33-33-13w

SEP 01 1998

ORIGINAL

KCC

CONFIDENTIAL

WELL NAME: Spriggs #D-2
COMPANY: Woolsey Petroleum Corp.
LOCATION: 33-33s-13w
Barber County, Kansas
DATE: 8/31/98

DEC 7 1998
CONFIDENTIAL

RELEASED
DEC 17 2000
FROM CONFIDENTIAL

ORIGINAL

TRILOBITE TESTING L.L.C.

OPERATOR : Woolosey pet,corp DATE 08/22/199
WELL NAME: Spriggs #D-2 KB 1682.00 ft TICKET NO: 11843 DST #1
LOCATION : 33-33s-13w Barber co. KS GR 1672.00 ft FORMATION: Indian cave
INTERVAL : 2880.00 To 2953.00 ft TD 2953.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10332	10332	2357		
SI 60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	12hr.	12hr.	elec.		
FS 240	Depth(ft)	2950.0	2950.0	2918.0	0.0	0.0

TIME DATA----------
PF Fr. 1659 to 1729 hr
IS Fr. 1729 to 1829 hr
SF Fr. 1829 to 1929 hr
FS Fr. 1929 to 2229 hr

	Field	1	2	3	4
A. Init Hydro	1387.0	1356.0	1325.0	0.0	0.0
B. First Flow	111.0	103.0	76.0	0.0	0.0
B1. Final Flow	375.0	388.0	413.0	0.0	0.0
C. In Shut-in	1165.0	1169.0	1163.0	0.0	0.0
D. Init Flow	456.0	465.0	419.0	0.0	0.0
E. Final Flow	709.0	719.0	713.0	0.0	0.0
F. Fl Shut-in	1175.0	1196.0	1177.0	0.0	0.0
G. Final Hydro	1377.0	1306.0	1285.0	0.0	0.0
Inside/Outside		O	O	I	

T STARTED 1500 hr
T ON BOTM 1655 hr
T OPEN 1659 hr
T PULLED 2329 hr
T OUT 0030 hr

TOOL DATA----------

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	100000.00 lbs
Initial Str Wt	64000.00 lbs
Unseated Str Wt	70000.00 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	336.00 ft
D.P. Length	2521.00 ft

RECOVERY
Tot Fluid 1478.00 ft of 336.00 ft in DC and 1142.00 ft in DP
368.00 ft of Very slight water cut mud 95%mud 5%water
1110.00 ft of salt water
0.00 ft of top--.16@82 degrees 42000 CL.
0.00 ft of middle .05@82 degrees 150,000 CL.
0.00 ft of bottom .05@83 degrees 155,000 CL.
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA----------

Mud Type	Chemical
Weight	8.70 lb/c
Vis.	48.00 S/L
W.L.	8.60 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	103.00 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 Hasen
Contr.	Abercrombie
Rig #	5
Unit #	no
Pump T.	none

BLOW DESCRIPTION
Initial Flow:
Fair blow bottom of bucket in
2 1/2 mins.
Initial Shut-in:
Bld down for 2 mins. no blow back
Final Flow:
Fair blow bottom of bucket in 6 mins.
Final Shut-in:
Bled down for 10 mins. no blow back

KCC
DEC 17 1999
CONFIDENTIAL

RELEASED
DEC 17 2000
FROM CONFIDENTIAL

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

VELL NAME: Spriggs #D-2

LOCATION : Sec.33 Twp.33s Rge.13w

TICKET No. 11843 D.S.T. No. 1 DATE 08/22/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 41

TOTAL TOOL 69

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands3 Single 2 Total 336

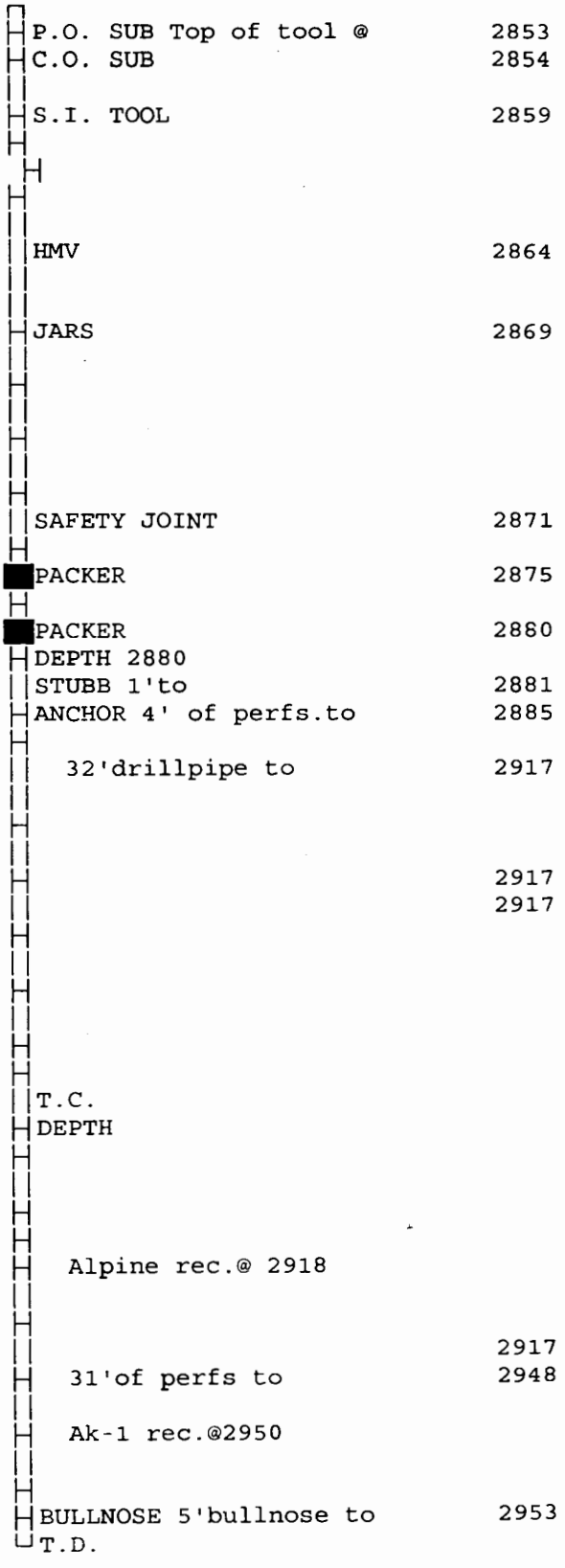
D.P. ABOVE TOOLS.Stands27 Single 2 Total 2521

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 2958

TOTAL DEPTH 2953

TOTAL DRILL PIPE ABOVE K.B. 5

REMARKS:



TEST HISTORY

TK#11843 DST#1 Spriggs #D-2 Woolsey pet,Corp.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1325.15
B:	0.00	75.85
C:	29.50	413.21
D:	60.25	1162.87
E:	0.00	419.47
F:	59.75	712.61
G:	242.00	1177.33
Q:	0.00	1285.07

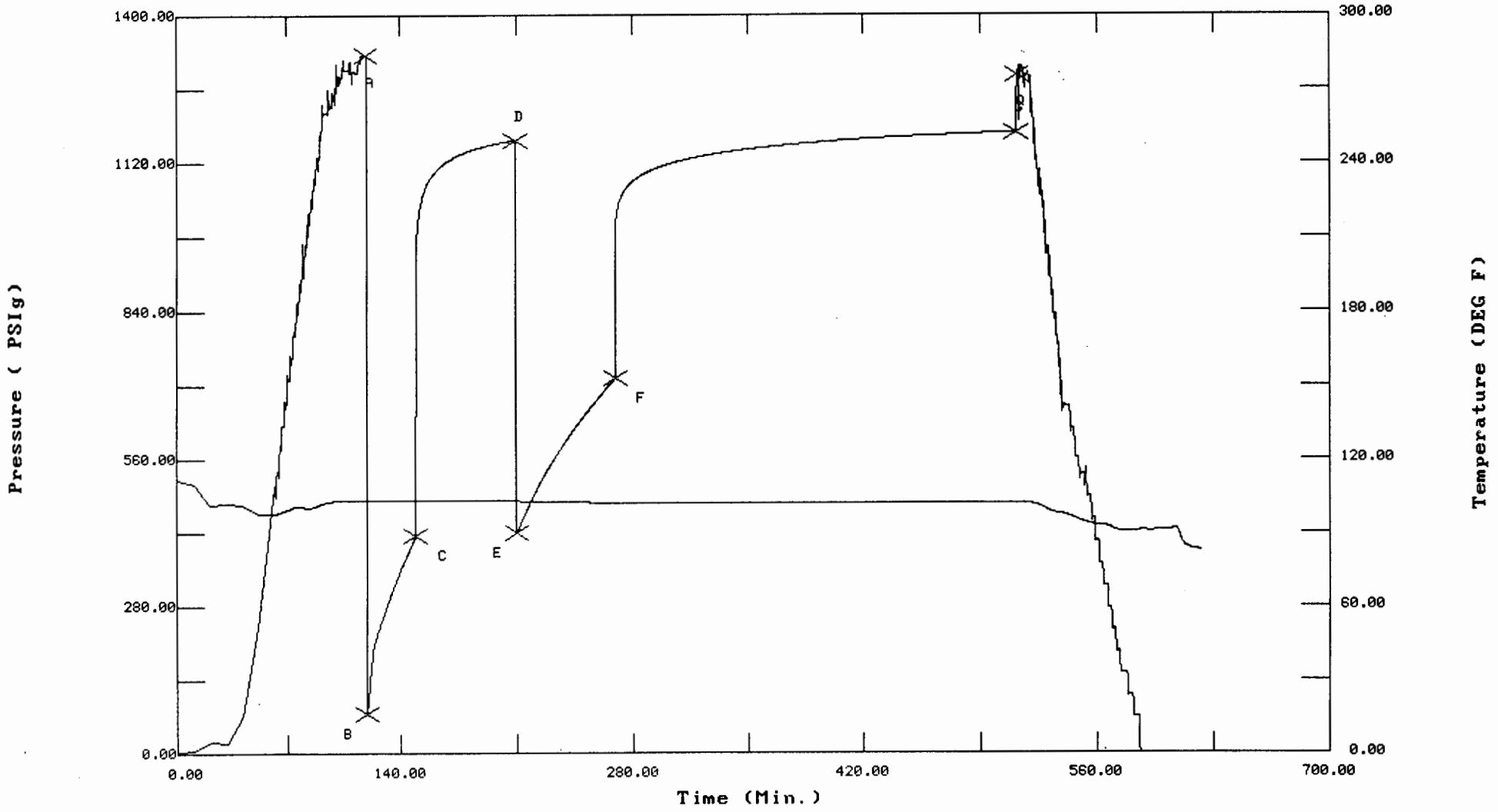
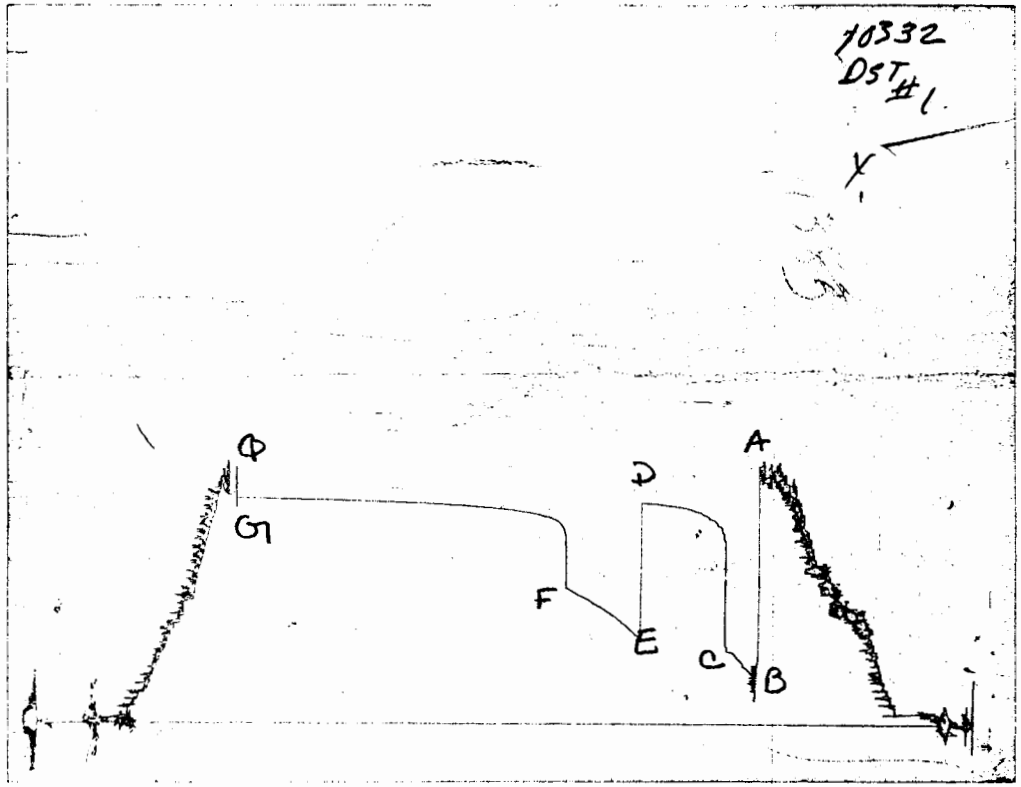


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 11843

Well Name & No. Spriggs D-2 Test No. #1 Date 08/22/1998

Company Woolsey Pet. Corp. 125 N. Market Zone Tested Ind. Cave Sd.

Address Suite 1000 Wichita, KS 67202-1775 Elevation 1682' KB 1672 GL

Co. Rep / Geo. Wes Hansen Cont. Abercrombie #5 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 33 Twp. 33S Rge. 13W Co. Barber State KS

No. of Copies 5 Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 2880' - 2953' Initial Str Wt./Lbs. 64,000 Unseated Str Wt./Lbs. 72,000

Anchor Length 73' Wt. Set Lbs 20,000 Wt. Pulled Loose/Lbs 100,000

Top Packer Depth 2875' Tool Weight 210

Bottom Packer Depth 2880' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Total Depth 2953' Wt. Pipe Run NA Drill Collar Run 336'

Mud Wt. 8.7 LCM ___ Vis. 48 WL 8.6 Drill Pipe Size 4½XH Ft. Run 2521'

Blow Description IF: Fair blow b.o.b in 2½ mins.
ISI: Bled down for 2 mins no b.b.
FF: Fair blow b.o.b in 6 mins
FSI: Bled down for 10 mins no bb

Recovery — Total Feet 1478' GIP NA Ft. in DC 336' Ft. in DP 1142'

Rec. 368'	Feet Of VSWCM	%gas	%oil	5	%water 95	%mud	
Rec. 1110'	Feet Of Salt Water	%gas	%oil		%water	%mud	
Rec. Top	Feet Of .16 @ 82° 42,000	%gas	%oil		%water	%mud	
Rec. Middle	Feet Of .05 @ 82° 150,000	%gas	%oil		%water	%mud	
Rec. Bottom	Feet Of .05 @ 83° 155,000	%gas	%oil		%water	%mud	

BHT 103° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 4,400 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	1387	1325	PSI	Recorder No.	10332	T-On Location 12:30:00
(B) First Initial Flow Pressure	111	76	PSI	(depth)	2950'	T-Started 15:00:00
(C) First Final Flow Pressure	375	413	PSI	Recorder No.	~~2850~~ 2357	T-Open 16:59:00
(D) Initial Shut-In Pressure	1165	1163	PSI	(depth)	2918'	T-Pulled 22:29:00
(E) Second Initial Flow Pressure	456	419	PSI	Recorder No.		T-Out 00:30:00
(F) Second Final Flow Pressure	709	713	PSI	(depth)		T-Off Location 02:30:00
(G) Final Shut-in Pressure	1175	1177	PSI	Initial Opening	30	Test ✓
(Q) Final Hydrostatic Mud	1377	1285	PSI	Initial Shut-in	60	Jars ✓
				Final Flow	60	Safety Joint ✓
				Final Shut-in	180 240	Straddle ___
						Circ. Sub ___
						Sampler ___
						Extra Packer ___
						Elec. Rec. ✓
						Mileage ___
						Other ___

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 Wesley Hansen

Our Representative

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey pet,corp. DATE 08/24/199
WELL NAME: Spriggs #D-2 KB 1682.00 ft TICKET NO: 11844 DST #2
LOCATION : 33-33s-13w Barber co. KS GR 1672.00 ft FORMATION: Elgin sd.
INTERVAL : 3712.00 To 3790.00 ft TD 3790.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10332	10332	2357		
SI 60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	12hr.	12hr.	elec.		
FS 240	Depth(ft)	3787.0	3787.0	3760.0	0.0	0.0

TIME DATA----------
PF Fr. 1445 to 1515 hr
IS Fr. 1515 to 1615 hr
SF Fr. 1615 to 1715 hr
FS Fr. 1715 to 2115 hr

	Field	1	2	3	4
A. Init Hydro	1855.0	1844.0	1823.0	0.0	0.0
B. First Flow	81.0	81.0	59.0	0.0	0.0
B1. Final Flow	81.0	81.0	64.0	0.0	0.0
C. In Shut-in	974.0	98.0	989.0	0.0	0.0
D. Init Flow	81.0	94.0	66.0	0.0	0.0
E. Final Flow	81.0	94.0	71.0	0.0	0.0
F. Fl Shut-in	1377.0	1379.0	1361.0	0.0	0.0
G. Final Hydro	1876.0	1824.0	1804.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1257 hr
T ON BOTM 1442 hr
T OPEN 1445 hr
T PULLED 2115 hr
T OUT 2215 hr

RECOVERY
Tot Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP
30.00 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
SALINITY 0.00 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	85000.00 lbs
Initial Str Wt	71000.00 lbs
Unseated Str Wt	71000.00 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	336.00 ft
D.P. Length	3399.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak surface blow died in 15 mins.
Initial Shut-in:
No blow back
Final Flow:
Dead blow
Final Shut-in:
No blow back

MUD DATA----------

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	46.00 S/L
W.L.	9.00 in3
F.C.	0.32 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 n
Cushion Type	none
Reversed Out	N
Tool Chased	N
Tester	Darren Amerine
Co. Rep.	Wes Hansen
Contr.	Abecrombie
Rig #	5
Unit #	no
Pump T.	none

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Spriggs #D-2

LOCATION : Sec.33 Twp.33s Rge.13w

TICKET No. 11844 D.S.T. No. 2 DATE 08/24/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 47

TOTAL TOOL 75

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 106

D.C. ABOVE TOOLS.Stands3 Single 2 Total 336

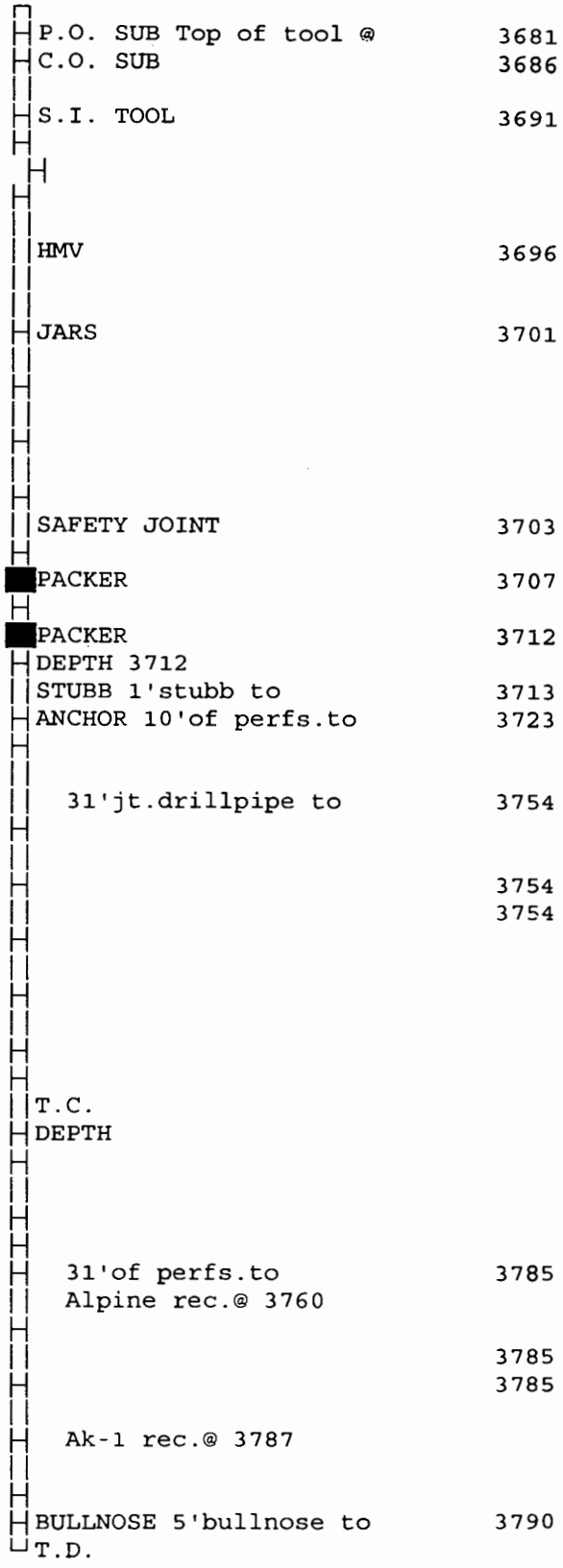
D.P. ABOVE TOOLS.Stands39 Single 2 Total 3368

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3810

TOTAL DEPTH 3790

TOTAL DRILL PIPE ABOVE K.B. 20

REMARKS:



TEST HISTORY

Tk#11844 DST#2 Spriggs #D-2 Woolsey pet ,corp

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1822.58
B:	0.00	59.22
C:	30.50	64.17
D:	58.75	989.09
E:	0.00	66.37
F:	60.50	71.28
G:	240.25	1360.73
Q:	0.00	1803.90

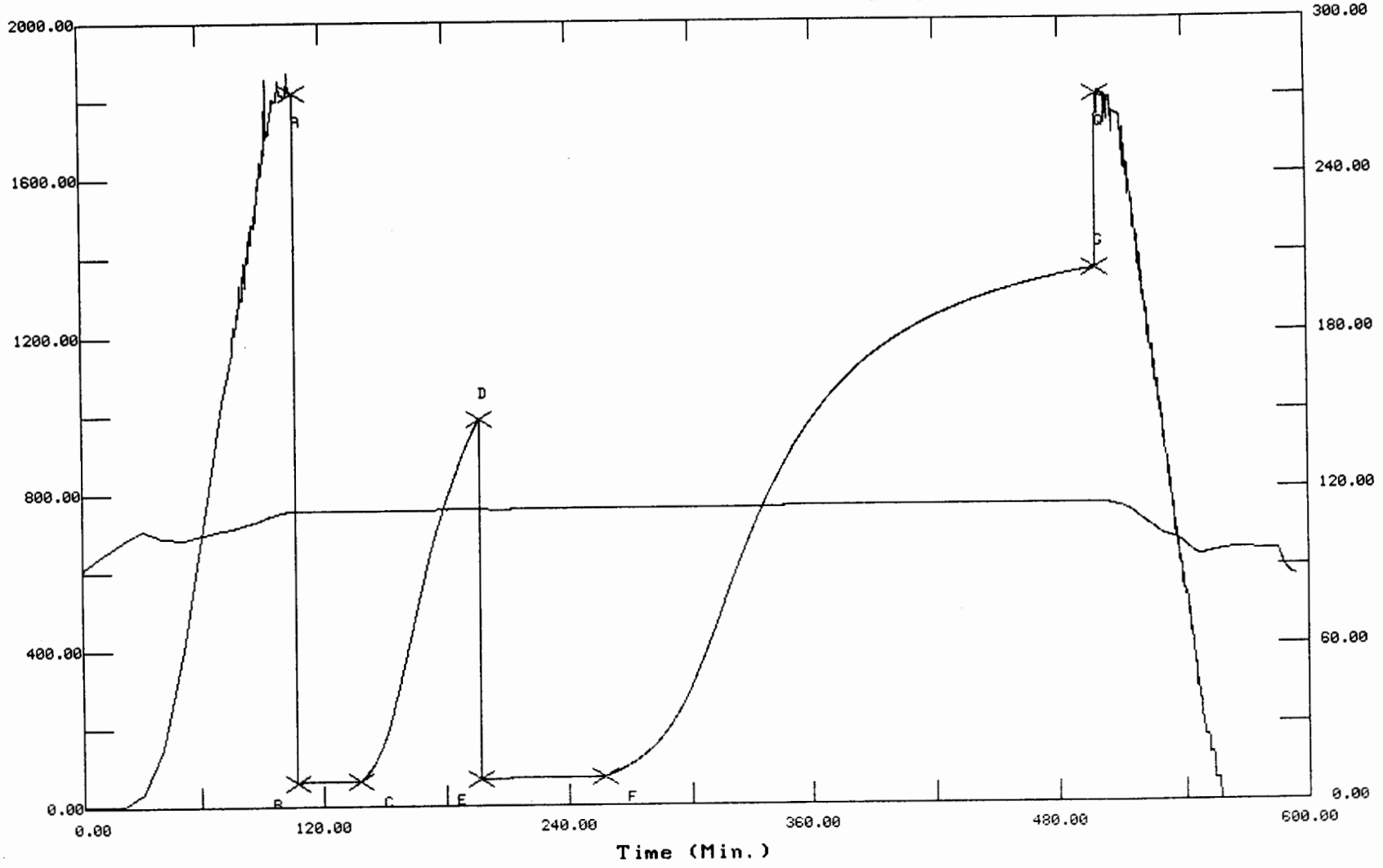
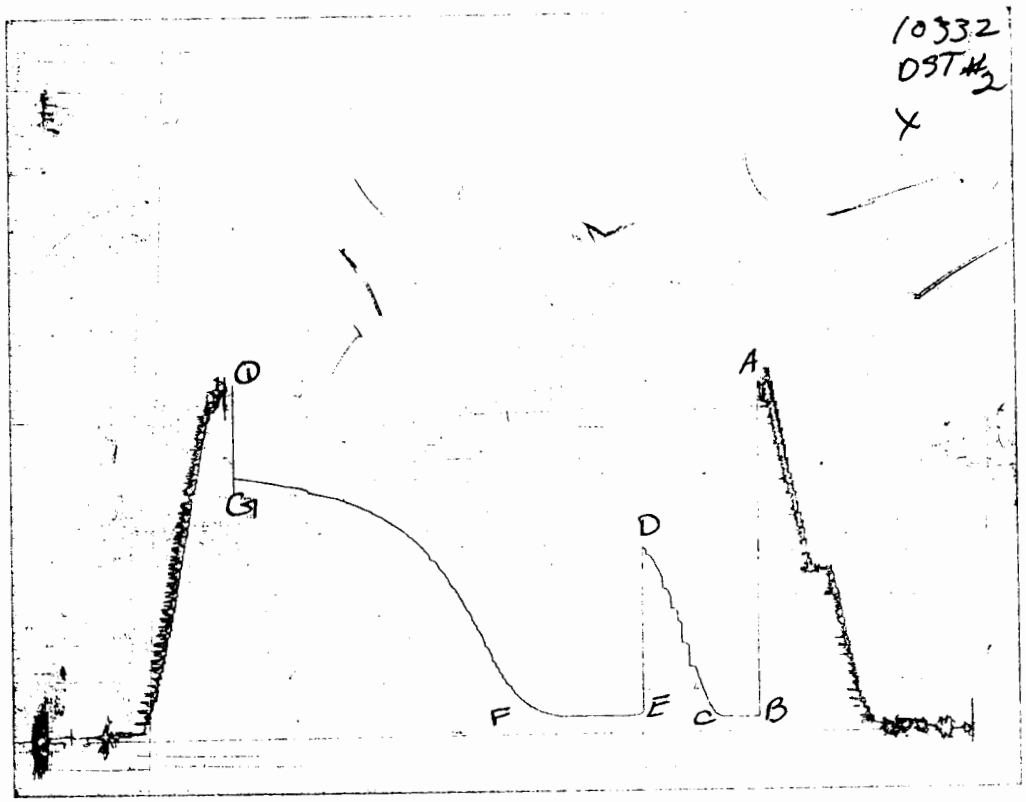


CHART PAGE



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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 11844

Well Name & No. Spriggs #D-2 Test No. #2 Date 08/24/1998

Company Woolsey Pet. Corp 125 N. Market Zone Tested Elgin Sd.

Address Suite 1000 Wichita, Ks 67202-1775 Elevation 1682 KB 1672 GL

Co. Rep / Geo. Wes Hansen Cont. Abercrombie #5 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 33 Twp. 33S Rge. 13W Co. Barber State Ks

No. of Copies ___ Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested 3712' - 3790' Initial Str Wt./Lbs. 71,000 Unseated Str Wt./Lbs. 71000

Anchor Length 78' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs 85000

Top Packer Depth 3707' Tool Weight 2100

Bottom Packer Depth 3712' Hole Size — 7 7/8" — Rubber Size — 6 3/4" —

Total Depth 3790' Wt. Pipe Run N/A Drill Collar Run 336

Mud Wt. 9.3 LCM 0 Vis. 46 WL 9.0 Drill Pipe Size 4½ XH Ft. Run 3399'

Blow Description IF: Weak surface blow died in 15 mins.
ISI: No bb.
FF: Dead blow.
FSI: No bb.

Recovery — Total Feet 30' GIP N/A Ft. in DC 30' Ft. in DP N/A

Rec. 30'	Feet Of Drilling Mud	%gas	%oil	0	%water 100	%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 115° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 43000 ppm System

	AK-1	Alpine				
(A) Initital Hydrostatic Mud	1855	1823	PSI	Recorder No.	2357	T-On Location 12:30:00
(B) First Initial Flow Pressure	81	59	PSI	(depth)	3760'	T-Started 12:57:00
(C) First Final Flow Pressure	81	64	PSI	Recorder No.	10332	T-Open 14:45:00
(D) Initial Shut-In Pressure	994	989	PSI	(depth)	3787'	T-Pulled 21:15:00
(E) Second Initial Flow Pressure	81	66	PSI	Recorder No.		T-Out 22:15:00
(F) Second Final Flow Pressure	81	71	PSI	(depth)		T-Off Location 00:00:00
(G) Final Shut-in Pressure	1377	1361	PSI	Initial Opening	30	Test ✓
(Q) Final Hydrostatic Mud	1876	1804	PSI	Initial Shut-in	60	Jars ✓
				Final Flow	60	Safety Joint ✓
				Final Shut-in	240	Straddle ___
						Circ. Sub ___
						Sampler ___
						Extra Packer ___
						Elec. Rec. ✓
						Mileage ___
						Other ___

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Approved By ___

Our Representative ___

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey pet,corp. DATE 08/25/199
WELL NAME: Sriggs #D-2 KB 1682.00 ft TICKET NO: 11845 DST #3
LOCATION : 33-33s-13w Barber co. KS GR 1672.00 ft FORMATION: Snyderville sd.
INTERVAL : 3916.00 To 3952.00 ft TD 3952.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10332	10332	2357		
SI 60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF 120	Clock(hrs)	12hr.	12hr.	elec.		
FS 420	Depth(ft)	3949.0	3949.0	3922.0	0.0	0.0

TIME DATA----------
PF Fr. 1252 to 1322 hr
IS Fr. 1322 to 1422 hr
SF Fr. 1422 to 1622 hr
FS Fr. 1622 to 2322 hr

	Field	1	2	3	4
A. Init Hydro	1896.0	1895.0	1896.0	0.0	0.0
B. First Flow	51.0	50.0	29.0	0.0	0.0
B1. Final Flow	51.0	50.0	36.0	0.0	0.0
C. In Shut-in	1357.0	1346.0	1347.0	0.0	0.0
D. Init Flow	51.0	52.0	31.0	0.0	0.0
E. Final Flow	61.0	52.0	51.0	0.0	0.0
F. Fl Shut-in	1387.0	1363.0	1355.0	0.0	0.0
G. Final Hydro	1998.0	1861.0	1860.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1102 hr
T ON BOTM 1249 hr
T OPEN 1252 hr
T PULLED 2322 hr
T OUT 0115 hr

RECOVERY
Tot Fluid 90.00 ft of 90.00 ft in DC and 0.00 ft in DP
90.00 ft of Very slight gas cut mud 6%gas 94%mud
3829.00 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

TOOL DATA----------

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	80000.00 lbs
Initial Str Wt	71000.00 lbs
Unseated Str Wt	71000.00 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	336.00 ft
D.P. Length	3583.00 ft

BLOW DESCRIPTION
Initial Flow:
Fair blow bottom of bucket in
6 1/2 mins.
Initial Shut-in:
Bled down for 5 mins. no blow back
Final Flow:
Strong blow bottom of bucket in
30 secs. gas to surface
gauge gas
Final Shut-in:
Bled down for 20 mins. No blow back

MUD DATA----------

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	45.00 S/L
W.L.	8.60 in3
F.C.	0.32 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	117.00 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.	Abercrombie
Rig #	5
Unit #	no
Pump T.	none

SAMPLES: Caraway analytical 1028 N.Roosevelt
SENT TO:Liberal,Ks

Test Successful: Y

GAS RECOVERY

COMPANY: Woolsey pet,corp. DATE: 08/25/199
WELL NAME: Sriggs #D-2 KB Elev: 1682.00 ft TICKET #11845 DST #3
WELL LOCATION: Sec.33 Twp.33s GR Elev: 1672.00 ft FORMATION: Snyderville sd.
INTERVAL Fr.: 3916.00 To 3952.00 T.D.: 3952.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adj.choke

***** GAS RATES FOR FLOW #2

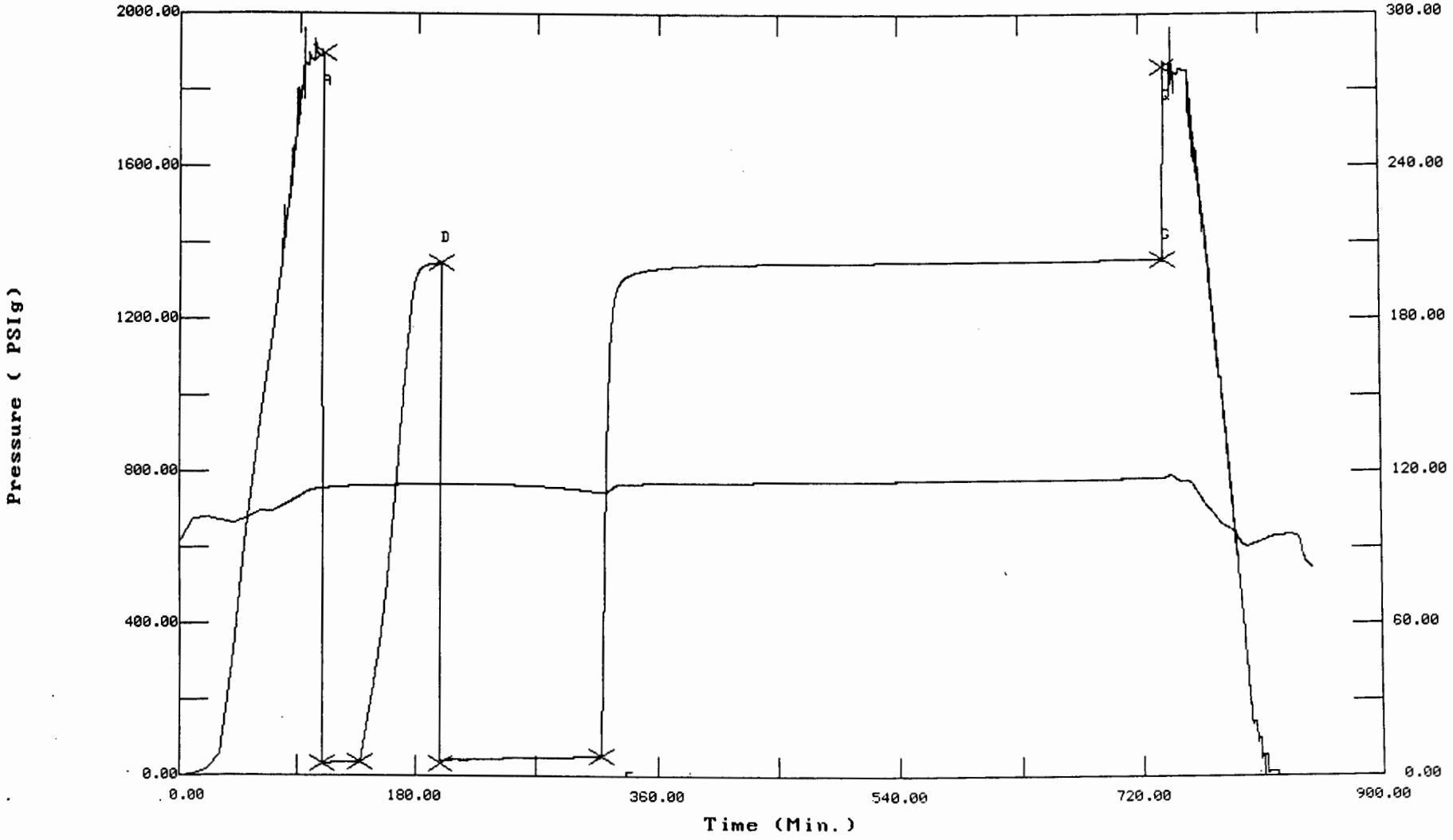
Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
20	0.25	0	8	4760.0
25	0.25	0	10	5320.0
30	0.25	0	11	5450.0
35	0.25	0	14	6330.0
40	0.25	0	16	6720.0
45	0.25	0	18	7120.0
50	0.25	0	20	7510.0
55	0.25	0	24	8220.0
60	0.25	0	26	8560.0
65	0.25	0	32	9500.0
70	0.25	0	36	10100.0
75	0.25	0	40	10600.0
80	0.25	0	46	11400.0
85	0.25	0	52	12100.0
90	0.25	0	66	13600.0
95	0.25	0	80	15000.0
100	0.25	0	84	15400.0
105	0.25	0	88	15700.0
110	0.25	0	89	15850.0
115	0.25	0	94	16300.0
120	0.25	0	98	16600.0

TEST HISTORY

Tk#11845 DST#3 Spriggs #D-2 Woolsey pet,corp.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1895.92
B:	0.00	28.74
C:	28.25	36.37
D:	60.25	1347.04
E:	0.00	31.27
F:	119.25	51.40
G:	419.50	1354.99
Q:	0.00	1859.81



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Sriggs #D-2

LOCATION : Sec.33 Twp.33s

TICKET No. 11845 D.S.T. No. 3 DATE 08/25/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 36

TOTAL TOOL 64

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 64

D.C. ABOVE TOOLS.Stands3 Single 2 Total 336

D.P. ABOVE TOOLS.Stands43 Single Total 3583

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3983

TOTAL DEPTH 3952

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:

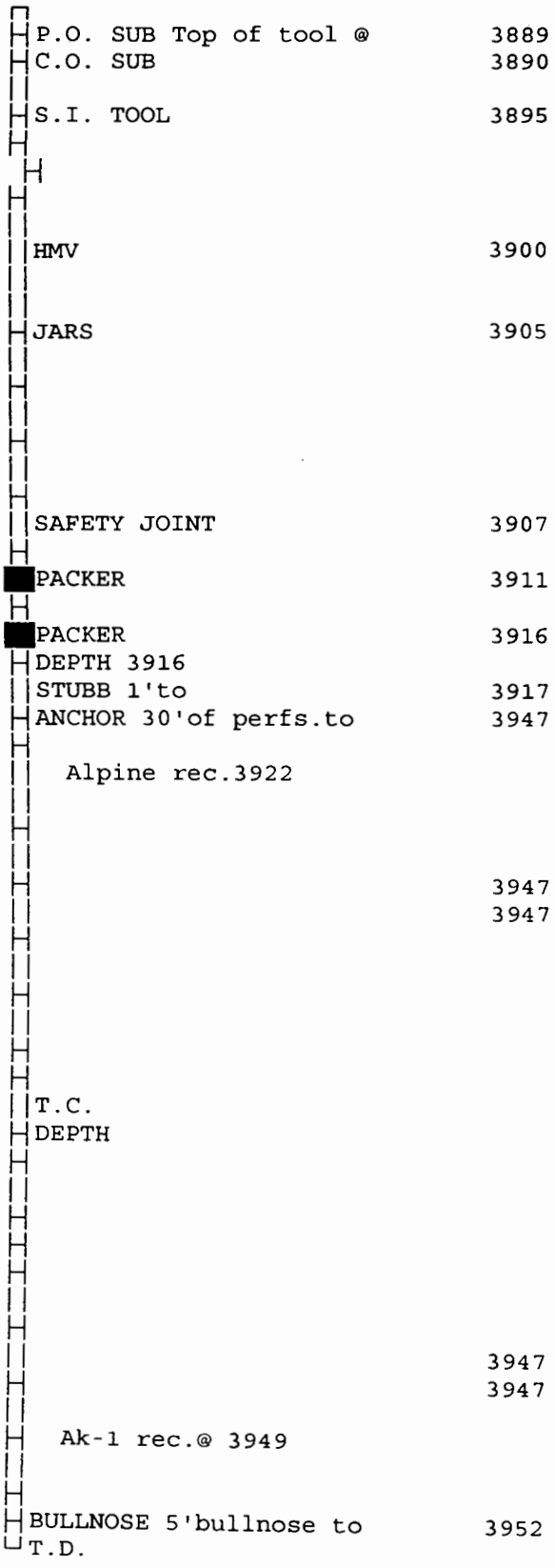
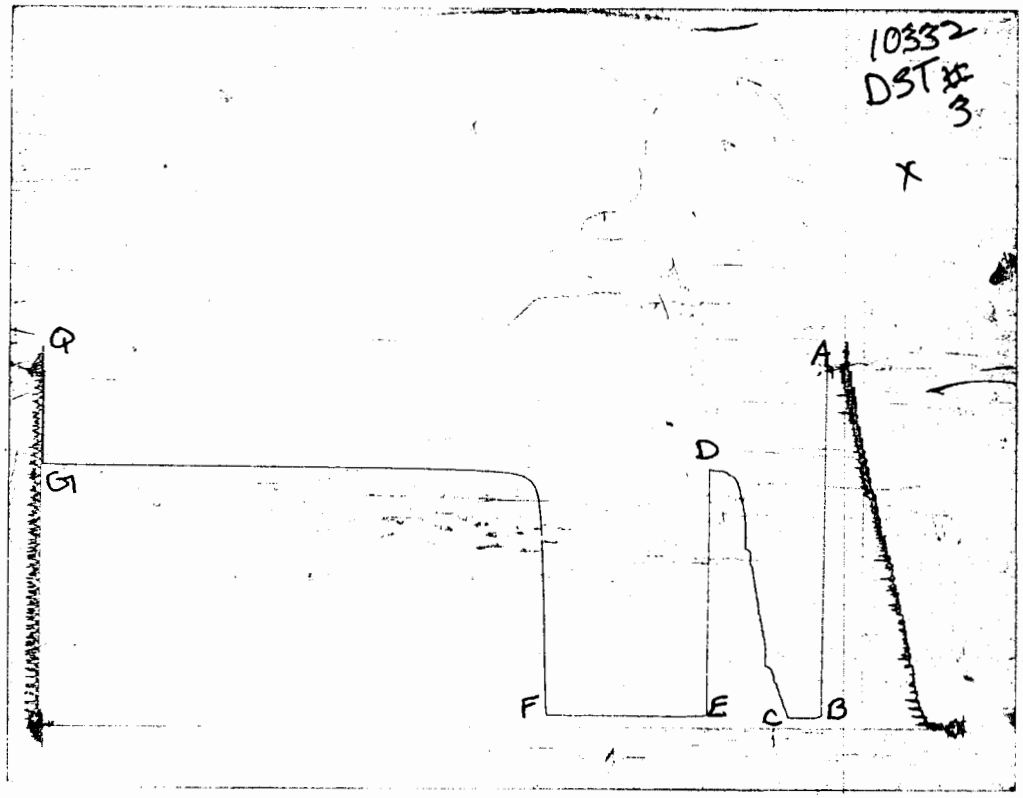
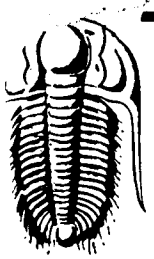


CHART PAGE



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



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Woolsey Pet. Corp. (OPERATOR) | Spriggs #D-2 (WELL NAME AND NO.) | 3 (DST NO.)

Snyderville Sd.

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	CF/D
0	8"	.250	4760				
5	10"	.250	5320				
0	10.5"	.250	5,450				
5	14"	.250	6,330				
0	16"	.250	6,720				
5	18"	.250	7,120				
0	20"	.250	7,510				
5	24"	.250	8,220				
0	26"	.250	8,560				
5	32"	.250	9,500				
0	36"	.250	10,100				
5	40"	.250	10,600				
0	46"	.250	11,400				
5	52"	.250	12,100				
0	66"	.250	13,600				
5	80"	.250	15,000				
0	84"	.250	15,400				
5	88"	250	15,700				
10	89"	.250	15,850				
15	94"	.250	16,300				
20	98"	.250	16,600				

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 11845

Well Name & No. Spriggs #D-2 Test No. #3 Date 08/25/1998

Company Woolsey Pet. Corp. 125 N. Market Zone Tested Snyderville sd.

Address Suite 1000 Wichita, Ks 67202-1775 Elevation 1682 KB 1672 GL

Co. Rep / Geo. Wes Hansen Cont. Abercrombie #5 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 33 Twp. 33S Rge. 13W Co. Barber State Ks

No. of Copies 5 Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 3916' - 3952' Initial Str Wt./Lbs. 71,000 Unseated Str Wt./Lbs. 76,000

Anchor Length 36' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 80,000

Top Packer Depth 3911' Tool Weight 2100

Bottom Packer Depth 3916' Hole Size — 7 7/8" — Rubber Size — 6 3/4" —

Total Depth 3952' Wt. Pipe Run N/A Drill Collar Run 336

Mud Wt. 9.2 LCM 0 Vis. 45 WL 8.6 Drill Pipe Size 4½ XH Ft. Run 3583'

Blow Description IF: Fair blow b.o.b in 6½ mins.
ISI: Bled down 5 mins
FF: Strong blow b.o.b in 30 sec. GTS in 17 mins, Gauge Gas.
FSI: Bled down for 20 mins. NO bb.

Recovery — Total Feet 90 GIP 3829' Ft. in DC 90' Ft. in DP ___

Rec. 90	Feet Of SOCM	6 %gas	%oil	%water 94	%mud
Rec. 3829'	Feet Of GIP	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud

BHT 117° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 3500 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	1896	1896	PSI	Recorder No. 2357	T-On Location ___
(B) First Initial Flow Pressure	51	29	PSI	(depth) 3922'	T-Started 11:02:00
(C) First Final Flow Pressure	51	36	PSI	Recorder No. 10332	T-Open 12:52:30
(D) Initial Shut-In Pressure	1357	1347	PSI	(depth) 3949'	T-Pulled 23:22:30
(E) Second Initial Flow Pressure	51	31	PSI	Recorder No. ___	T-Out 01:15:30
(F) Second Final Flow Pressure	61	51	PSI	(depth) ___	T-Off Location 02:00:00
(G) Final Shut-in Pressure	1387	1355	PSI	Initial Opening 30	Test ✓
(Q) Final Hydrostatic Mud	1998	1860	PSI	Initial Shut-in 60	Jars ✓
				Final Flow ~~120~~ 120	Safety Joint ✓
				Final Shut-in 420	Straddle ___
				___	Circ. Sub ___
				___	Sampler ___
					Extra Packer ___
					Elec. Rec. ✓
					Mileage ___
					Other ___

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 Wesley Hansen

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey pet,Corp. DATE 08/26/199
WELL NAME: Spriggs #D-2 KB 1682.00 ft TICKET NO: 11846 DST #4
LOCATION : 33-33s-13w Barber co. KS GR 1672.00 ft FORMATION: Douglas
INTERVAL : 3968.00 To 4034.00 ft TD 4034.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10332	10332	2357		
SI 60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	12hr.	12hr.	elec.		
FS 240	Depth(ft)	4031.0	4031.0	4006.0	0.0	0.0

TIME DATA----------
PF Fr. 1339 to 1409 hr
IS Fr. 1409 to 1509 hr
SF Fr. 1509 to 1609 hr
FS Fr. 1609 to 2009 hr

	Field	1	2	3	4
A. Init Hydro	2078.0	1997.0	1970.0	0.0	0.0
B. First Flow	101.0	101.0	75.0	0.0	0.0
B1. Final Flow	111.0	101.0	94.0	0.0	0.0
C. In Shut-in	213.0	206.0	199.0	0.0	0.0
D. Init Flow	142.0	145.0	109.0	0.0	0.0
E. Final Flow	152.0	145.0	118.0	0.0	0.0
F. Fl Shut-in	283.0	281.0	274.0	0.0	0.0
G. Final Hydro	2068.0	1949.0	1979.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1115 hr
T ON BOTM 1337 hr
T OPEN 1339 hr
T PULLED 2009 hr
T OUT 2115 hr

RECOVERY
Tot Fluid 180.00 ft of 180.00 ft in DC and 0.00 ft in DP
180.00 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

TOOL DATA----------

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	80000.00 lbs
Initial Str Wt	71000.00 lbs
Unseated Str Wt	71000.00 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	336.00 ft
D.P. Length	3614.00 ft

MUD DATA----------

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	44.00 S/L
W.L.	8.80 in3
F.C.	0.32 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 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.	Abercrombie
Rig #	5
Unit #	no
Pump T.	none

BLOW DESCRIPTION
Initial Flow:
Weak blow built to 1" in H20 bucket

Initial Shutin:
No blow back

Final Flow:
Weak blow built to 1/2"in bucket

Final Shutin:
No blow back

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Spriggs #D-2

LOCATION : Sec.33 Twp.33s

TICKET No. 11846 D.S.T. No. 4 DATE 08/26/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 35

TOTAL TOOL 63

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands3 Single 2 Total 336

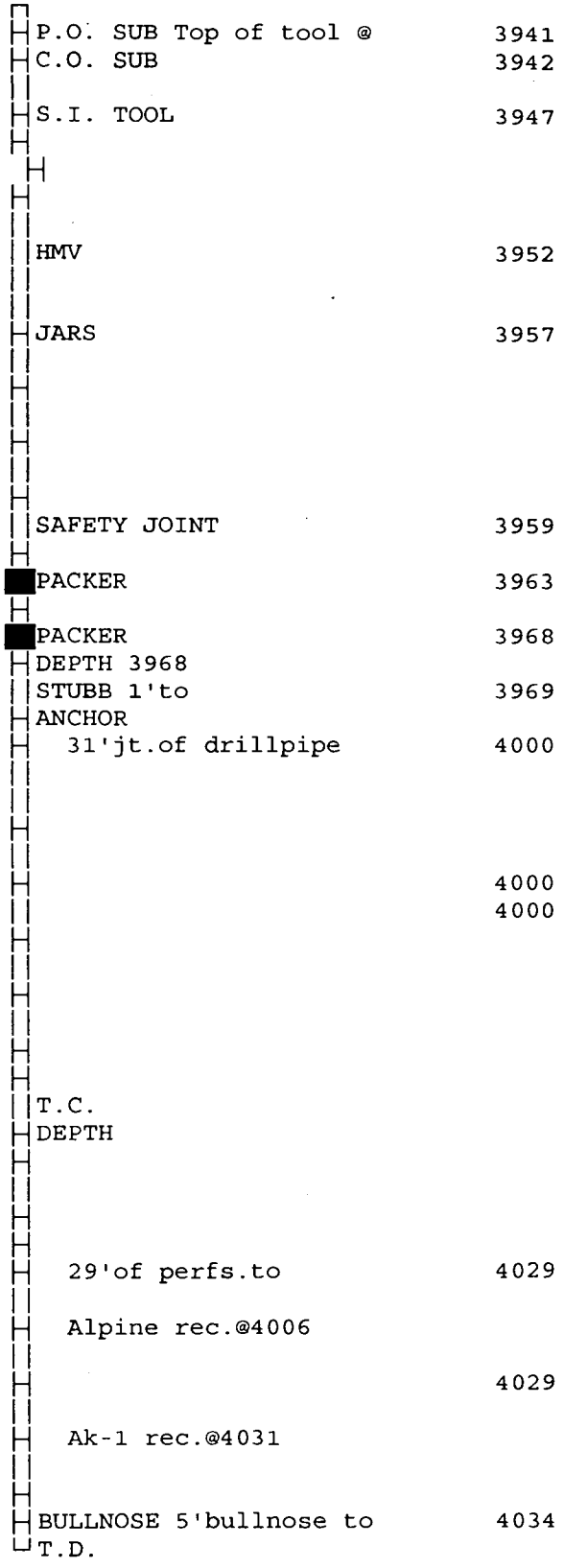
D.P. ABOVE TOOLS.Stands39 Single 2 Total 3614

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4044

TOTAL DEPTH 4034

TOTAL DRILL PIPE ABOVE K.B. 10

REMARKS:



TEST HISTORY

Tk#11846 DST#4 Spriggs #D-2 Woolsey pet,corp.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1970.36
B:	0.00	74.79
C:	29.75	93.63
D:	59.75	199.01
E:	0.00	109.15
F:	59.25	117.64
G:	240.00	273.94
Q:	0.00	1979.28

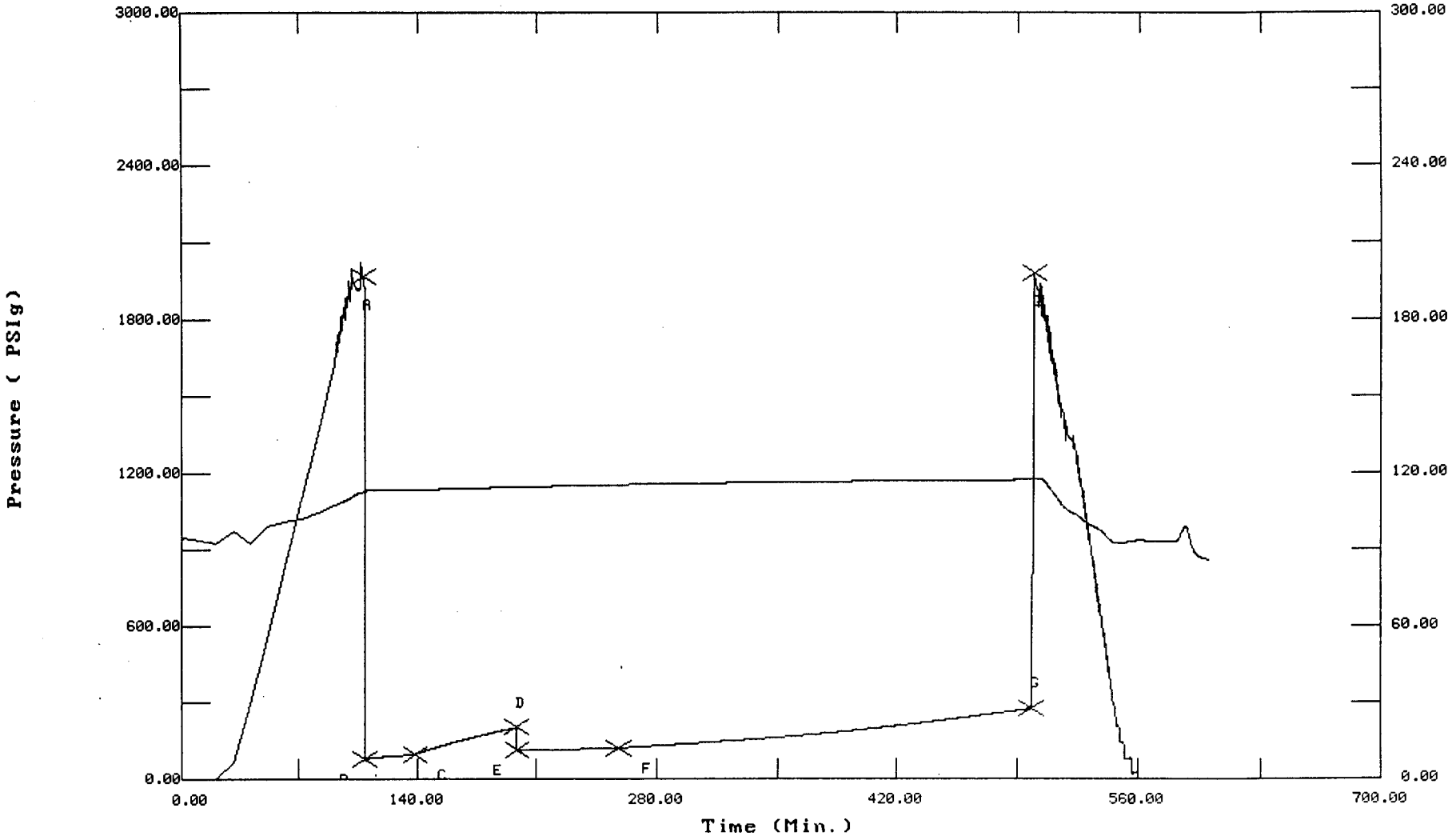
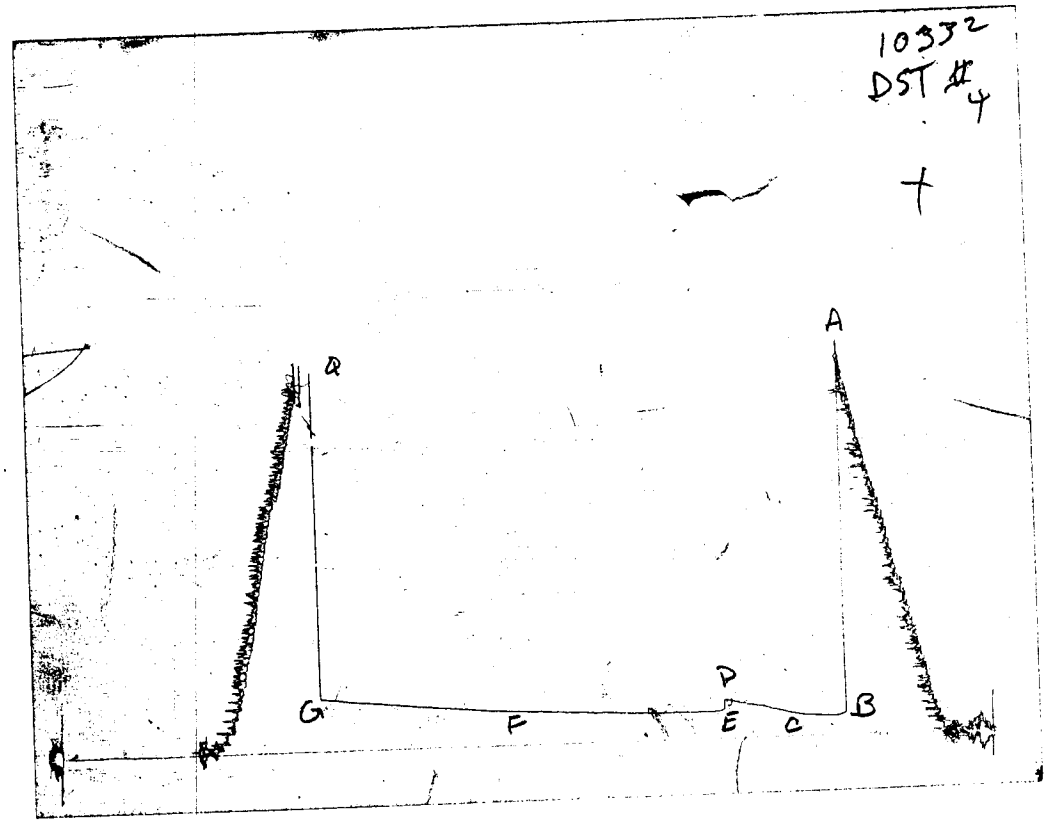


CHART PAGE



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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 11846

Well Name & No. Spriggs #D-2 Test No. #4 Date 08/26/1998

Company Woolsey Pet. Corp. 125 N. Market Zone Tested Douglas

Address Suite 1000, Wichita, Ks 67202-1775 Elevation 1682 KB 1672 GL

Co. Rep / Geo. Wes Hansen Cont. Abercrombie #5 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 33 Twp. 33S Rge. 13W Co. Barber State Ks

No. of Copies 5 Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 3968' - 4034' Initial Str Wt./Lbs. 71,000 Unseated Str Wt./Lbs. 71,000

Anchor Length 66' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 71,000

Top Packer Depth 3968' Tool Weight 2100

Bottom Packer Depth 3968' Hole Size — 7 7/8" — Rubber Size — 6 3/4" —

Total Depth 4034' Wt. Pipe Run N/A Drill Collar Run 536'

Mud Wt. 9.2 LCM 0 Vis. 44 WL 8.8 Drill Pipe Size 4½ XH Ft. Run 3614'

Blow Description IF: Weak blow built to 1" in H20 bucket.
ISI: No bb.
FF: Weak blow built to ½" in H20 bucket.
FSI: No bb.

Recovery — Total Feet 180' GIP ___ Ft. in DC 180' Ft. in DP ___

Rec. 180'	Feet Of Drilling Mud	%gas	%oil	%water 100	%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 118° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 3800 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	2078	1970	PSI	Recorder No.	2357	T-On Location 11:15:00
(B) First Initial Flow Pressure	101	75	PSI	(depth)	4006'	T-Started 11:48:00
(C) First Final Flow Pressure	111	94	PSI	Recorder No.	10332	T-Open 12:39:00
(D) Initial Shut-In Pressure	213	199	PSI	(depth)	4031	T-Pulled 20:09:00
(E) Second Initial Flow Pressure	142	109	PSI	Recorder No.		T-Out 21:15:00
(F) Second Final Flow Pressure	152	118	PSI	(depth)		T-Off Location 22:30:00
(G) Final Shut-in Pressure	283	274	PSI	Initial Opening	30	Test ✓
(Q) Final Hydrostatic Mud	2068	1979	PSI	Initial Shut-in	60	Jars ✓
				Final Flow	60	Safety Joint ✓
				Final Shut-in	240	Straddle ___
						Circ. Sub ___
						Sampler ___
						Extra Packer ___
						Elec. Rec. ✓
						Mileage ___
						Other ___
						TOTAL PRICE $

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 Wesley Hansen

Our Representative Dallas L. [illegible]

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petroleum Corp. DATE 08/27/199
WELL NAME: Spriggs #D-2 KB 1682.00 ft TICKET NO: 11847 DST #5
LOCATION : 33-33s-13w Barber co. KS GR 1672.00 ft FORMATION: Lansing "A"
INTERVAL : 4094.00 To 4120.00 ft TD 4120.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	10332	10332	2357		
SI	60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF	60	Clock(hrs)	12hr.	12hr.	elec.		
FS	240	Depth(ft)	4117.0	4117.0	4100.0	0.0	0.0

TIME DATA----------
PF Fr. 0933 to 1003 hr
IS Fr. 1003 to 1103 hr
SF Fr. 1103 to 1203 hr
FS Fr. 1203 to 1603 hr

	Field	1	2	3	4
A. Init Hydro	2048.0	2042.0	2054.0	0.0	0.0
B. First Flow	101.0	104.0	77.0	0.0	0.0
B1. Final Flow	152.0	148.0	147.0	0.0	0.0
C. In Shut-in	1458.0	1445.0	1448.0	0.0	0.0
D. Init Flow	182.0	175.0	153.0	0.0	0.0
E. Final Flow	202.0	207.0	204.0	0.0	0.0
F. Fl Shut-in	1458.0	1463.0	1468.0	0.0	0.0
G. Final Hydro	2108.0	2096.0	1988.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0715 hr
T ON BOTM 0930 hr
T OPEN 0933 hr
T PULLED 1603 hr
T OUT 1715 hr

RECOVERY
Tot Fluid 372.00 ft of 336.00 ft in DC and 36.00 ft in DP
186.00 ft of drilling mud
186.00 ft of Water cut mud 70%water 30%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
SALINITY 82000.00 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	85000.00 lbs
Initial Str Wt	73000.00 lbs
Unseated Str Wt	73000.00 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	336.00 ft
D.P. Length	3734.00 ft

BLOW DESCRIPTION
Initial Flow:
Fair blow built to 5" in water
Initial Shut-in:
Bled down
Final Flow:
Weak blow built to 4" in water
Final Shut-in:
Bled down for 5 mins. no blow back

MUD DATA----------

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	45.00 S/L
W.L.	8.60 in3
F.C.	0.32 in
Mud Drop Y	50.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	no
Reversed Out	N
Tool Chased	N
Tester	Darren Amerine
Co. Rep.	Wes Hansen
Contr.	Abercrombie
Rig #	5
Unit #	no
Pump T.	none

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Spriggs #D-2

LOCATION : 33-33s-13w Barber co. KS

TICKET No. 11847 D.S.T. No. 5 DATE 08/27/199

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 Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands3 Single 2 Total 336

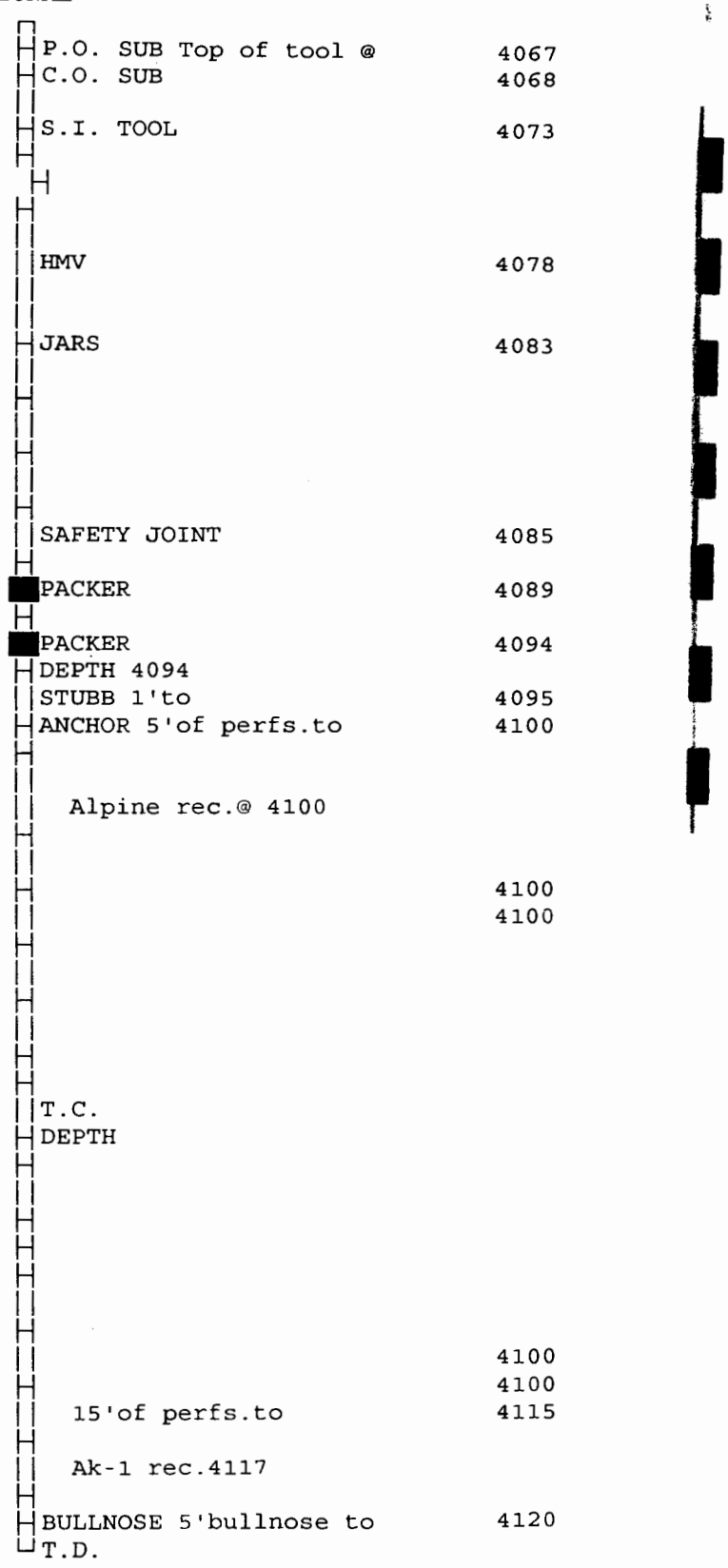
D.P. ABOVE TOOLS.Stands41 Single 1 Total 3734

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4124

TOTAL DEPTH 4120

TOTAL DRILL PIPE ABOVE K.B. 4

REMARKS:



TEST HISTORY

Tk#11847 DST#5 Spriggs #D-2 Woolsey pet,corp.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2054.36
B:	0.00	77.21
C:	29.50	147.28
D:	59.75	1448.29
E:	0.00	152.61
F:	60.25	204.36
G:	240.00	1467.98
Q:	0.00	1988.29

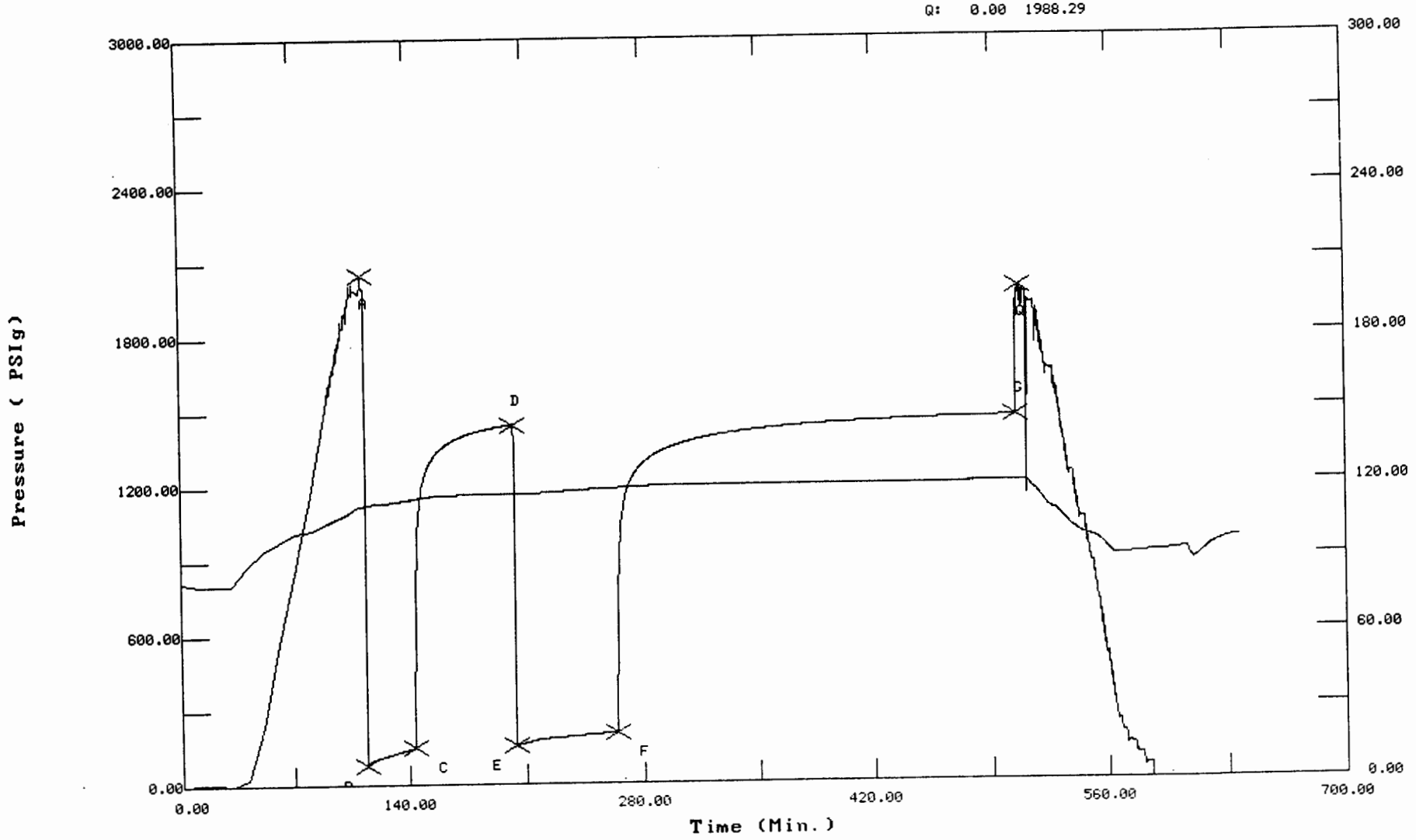
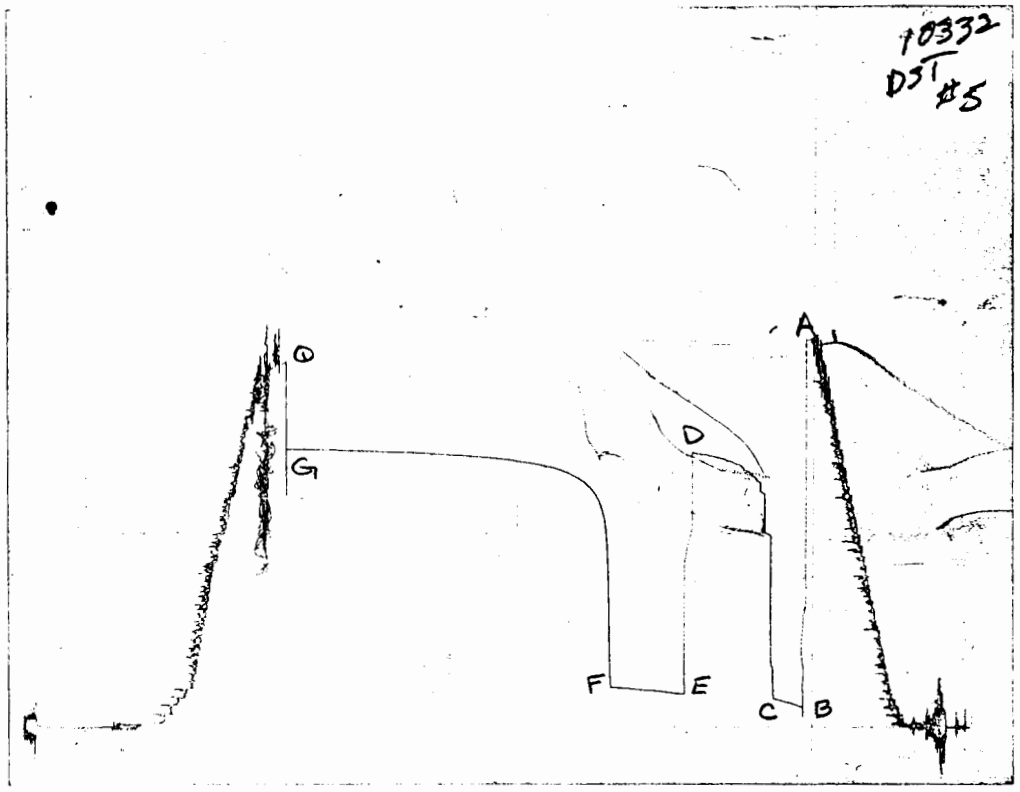


CHART PAGE



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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 11847

Well Name & No. Briggs #D-2 Test No. #5 Date 08/27/1998

Company Woolsey Pet. Corp 125 N Market Zone Tested Lansing "A"

Address Suite 1000 Wichita KS 67202-1775 Elevation 1682 KB 1672 GL

Co. Rep / Geo. Wes Hansen Cont. Abercrombie #5 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 33 Twp. 33S Rge. 13W Co. Barber State KS

No. of Copies 5 Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 4094' - 4120' Initial Str Wt./Lbs. 23,000 Unseated Str Wt./Lbs. 23,000

Anchor Length 26' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 85,000

Top Packer Depth 4089' Tool Weight 2100

Bottom Packer Depth 4094' Hole Size — 7 7/8" L Rubber Size — 6 3/4" L

Total Depth 4120 Wt. Pipe Run N/A Drill Collar Run 336'

Mud Wt. 9.2 LCM 0 Vis. 45 WL 8.6 Drill Pipe Size 4½ XH Ft. Run 3734'

Blow Description IF: Fair blow built to 5" in H20 bucket

ISI: Bled down for 5 mins. No bb.

FF: Weak blow built to 4" in H20 bucket.

FSI: Bled down for 5 mins no bb.

Recovery — Total Feet 372' GIP ___ Ft. in DC 336 Ft. in DP 36'

Rec. 186'	Feet Of Drilling Mud	%gas	%oil	%water	%mud
Rec. 186'	Feet Of WCM	%gas	%oil	70 %water	30 %mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud

BHT 120° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW .07 @ 97° °F Chlorides 82,000 ppm Recovery Chlorides 4400 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud	2048	2054	PSI	Recorder No.	2357	T-On Location	07:15:00
(B) First Initial Flow Pressure	101	77	PSI	(depth)	4100'	T-Started	07:38:00
(C) First Final Flow Pressure	152	147	PSI	Recorder No.	10332	T-Open	09:33:00
(D) Initial Shut-In Pressure	1458	1448	PSI	(depth)	4117'	T-Pulled	16:03:00
(E) Second Initial Flow Pressure	182	153	PSI	Recorder No.	___	T-Out	17:15:00
(F) Second Final Flow Pressure	202	204	PSI	(depth)	___	T-Off Location	19:00:00
(G) Final Shut-in Pressure	1458	1468	PSI	Initial Opening	30	Test	L
(Q) Final Hydrostatic Mud	2108	1988	PSI	Initial Shut-in	60	Jars	L
				Final Flow	60	Safety Joint	L
				Final Shut-in	240	Straddle	___
						Circ. Sub	___
						Sampler	___
						Extra Packer	___
						Elec. Rec.	L
						Mileage	___
						Other	___
						TOTAL PRICE $	

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 Wesley Hansen

Our Representative Darren L Amrine