WELL NAME:	Cooper #1-29
COMPANY:	White & Ellis Drilling Inc.
LOCATION:	29-10S-33W
	Thomas County Kansas
DATE:	08/19/97

TRILOBITE TESTING L.L.C.

OPERATOR : White & Ellis Drlg. Inc. DATE 8-13-97
WELL NAME: Cooper #1-29 KB 3129.00 ft TICKET NO: 10318 DST #1
LOCATION : 29-10S-33W Thomas KS. GR 3119.00 ft FORMATION: Lans/KC "J"
INTERVAL : 4260.00 To 4280.00 ft TD 4280.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13309	13309	2341		
SI 45	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0
SF 30	Clock(hrs)	12 HR	12 HR	Elec		
FS 45	Depth(ft)	4275.0	4275.0	4262.0	0.0	0.0

TIME DATA----------
PF Fr. 0033 to 0103 hr
IS Fr. 0103 to 0148 hr
SF Fr. 0148 to 0218 hr
FS Fr. 0218 to 0305 hr

	Field	1	2	3	4
A. Init Hydro	0.0	0.0	2064.0	0.0	0.0
B. First Flow	0.0	0.0	35.0	0.0	0.0
B1. Final Flow	0.0	0.0	177.0	0.0	0.0
C. In Shut-in	0.0	0.0	922.0	0.0	0.0
D. Init Flow	0.0	0.0	193.0	0.0	0.0
E. Final Flow	0.0	0.0	279.0	0.0	0.0
F. Fl Shut-in	0.0	0.0	852.0	0.0	0.0
G. Final Hydro	0.0	0.0	2013.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 2246 hr
T ON BOTM 0030 hr
T OPEN 0033 hr
T PULLED 0305 hr
T OUT 0500 hr

RECOVERY
Tot Fluid 620.00 ft of 0.00 ft in DC and 620.00 ft in DP
620.00 ft of Salt Water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of RW .15 @ 70 deg. =
SALINITY 50000.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	1800.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	100000.00 lbs
Initial Str Wt	58000.00 lbs
Unseated Str Wt	64000.00 lbs
Bot Choke	0.75 in
Hole Size	8.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	4261.00 ft

BLOW DESCRIPTION
Initial Flow:
Fair to strong blow off bottom in 5 mins.

Initial Shut In:
Bled off blow - no return

Final Flow:
Weak to fair blow off bottom in 13 min

Final Shut In:
Bled off blow - no return

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

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	45.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	130.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Rod Steinbrink
Co. Rep.	Tom Funk
Contr.	White & Ellis
Rig #	9
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

ELL NAME: Cooper #1-29

OCATION : 29-10S-33W Thomas KS.

ICKET No. 10318 D.S.T. No. 1 DATE 8-13-97

OTAL TOOL TO BOTTOM OF TOP PACKERS 20

NTERVAL TOOL 20

OTTOM PACKERS AND ANCHOR .....

OTAL TOOL 40

RILL COLLAR ANCHOR IN INTERVAL .....

.C. ANCHOR STND.Stands Single Total

.P. ANCHOR STND.Stands Single Total

OTAL ASSEMBLY 40

.C. ABOVE TOOLS.Stands Single Total

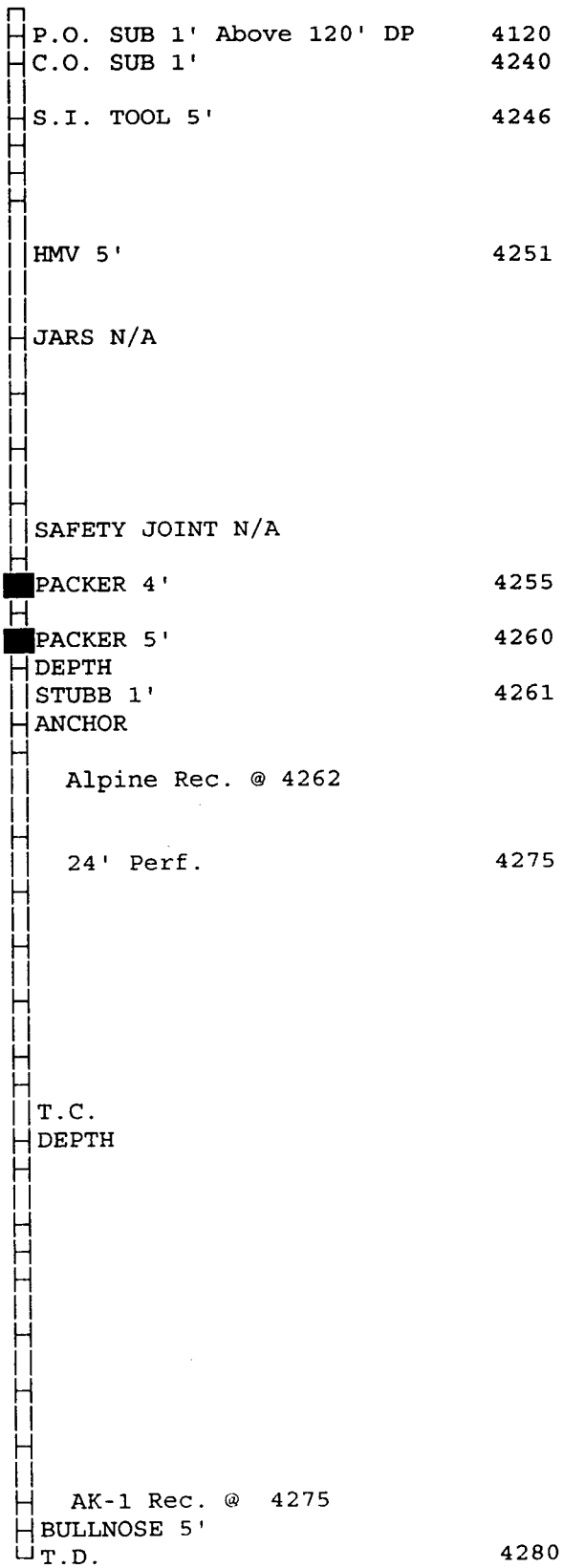
.P. ABOVE TOOLS.Stands67 Single 1 Total 4261

OTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4301

OTAL DEPTH 4280

OTAL DRILL PIPE ABOVE K.B. 21

EMARKS:



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10318 DST #1 Cooper #1-29 White & Ellis Drlg.

DATE: 08/12/97 TIME: 22:47:11

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	107.00	2064.5	0.0	116.16		
****** Start Flow 1	0.00	35.2	0.0	116.21		
	1.00	41.3	6.1	117.15		
	2.00	48.9	13.7	118.61		
	3.00	57.4	22.2	120.21		
	4.00	65.6	30.4	121.63		
	5.00	73.0	37.8	122.76		
	6.00	79.1	43.9	123.63		
	7.00	85.1	49.9	124.42		
	8.00	90.7	55.5	125.17		
	9.00	96.1	60.9	125.87		
	10.00	100.9	65.8	126.49		
	11.00	105.6	70.4	127.02		
	12.00	110.4	75.3	127.47		
	13.00	114.8	79.6	127.86		
	14.00	119.0	83.8	128.19		
	15.00	123.4	88.2	128.48		
	16.00	127.3	92.1	128.72		
	17.00	131.1	95.9	128.90		
	18.00	134.7	99.5	129.04		
	19.00	138.5	103.3	129.13		
	20.00	141.8	106.6	129.26		
	21.00	144.9	109.8	129.34		
	22.00	148.1	113.0	129.42		
	23.00	151.6	116.4	129.49		
	24.00	154.5	119.3	129.53		
	25.00	157.5	122.3	129.57		
	26.00	160.2	125.0	129.61		
	27.00	163.0	127.9	129.63		
	28.00	166.2	131.0	129.67		
	29.00	169.0	133.8	129.69		
	30.00	171.6	136.5	129.72		
	31.00	174.4	139.2	129.74		
****** End Flow 1	32.00	177.0	141.9	129.76		
****** Start Shutin 1	0.00	177.0	0.0	129.76	0.0000	0.031
	1.00	309.4	132.3	129.77	33.0000	0.096
	2.00	396.9	219.9	129.84	17.0000	0.158
	3.00	446.5	269.4	129.84	11.6667	0.199
	4.00	483.6	306.5	129.83	9.0000	0.234
	5.00	513.7	336.6	129.83	7.4000	0.264
	6.00	539.4	362.4	129.81	6.3333	0.291
	7.00	562.2	385.1	129.77	5.5714	0.316
	8.00	582.5	405.5	129.74	5.0000	0.339
	9.00	601.2	424.2	129.70	4.5556	0.361
	10.00	618.5	441.4	129.66	4.2000	0.383
	11.00	634.7	457.7	129.60	3.9091	0.403
	12.00	649.8	472.7	129.55	3.6667	0.422
	13.00	664.0	487.0	129.51	3.4615	0.441
	14.00	677.6	500.5	129.43	3.2857	0.459
	15.00	690.3	513.3	129.40	3.1333	0.477
	16.00	702.5	525.5	129.36	3.0000	0.494

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10318 DST #1 Cooper #1-29 White & Ellis Drlg.

DATE: 08/12/97 TIME: 22:47:11

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	17.00	714.1	537.1	129.35	2.8824	0.510
	18.00	725.3	548.3	129.30	2.7778	0.526
	19.00	735.9	558.9	129.25	2.6842	0.542
	20.00	746.2	569.1	129.22	2.6000	0.557
	21.00	756.0	579.0	129.19	2.5238	0.572
	22.00	765.5	588.5	129.15	2.4545	0.586
	23.00	774.6	597.6	129.14	2.3913	0.600
	24.00	783.4	606.3	129.11	2.3333	0.614
	25.00	791.9	614.9	129.07	2.2800	0.627
	26.00	800.1	623.0	129.02	2.2308	0.640
	27.00	808.0	631.0	128.96	2.1852	0.653
	28.00	815.6	638.6	128.91	2.1429	0.665
	29.00	823.1	646.1	128.86	2.1034	0.678
	30.00	830.3	653.3	128.80	2.0667	0.689
	31.00	837.3	660.3	128.75	2.0323	0.701
	32.00	844.0	667.0	128.70	2.0000	0.712
	33.00	850.6	673.6	128.65	1.9697	0.724
	34.00	857.1	680.0	128.61	1.9412	0.735
	35.00	863.2	686.2	128.57	1.9143	0.745
	36.00	869.3	692.3	128.53	1.8889	0.756
	37.00	875.2	698.2	128.50	1.8649	0.766
	38.00	881.0	704.0	128.48	1.8421	0.776
	39.00	886.6	709.6	128.45	1.8205	0.786
	40.00	892.0	715.0	128.42	1.8000	0.796
	41.00	897.3	720.3	128.40	1.7805	0.805
	42.00	902.4	725.4	128.35	1.7619	0.814
	43.00	907.5	730.4	128.31	1.7442	0.823
	44.00	912.4	735.4	128.27	1.7273	0.833
	45.00	917.3	740.2	128.24	1.7111	0.841
***** End Shut-in 1	46.00	921.9	744.9	128.21	1.6957	0.850
***** Start Flow 2	0.00	192.8	0.0	128.14		
	1.00	198.0	5.2	128.32		
	2.00	202.8	10	128.54		
	3.00	207.6	14.8	128.82		
	4.00	211.8	19.0	129.05		
	5.00	215.8	23.0	129.28		
	6.00	219.8	26.9	129.45		
	7.00	223.3	30.5	129.59		
	8.00	226.6	33.8	129.72		
	9.00	229.8	36.9	129.82		
	10.00	232.9	40.0	129.90		
	11.00	236.0	43.2	129.95		
	12.00	238.8	46.0	130.00		
	13.00	241.5	48.7	130.03		
	14.00	244.1	51.3	130.13		
	15.00	246.6	53.8	130.16		
	16.00	249.3	56.5	130.17		
	17.00	251.6	58.8	130.18		
	18.00	253.8	61.0	130.21		
	19.00	256.0	63.2	130.21		
	20.00	258.2	65.4	130.21		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10318 DST #1 Cooper #1-29 White & Ellis Drlg.

DATE: 08/12/97 TIME: 22:47:11

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	21.00	260.4	67.6	130.23		
	22.00	262.8	69.9	130.23		
	23.00	264.9	72.0	130.24		
	24.00	266.9	74.1	130.25		
	25.00	269.0	76.2	130.24		
	26.00	271.0	78.1	130.25		
	27.00	272.9	80.1	130.25		
	28.00	275.0	82.2	130.26		
	29.00	277.1	84.3	130.26		
****** End Flow 2	30.00	278.9	86.1	130.26		
****** Start Shutin 2	0.00	278.9	0.0	130.26	0.0000	0.078
	1.00	385.3	106.4	130.28	63.0000	0.148
	2.00	435.4	156.5	130.28	32.0000	0.190
	3.00	467.8	188.9	130.29	21.6667	0.219
	4.00	493.0	214.0	130.28	16.5000	0.243
	5.00	514.1	235.1	130.28	13.4000	0.264
	6.00	532.4	253.5	130.27	11.3333	0.283
	7.00	549.1	270.1	130.25	9.8571	0.301
	8.00	564.1	285.2	130.23	8.7500	0.318
	9.00	578.0	299.1	130.18	7.8889	0.334
	10.00	591.0	312.1	130.17	7.2000	0.349
	11.00	603.2	324.3	130.11	6.6364	0.364
	12.00	614.7	335.8	130.09	6.1667	0.378
	13.00	625.7	346.8	130.05	5.7692	0.392
	14.00	636.2	357.2	130.03	5.4286	0.405
	15.00	646.1	367.2	130.00	5.1333	0.417
	16.00	655.7	376.8	129.98	4.8750	0.430
	17.00	664.9	386.0	129.95	4.6471	0.442
	18.00	673.8	394.8	129.92	4.4444	0.454
	19.00	682.3	403.3	129.88	4.2632	0.465
	20.00	690.6	411.7	129.85	4.1000	0.477
	21.00	698.4	419.5	129.81	3.9524	0.488
	22.00	706.2	427.3	129.77	3.8182	0.499
	23.00	713.7	434.7	129.71	3.6957	0.509
	24.00	720.8	441.9	129.69	3.5833	0.520
	25.00	727.8	448.9	129.65	3.4800	0.530
	26.00	734.7	455.7	129.62	3.3846	0.540
	27.00	741.2	462.2	129.58	3.2963	0.549
	28.00	747.7	468.8	129.55	3.2143	0.559
	29.00	753.9	475.0	129.53	3.1379	0.568
	30.00	760.0	481.0	129.54	3.0667	0.578
	31.00	766.0	487.0	129.53	3.0000	0.587
	32.00	771.7	492.8	129.54	2.9375	0.596
	33.00	777.2	498.3	129.53	2.8788	0.604
	34.00	782.7	503.8	129.51	2.8235	0.613
	35.00	788.1	509.2	129.48	2.7714	0.621
	36.00	793.3	514.3	129.46	2.7222	0.629
	37.00	798.4	519.5	129.42	2.6757	0.637
	38.00	803.4	524.5	129.39	2.6316	0.645
	39.00	808.3	529.3	129.34	2.5897	0.653
	40.00	813.0	534.1	129.30	2.5500	0.661

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10318 DST #1 Cooper #1-29 White & Ellis Drlg.

DATE: 08/12/97 TIME: 22:47:11

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	41.00	817.7	538.8	129.27	2.5122	0.669
	42.00	822.2	543.3	129.23	2.4762	0.676
	43.00	826.8	547.8	129.21	2.4419	0.684
	44.00	831.2	552.2	129.14	2.4091	0.691
	45.00	835.4	556.5	129.15	2.3778	0.698
	46.00	839.7	560.7	129.14	2.3478	0.705
	47.00	843.7	564.8	129.12	2.3191	0.712
	48.00	847.8	568.8	129.09	2.2917	0.719
***** End Shut-in 2	49.00	851.8	572.8	129.08	2.2653	0.725
***** Final Hydro.	269.00	2013.0	0.0	129.01		

TEST HISTORY

10318 DST #1 Cooper #1-29 White & Ellis Drlg.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2064.54
B:	0.00	35.19
C:	32.00	177.04
D:	46.00	921.91
E:	0.00	192.82
F:	30.00	278.94
G:	49.00	851.76
Q:	0.00	2013.04

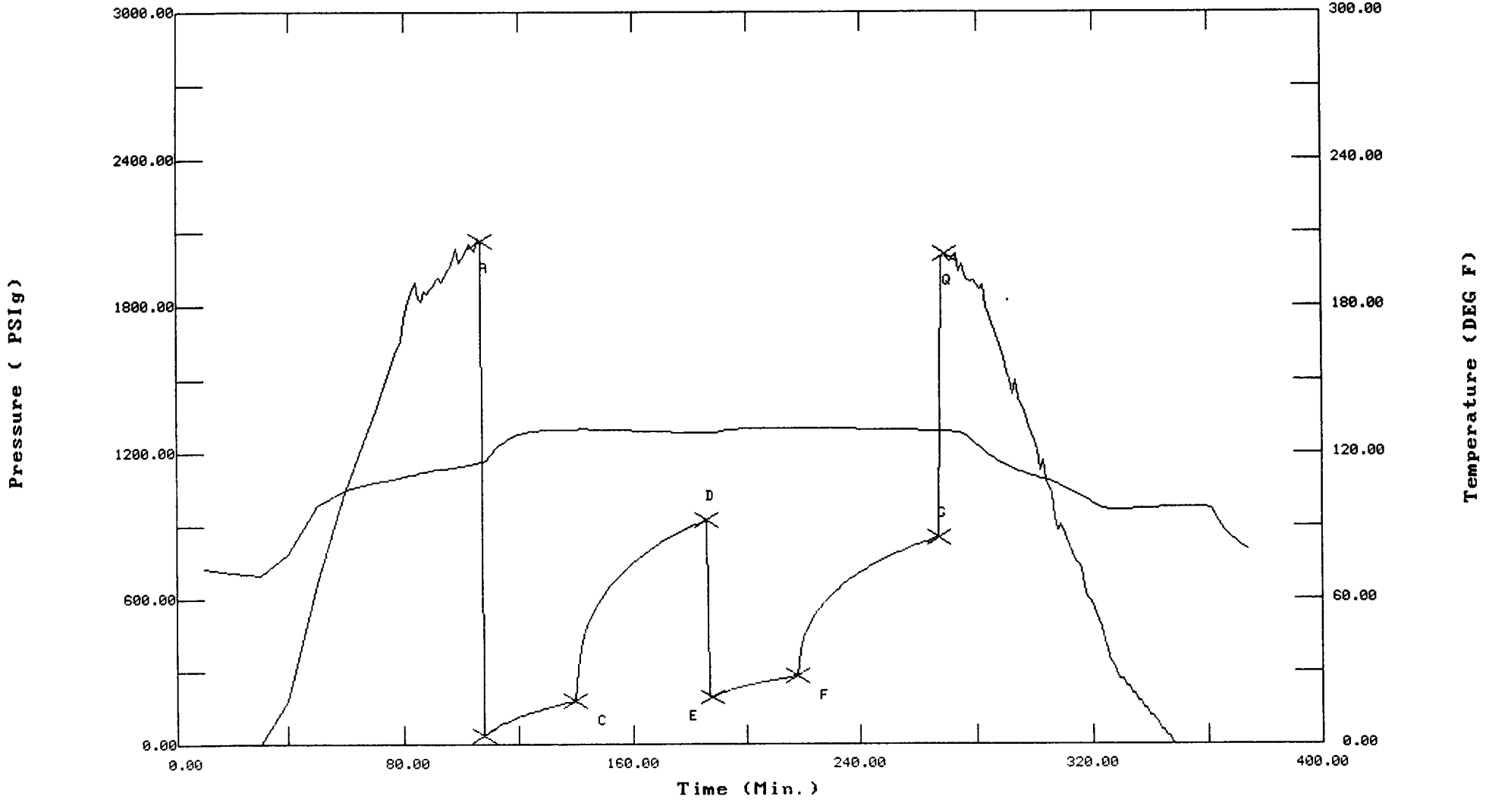
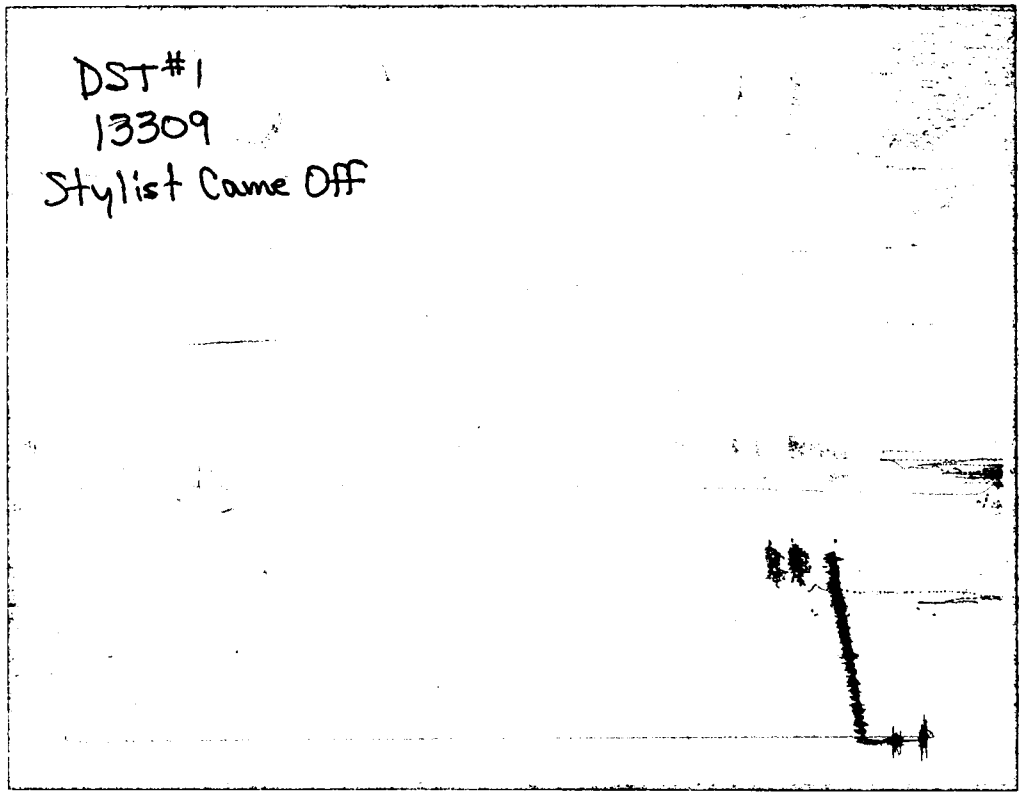


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : White & Ellis Drlg. Inc. DATE 8-13-97
WELL NAME: Cooper #1-29 KB 3129.00 ft TICKET NO: 10319 DST #2
LOCATION : 29-10S-33W Thomas KS GR 3119.00 ft FORMATION: Lans/KC "K"
INTERVAL : 4280.00 To 4310.00 ft TD 4310.00 ft TEST TYPE: CONV

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	13339	13339	2341		
SI	45	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF	45	Clock(hrs)	12 HR	12 HR	Elec		
FS	60	Depth(ft)	4305.0	4305.0	4282.0	0.0	0.0

TIME DATA----------
PF Fr. 1250 to 1320 hr
IS Fr. 1320 to 1405 hr
SF Fr. 1405 to 1450 hr
FS Fr. 1450 to 1550 hr

	Field	1	2	3	4
A. Init Hydro	2083.0	2117.0	2059.0	0.0	0.0
B. First Flow	83.0	85.0	16.0	0.0	0.0
B1. Final Flow	124.0	123.0	121.0	0.0	0.0
C. In Shut-in	1301.0	1311.0	1304.0	0.0	0.0
D. Init Flow	187.0	194.0	125.0	0.0	0.0
E. Final Flow	239.0	246.0	240.0	0.0	0.0
F. Fl Shut-in	1271.0	1274.0	1272.0	0.0	0.0
G. Final Hydro	2023.0	2046.0	2020.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1130 hr
T ON BOTM 1227 hr
T OPEN 1230 hr
T PULLED 1550 hr
T OUT 1800 hr

RECOVERY
Tot Fluid 540.00 ft of 0.00 ft in DC and 540.00 ft in DP
240.00 ft of Gas In Pipe
180.00 ft of Clean Gassy Oil 5%gas 95%oil
120.00 ft of Gassy Oil Stained Water Cut Mud
0.00 ft of 15%gas 5%oil 30%water 50%mud
240.00 ft of Salt Water 100%water
0.00 ft of
0.00 ft of
0.00 ft of RW .20 @ 60 deg
SALINITY 44000.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	1800.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	80000.00 lbs
Initial Str Wt	58000.00 lbs
Unseated Str Wt	60000.00 lbs
Bot Choke	0.75 in
Hole Size	8.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	4291.00 ft

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

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	46.00 S/L
W.L.	11.20 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	130.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Rod Steinbrink
Co. Rep.	Tom Funk
Contr.	White & Ellis
Rig #	9
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
Weak to fair blow off bottom in 12 min

Initial Shut In:
Bled off blow - surface return built
1"

Final Flow:
Weak to fair blow off bottom in 12 min

Final Shut In:
Bled off blow - surface return built
to 1"

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

ELL NAME: Cooper #1-29

OCATION : 29-10S-33W Thomas KS

ICKET No. 10319 D.S.T. No. 2 DATE 8-13-97

OTAL TOOL TO BOTTOM OF TOP PACKERS 20

NTERVAL TOOL 30

OTTOM PACKERS AND ANCHOR .....

OTAL TOOL 50

RILL COLLAR ANCHOR IN INTERVAL .....

.C. ANCHOR STND.Stands Single Total

.P. ANCHOR STND.Stands Single Total

OTAL ASSEMBLY 50

.C. ABOVE TOOLS.Stands Single Total

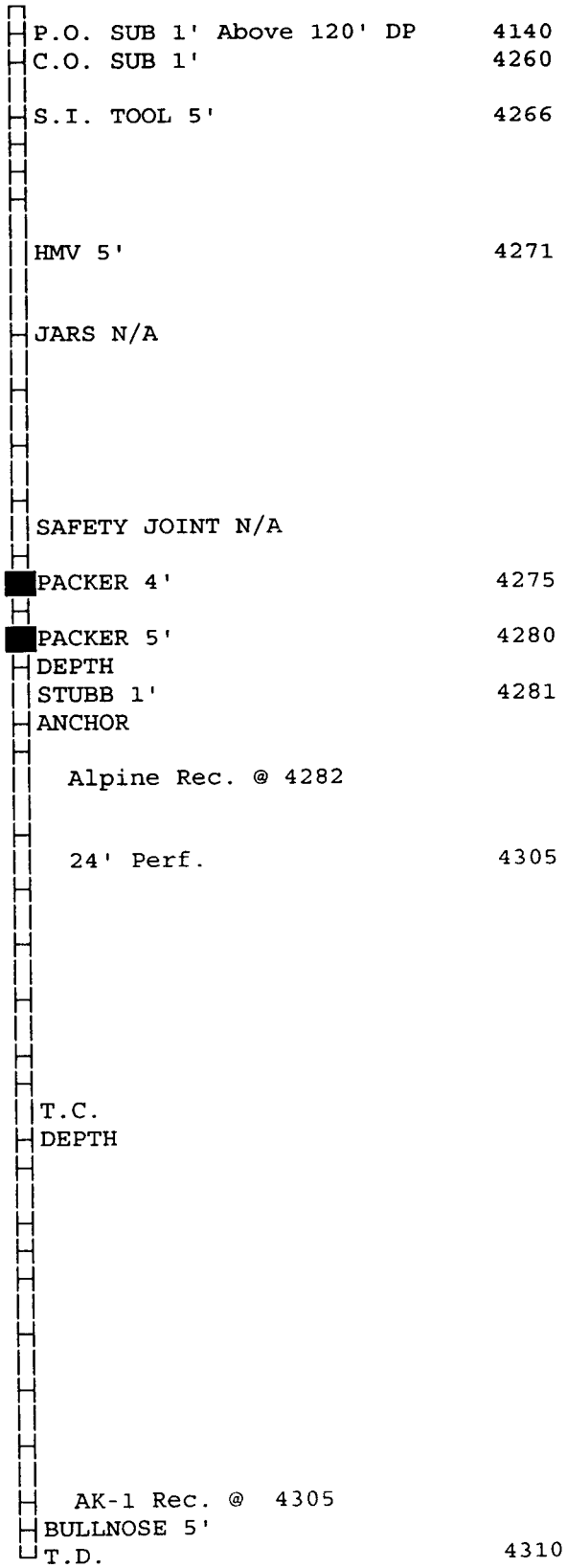
.P. ABOVE TOOLS.Stands68 Single Total 4291

OTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4341

OTAL DEPTH 4310

OTAL DRILL PIPE ABOVE K.B. 31

EMARKS:



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10319 DST #2 Cooper #1-29 White & Ellis Drlg.Inc.

DATE: 08/13/97 TIME: 11:30:18

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	79.00	2059.5	0.0	112.53		
****** Start Flow 1	0.00	16.5	0.0	112.71		
	1.00	21.4	4.8	112.92		
	2.00	23.4	6.9	113.14		
	3.00	26.2	9.7	113.78		
	4.00	30.3	13.8	114.54		
	5.00	34.3	17.8	115.33		
	6.00	38.2	21.7	116.12		
	7.00	42.5	26.0	116.86		
	8.00	46.7	30.2	117.54		
	9.00	50.3	33.8	118.14		
	10.00	53.8	37.3	118.72		
	11.00	57.6	41.1	119.30		
	12.00	61.9	45.4	119.88		
	13.00	65.4	48.9	120.40		
	14.00	69.0	52.5	120.81		
	15.00	72.5	56.0	121.13		
	16.00	75.8	59.3	121.41		
	17.00	79.1	62.6	121.66		
	18.00	82.2	65.7	121.94		
	19.00	85.0	68.5	122.38		
	20.00	88.3	71.8	122.98		
	21.00	91.5	75.0	123.59		
	22.00	94.7	78.2	124.18		
	23.00	98.0	81.5	124.72		
	24.00	101.5	84.9	125.19		
	25.00	104.5	88.0	125.61		
	26.00	107.5	91.0	125.94		
	27.00	110.5	94.0	126.28		
	28.00	113.6	97.1	126.52		
	29.00	116.5	100	126.66		
	30.00	119.2	102.7	126.81		
****** End Flow 1	31.00	121.9	105.4	126.94		
****** Start Shutin 1	0.00	121.9	0.0	126.94	0.0000	0.015
	1.00	662.5	540.6	127.02	32.0000	0.439
	2.00	1112.4	990.4	127.07	16.5000	1.237
	3.00	1188.7	1066.7	127.00	11.3333	1.413
	4.00	1217.0	1095.1	126.91	8.7500	1.481
	5.00	1232.4	1110.4	126.83	7.2000	1.519
	6.00	1242.2	1120.3	126.75	6.1667	1.543
	7.00	1249.5	1127.6	126.70	5.4286	1.561
	8.00	1255.1	1133.2	126.68	4.8750	1.575
	9.00	1259.7	1137.7	126.68	4.4444	1.587
	10.00	1263.5	1141.5	126.62	4.1000	1.596
	11.00	1266.7	1144.7	126.59	3.8182	1.605
	12.00	1269.5	1147.6	126.58	3.5833	1.612
	13.00	1272.0	1150.1	126.57	3.3846	1.618
	14.00	1274.4	1152.4	126.55	3.2143	1.624
	15.00	1276.4	1154.4	126.54	3.0667	1.629
	16.00	1278.3	1156.3	126.53	2.9375	1.634
	17.00	1280.0	1158.1	126.52	2.8235	1.638

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10319 DST #2 Cooper #1-29 White & Ellis Drlg.Inc.

DATE: 08/13/97 TIME: 11:30:18

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	18.00	1281.5	1159.6	126.51	2.7222	1.642
	19.00	1283.0	1161.1	126.52	2.6316	1.646
	20.00	1284.4	1162.5	126.50	2.5500	1.650
	21.00	1285.7	1163.8	126.50	2.4762	1.653
	22.00	1286.9	1165.0	126.47	2.4091	1.656
	23.00	1288.1	1166.2	126.48	2.3478	1.659
	24.00	1289.2	1167.3	126.47	2.2917	1.662
	25.00	1290.3	1168.4	126.40	2.2400	1.665
	26.00	1291.3	1169.3	126.45	2.1923	1.667
	27.00	1292.2	1170.2	126.44	2.1481	1.670
	28.00	1293.1	1171.1	126.46	2.1071	1.672
	29.00	1294.0	1172.0	126.45	2.0690	1.674
	30.00	1294.9	1172.9	126.45	2.0333	1.677
	31.00	1295.7	1173.7	126.44	2.0000	1.679
	32.00	1296.4	1174.5	126.44	1.9688	1.681
	33.00	1297.1	1175.2	126.43	1.9394	1.683
	34.00	1297.8	1175.9	126.41	1.9118	1.684
	35.00	1298.5	1176.6	126.42	1.8857	1.686
	36.00	1299.2	1177.3	126.41	1.8611	1.688
	37.00	1299.7	1177.8	126.41	1.8378	1.689
	38.00	1300.5	1178.6	126.40	1.8158	1.691
	39.00	1301.1	1179.1	126.39	1.7949	1.693
	40.00	1301.7	1179.7	126.38	1.7750	1.694
	41.00	1302.2	1180.2	126.39	1.7561	1.696
	42.00	1302.7	1180.7	126.38	1.7381	1.697
	43.00	1303.2	1181.3	126.39	1.7209	1.698
***** End Shut-in 1	44.00	1303.8	1181.8	126.37	1.7045	1.700
***** Start Flow 2	0.00	125.2	0.0	126.29		
	1.00	128.9	3.8	126.18		
	2.00	131.6	6.4	126.07		
	3.00	134.5	9.4	126.05		
	4.00	137.5	12.3	126.13		
	5.00	140.7	15.5	126.24		
	6.00	143.6	18.4	126.40		
	7.00	146.4	21.2	126.56		
	8.00	149.2	24.0	126.72		
	9.00	152.2	27.0	126.87		
	10.00	154.9	29.8	127.01		
	11.00	157.8	32.6	127.16		
	12.00	160.4	35.3	127.31		
	13.00	163.3	38.2	127.48		
	14.00	165.9	40.7	127.62		
	15.00	168.4	43.2	127.74		
	16.00	170.8	45.7	127.90		
	17.00	173.2	48.0	128.04		
	18.00	175.9	50.7	128.19		
	19.00	178.4	53.2	128.33		
	20.00	180.9	55.8	128.49		
	21.00	183.3	58.2	128.56		
	22.00	185.7	60.6	128.66		
	23.00	188.5	63.3	128.74		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10319 DST #2 Cooper #1-29 White & Ellis Drlg.Inc.

DATE: 08/13/97 TIME: 11:30:18

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	24.00	191.0	65.8	128.84		
	25.00	193.4	68.2	128.90		
	26.00	195.7	70.6	128.99		
	27.00	198.2	73.1	129.06		
	28.00	200.7	75.5	129.13		
	29.00	203.2	78.1	129.19		
	30.00	205.6	80.4	129.27		
	31.00	208.0	82.9	129.33		
	32.00	210.4	85.2	129.38		
	33.00	212.7	87.5	129.44		
	34.00	215.2	90.0	129.49		
	35.00	217.5	92.3	129.53		
	36.00	219.7	94.6	129.57		
	37.00	221.9	96.8	129.62		
	38.00	224.1	99.0	129.67		
	39.00	226.4	101.2	129.70		
	40.00	228.9	103.8	129.74		
	41.00	231.1	105.9	129.78		
	42.00	233.3	108.2	129.82		
	43.00	235.6	110.4	129.85		
	44.00	237.8	112.6	129.88		
****** End Flow 2	45.00	240.4	115.2	129.91		
****** Start Shutin 2	0.00	240.4	0.0	129.91	0.0000	0.058
	1.00	370.4	130.0	129.93	77.0000	0.137
	2.00	1041.0	800.7	129.96	39.0000	1.084
	3.00	1138.1	897.7	130.09	26.3333	1.295
	4.00	1170.6	930.2	130.14	20.0000	1.370
	5.00	1186.4	946.0	130.18	16.2000	1.408
	6.00	1197.4	957.0	130.21	13.6667	1.434
	7.00	1205.3	964.9	130.24	11.8571	1.453
	8.00	1211.0	970.6	130.18	10.5000	1.467
	9.00	1215.8	975.4	130.28	9.4444	1.478
	10.00	1219.6	979.2	130.28	8.6000	1.487
	11.00	1222.7	982.3	130.27	7.9091	1.495
	12.00	1225.4	985.0	130.26	7.3333	1.502
	13.00	1228.0	987.6	130.25	6.8462	1.508
	14.00	1230.3	990.0	130.23	6.4286	1.514
	15.00	1232.4	992.0	130.22	6.0667	1.519
	16.00	1234.3	993.9	130.20	5.7500	1.523
	17.00	1236.0	995.6	130.17	5.4706	1.528
	18.00	1237.6	997.3	130.17	5.2222	1.532
	19.00	1238.8	998.4	130.13	5.0000	1.535
	20.00	1240.1	999.7	130.10	4.8000	1.538
	21.00	1241.5	1001.1	130.05	4.6190	1.541
	22.00	1243.0	1002.6	130.03	4.4545	1.545
	23.00	1244.3	1003.9	130.01	4.3043	1.548
	24.00	1245.5	1005.1	129.96	4.1667	1.551
	25.00	1246.7	1006.3	129.93	4.0400	1.554
	26.00	1248.0	1007.6	129.90	3.9231	1.557
	27.00	1249.2	1008.8	129.86	3.8148	1.560
	28.00	1250.3	1009.9	129.82	3.7143	1.563

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10319 DST #2 Cooper #1-29 White & Ellis Drlg.Inc.

DATE: 08/13/97 TIME: 11:30:18

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	29.00	1251.4	1011.0	129.81	3.6207	1.566
	30.00	1252.4	1012.0	129.77	3.5333	1.568
	31.00	1253.6	1013.2	129.74	3.4516	1.571
	32.00	1254.6	1014.2	129.73	3.3750	1.574
	33.00	1256.2	1015.8	129.69	3.3030	1.578
	34.00	1257.1	1016.8	129.66	3.2353	1.580
	35.00	1258.1	1017.7	129.64	3.1714	1.583
	36.00	1258.9	1018.5	129.61	3.1111	1.585
	37.00	1259.8	1019.4	129.57	3.0541	1.587
	38.00	1260.2	1019.8	129.55	3.0000	1.588
	39.00	1261.0	1020.6	129.53	2.9487	1.590
	40.00	1261.7	1021.3	129.49	2.9000	1.592
	41.00	1262.3	1021.9	129.48	2.8537	1.593
	42.00	1263.0	1022.6	129.46	2.8095	1.595
	43.00	1263.6	1023.3	129.43	2.7674	1.597
	44.00	1264.1	1023.7	129.41	2.7273	1.598
	45.00	1264.8	1024.4	129.37	2.6889	1.600
	46.00	1265.3	1024.9	129.34	2.6522	1.601
	47.00	1265.9	1025.5	129.33	2.6170	1.602
	48.00	1266.5	1026.1	129.30	2.5833	1.604
	49.00	1267.0	1026.6	129.27	2.5510	1.605
	50.00	1267.6	1027.2	129.27	2.5200	1.607
	51.00	1268.3	1027.9	129.24	2.4902	1.609
	52.00	1268.9	1028.5	129.22	2.4615	1.610
	53.00	1269.5	1029.1	129.20	2.4340	1.612
	54.00	1270.1	1029.7	129.17	2.4074	1.613
	55.00	1270.6	1030.2	129.17	2.3818	1.614
	56.00	1271.0	1030.6	129.15	2.3571	1.615
	57.00	1271.4	1031.0	129.14	2.3333	1.616
	58.00	1271.8	1031.4	129.11	2.3103	1.617
***** End Shut-in 2	59.00	1272.2	1031.8	129.10	2.2881	1.619
***** Final Hydro.	262.00	2019.9	0.0	129.10		

TEST HISTORY

10319 DST #2 Cooper #1-29 White & Ellis Drlg.Inc.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2059.53
B:	0.00	16.52
C:	31.00	121.94
D:	44.00	1303.77
E:	0.00	125.16
F:	45.00	240.39
G:	59.00	1272.23
Q:	0.00	2019.86

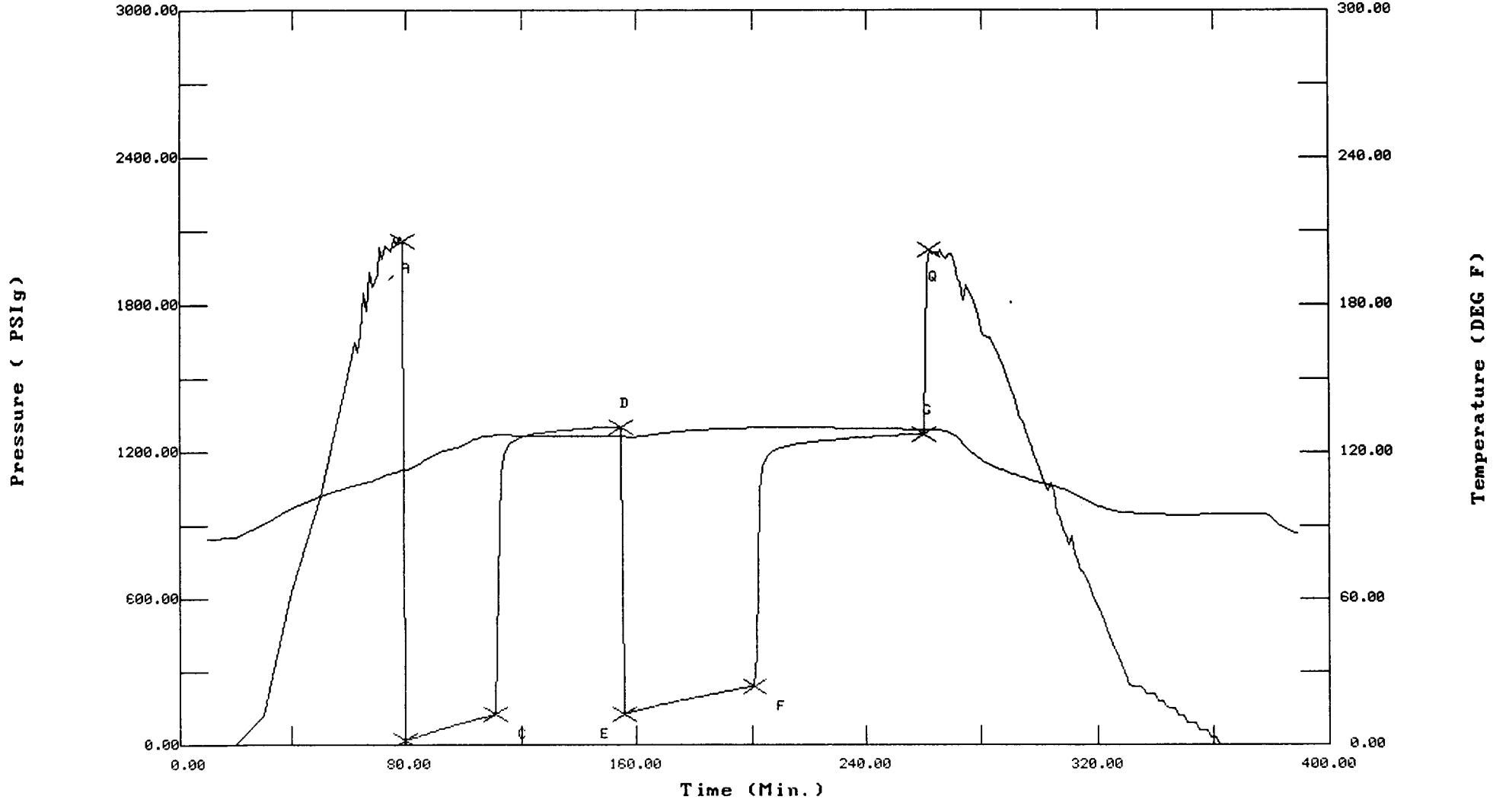
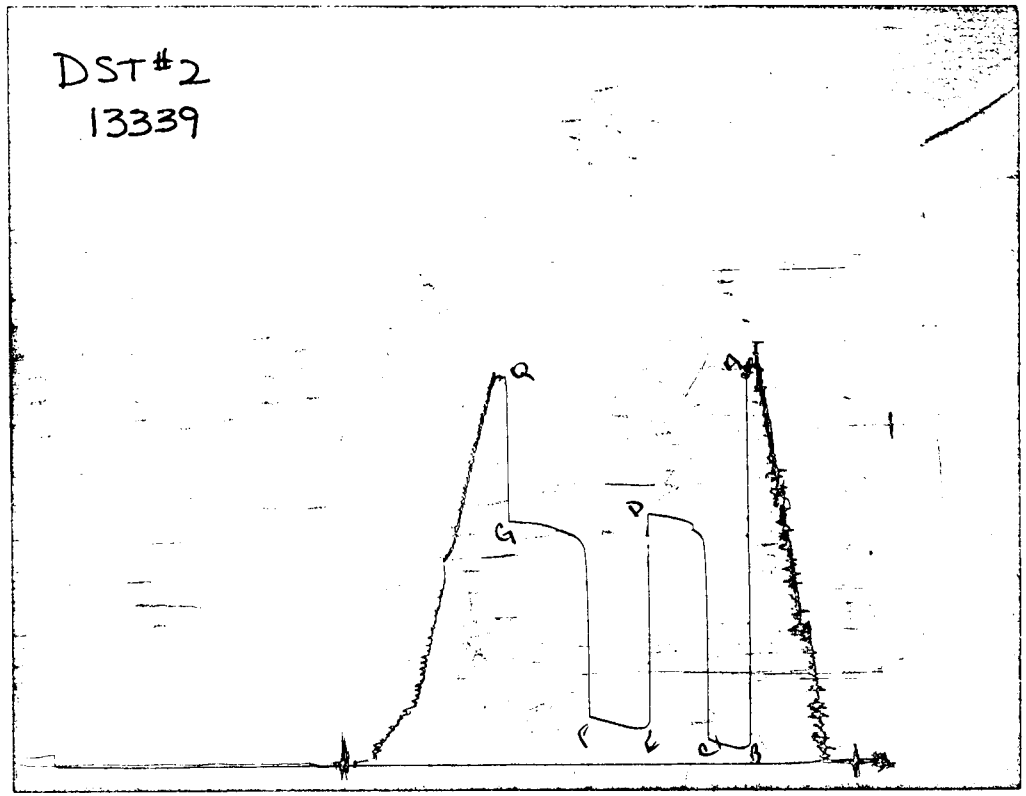


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : White & Ellis Drlg.Inc. DATE 8-15-97
WELL NAME: Cooper #1-29 KB 3129.00 ft TICKET NO: 10320 DST #3
LOCATION : 29-10S-33W Thomas KS. GR 3119.00 ft FORMATION: Johnson
INTERVAL : 4556.00 To 4630.00 ft TD 4630.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13339	13339	2341		
SI 45	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	12 HR	12 HR	Elec		
FS 60	Depth(ft)	4625.0	4625.0	4560.0	0.0	0.0

TIME DATA----------
PF Fr. 0034 to 0104 hr
IS Fr. 0104 to 0149 hr
SF Fr. 0149 to hr
FS Fr. 0249 to hr

	Field	1	2	3	4
A. Init Hydro	2273.0	2275.0	2225.0	0.0	0.0
B. First Flow	104.0	136.0	13.0	0.0	0.0
B1. Final Flow	104.0	18.0	38.0	0.0	0.0
C. In Shut-in	1110.0	1058.0	1060.0	0.0	0.0
D. Init Flow	124.0	168.0	41.0	0.0	0.0
E. Final Flow	145.0	154.0	79.0	0.0	0.0
F. Fl Shut-in	1090.0	1049.0	1044.0	0.0	0.0
G. Final Hydro	2253.0	2188.0	2213.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 2235 hr
T ON BOTM 0032 hr
T OPEN 0034 hr
T PULLED 0349 hr
T OUT 0600 hr

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

Tool Wt.	1800.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	100000.00 lbs
Initial Str Wt	58000.00 lbs
Unseated Str Wt	58000.00 lbs
Bot Choke	0.75 in
Hole Size	8.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	4541.00 ft

RECOVERY
Tot Fluid 150.00 ft of 0.00 ft in DC and 150.00 ft in DP
150.00 ft of Oil Stained Mud
0.00 ft of 3%oil 97%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

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

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	45.00 S/L
W.L.	12.00 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	129.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Rod Steinbrink
Co. Rep.	Tom Funk
Contr.	White & Ellis
Rig #	9
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
Weak surface blow built to 3"

Initial Shut In:
No return

Final Flow:
Weak surface blow built to 2"

Final Shut In:
No return

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

ELL NAME: Cooper #1-29

OCATION : 29-10S-33W Thomas KS.

ICKET No. 10320 D.S.T. No. 3 DATE 8-15-97

OTAL TOOL TO BOTTOM OF TOP PACKERS 20

NTERVAL TOOL 12

OTTOM PACKERS AND ANCHOR .....

OTAL TOOL 32

RILL COLLAR ANCHOR IN INTERVAL .....

.C. ANCHOR STND.Stands Single Total

.P. ANCHOR STND.Stands 1 Single Total 62

OTAL ASSEMBLY 94

.C. ABOVE TOOLS.Stands Single Total

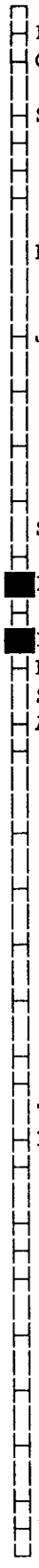
.P. ABOVE TOOLS.Stands73 Single Total 4541

OTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4639

OTAL DEPTH 4630

OTAL DRILL PIPE ABOVE K.B. 9

EMARKS:



P.O. SUB 1' Above 120' DP	4416
C.O. SUB 1'	4536
S.I. TOOL 5'	4542
HMV 5'	4547
JARS N/A	
SAFETY JOINT N/A	
PACKER 4'	4551
PACKER 5'	4556
DEPTH	
STUBB 1'	4557
ANCHOR	
Alpine Rec. @ 4560	
4' Perf.	4561
1' CO Sub	4562
62' DP	4624
1' CO Sub	4625
T.C.	
DEPTH	
AK-1 Rec. @ 4625	
BULLNOSE 5'	
T.D.	4630

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10320 DST #3 Cooper #1-29 White & Ellis Drlg.Inc.

DATE: 08/14/97 TIME: 22:35:25

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	120.00	2225.0	0.0	119.71		
****** Start Flow 1	0.00	12.9	0.0	119.73		
	1.00	14.3	1.4	119.83		
	2.00	15.5	2.6	119.93		
	3.00	16.4	3.5	120.02		
	4.00	18.2	5.3	120.10		
	5.00	18.9	6.0	120.19		
	6.00	19.6	6.8	120.27		
	7.00	20.5	7.6	120.37		
	8.00	21.2	8.3	120.42		
	9.00	21.7	8.8	120.56		
	10.00	23.0	10.1	120.69		
	11.00	24.3	11.5	120.83		
	12.00	24.5	11.6	120.96		
	13.00	24.5	11.6	121.10		
	14.00	26.0	13.2	121.21		
	15.00	26.6	13.7	121.34		
	16.00	27.2	14.3	121.46		
	17.00	27.9	15.0	121.56		
	18.00	28.5	15.7	121.67		
	19.00	33.1	20.3	121.79		
	20.00	31.5	18.6	121.89		
	21.00	31.1	18.2	122.00		
	22.00	32.7	19.8	122.10		
	23.00	32.3	19.4	122.20		
	24.00	33.4	20.5	122.28		
	25.00	34.5	21.6	122.37		
	26.00	35.7	22.9	122.45		
	27.00	35.3	22.4	122.53		
	28.00	36.7	23.8	122.58		
	29.00	36.5	23.6	122.65		
****** End Flow 1	30.00	37.9	25.0	122.70		
****** Start Shutin 1	0.00	37.9	0.0	122.70	0.0000	0.001
	1.00	53.4	15.6	122.74	31.0000	0.003
	2.00	87.2	49.3	122.79	16.0000	0.008
	3.00	162.4	124.5	122.84	11.0000	0.026
	4.00	366.6	328.8	122.90	8.5000	0.134
	5.00	688.4	650.6	122.99	7.0000	0.474
	6.00	870.6	832.7	123.05	6.0000	0.758
	7.00	943.9	906.1	123.13	5.2857	0.891
	8.00	977.8	940.0	123.19	4.7500	0.956
	9.00	996.6	958.8	123.27	4.3333	0.993
	10.00	1008.6	970.8	123.31	4.0000	1.017
	11.00	1017.0	979.1	123.38	3.7273	1.034
	12.00	1023.1	985.3	123.43	3.5000	1.047
	13.00	1027.9	990.1	123.49	3.3077	1.057
	14.00	1031.9	994.0	123.54	3.1429	1.065
	15.00	1035.0	997.1	123.61	3.0000	1.071
	16.00	1037.6	999.7	123.66	2.8750	1.077
	17.00	1039.8	1001.9	123.71	2.7647	1.081
	18.00	1041.8	1003.9	123.75	2.6667	1.085

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10320 DST #3 Cooper #1-29 White & Ellis Drlg.Inc.

DATE: 08/14/97 TIME: 22:35:25

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	19.00	1043.5	1005.6	123.78	2.5789	1.089
	20.00	1044.9	1007.0	123.85	2.5000	1.092
	21.00	1046.3	1008.4	123.87	2.4286	1.095
	22.00	1047.4	1009.6	123.93	2.3636	1.097
	23.00	1048.5	1010.7	123.97	2.3043	1.099
	24.00	1049.4	1011.6	124.01	2.2500	1.101
	25.00	1050.3	1012.4	124.03	2.2000	1.103
	26.00	1051.1	1013.2	124.07	2.1538	1.105
	27.00	1051.8	1013.9	124.11	2.1111	1.106
	28.00	1052.4	1014.5	124.15	2.0714	1.108
	29.00	1053.0	1015.2	124.19	2.0345	1.109
	30.00	1053.6	1015.7	124.23	2.0000	1.110
	31.00	1054.0	1016.2	124.28	1.9677	1.111
	32.00	1054.6	1016.8	124.30	1.9375	1.112
	33.00	1055.0	1017.2	124.34	1.9091	1.113
	34.00	1055.5	1017.7	124.37	1.8824	1.114
	35.00	1056.0	1018.1	124.41	1.8571	1.115
	36.00	1056.3	1018.4	124.45	1.8333	1.116
	37.00	1056.7	1018.8	124.49	1.8108	1.117
	38.00	1056.9	1019.1	124.52	1.7895	1.117
	39.00	1057.3	1019.4	124.63	1.7692	1.118
	40.00	1057.6	1019.8	124.65	1.7500	1.119
	41.00	1057.9	1020.0	124.57	1.7317	1.119
	42.00	1058.1	1020.2	124.57	1.7143	1.120
	43.00	1058.3	1020.5	124.64	1.6977	1.120
	44.00	1058.7	1020.8	124.45	1.6818	1.121
	45.00	1058.9	1021.1	124.67	1.6667	1.121
	46.00	1059.3	1021.4	124.73	1.6522	1.122
	47.00	1059.3	1021.5	124.75	1.6383	1.122
	48.00	1059.6	1021.7	124.82	1.6250	1.123
	49.00	1059.7	1021.9	124.86	1.6122	1.123
	50.00	1060.0	1022.1	124.90	1.6000	1.124
	51.00	1060.1	1022.2	124.92	1.5882	1.124
****** End Shut-in 1	52.00	1060.3	1022.4	124.96	1.5769	1.124
****** Start Flow 2	0.00	40.9	0.0	124.90		
	1.00	41.2	0.2	124.91		
	2.00	42.2	1.2	124.91		
	3.00	43.0	2.1	124.93		
	4.00	42.9	2.0	124.94		
	5.00	43.4	2.5	124.95		
	6.00	44.2	3.3	124.96		
	7.00	45.0	4.1	124.96		
	8.00	45.7	4.7	124.97		
	9.00	46.5	5.6	124.98		
	10.00	47.2	6.3	125.00		
	11.00	48.1	7.1	125.02		
	12.00	48.9	8.0	125.06		
	13.00	50.2	9.2	125.10		
	14.00	50.5	9.6	125.16		
	15.00	50.7	9.8	125.20		
	16.00	51.1	10.1	125.24		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10320 DST #3 Cooper #1-29 White & Ellis Drlg.Inc.

DATE: 08/14/97 TIME: 22:35:25

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	17.00	51.8	10.8	125.28		
	18.00	52.7	11.8	125.32		
	19.00	53.5	12.6	125.34		
	20.00	54.4	13.5	125.37		
	21.00	55.0	14.0	125.41		
	22.00	55.6	14.7	125.43		
	23.00	56.0	15.1	125.46		
	24.00	56.6	15.7	125.48		
	25.00	57.2	16.3	125.51		
	26.00	57.6	16.7	125.54		
	27.00	58.0	17.1	125.56		
	28.00	58.6	17.6	125.59		
	29.00	58.8	17.9	125.62		
	30.00	59.0	18.1	125.64		
	31.00	59.9	18.9	125.67		
	32.00	60.5	19.6	125.70		
	33.00	61.0	20.0	125.72		
	34.00	61.3	20.4	125.75		
	35.00	62.0	21.1	125.78		
	36.00	62.1	21.2	125.81		
	37.00	62.8	21.9	125.84		
	38.00	63.5	22.5	125.86		
	39.00	64.0	23.1	125.89		
	40.00	64.5	23.6	125.91		
	41.00	65.0	24.0	125.95		
	42.00	65.8	24.9	125.98		
	43.00	66.2	25.3	126.02		
	44.00	67.2	26.3	126.05		
	45.00	68.0	27.1	126.08		
	46.00	68.4	27.4	126.12		
	47.00	68.9	27.9	126.15		
	48.00	69.3	28.3	126.19		
	49.00	69.9	29.0	126.23		
	50.00	70.6	29.6	126.26		
	51.00	71.2	30.2	126.29		
	52.00	71.8	30.9	126.33		
	53.00	72.5	31.5	126.36		
	54.00	73.0	32.0	126.40		
	55.00	73.6	32.7	126.43		
	56.00	74.1	33.1	126.47		
	57.00	74.6	33.7	126.51		
	58.00	75.2	34.3	126.54		
	59.00	75.8	34.9	126.57		
	60.00	76.3	35.3	126.61		
	61.00	76.8	35.9	126.65		
	62.00	77.5	36.6	126.68		
	63.00	77.9	37.0	126.71		
****** End Flow 2	64.00	78.5	37.6	126.75		
****** Start Shutin 2	0.00	78.5	0.0	126.75	0.0000	0.006
	1.00	92.5	14.0	126.79	95.0000	0.009
	2.00	120.1	41.6	126.84	48.0000	0.014

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10320 DST #3 Cooper #1-29 White & Ellis Drlg.Inc.

DATE: 08/14/97 TIME: 22:35:25

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
3.00	162.1	83.5	126.88	32.3333	0.026
4.00	231.2	152.7	126.92	24.5000	0.053
5.00	349.8	271.3	126.96	19.8000	0.122
6.00	532.1	453.6	126.99	16.6667	0.283
7.00	720.0	641.5	127.06	14.4286	0.518
8.00	844.7	766.1	127.12	12.7500	0.713
9.00	911.5	832.9	127.25	11.4444	0.831
10.00	947.4	868.8	127.45	10.4000	0.898
11.00	968.4	889.8	127.67	9.5455	0.938
12.00	981.9	903.4	127.83	8.8333	0.964
13.00	991.3	912.8	128.06	8.2308	0.983
14.00	998.3	919.8	128.24	7.7143	0.997
15.00	1003.7	925.2	128.40	7.2667	1.007
16.00	1008.0	929.5	128.55	6.8750	1.016
17.00	1011.6	933.0	128.65	6.5294	1.023
18.00	1014.4	935.9	128.76	6.2222	1.029
19.00	1016.9	938.4	128.85	5.9474	1.034
20.00	1019.0	940.5	128.94	5.7000	1.038
21.00	1020.9	942.4	129.00	5.4762	1.042
22.00	1022.5	944.0	129.06	5.2727	1.046
23.00	1024.0	945.5	129.10	5.0870	1.049
24.00	1025.4	946.8	129.15	4.9167	1.051
25.00	1026.5	948.0	129.17	4.7600	1.054
26.00	1027.6	949.0	129.21	4.6154	1.056
27.00	1028.5	950.0	129.25	4.4815	1.058
28.00	1029.5	951.0	129.26	4.3571	1.060
29.00	1030.4	951.9	129.29	4.2414	1.062
30.00	1031.1	952.6	129.28	4.1333	1.063
31.00	1031.9	953.4	129.32	4.0323	1.065
32.00	1032.6	954.0	129.33	3.9375	1.066
33.00	1033.3	954.7	129.35	3.8485	1.068
34.00	1033.9	955.4	129.35	3.7647	1.069
35.00	1034.4	955.9	129.36	3.6857	1.070
36.00	1034.9	956.4	129.37	3.6111	1.071
37.00	1035.4	956.9	129.40	3.5405	1.072
38.00	1036.0	957.4	129.38	3.4737	1.073
39.00	1036.5	957.9	129.37	3.4103	1.074
40.00	1036.8	958.3	129.42	3.3500	1.075
41.00	1037.2	958.7	129.41	3.2927	1.076
42.00	1037.6	959.1	129.42	3.2381	1.077
43.00	1038.0	959.5	129.41	3.1860	1.077
44.00	1038.4	959.8	129.43	3.1364	1.078
45.00	1038.7	960.2	129.44	3.0889	1.079
46.00	1039.0	960.5	129.51	3.0435	1.080
47.00	1039.4	960.9	129.48	3.0000	1.080
48.00	1039.7	961.1	129.50	2.9583	1.081
49.00	1040.1	961.5	129.68	2.9184	1.082
50.00	1040.3	961.8	129.59	2.8800	1.082
51.00	1040.5	962.0	129.52	2.8431	1.083
52.00	1040.9	962.3	129.52	2.8077	1.083
53.00	1041.2	962.6	129.41	2.7736	1.084

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10320 DST #3 Cooper #1-29 White & Ellis Drlg.Inc.

DATE: 08/14/97 TIME: 22:35:25

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	54.00	1041.4	962.9	129.36	2.7407	1.085
	55.00	1041.8	963.3	129.38	2.7091	1.085
	56.00	1042.0	963.4	129.47	2.6786	1.086
	57.00	1042.1	963.6	129.50	2.6491	1.086
	58.00	1042.3	963.8	129.53	2.6207	1.086
	59.00	1042.6	964.1	129.53	2.5932	1.087
	60.00	1042.8	964.2	129.54	2.5667	1.087
	61.00	1043.0	964.5	129.55	2.5410	1.088
	62.00	1043.3	964.7	129.56	2.5161	1.088
	63.00	1043.4	964.9	129.56	2.4921	1.089
****** End Shut-in 2	64.00	1043.6	965.1	129.56	2.4688	1.089
****** Final Hydro.	335.00	2212.9	0.0	129.42		

TEST HISTORY

10320 DST #3 Cooper #1-29 White & Ellis Drlg.Inc.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2225.01
B:	0.00	12.88
C:	30.00	37.85
D:	52.00	1060.29
E:	0.00	40.93
F:	64.00	78.53
G:	64.00	1043.63
Q:	0.00	2212.90

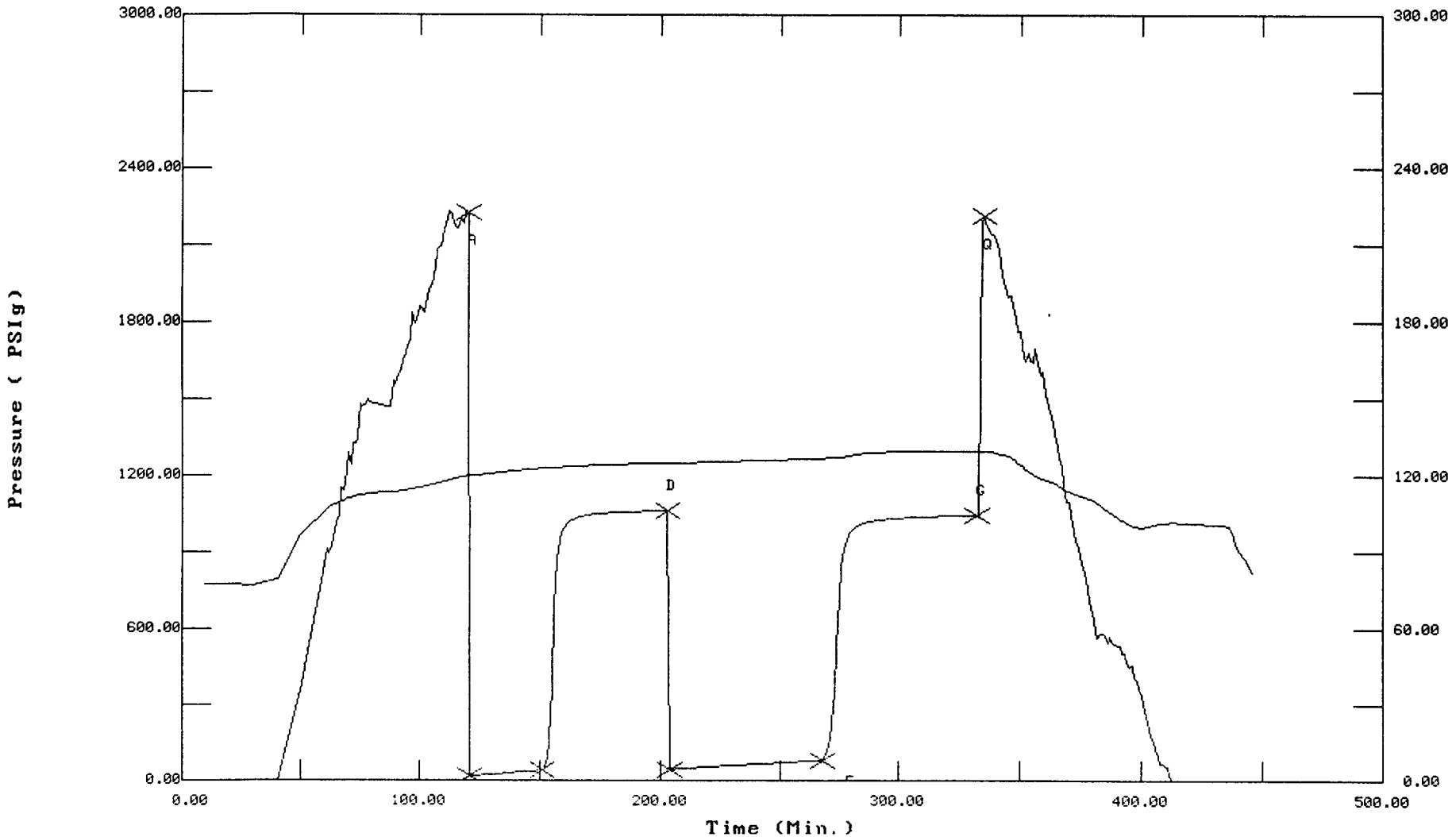
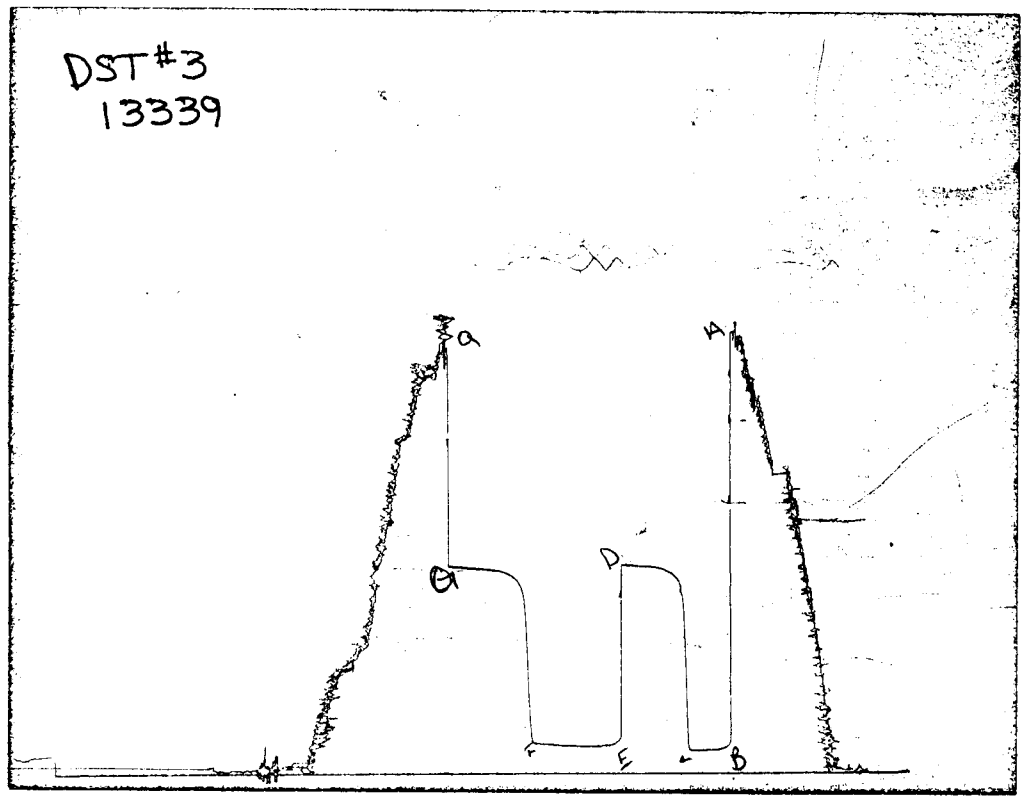


CHART PAGE



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