 MINIMUM 100

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15' By Request

PERFS. _____

OWNER Woolsey Petroleum
CEMENT

AMOUNT ORDERED 1753xs 60/40
3% CaCl₂ + 2% Gel

COMMON A	<u>105</u>	@	<u>6.35</u>	<u>666.75</u>
POZMIX	<u>70</u>	@	<u>3.25</u>	<u>227.50</u>
GEL	<u>3</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>6</u>	@	<u>28.00</u>	<u>168.00</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>175</u>	@	<u>1.05</u>	<u>183.75</u>
MILEAGE	<u>175 x 15</u>		<u>.04</u>	<u>105.00</u>

TOTAL \$1379.50

EQUIPMENT

PUMP TRUCK CEMENTER Larry Dreiling
343 HELPER Justin Hart

BULK TRUCK
301 DRIVER Kevin Brungardt

BULK TRUCK
_____ DRIVER _____

REMARKS:

Pipe on Bottom - Break Circ
mix + pump 1753xs 60/40 + 2% Gel
3% CaCl₂ Release Plug. Pump +
Displace Plug w/ 20/28 bbls. Fresh
1 1/2" Shut It In. Circ. 253xs to
Pit

SERVICE

DEPTH OF JOB	<u>219'</u>		
PUMP TRUCK CHARGE	<u>0-300'</u>		<u>470.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>15</u>	@	<u>2.85</u>
PLUG	<u>wood-cup 10 3/4"</u>	@	<u>55.00</u>
		@	
		@	

TOTAL \$567.75

CHARGE TO: Woolsey Petroleum

STREET P.O. Box 168

CITY Med-Lodge STATE KANSAS ZIP 67104

FLOAT EQUIPMENT

		@	
		@	
		@	
		@	

TOTAL _____

FROM CONFIDENTIAL

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE John J. Ambruster

TAX _____

TOTAL CHARGE \$1947.25

DISCOUNT \$292.08 IF PAID IN 30 DAYS

NET \$1655.17

ALLIED CEMENTING CO., INC.

2218

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

AUG 18 1998

SERVICE POINT:

ORIGINAL med. lodge, ks

DATE 7-23-98	SEC. 10	TWP. 34s	RANGE 13w	CALLED OUT 8:00 P.M. 1998	ON LOCATION 11:00 P.M.	JOB START 4:00 A.M.	JOB FINISH 6:00 P.M.
LEASE Donor	WELL #1	LOCATION (Union Chapel, 35-2w)			COUNTY Barber	STATE Ks.	

CONTRACTOR Duke Drilg #2
 TYPE OF JOB Prod. Csg.
 HOLE SIZE 7 7/8 TD. 5429'
 CASING SIZE 4 1/2 x 10.5 DEPTH 4770'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 1100 MINIMUM 200
 MEAS. LINE _____ SHOE JOINT 40.86
 CEMENT LEFT IN CSG. _____
 PERFS. _____

OWNER Woolsey Petroleum
CEMENT

AMOUNT ORDERED 500 Gals. 2% KCL
500 Gals. mud-sweep. 100sxs. Class A-Asc
5# 40- Seal 25sxs. 60/40/6% Gel

COMMON	15	@ 6.35	95.25
POZMIX	10	@ 3.25	32.50
GEL	1	@ 9.50	9.50
CHLORIDE		@	
ASC	120	@ 8.20	984.00
KCL-SEAL	500#	@ .38	190.00
MUD-SWEEP	500 Gal.	@ 1.80	900.00
CLAPRO	1 Gal.	@ 22.90	22.90
		@	
HANDLING	135	@ 1.05	141.75
MILEAGE	135 - MINIMUM		100.00

EQUIPMENT

PUMP TRUCK CEMENTER Larry Dreiling
 # 343 HELPER Justin Hart
 BULK TRUCK
 # 301 DRIVER James Holt
 BULK TRUCK
 # _____ DRIVER _____

TOTAL \$ 2301.40

REMARKS:

SERVICE

Pipe on Bottom - Break Circ.
 Decip Csg. mix + Pump 500 Gals.
 2% KCL 500 Gals. mud-sweep. ~~1000~~
 Plug Rathole - mouse hole 25sxs 60/40
 6% Gel Cement 100sxs CLASS A + ASC
 5# 40- Seal Washout Pump line
 Release Plug Pump + Displace Plug
 177 1/4 Bbls. Bump Plug Release PST
 Float Held.

DEPTH OF JOB	4770'		
PUMP TRUCK CHARGE			1214.00
EXTRA FOOTAGE		@	
MILEAGE	15	@ 2.85	42.75
PLUG Latch Down		@ 175.00	175.00
		@	
		@	

TOTAL \$ 1431.75

CHARGE TO: Woolsey Petroleum
 STREET P.O. Box 168
 CITY Med. Lodge STATE KANSAS ZIP 67104

FLOAT EQUIPMENT

1- AFD Float Shoe	@ 224.00	224.00
12- Recip. Scratchers	@ 29.00	348.00
1- Basket	@ 129.00	129.00
6- Centerizers	@ 53.00	318.00
	@	

TOTAL \$ 1019.00

FROM CONFIDENTIAL

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
 TOTAL CHARGE \$ 4752.15
 DISCOUNT \$ 712.82 IF PAID IN 30 DAYS
 NET \$ 4039.33

SIGNATURE x Wm R. Callaghan Wm. R. CALLAUGHAN

CONFIDENTIAL

HE - FD

KCC

WELL NAME: Donovan
COMPANY: Woolsey Petroleum Corp
LOCATION: 10-34S-13W
Barber County, Kansas
DATE: 7/24/98

REC'D JUL 27 1998

ORIGINAL

7/23/98

CO. 10-34S-13W

FROM

JUL 23 1998

CONFIDENTIAL

ORIGINAL

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Pet, Corp.

DATE 07/11/98

WELL NAME: Donovan

KB 1702.00 ft

TICKET NO: 11826 DST #1

LOCATION : 10-34s-13w Barber co. KS

GR 1694.00 ft

FORMATION: Snyderville

INTERVAL : 3948.00 To 4000.00 ft

TD 4000.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	3030			PF Fr. 1049 to 1119 hr
SI 60 Range (Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1119 to 1219 hr
SF 90 Clock (hrs)	12hr.	12hr.	elec.			SF Fr. 1219 to 1349 hr
FS 240 Depth (ft)	3997.0	3997.0	3988.0	0.0	0.0	FS Fr. 1349 to 1749 hr

	Field	1	2	3	4	
A. Init Hydro	1845.0	1836.0	1889.0	0.0	0.0	T STARTED 0845 hr
B. First Flow	111.0	96.0	54.0	0.0	0.0	T ON BOTM 1046 hr
B1. Final Flow	101.0	91.0	54.0	0.0	0.0	T OPEN 1049 hr
C. In Shut-in	283.0	276.0	266.0	0.0	0.0	T PULLED 1749 hr
D. Init Flow	101.0	90.0	49.0	0.0	0.0	T OUT 1905 hr
E. Final Flow	81.0	86.0	53.0	0.0	0.0	
F. Fl Shut-in	689.0	686.0	693.0	0.0	0.0	
G. Final Hydro	1855.0	1851.0	1853.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	75000.00 lbs
Initial Str Wt	47000.00 lbs
Unseated Str Wt	48000.00 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	3964.00 ft

RECOVERY

Tot Fluid 45.00 ft of 0.00 ft in DC and 45.00 ft in DP
 45.00 ft of Very slight gas cut mud 2%gas 98%mud
 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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Fair blow bottom of bucket in 24 mins
 Initial Shut-in:
 Bled down for 5 mins. No blow back
 Final Flow:
 Strong blow bottom of bucket in 30 mins.
 Final Shut-in:
 Bled down for 10 mins. No blow back

SAMPLES:
SENT TO:

MUD DATA-----

Mud Type	chemical
Weight	9.00 lb/c
Vis.	49.00 S/L
W.L.	11.50 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	113.00 F
Hole Condition	fair
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased Y	10.00 ft
Tester	Darren Amerine
Co. Rep.	Mikeal K, Maune
Contr.	Duke
Rig #	2
Unit #	no
Pump T.	no

KCC

NOV 03 1998

CONFIDENTIAL

RECEIVED

NOV 03 1998

FROM CONFIDENTIAL

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Donovan

LOCATION : 10-34s-13w Barber co. KS

TICKET No. 11826 D.S.T. No. 1 DATE 07/11/98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 20

TOTAL TOOL 48

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 79

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands64 Single 1 Total 3933

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4012

TOTAL DEPTH 4000

TOTAL DRILL PIPE ABOVE K.B. 12

REMARKS:

P.O. SUB Top of tool @	3922
C.O. SUB	3923
S.I. TOOL	3928
HMV	3932
JARS	3937
SAFETY JOINT	3939
PACKER	3943
PACKER	3948
DEPTH	
STUBB 1'stubb to	3949
ANCHOR 2'of perfs.to	3951
31'jt.drillpipe to	3982
T.C.	
DEPTH	
alpine rec.@3988	
13'of perfs.to	3995
	3995
ak-1 rec.@3997	
BULLNOSE 5'bullnose to	4000
T.D.	

TEST HISTORY

Tk#11826 DST#1 Donovan #1 Woolsey Pet, Corp.

Flag Points
t (Min.) P (PSig)

A:	0.00	1888.89
B:	0.00	54.26
C:	30.25	54.38
D:	59.75	265.63
E:	0.00	48.89
F:	89.50	53.42
G:	240.75	693.43
Q:	0.00	1852.54

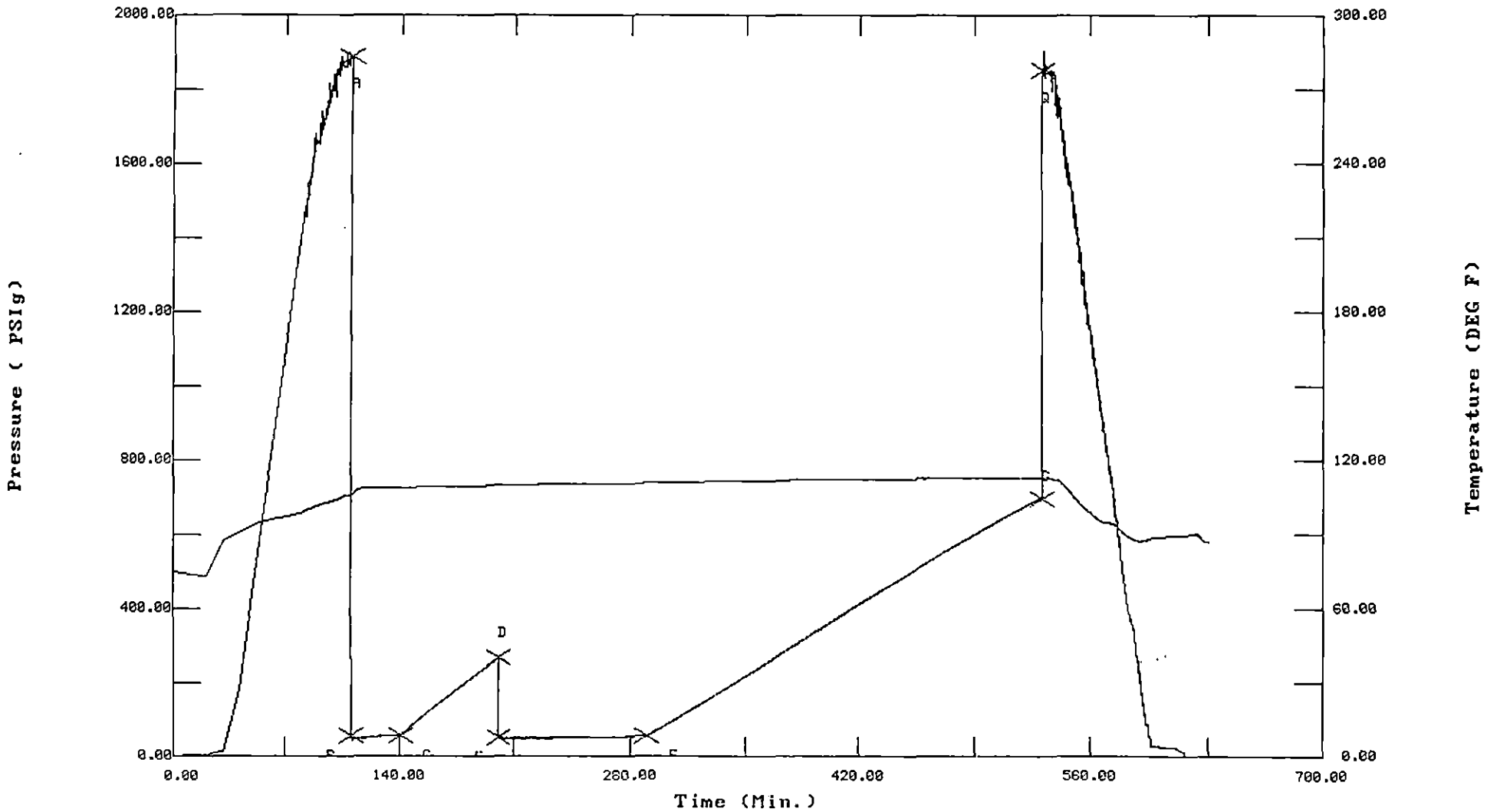
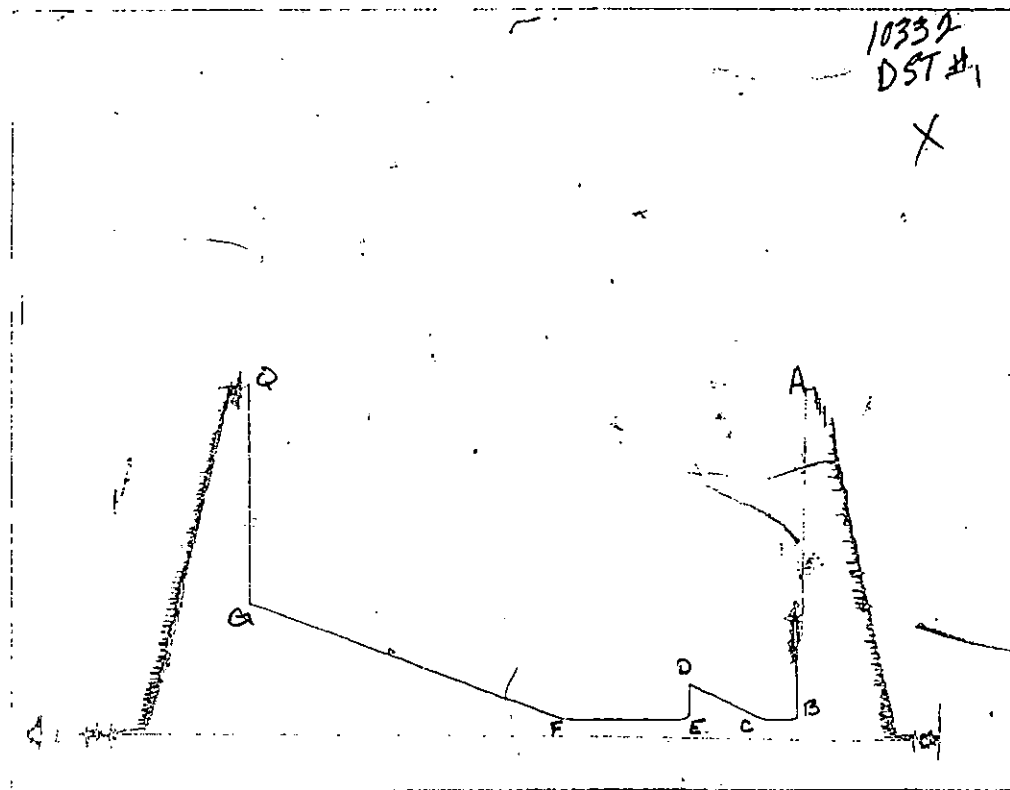


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Pet, Corp.

DATE 07/12/98

WELL NAME: Donovan

KB 1702.00 ft

TICKET NO: 11827 DST #2

LOCATION : 10-34s-13w Barber co. KS

GR 1694.00 ft

FORMATION: Toronto

INTERVAL : 4013.00 To 4050.00 ft

TD 4050.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10332	10332	3030			PF Fr. 0601 to 0631 hr
SI 60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0631 to 0731 hr
SF 90	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0731 to 0901 hr
FS 240	Depth(ft)	4047.0	4047.0	4023.0	0.0	0.0	FS Fr. 0901 to 1301 hr

	Field	1	2	3	4	
A. Init Hydro	1916.0	1918.0	1911.0	0.0	0.0	T STARTED 0430 hr
B. First Flow	41.0	39.0	13.0	0.0	0.0	T ON BOTM 0558 hr
B1. Final Flow	30.0	34.0	20.0	0.0	0.0	T OPEN 0601 hr
C. In Shut-in	1367.0	1778.0	1381.0	0.0	0.0	T PULLED 1301 hr
D. Init Flow	41.0	43.0	22.0	0.0	0.0	T OUT 1410 hr
E. Final Flow	41.0	46.0	35.0	0.0	0.0	
F. Fl Shut-in	1458.0	1459.0	1463.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1906.0	1902.0	1939.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 47000.00 lbs
						Unseated Str Wt 47000.00 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 3993.00 ft

RECOVERY

Tot Fluid 50.00 ft of 0.00 ft in DC and 50.00 ft in DP
 50.00 ft of Very slight gas cut mud 1%gas 99%mud
 873.00 ft of Gas in pipe
 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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in
 4 mins.
 Initial Shut-in:
 Bled down for 5 mins. No blow back
 Final Flow:
 Strong blow bottom of bucket in
 30 secs.
 Final Shut-in:
 Bled down for 10 mins. No blow back

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	chemical
Weight	9.00 lb/c
Vis.	47.00 S/L
W.L.	8.00 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	113.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Mikeal K, Maune
Contr.	Duke
Rig #	2
Unit #	no
Pump T.	no

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Donovan

LOCATION : 10-34s-13w Barber co. KS

FICKET No. 11827 D.S.T. No. 2 DATE 07/12/98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL 28

BOTTOM PACKERS AND ANCHOR 37

TOTAL TOOL 65

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 65

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands64 Single 1 Total 3993

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4058

TOTAL DEPTH 4050

TOTAL DRILL PIPE ABOVE K.B. 8

REMARKS:

Pulled 80000 on tool jars went off.

P.O. SUB Top of tool @	3987
C.O. SUB	
S.I. TOOL	3992
HMV	3997
JARS	4002
SAFETY JOINT	4004
PACKER	4008
PACKER	4013
DEPTH	
STUBB 1' stubb to	4014
ANCHOR 2' of perfs. to	4016
alpine rec.@4023	
T.C.	
DEPTH	
29' of perfs. to	4045
ak-1 rec.@4047	4045
BULLNOSE 5' bullnose to	4050
T.D.	

TEST HISTORY

Tk#11827 DST#2 Donovan #1 Woolsey Pet, Corp.

Flag Points

t(Min.) P(PSig)

A:	0.00	1911.22
B:	0.00	12.76
C:	27.50	19.55
D:	61.25	1381.12
E:	0.00	22.01
F:	88.25	34.65
G:	242.00	1463.37
Q:	0.00	1939.28

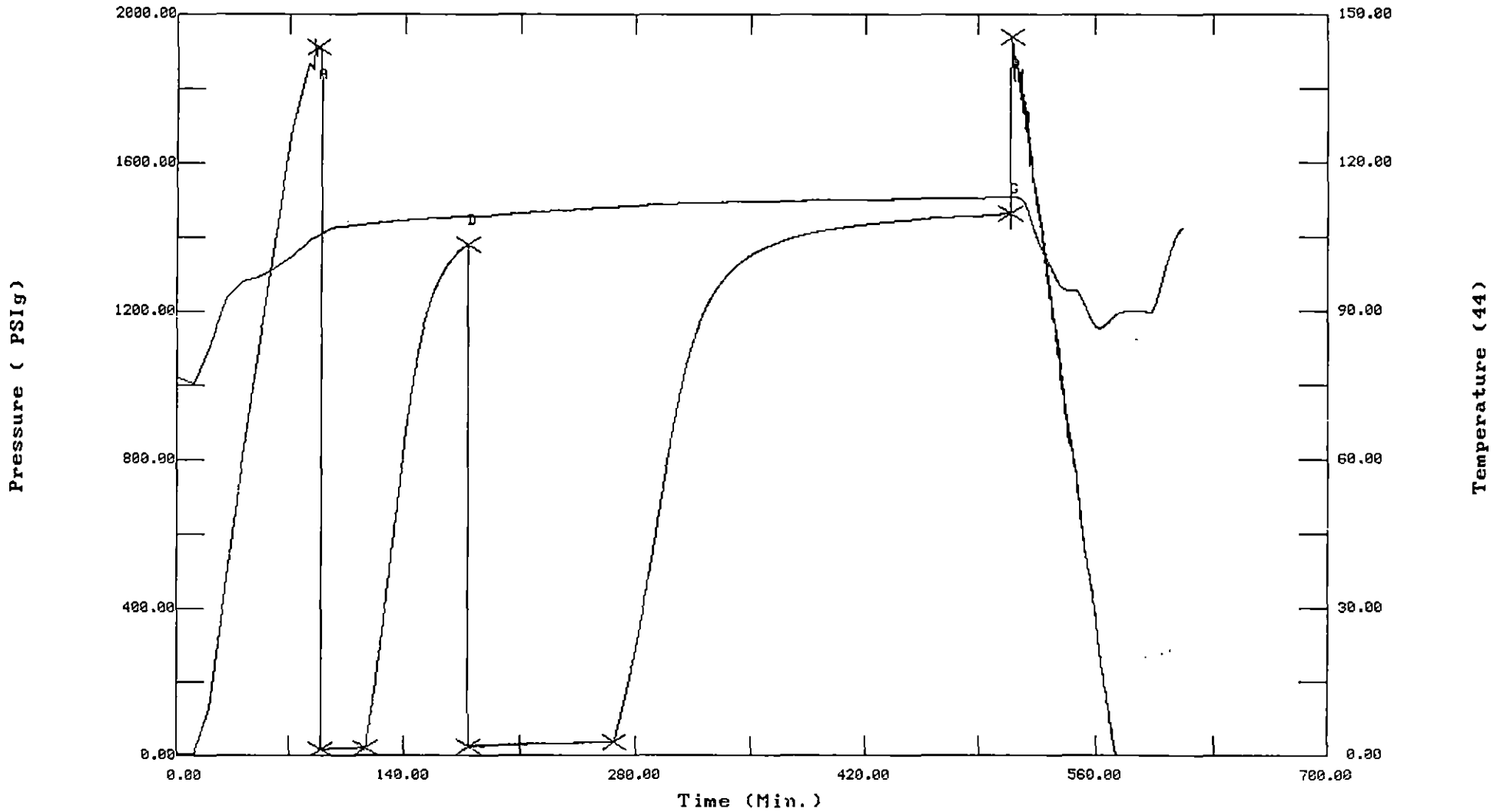
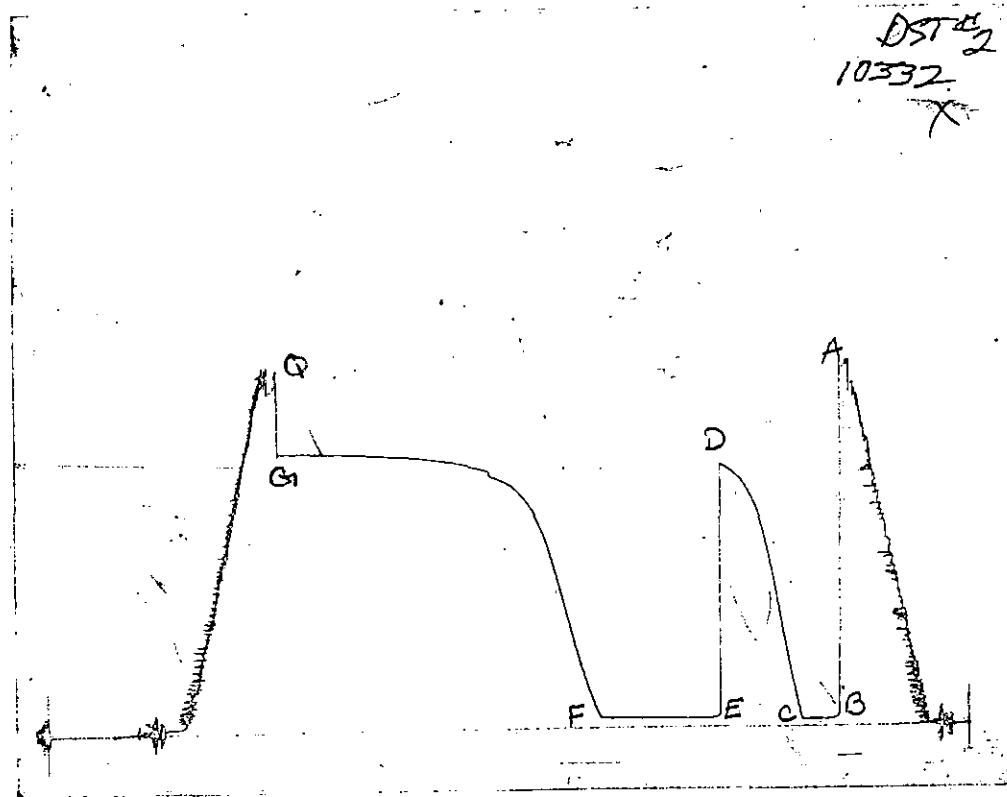


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Pet, Corp.
 WELL NAME: Donovan #1
 LOCATION : 10-34s-13w Barber co. KS
 INTERVAL : 4042.00 To 4109.00 ft

DATE 07/13/199

KB 1702.00 ft TICKET NO: 11828 DST #3
 GR 1694.00 ft FORMATION: Douglas
 TD 4109.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	3030			PF Fr. 0214 to 0244 hr
SI 60 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0244 to 0344 hr
SF 30 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0344 to 0414 hr
FS 120 Depth(ft)	4106.0	4106.0	4085.0	0.0	0.0	FS Fr. 0414 to 0614 hr

	Field	1	2	3	4	
A. Init Hydro	1937.0	1921.0	1967.0	0.0	0.0	T STARTED 0022 hr
B. First Flow	71.0	59.0	36.0	0.0	0.0	T ON BOTM 0212 hr
B1. Final Flow	61.0	56.0	39.0	0.0	0.0	T OPEN 0214 hr
C. In Shut-in	334.0	344.0	367.0	0.0	0.0	T PULLED 0614 hr
D. Init Flow	51.0	56.0	38.0	0.0	0.0	T OUT 0721 hr
E. Final Flow	51.0	56.0	40.0	0.0	0.0	
F. Fl Shut-in	466.0	484.0	488.0	0.0	0.0	
G. Final Hydro	1876.0	1842.0	1874.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid 5.00 ft of 0.00 ft in DC and 5.00 ft in DP
 5.00 ft of drilling mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 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 blow 1/4"-1/2" in bucket died
 off to surface blow
 Initial Shut-in:
 No blow back.
 Final Flow:
 Dead blow
 Final Shut-in:
 No blow back

SAMPLES:
 SENT TO:

TOOL DATA-----
 Tool Wt. 2100.00 lbs
 Wt Set On Packer 20000.00 lbs
 Wt Pulled Loose 75000.00 lbs
 Initial Str Wt 47000.00 lbs
 Unseated Str Wt 47000.00 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 4022.00 ft

MUD DATA-----
 Mud Type Chemical
 Weight 8.90 lb/c
 Vis. 57.00 S/L
 W.L. 8.00 in3
 F.C. 0.32 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 113.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N
 Tool Chased N
 Tester Darren Amerine
 Co. Rep. Mikeal K. Maune
 Contr. Duke
 Rig # 2
 Unit # none
 Pump T. none

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Donovan #1

LOCATION : 10-34s-13w Barber co. KS

TICKET No. 11828 D.S.T. No. 3 DATE 07/13/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 37

TOTAL TOOL 65

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 30

TOTAL ASSEMBLY 95

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands66 Single Total 4022

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4117

TOTAL DEPTH 4109

TOTAL DRILL PIPE ABOVE K.B. 8

REMARKS:

P.O. SUB Top of tool@	4015
C.O. SUB	4016
S.I. TOOL	4021
HMV	4026
JARS	4031
SAFETY JOINT	4033
PACKER	4037
PACKER	4042
DEPTH	
STUBB 1'stubb to	4043
ANCHOR 7'of perfs,to	4050
30 jt.drillpipe to	4080
alpine rec.@4085	
	4080
	4080
T.C.	
DEPTH	
24'of perfs.to	4104
	4104
ak-1 rec.@4106	
BULLNOSE 5'bullnose to	4109
T.D.	

TEST HISTORY

Tk#11828 DST#3 Donovan #1 Woolsey Pet, Corp.

Flag Points

	t (Min.)	P (PSig)
A:	0.00	1966.82
B:	0.00	36.07
C:	30.50	38.94
D:	59.00	366.90
E:	0.00	38.18
F:	27.75	40.16
G:	123.00	488.05
Q:	0.00	1874.09

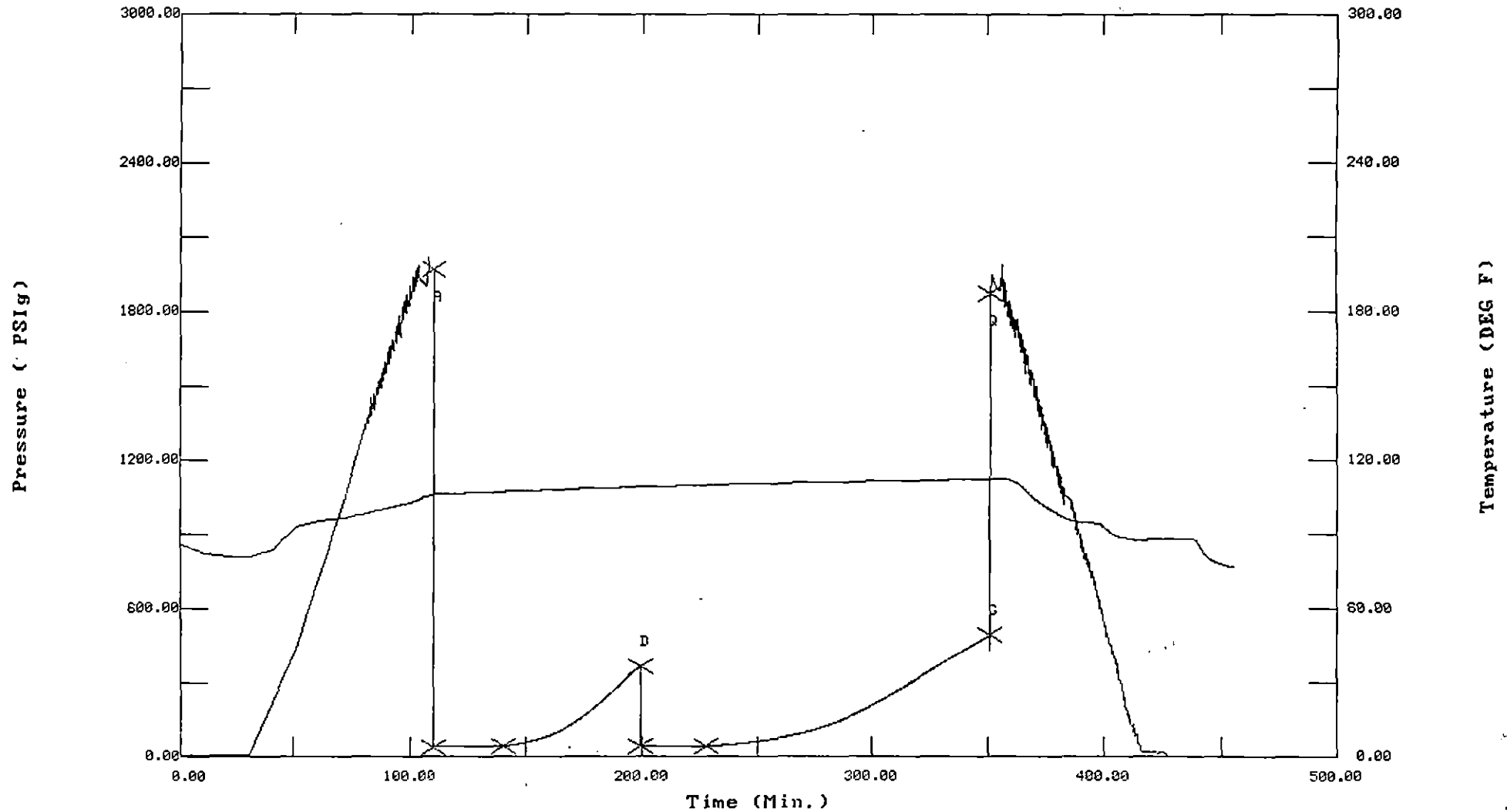
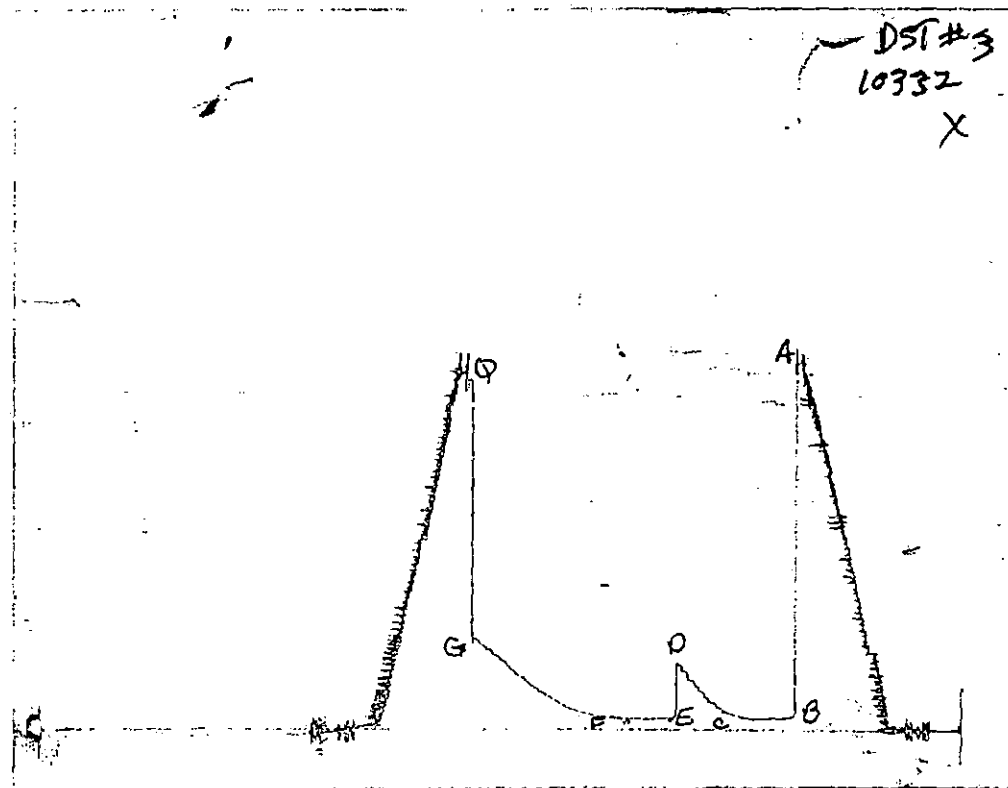


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey pet, corp. DATE 07/13/199
 WELL NAME: Donovan #1 KB 1702.00 ft TICKET NO: 11829 DST #4
 LOCATION : 10-34s-13w Barber co. KS GR 1694.00 ft FORMATION: Lansing "A"
 INTERVAL : 4158.00 To 4175.00 ft TD 4175.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	3030			PF Fr. 1823 to 1853 hr
SI 60 Range (Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1853 to 1953 hr
SF 60 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1953 to 2053 hr
FS 240 Depth(ft)	4172.0	4172.0	4164.0	0.0	0.0	FS Fr. 2053 to 0053 hr

	Field	1	2	3	4	
A. Init Hydro	2048.0	0.0	1993.0	0.0	0.0	T STARTED 1653 hr
B. First Flow	81.0	0.0	45.0	0.0	0.0	T ON BOTM 1821 hr
B1. Final Flow	152.0	0.0	176.0	0.0	0.0	T OPEN 1823 hr
C. In Shut-in	1468.0	0.0	1473.0	0.0	0.0	T PULLED 0053 hr
D. Init Flow	202.0	0.0	176.0	0.0	0.0	T OUT 0216 hr
E. Final Flow	375.0	0.0	375.0	0.0	0.0	
F. Fl Shut-in	1518.0	0.0	1491.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2038.0	0.0	2021.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0		I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 0.00 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 4148.00 ft

RECOVERY

Tot Fluid 620.00 ft of 0.00 ft in DC and 620.00 ft in DP
 60.00 ft of Slight mud cut water
 0.00 ft of 84% water 15% mud trace of oil
 520.00 ft of Salt water
 40.00 ft of Heavy mud cut water 72% water 28% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 130000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in
 10 mins.
 Initial Shut-in:
 Bled down for 3 mins.No blow back
 Final Flow:
 Fair blow bottom of bucket in 15 mins
 Final Shut-in:
 Bled down for 3 mins. no blow back

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 8.90 lb/cf
 Vis. 52.00 S/L
 W.L. 8.20 in3
 F.C. 0.32 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 121.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N
 Tool Chased N
 Tester Darren Amerine
 Co. Rep. Mikeal K.Maune
 Contr. Duke
 Rig # 2
 Unit # no
 Pump T. no

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Donovan #1	P.O. SUB Top of tool @	4131
	C.O. SUB	4132
LOCATION : 10-34s-13w Barber co. KS	S.I. TOOL	4137
TICKET No. 11829 D.S.T. No. 4 DATE 07/13/199		
TOTAL TOOL TO BOTTOM OF TOP PACKERS 28	HMV	4142
INTERVAL TOOL		
BOTTOM PACKERS AND ANCHOR 17	JARS	4147
TOTAL TOOL 45		
DRILL COLLAR ANCHOR IN INTERVAL		
D.C. ANCHOR STND.Stands Single Total	SAFETY JOINT	4149
D.P. ANCHOR STND.Stands Single Total	PACKER	4153
TOTAL ASSEMBLY	PACKER	4158
D.C. ABOVE TOOLS.Stands Single Total	DEPTH	
D.P. ABOVE TOOLS.Stands67 Single 1 Total 4148	STUBB 1'stubb to	4159
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4193	ANCHOR 5'of perfs.to	4164
	Alpine rec.@ 4164	
TOTAL DEPTH 4175		4164
TOTAL DRILL PIPE ABOVE K.B. 18		4164
REMARKS:		
	T.C.	
	DEPTH	
		4164
	9'of perfs.to	4173
	Ak-1 rec. @ 4172	
	BULLNOSE 2'bullnose to	4175
	T.D.	

TEST HISTORY

Tk#11829 DST#4 Donovan#1 Woolsey pet, corp.

Flag Points

	t (Min.)	P (PSig)
R:	0.00	1992.51
B:	0.00	45.25
C:	28.75	176.18
D:	59.75	1472.57
E:	0.00	175.62
F:	59.75	375.33
G:	241.25	1490.75
Q:	0.00	2020.53

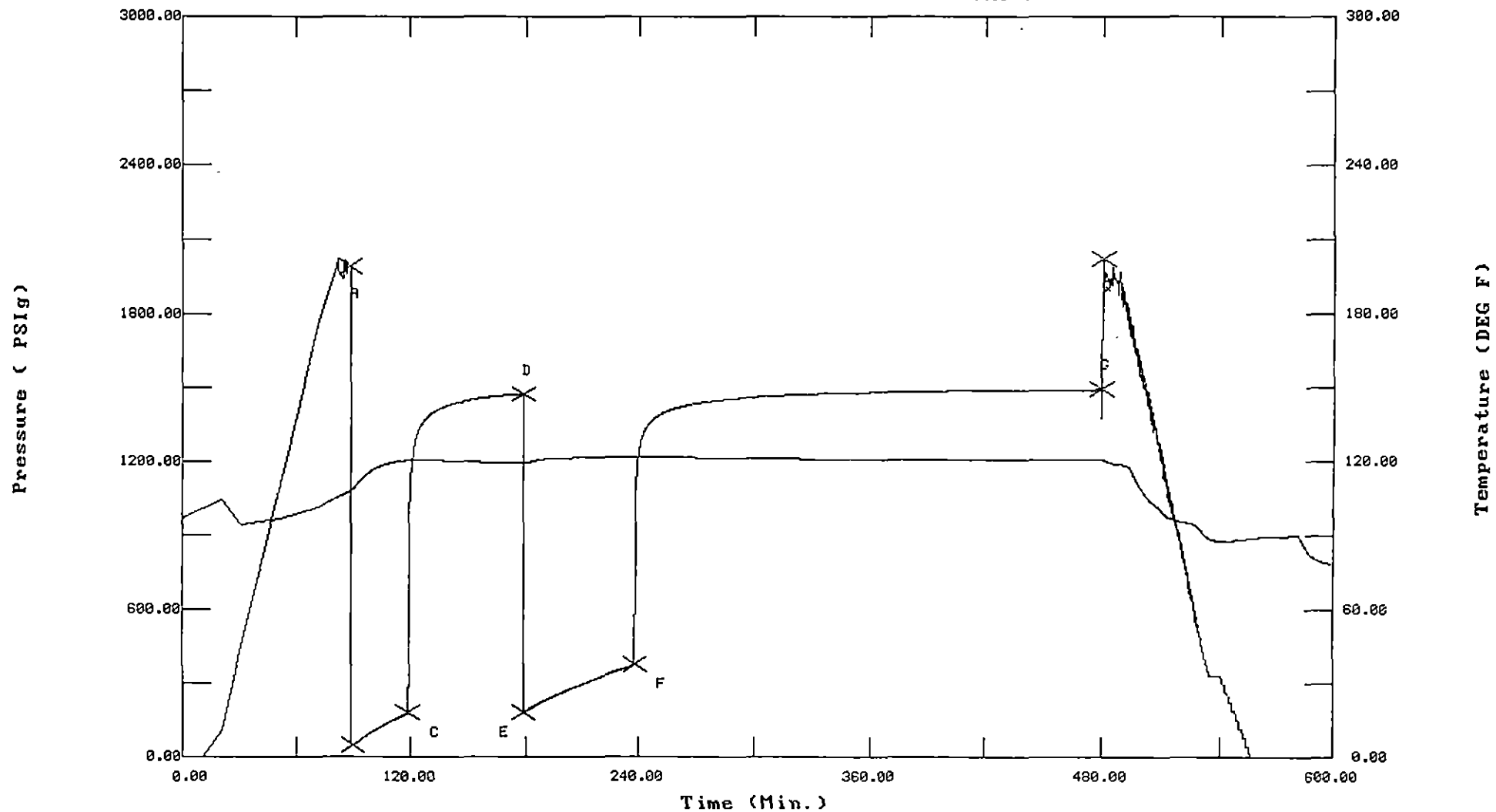
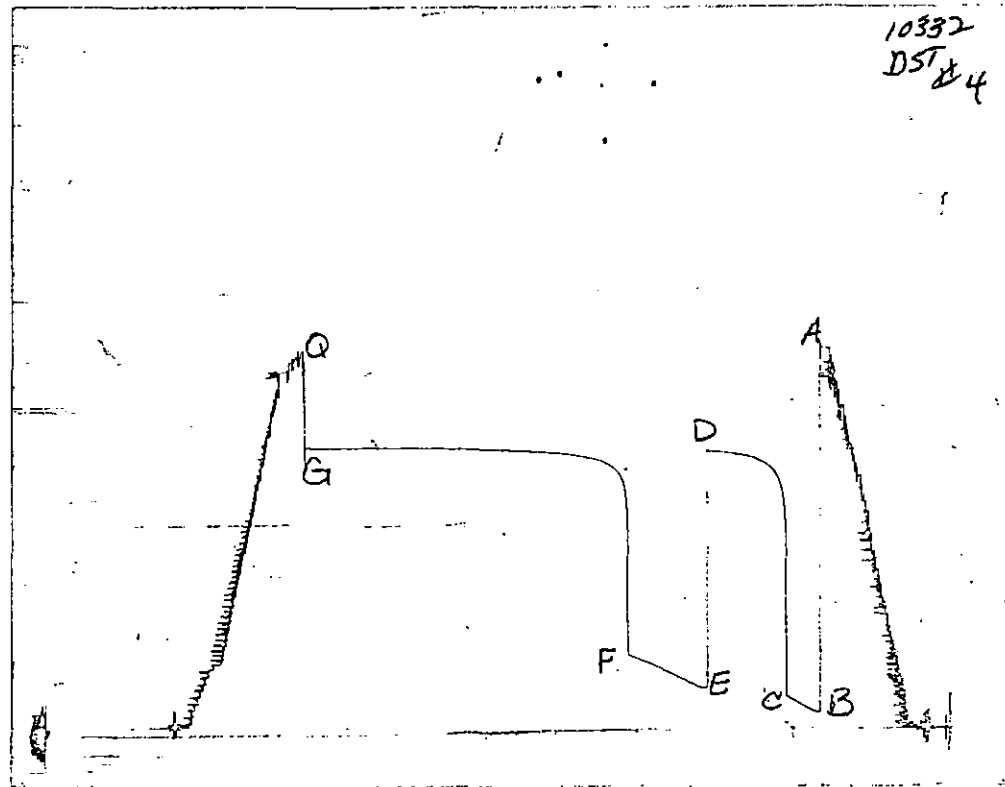


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey pet, corp.

DATE 07/15/199

WELL NAME: Donovan #1

KB 1702.00 ft

TICKET NO: 11830 DST #5

LOCATION : 10-34s-13w Barber co. KS

GR 1694.00 ft

FORMATION: Lansing"G"

INTERVAL : 4474.00 To 4505.00 ft

TD 4505.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10332	10332	3030			PF Fr. 0500 to 0530 hr
SI 60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0530 to 0630 hr
SF 60	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0630 to 0730 hr
FS 180	Depth(ft)	4502.0	4502.0	4485.0	0.0	0.0	FS Fr. 0730 to 1030 hr

	Field	1	2	3	4	
A. Init Hydro	2227.0	228.0	2278.0	0.0	0.0	T STARTED 0254 hr
B. First Flow	19.0	47.0	51.0	0.0	0.0	T ON BOTM 0458 hr
B1. Final Flow	60.0	64.0	71.0	0.0	0.0	T OPEN 0500 hr
C. In Shut-in	1653.0	1653.0	1651.0	0.0	0.0	T PULLED 1030 hr
D. Init Flow	61.0	96.0	91.0	0.0	0.0	T OUT 1145 hr
E. Final Flow	128.0	140.0	152.0	0.0	0.0	
F. Fl Shut-in	1675.0	1672.0	1671.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2201.0	2180.0	2138.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 51000.00 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 4453.00 ft

RECOVERY

Tot Fluid 215.00 ft of 0.00 ft in DC and 215.00 ft in DP
 35.00 ft of Slight gas cut mud 8%gas 92% mud
 120.00 ft of Mud cut water 56%water 44%mud
 60.00 ft of Slight mud cut water 99%water 1%mud
 60.00 ft of gas in pipe
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 152000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in 3 mins.
 Initial Shut-in:
 Bled down for 15 mins. no blow back
 Final Flow:
 Fair blwo slowly built to bottom of bucket in 15 mins.
 Final Shut-in:
 Bled down for 10 mins. no blow back

SAMPLES:

SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/cf
 Vis. 44.00 S/L
 W.L. 6.80 in3
 F.C. 0.32 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 122.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N
 Tool Chased N
 Tester Darren Amerine
 Co. Rep. Mikeal K.Maune
 Contr. Duke
 Rig # 2
 Unit # none
 Pump T. no

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Donovan #1

LOCATION : 10-34s-13w Barber co. KS

TICKET No. 11830 D.S.T. No. 5 DATE 07/15/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 29

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 31

TOTAL TOOL 60

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands 72 Single Total 4453

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4513

TOTAL DEPTH 4505

TOTAL DRILL PIPE ABOVE K.B. 8

REMARKS:

P.O. SUB Top of tool @	4447
C.O. SUB	4448
S.I. TOOL	4453
HMV	4458
JARS	4463
SAFETY JOINT	4465
PACKER	4469
PACKER	4474
DEPTH 4474	
STUBB 1' stubb to	4475
ANCHOR 10' of perfs. to	4485
Alpine rec.@ 4485	
	4485
	4485
T.C.	
DEPTH	
	4485
15' of perfs. to	4500
ak-1 rec. 4502	
BULLNOSE 5' bullnose to	4505
T.D.	

TEST HISTORY

Tk#11830 DST#5 Donovan #1 Woolsey pet, corp.

Flag Points

	t (Min.)	P (PSIg)
A:	0.00	2226.57
B:	0.00	19.37
C:	29.25	59.89
D:	59.75	1652.69
E:	0.00	61.19
F:	60.00	128.04
G:	180.25	1674.82
Q:	0.00	2201.16

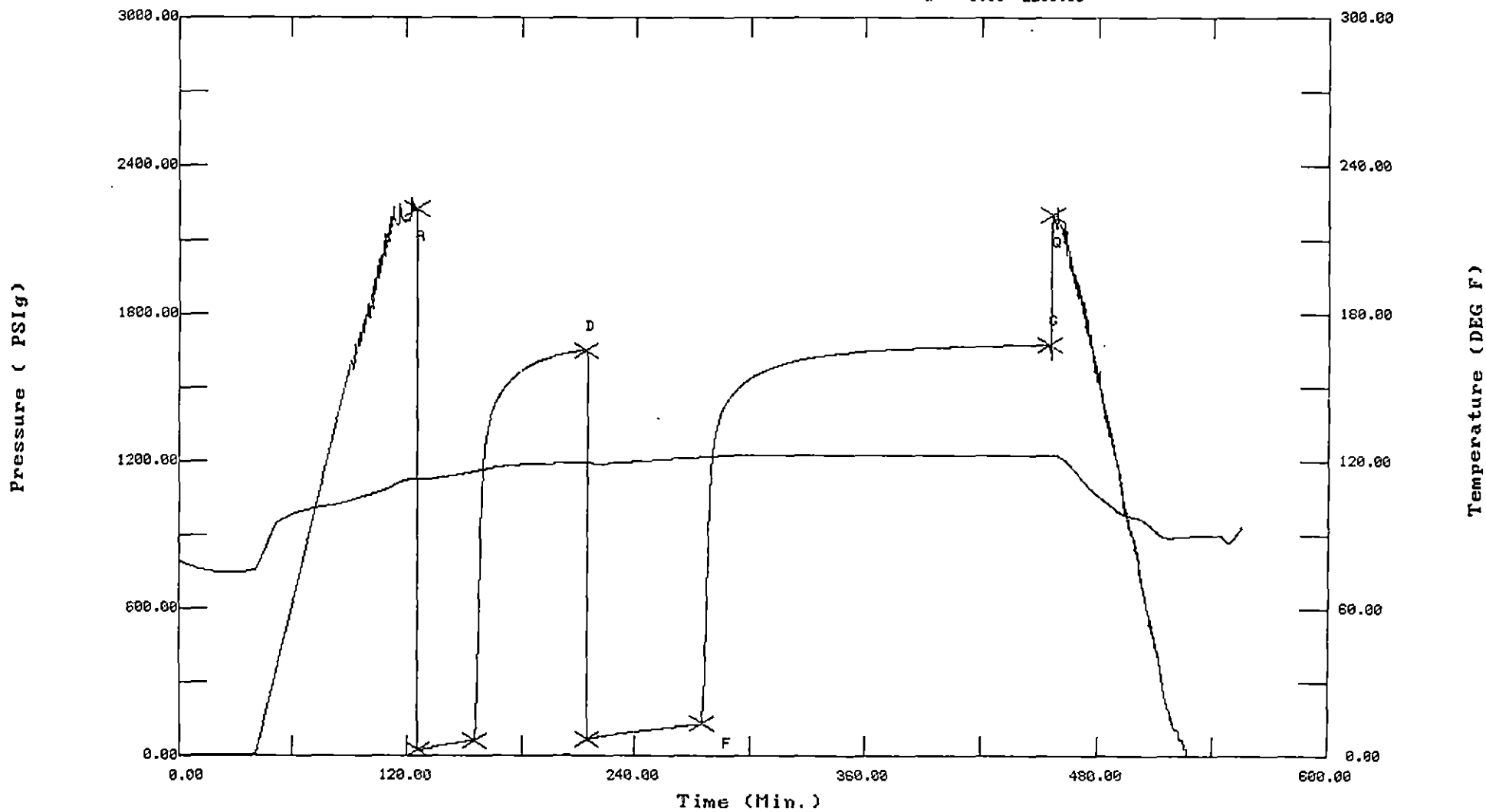
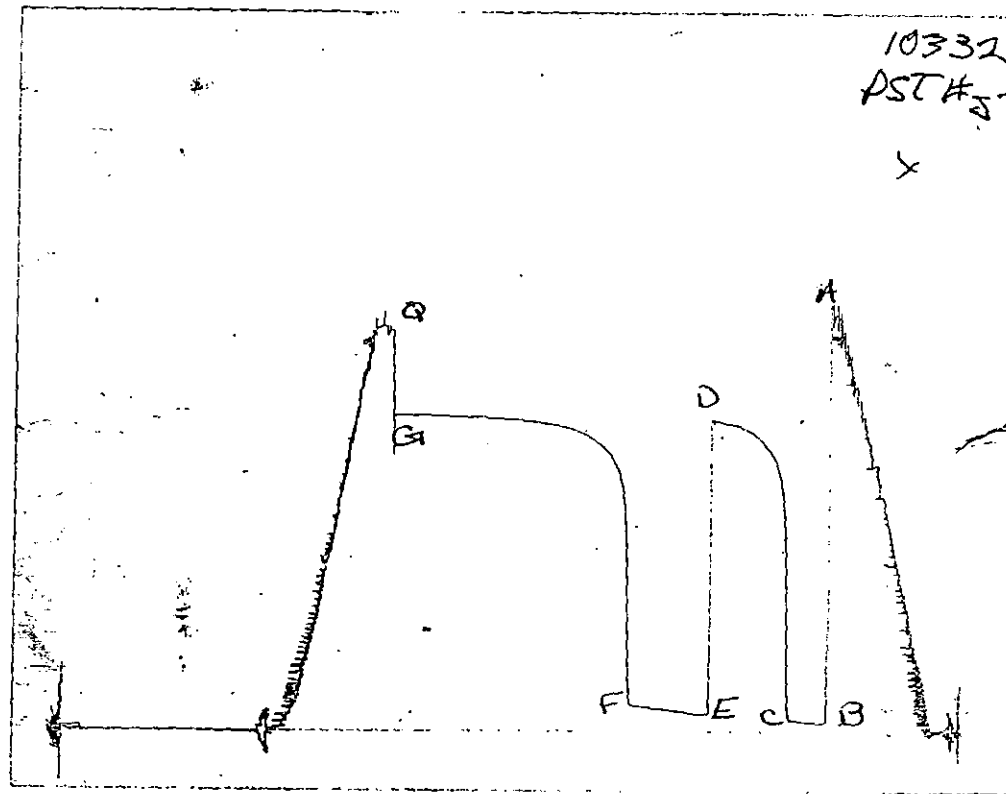


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey pet, corp.

DATE 07/16/199

WELL NAME: Donovan #1

KB 1702.00 ft

TICKET NO: 11831 DST #6

LOCATION : 10-34s-13w

GR 1694.00 ft

FORMATION: Hertha

INTERVAL : 4624.00 To 4645.00 ft

TD 4645.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	3030			PF Fr. 0808 to 0838 hr
SI 60 Range (Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0838 to 0938 hr
SF 60 Clock (hrs)	12hr.	12hr.	elec.			SF Fr. 0938 to 1038 hr
FS 240 Depth (ft)	4642.0	4642.0	4631.0	0.0	0.0	FS Fr. 1038 to 1438 hr

	Field	1	2	3	4	
A. Init Hydro	2378.0	2384.0	2304.0	0.0	0.0	T STARTED 0630 hr
B. First Flow	122.0	124.0	89.0	0.0	0.0	T ON BOTM 0806 hr
B1. Final Flow	152.0	150.0	153.0	0.0	0.0	T OPEN 0808 hr
C. In Shut-in	1529.0	1534.0	1540.0	0.0	0.0	T PULLED 1438 hr
D. Init Flow	182.0	186.0	167.0	0.0	0.0	T OUT 1645 hr
E. Final Flow	304.0	300.0	319.0	0.0	0.0	
F. Fl Shut-in	1600.0	1612.0	1611.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2368.0	2370.0	2282.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 702.00 ft of 0.00 ft in DC and 702.00 ft in DP
 522.00 ft of FREE OIL
 120.00 ft of Heavy gas cut oily mud 30%gas 10%oil 40%mud
 60.00 ft of Gas cut oily mud 28%gas 38%oil 34% mud
 4607.00 ft of Gas in pipe
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 36.00

Wt Pulled Loose 80000.00 lbs
 Initial Str Wt 50000.00 lbs
 Unseated Str Wt 53000.00 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 4596.00 ft

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in
 30 secs. Gas to surface in 5 mins.
 Initial Shut-in:
 Bled down for 20 mins. bottom of
 bucket in 5 mins
 Final Flow:
 Strong blow Gauge gas
 Final Shut-in:
 Bled down for 60 mins. bottom of
 bucket in 4 1/2 mins.

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/c
 Vis. 44.00 S/L
 W.L. 7.20 in3
 F.C. 0.32 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 122.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N
 Tool Chased N
 Tester Darren Amerine
 Co. Rep. Mikeal K. Maune
 Contr. Duke
 Rig # 2
 Unit # no
 Pump T. none

SAMPLES: Caraway Analytical
 SENT TO: Liberal Kansas

Test Successful: Y

GAS RECOVERY

COMPANY: Woolsey pet, corp.

DATE: 07/16/199

WELL NAME: Donovan #1

KB Elev: 1702.00 ft TICKET #11831 DST #6

WELL LOCATION: 10-34s-13w

GR Elev: 1694.00 ft FORMATION: Hertha

INTERVAL Fr.: 4624.00 To 4645.00 T.D.: 4645.00 ft TEST TYPE: CONVENTIONAL

AS RECOVERY MEASURED WITH Adj.choke

**** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.38	14	0	95000.0

**** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
15	0.38	16	0	102000.0
20	0.38	16	0	104000.0
25	0.38	16	0	100000.0
30	0.38	14	0	97000.0

**** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.38	4	0	64000.0
10	0.38	8	0	75000.0
15	0.38	8	0	74000.0
20	0.38	8	0	74000.0
25	0.38	6	0	67000.0
30	0.38	6	0	67000.0
35	0.38	4	0	64000.0
40	0.25	2	0	24000.0
45	0.25	5	0	28000.0
50	0.25	4	0	27000.0
55	0.25	4	0	27000.0
60	0.25	4	0	28000.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Donovan #1

LOCATION : 10-34s-13w

TICKET No. 11831 D.S.T. No. 6 DATE 07/16/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 21

TOTAL TOOL 49

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands74 Single 1 Total 4596

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4656

TOTAL DEPTH 4645

TOTAL DRILL PIPE ABOVE K.B. 11

REMARKS:

P.O. SUB	
C.O. SUB	4598
S.I. TOOL	4603
HMV	4608
JARS	4613
SAFETY JOINT	4615
PACKER	4619
PACKER	4624
DEPTH 4624	
STUBB 1'stubb to	4625
ANCHOR 6'of perfs.to	4631
Alpine rec.@4631	
T.C. DEPTH	
	4631
	4631
12'of perfs.to	4643
ak-1 rec.@4642	
BULLNOSE 2'bullnose to	4645
T.D.	

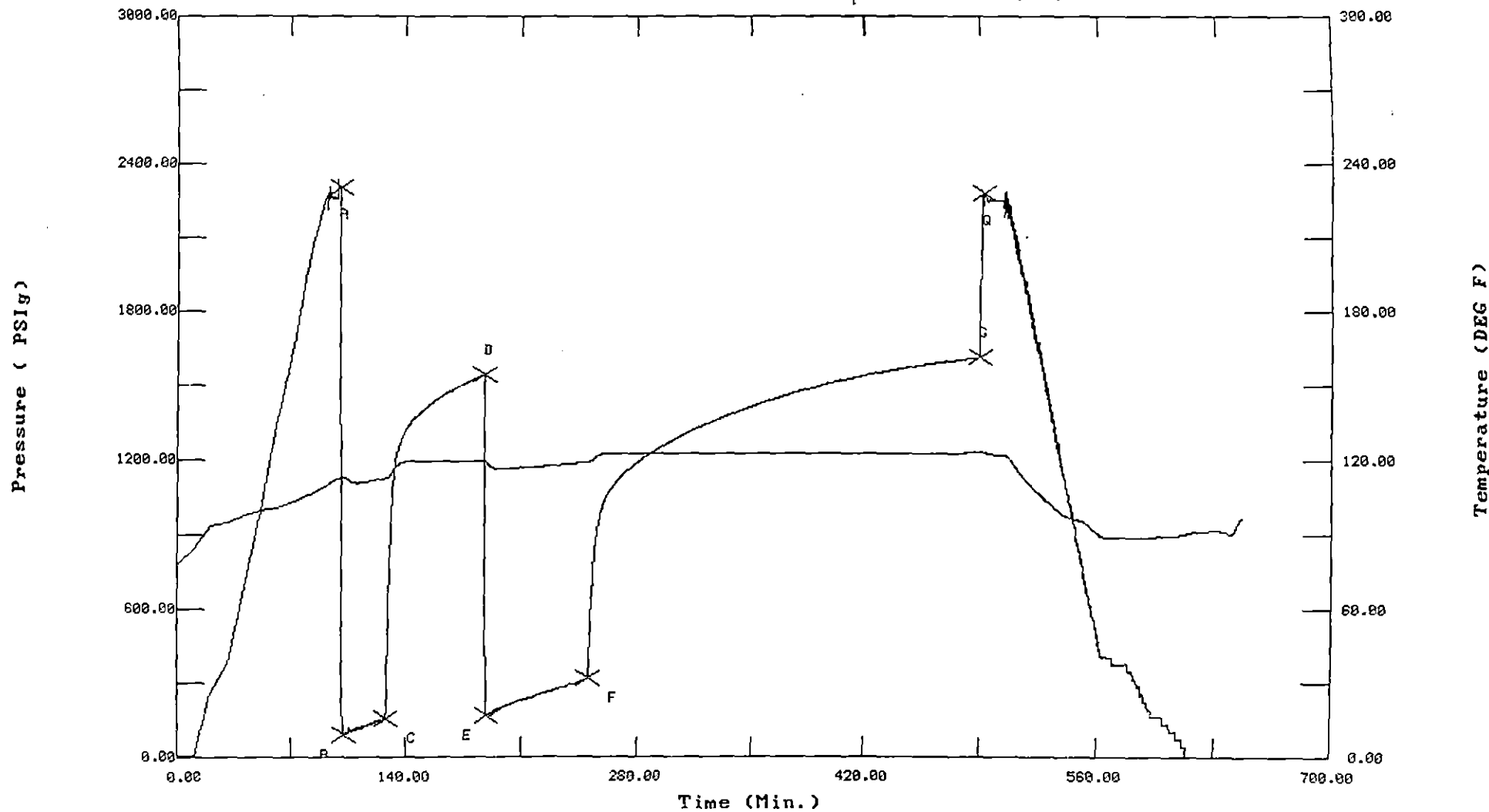
TEST HISTORY

Tk#11831 DST#6 Donovan #1 Woolsey pet,corp

Flag Points

t(Min.) P(PSig)

R:	0.00	2303.90
B:	0.00	68.64
C:	25.50	152.97
D:	60.25	1540.20
E:	0.00	167.11
F:	60.58	318.86
G:	239.75	1611.38
Q:	0.00	2282.39



CALCULATED RECOVERY ANALYSIS

DST 6

TICKET 11831

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	522		0	100	522		0		0
PIPE 2	120	30	36	10	12		0	40	48
3	60	28	16.8	38	22.8		0	34	20.4
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1			0		0		0		0
COLLARS 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	702		52.8		556.8		0		68.4

		HRS OPEN	BBL/DAY
BBL OIL=	7.917696	* 1.5	= 126.6831
BBL WATER=	0	*	= 0
BBL MUD=	0.972648		
BBL GAS =	0.750816		

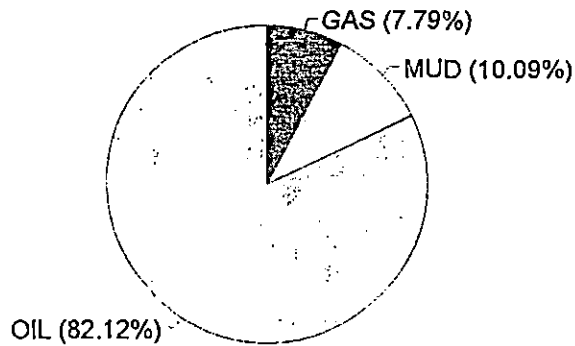
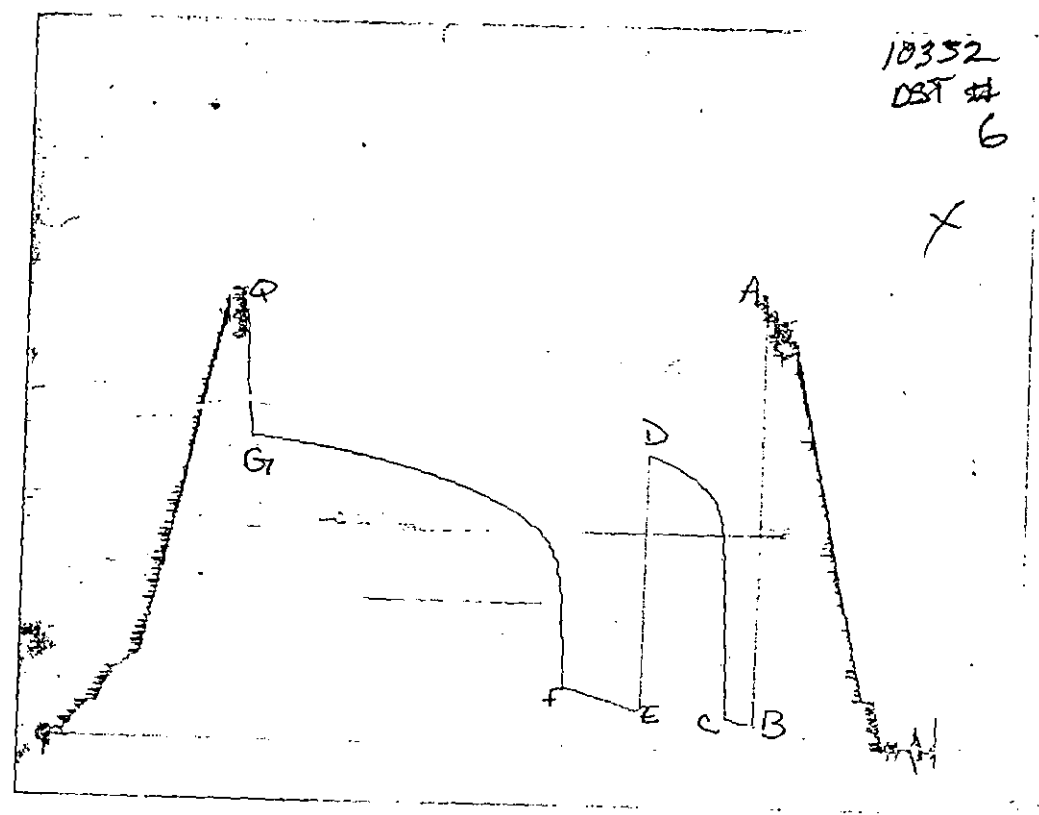


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petroleum Corp
 WELL NAME: Donovan
 LOCATION : 10-34s-13w Barber co. KS
 INTERVAL : 4774.00 To 4830.00 ft

DATE 07/17/199
 KB 1702.00 ft TICKET NO: 11832 DST #7
 GR 1694.00 ft FORMATION: Miss.
 TD 4830.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10332	10332	3030			PF Fr. 1531 to 1601 hr
SI 60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1601 to 1701 hr
SF 60	Clock(hrs)	12hr.	12hr.	elec			SF Fr. 1701 to 1801 hr
FS 240	Depth(ft)	4827.0	4827.0	4816.0	0.0	0.0	FS Fr. 1801 to 2201 hr

	Field	1	2	3	4	
A. Init Hydro	2388.0	2384.0	2384.0	0.0	0.0	T STARTED 1319 hr
B. First Flow	30.0	44.0	43.0	0.0	0.0	T ON BOTM 1528 hr
B1. Final Flow	20.0	36.0	39.0	0.0	0.0	T OPEN 1531 hr
C. In Shut-in	202.0	203.0	225.0	0.0	0.0	T PULLED 2201 hr
D. Init Flow	30.0	37.0	38.0	0.0	0.0	T OUT 2345 hr
E. Final Flow	41.0	38.0	42.0	0.0	0.0	
F. Fl Shut-in	608.0	617.0	633.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2378.0	2374.0	2370.0	0.0	0.0	Tool Wt. 2100.00 lb:
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lb:
						Wt Pulled Loose 70000.00 lb:
						Initial Str Wt 51000.00 lb:
						Unseated Str Wt 51000.00 lb:
						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 4762.00 ft

RECOVERY

Tot Fluid 50.00 ft of 0.00 ft in DC and 50.00 ft in DP
 50.00 ft of drilling mud
 0.00 ft of with trace of oil
 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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak blow built to 4" in water
 Initial Shut-in:
 Bled down for 3 mins, no blow back
 Final Flow:
 Fair blow built to 5" in water
 Final Shut-in:
 Bled down for 1 min. no blow back

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.00 lb
 Vis. 49.00 S/
 W.L. 6.80 in
 F.C. 0.32 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 124.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N
 Tool Chased N
 Tester Darren Amerine
 Co. Rep. Wes Hensen
 Contr. Duke
 Rig # 2
 Unit # none
 Pump T. no

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL .

WELL NAME: Donovan

LOCATION : 10-34s-13w Barber co. KS

TICKET No. 11832 D.S.T. No. 7 DATE 07/17/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 26

TOTAL TOOL 54

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 30

TOTAL ASSEMBLY 84

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands78 Single Total 4762

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4846

TOTAL DEPTH 4830

TOTAL DRILL PIPE ABOVE K.B. 16

REMARKS:

P.O. SUB	4747
C.O. SUB	4748
S.I. TOOL	4753
HMV	4758
JARS	4763
SAFETY JOINT	4765
PACKER	4769
PACKER	4774
DEPTH 4774	
STUBB 1'stubb to	4775
ANCHOR 4' of perms.to	4779
30'drillpipe to	4809
	4809
	4809
T.C. DEPTH	
7'of perms.to Alpine rec.4816	4816
	4816
12'of perms.to	4828
ak-1 rec.@ 4827	
BULLNOSE 2'bullnose to T.D.	4830

TEST HISTORY

Tk#11832 DST#7 Donovan #1 Woolsey pet,corp

Flag Points

t(Min.) P(PSig)

A:	0.00	2384.33
B:	0.00	42.64
C:	30.00	38.82
D:	59.25	225.49
E:	0.00	37.98
F:	60.25	42.16
G:	240.00	633.41
Q:	0.00	2370.41

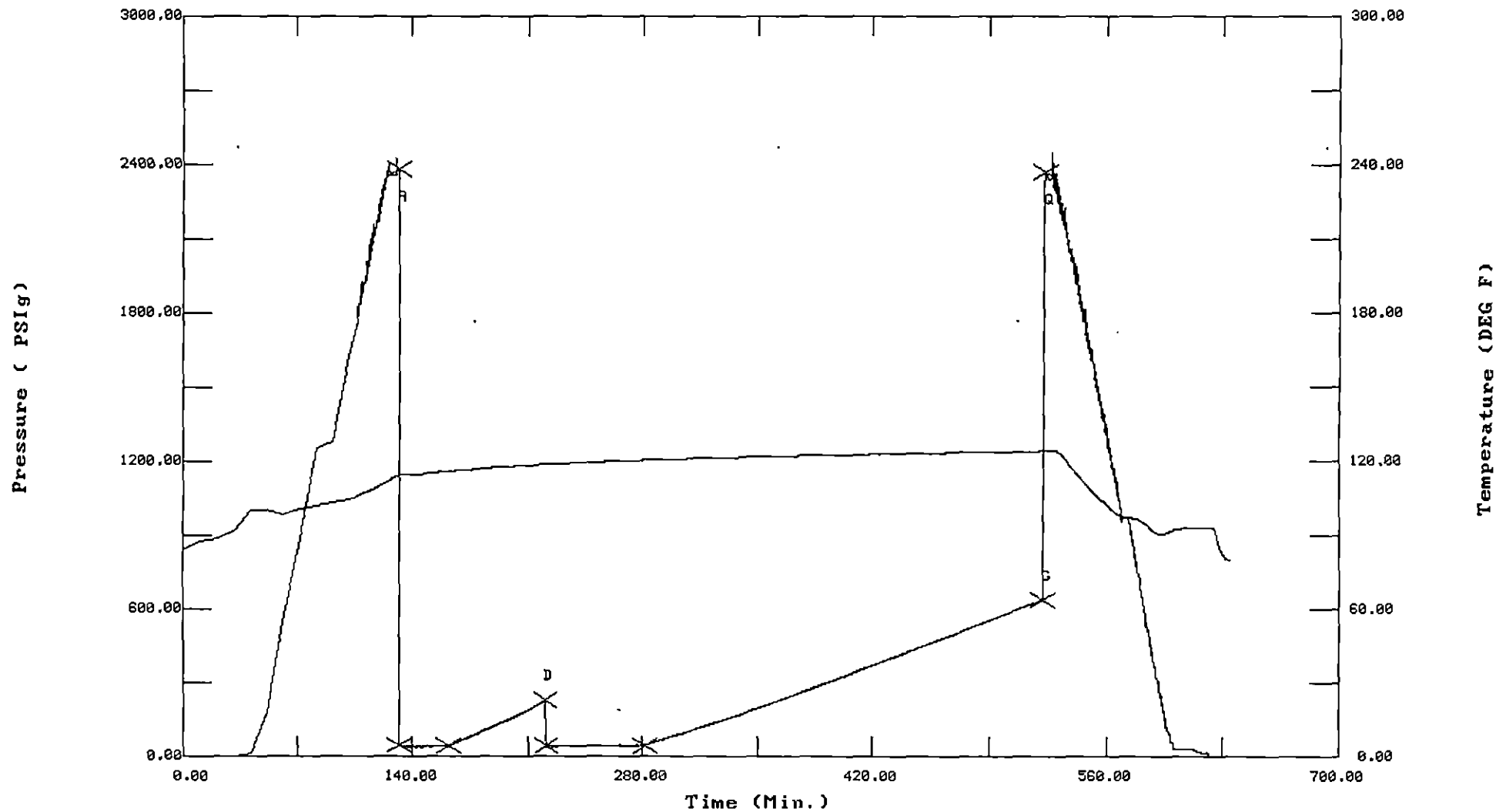
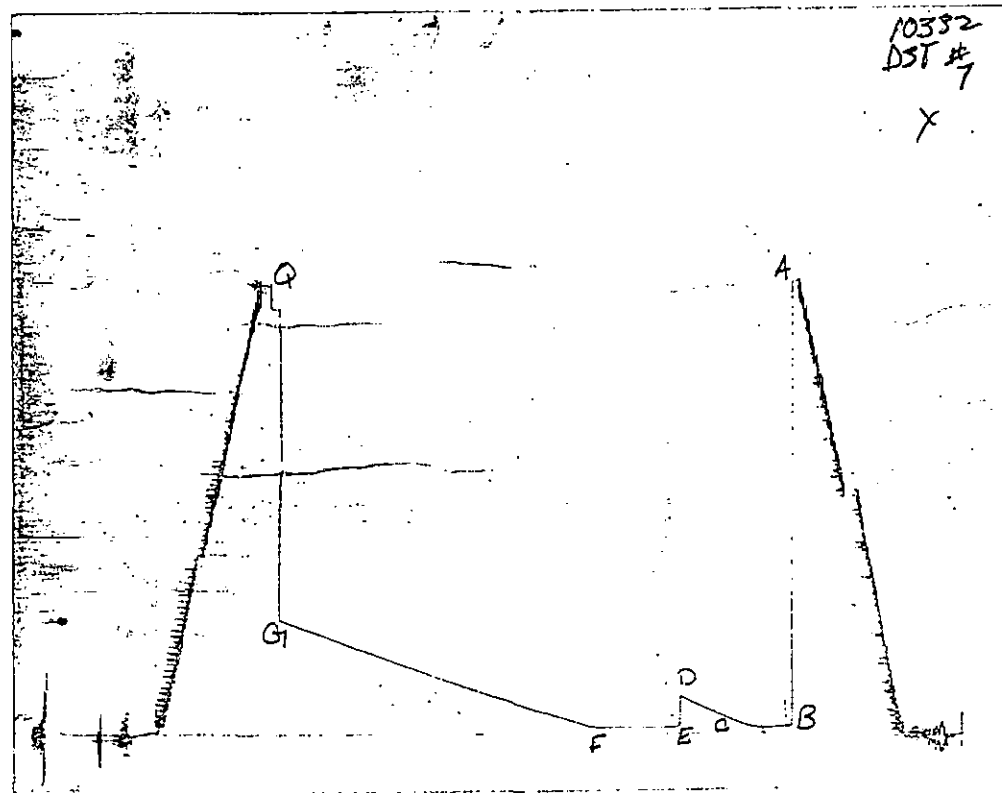


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petroleum Corp
 WELL NAME: Donovan
 LOCATION : Sec.10 Twp.34s Rge.13w
 INTERVAL : 4844.00 To 4890.00 ft

DATE 07/18/199
 KB 1702.00 ft TICKET NO: 11833 DST #8
 GR 1694.00 ft FORMATION: Miss."B"
 TD 4890.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10332	10332	3030			PF Fr. 1233 to 1303 hr
SI 60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1303 to 1403 hr
SF 60	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1403 to 1503 hr
FS 240	Depth(ft)	4887.0	4887.0	4859.0	0.0	0.0	FS Fr. 1503 to 1903 hr

	Field	1	2	3	4	
A. Init Hydro	2418.0	2428.0	2402.0	0.0	0.0	T STARTED 1012 hr
B. First Flow	51.0	65.0	30.0	0.0	0.0	T ON BOTM 1230 hr
B1. Final Flow	51.0	65.0	43.0	0.0	0.0	T OPEN 1233 hr
C. In Shut-in	608.0	628.0	632.0	0.0	0.0	T PULLED 1903 hr
D. Init Flow	71.0	71.0	33.0	0.0	0.0	T OUT 2030 hr
E. Final Flow	71.0	71.0	52.0	0.0	0.0	
F. Fl Shut-in	1784.0	1810.0	1793.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2398.0	2351.0	2358.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 56.00 ft of 0.00 ft in DC and 56.00 ft in DP
 56.00 ft of gas cut mud 20%gas 80%mud
 0.00 ft of Trace of oil
 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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Fair blow - bottom of bucket in
 5 minutes

Initial Shutin:
 Bled down for 10 minutes -
 no blow back

Final Flow:
 Strong blow bottom of bucket in
 30 seconds

Final Shutin:
 Bled down for 15 min - no blow back

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/
Vis.	46.00 S/I
W.L.	7.20 in
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	124.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Wes Hansen
Contr.	Duke
Rig #	2
Unit #	none
Pump T.	no

Test Successful: Y

TEST HISTORY

Tk#11833 DST#8 Donovan #1 Woolsey pet, corp.

Flag Points
t(Min.) P(PSIg)

A:	0.00	2401.91
B:	0.00	30.45
C:	29.00	42.66
D:	59.00	632.34
E:	0.00	33.19
F:	60.25	51.93
G:	239.50	1792.90
Q:	0.00	2357.57

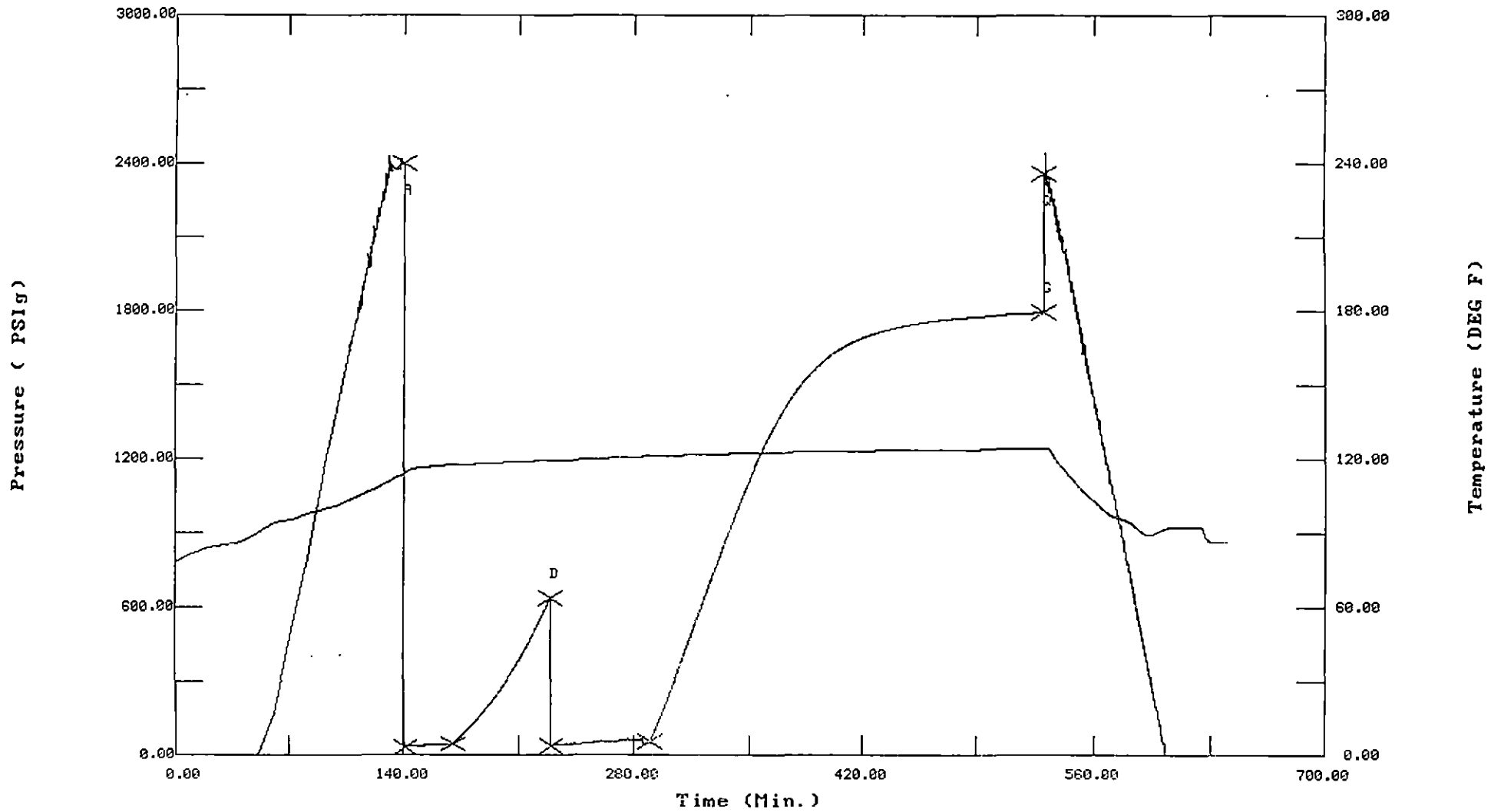
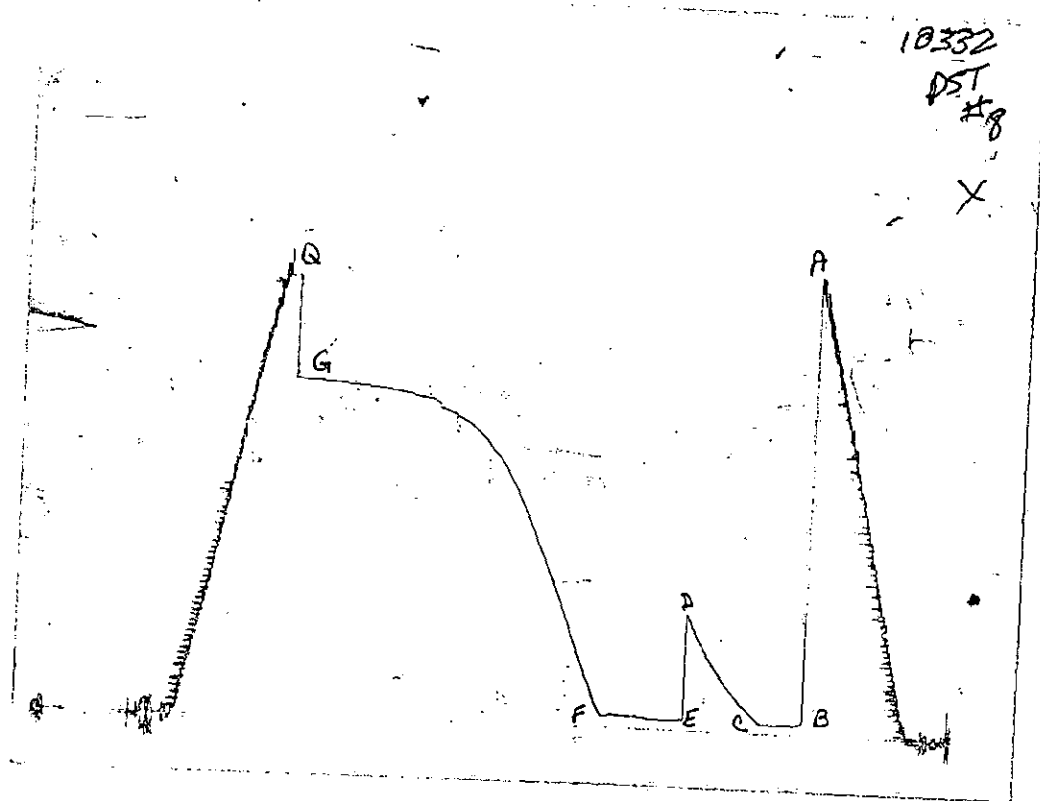


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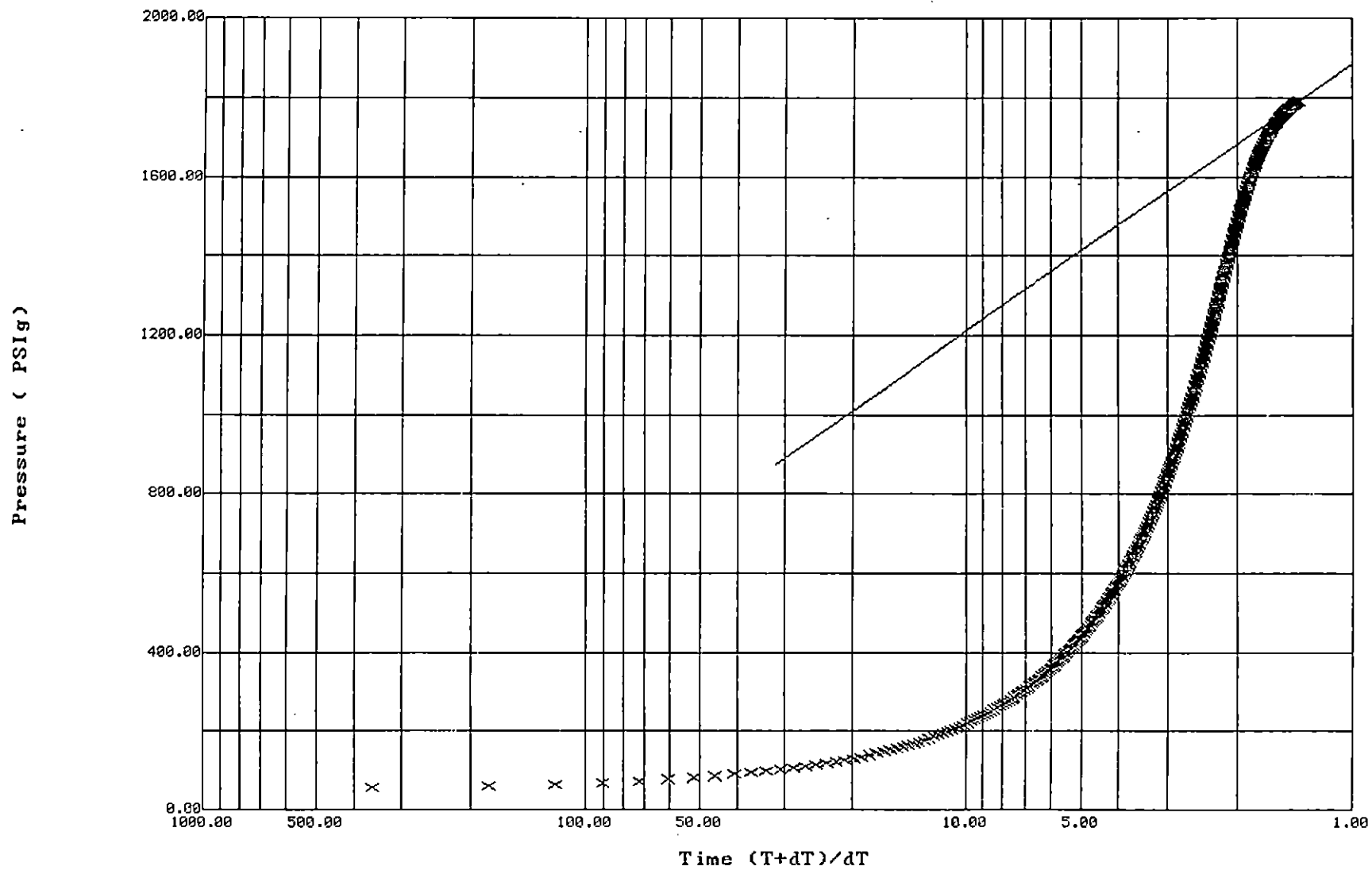
This is a photocopy of the actual AK-1 recorder chart

Horner Plot: shut-in #2

Tk#11833 DST#8 Donovan #1 Woolsey pet,corp.

Slope: 673.5080 PSig/cycle

Ext. Pressure: 1885.5850 PSig



TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey pet, corp.

DATE 07/20/199

WELL NAME: Donovan #1

KB 1702.00 ft

TICKET NO: 11834 DST #9

LOCATION : 10-34s-13w Barber co. KS

GR 1694.00 ft

FORMATION: Misener

INTERVAL : 5092.00 To 5140.00 ft

TD 5140.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	3030			PF Fr. 1002 to 1032 hr
SI 60 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1032 to 1132 hr
SF 45 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1132 to 1217 hr
FS 180 Depth(ft)	5137.0	5137.0	5108.0	0.0	0.0	FS Fr. 1217 to 1517 hr

	Field	1	2	3	4	
A. Init Hydro	2508.0	2505.0	2498.0	0.0	0.0	T STARTED 0702 hr
B. First Flow	51.0	61.0	27.0	0.0	0.0	T ON BOTM 0959 hr
B1. Final Flow	51.0	57.0	28.0	0.0	0.0	T OPEN 1002 hr
C. In Shut-in	81.0	89.0	66.0	0.0	0.0	T PULLED 1517 hr
D. Init Flow	41.0	52.0	23.0	0.0	0.0	T OUT 1700 hr
E. Final Flow	51.0	56.0	24.0	0.0	0.0	
F. Fl Shut-in	91.0	89.0	86.0	0.0	0.0	
G. Final Hydro	2428.0	2422.0	2400.0	0.0	0.0	
Inside/Outside	0	0				

TOOL DATA-----

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	65000.00 lbs
Initial Str Wt	54000.00 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	5097.00 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

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

BLOW DESCRIPTION

Initial Flow:
Weak surface blow 1/8" in water

Initial Shut-in:
Bled down for

Final Flow:
Dead blow

Final Shut-in:
No blow back

Final Shut-in:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/ci
Vis.	49.00 S/L
W.L.	7.00 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	125.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Wes Hansen
Contr.	Duke
Rig #	2
Unit #	no
Pump T.	none

SAMPLES:

SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Donovan #1

LOCATION : 10-34s-13w Barber co. KS

TICKET No. 11834 D.S.T. No. 9 DATE 07/20/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 48

TOTAL TOOL 76

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands Single Total

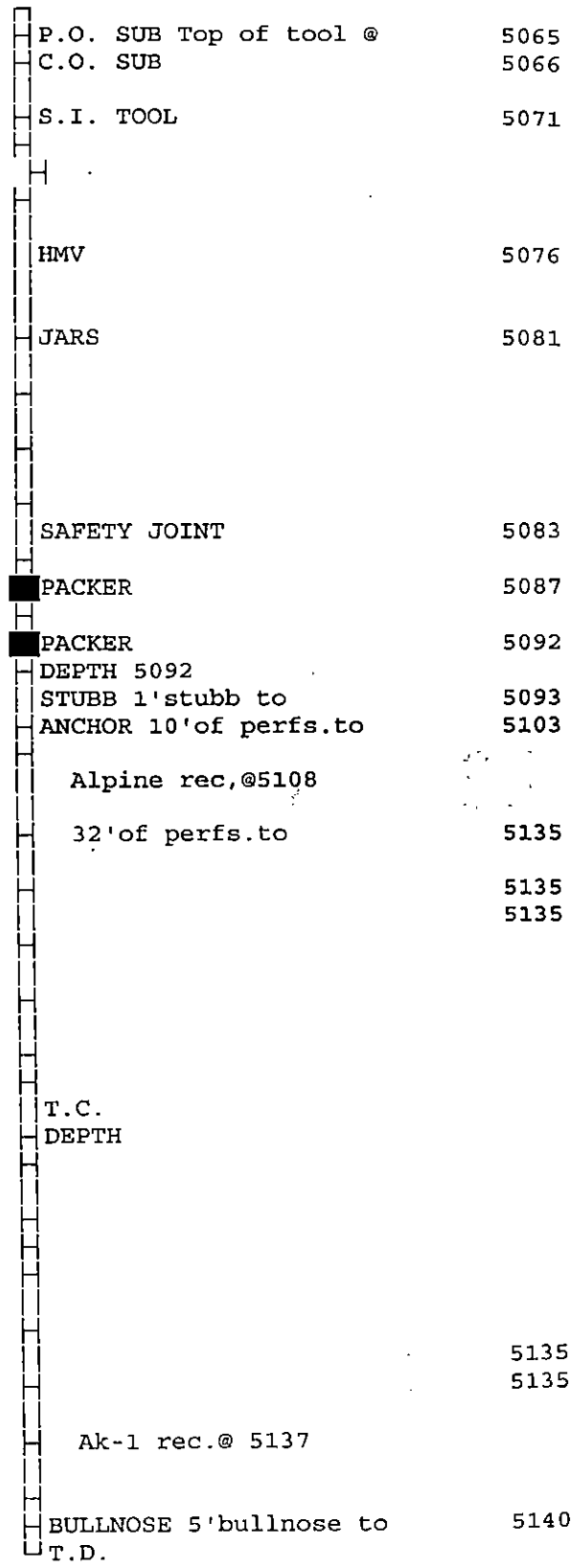
D.P. ABOVE TOOLS.Stands82 Single 1 Total 5097

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5173

TOTAL DEPTH 5140

TOTAL DRILL PIPE ABOVE K.B. 33

REMARKS:



P.O. SUB Top of tool @ 5065
C.O. SUB 5066

S.I. TOOL 5071

HMV 5076

JARS 5081

SAFETY JOINT 5083

PACKER 5087

PACKER 5092

DEPTH 5092

STUBB 1'stubb to 5093

ANCHOR 10'of perfs.to 5103

Alpine rec,@5108

32'of perfs.to 5135

5135

5135

T.C. DEPTH

5135

5135

Ak-1 rec.@ 5137

BULLNOSE 5'bullnose to 5140

T.D.

TEST HISTORY

Tk#11834 DST#9 Donovan #1 Woolsey pet, corp

Flag Points

t (Min.) P (PSig)

A:	0.00	2498.14
B:	0.00	26.62
C:	31.00	27.76
D:	58.50	65.71
E:	0.00	22.61
F:	43.75	23.86
G:	180.75	86.00
Q:	0.00	2399.49

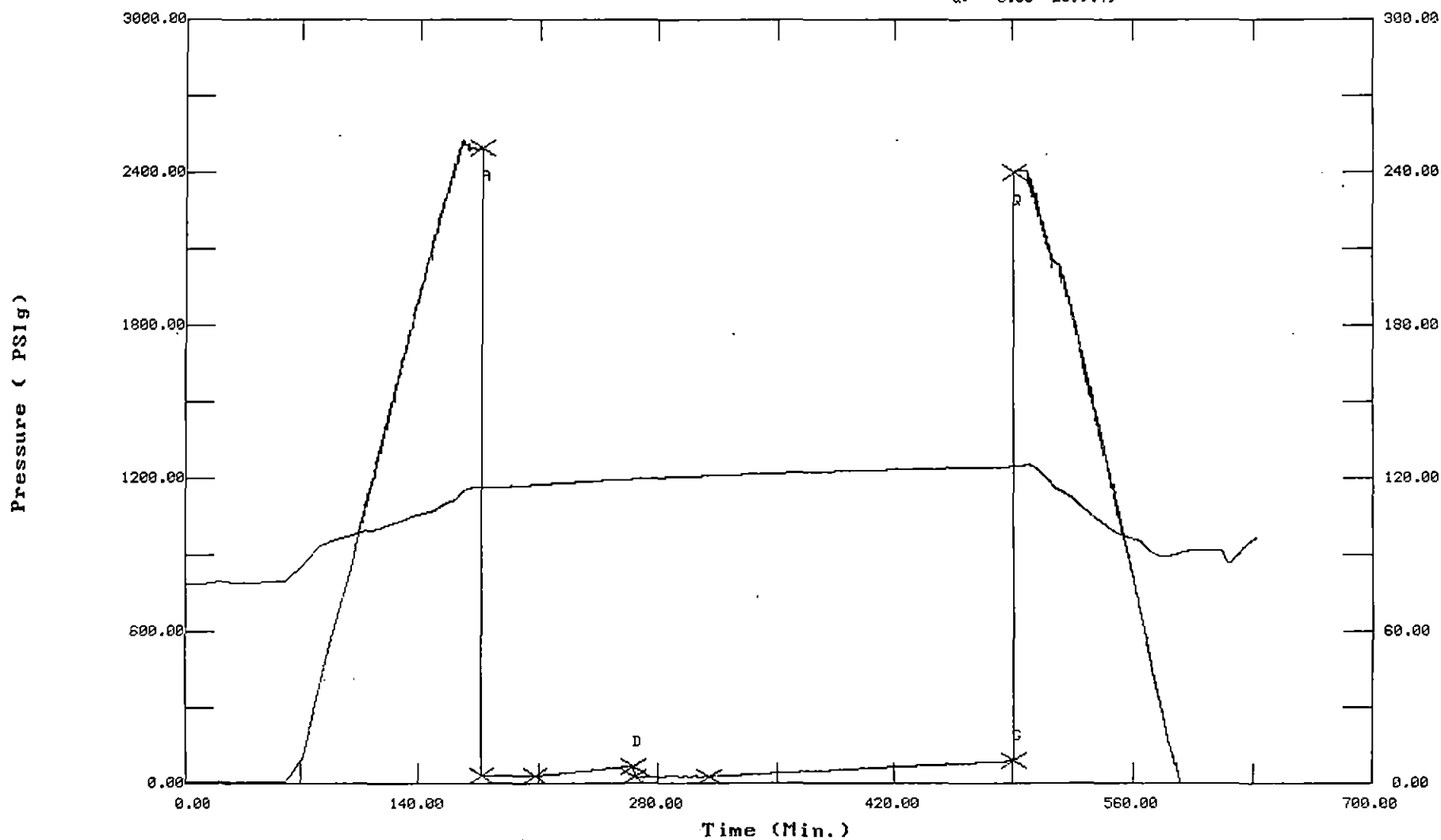
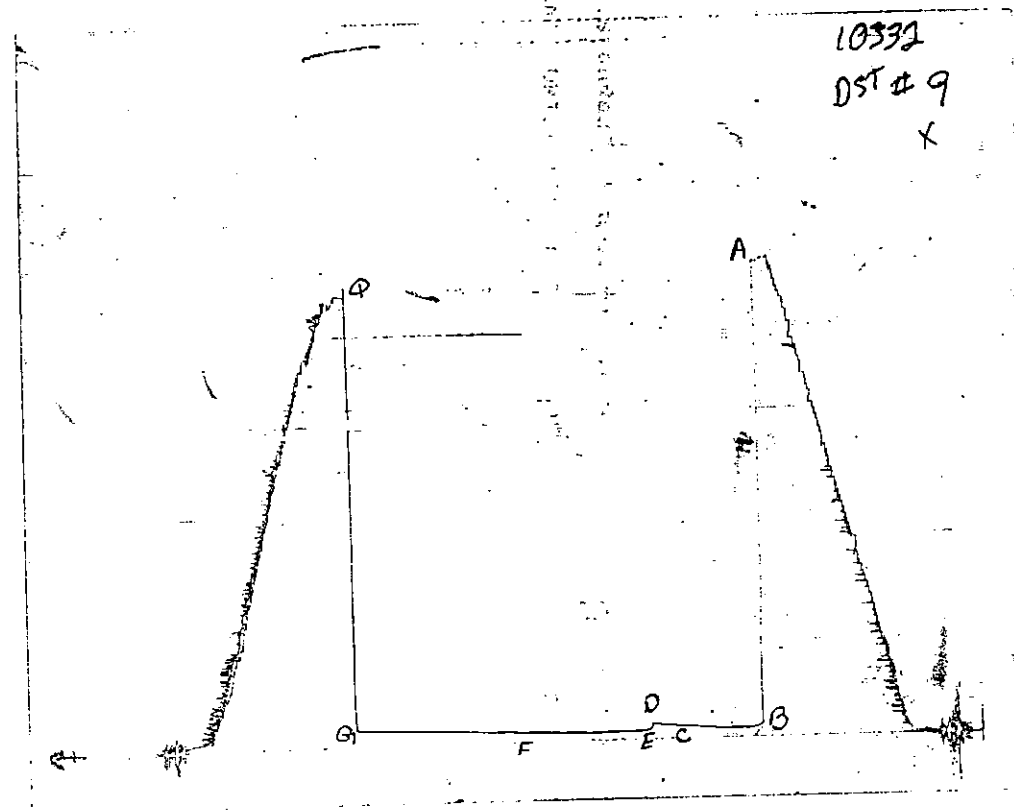


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey pet, corp.

DATE 07/21/199

WELL NAME: Donovan #1

KB 1702.00 ft TICKET NO: 11835 DST #10

LOCATION : 10-34s-13w Barber co. KS

GR 1694.00 ft FORMATION: Simpson sd.

INTERVAL : 5228.00 To 5286.00 ft

TD 5286.00 ft. TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10332	10332	3030			PF Fr. 1604 to 1634 hr
SI 60	Range(Psi)	4025.0	4025.0	4994.0	0.0	0.0	IS Fr. 1634 to 1734 hr
SF 60	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1734 to 1834 hr
FS 240	Depth(ft)	5283.0	5283.0	5266.0	0.0	0.0	FS Fr. 1834 to 2234 hr

	Field	1	2	3	4	
A. Init Hydro	2711.0	2697.0	2583.0	0.0	0.0	T STARTED 1330 hr
B. First Flow	132.0	128.0	48.0	0.0	0.0	T ON BOTM 1602 hr
B1. Final Flow	132.0	131.0	81.0	0.0	0.0	T OPEN 1604 hr
C. In Shut-in	364.0	367.0	339.0	0.0	0.0	T PULLED 2234 hr
D. Init Flow	121.0	133.0	77.0	0.0	0.0	T OUT 0030 hr
E. Final Flow	132.0	127.0	82.0	0.0	0.0	
F. Fl Shut-in	324.0	133.0	304.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2610.0	2563.0	2476.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 140.00 ft of 0.00 ft in DC and 140.00 ft in DP
 140.00 ft of Very slight gas cut mud 5%Gas 95%Mud
 2914.00 ft of gas in pipe
 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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Fair blow bottom of bucket in 14 mins
 Initial Shut-in:
 Bled down for 3 mins, no blow back
 Final Flow:
 Strong blow, bottom of bucket in
 30 secs
 Final Shut-in:
 Bled down for 5 mins. no blow back

SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	48.00 S/L
W.L.	8.00 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	130.00 F
Hole Condition	fair
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Wes Hansen
Contr.	Duke
Rig #	2
Unit #	no
Pump T.	none

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Donovan #1

LOCATION : Sec.10 Twp.34s

TICKET No. 11835 D.S.T. No. 10 DATE 07/21/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 26

TOTAL TOOL 54

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 32

TOTAL ASSEMBLY 86

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands85 Single 1 Total 5222

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5308

TOTAL DEPTH 5286

TOTAL DRILL PIPE ABOVE K.B. 22

REMARKS:

P.O. SUB Top of tool @	5201
C.O. SUB	5202
S.I. TOOL	5207
HMV	5212
JARS	5217
SAFETY JOINT	5219
PACKER	5223
PACKER	5228
DEPTH 5228	
STUBB 1'stubb to	5229
ANCHOR	
32'drillpipe to	5261
	5261
	5261
T.C.	
DEPTH	
Alpine rec.@ 5266	
	5261
	5261
23'of perms.to	5284
Ak-1 rec.@ 5283	
BULLNOSE 2'bullnose to	5286
T.D.	

TEST HISTORY

Tk#11835 DST#10 Donovan #1 Woolsey pet, corp.

Flag Points
t (Min.) P (PSig)

A:	0.00	2582.84
B:	0.00	48.45
C:	29.50	81.23
D:	60.00	338.95
E:	0.00	77.39
F:	59.00	82.18
G:	240.75	303.66
Q:	0.00	2475.89

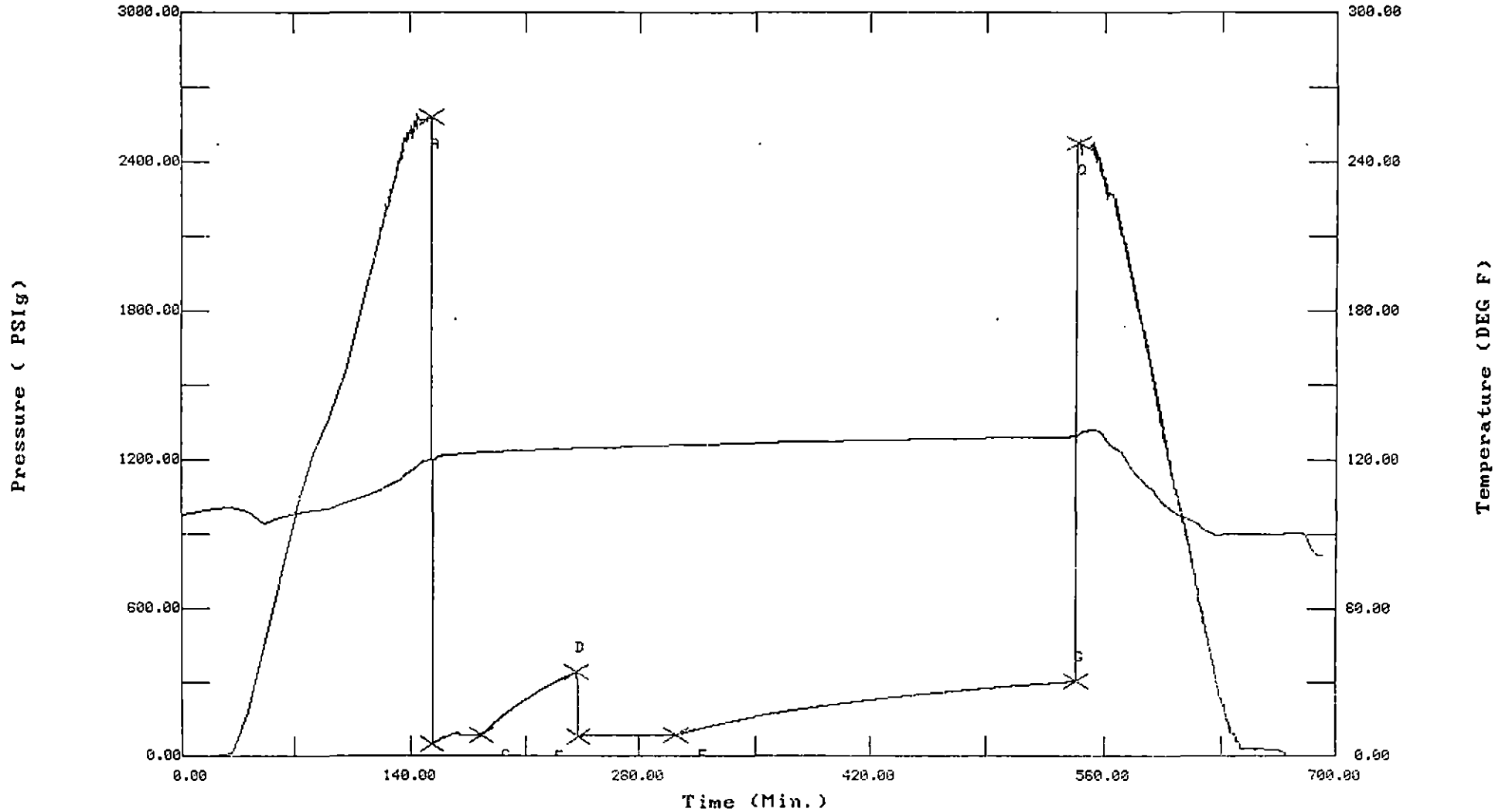
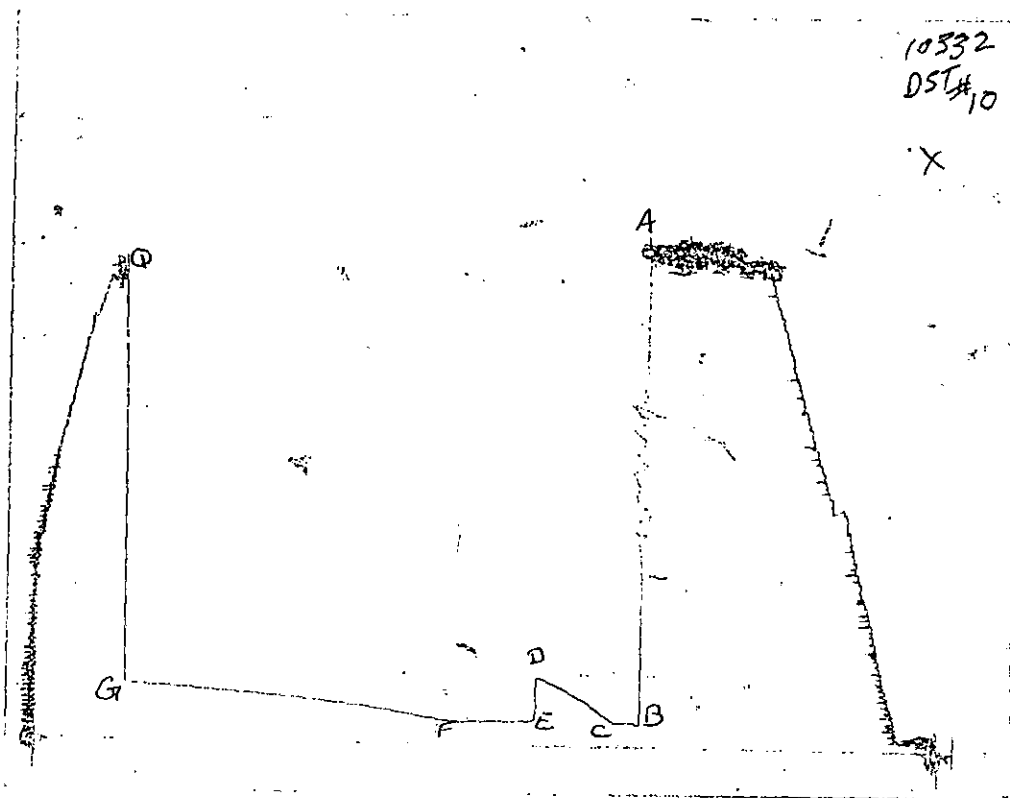


CHART PAGE



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