

WELL NAME: Schowalter 1-12
COMPANY: Abercrombie Drilling
LOCATION: 12-18-S-32W
Scott County, Kansas
DATE: 2/11/98

TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie DATE 2-5-98
 WELL NAME: Schowalter 1-12 KB 2973.00 ft TICKET NO: 11205 DST #1
 LOCATION : 12-18S-32W CO Scott KS GR 2968.00 ft FORMATION: lansing
 INTERVAL : 4208.00 To 4236.00 ft TD 4254.00 ft TEST TYPE: CONV. STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2342			PF Fr. 0858 to 0928 hr
SI 45 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0928 to 1013 hr
SF 60 Clock(hrs)	12	12	alpin			SF Fr. 1013 to 1113 hr
FS 45 Depth(ft)	4226.0	4226.0	4219.0	0.0	0.0	FS Fr. 1113 to 1158 hr

	Field	1	2	3	4	
A. Init Hydro	2087.0	2042.0	2116.0	0.0	0.0	T STARTED 0655 hr
B. First Flow	77.0	76.0	29.0	0.0	0.0	T ON BOTM 0855 hr
B1. Final Flow	100.0	101.0	96.0	0.0	0.0	T OPEN 0858 hr
C. In Shut-in	975.0	962.0	982.0	0.0	0.0	T PULLED 1158 hr
D. Init Flow	133.0	145.0	99.0	0.0	0.0	T OUT 1440 hr
E. Final Flow	200.0	202.0	213.0	0.0	0.0	
F. Fl Shut-in	929.0	909.0	950.0	0.0	0.0	
G. Final Hydro	2065.0	2030.0	2052.0	0.0	0.0	
Inside/Outside	i	i	o			

RECOVERY

Tot Fluid 405.00 ft of 405.00 ft in DC and 0.00 ft in DP
 45.00 ft of Drilling mud with specs of oil
 60.00 ft of Slight water cut mud with specs of oil
 0.00 ft of 60% mud 40% water
 300.00 ft of Gassy water
 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. 5000.00 lbs
 Wt Set On Packer 32000.00 lbs
 Wt Pulled Loose 55000.00 lbs
 Initial Str Wt 42000.00 lbs
 Unseated Str Wt 45000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 0.00 in
 D. Pipe ID 3.50 in
 D.C. Length 0.00 ft
 D.P. Length 3567.00 ft
 H.W. I.D 3.40 in
 H.W. Length 632.00 ft

MUD DATA-----

Mud Type Chemical
 Weight 9.20 lb/c
 Vis. 49.00 S/L
 W.L. 10.40 in3
 F.C. 0.00 in
 Mud Drop Y 35.0 ft

BLOW DESCRIPTION

Initial Flow:
 1/4" at open, built to 7"
 Initial Shut-in:
 No return
 Final Flow:
 Surface blow in 2 min. , built to
 Final Shut-in:
 No return

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 3
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Shane McBride
 Co. Rep. John Hastings
 Contr. Abercrombie
 Rig # 8
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV. STRADDLE

WELL NAME: Schowalter 1-12

LOCATION : 12-18S-32W CO Scott KS

TICKET No. 11205 D.S.T. No. 1 DATE 2-5-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 46

TOTAL TOOL 66

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 66

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands68 Single Total 4199

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4265

TOTAL DEPTH 4254

TOTAL DRILL PIPE ABOVE K.B. 11

REMARKS:

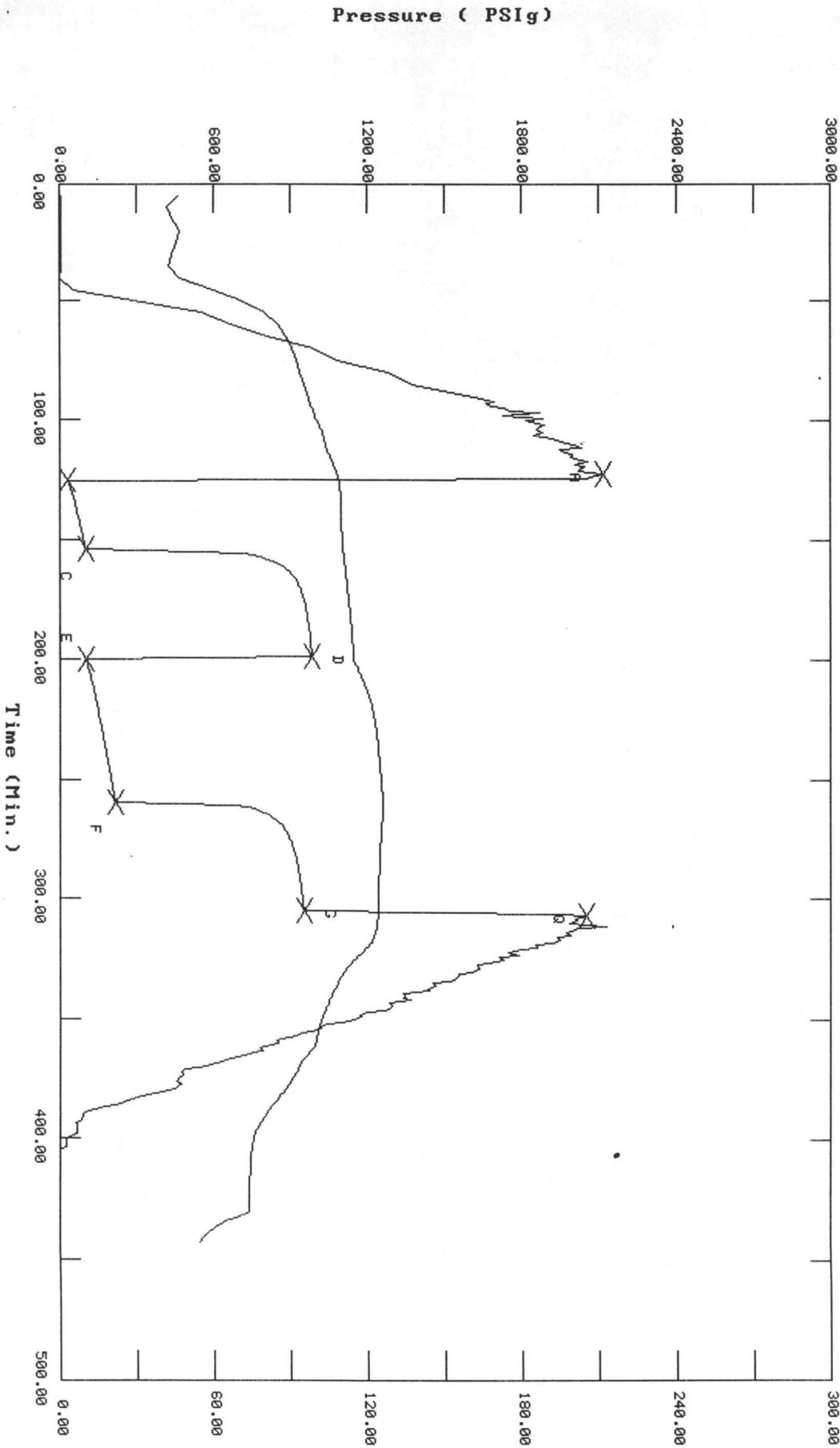
P.O. SUB	
C.O. SUB 1'	4187
S.I. TOOL 5'	4193
HMV 5'	4198
JARS n/a	
SAFETY JOINT n/a	
PACKER top	4203
PACKER bottom	4208
DEPTH 4208	
STUBB 1'	4209
ANCHOR 10' perf	4219
alpine recorder	4219
7' perf	4226
ak-1 recorder	4226
6'perf	4232
1' blankoff	4233
3' top of S.packer	4236
T.C.	
DEPTH	
PACKER straddle packer	4236
1' stubb	4237
12' perf	4249
ak-1 recorder	4251
BULLNOSE 5' bullplug	4254
T.D.	4254

11205 DST #1 1-12 Schowalter Abercrombie Drilg.

TEST HISTORY

Flag Points
 t(Min.) PK PSIG)

R:	0.00	2116.38
B:	0.00	29.84
C:	29.00	96.94
D:	45.00	982.66
E:	0.00	99.94
F:	60.00	213.65
G:	45.00	950.84
Q:	0.00	2052.58

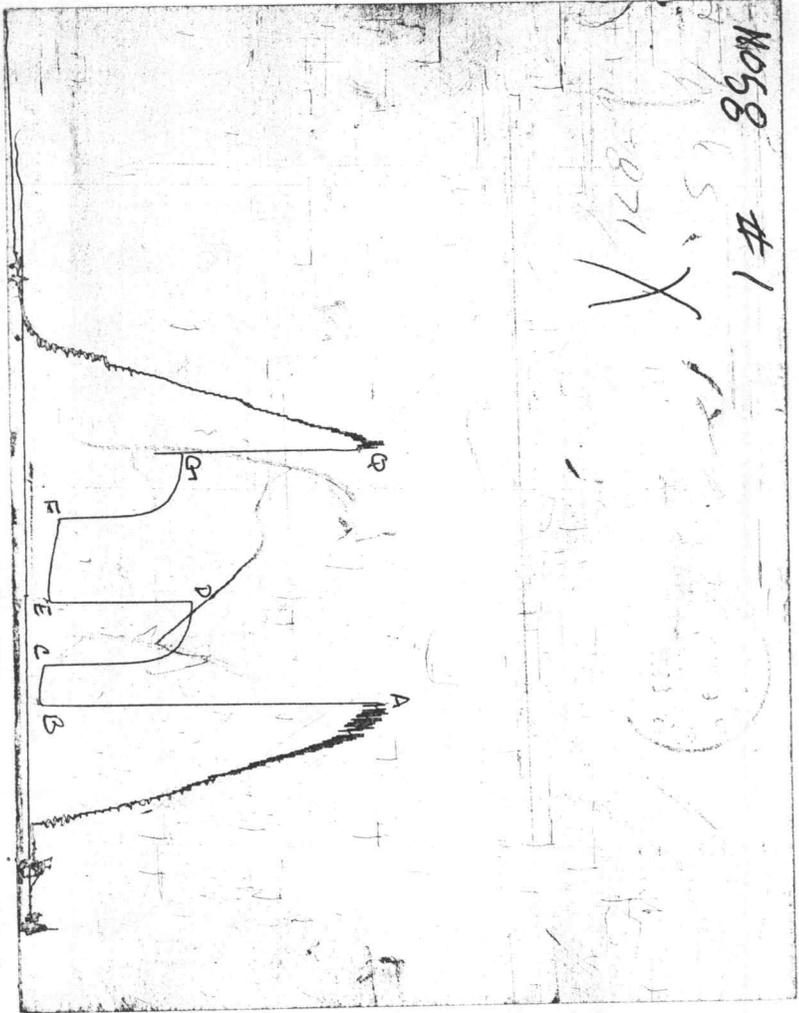


Temperature (DEG F)

Pressure (PSIG)

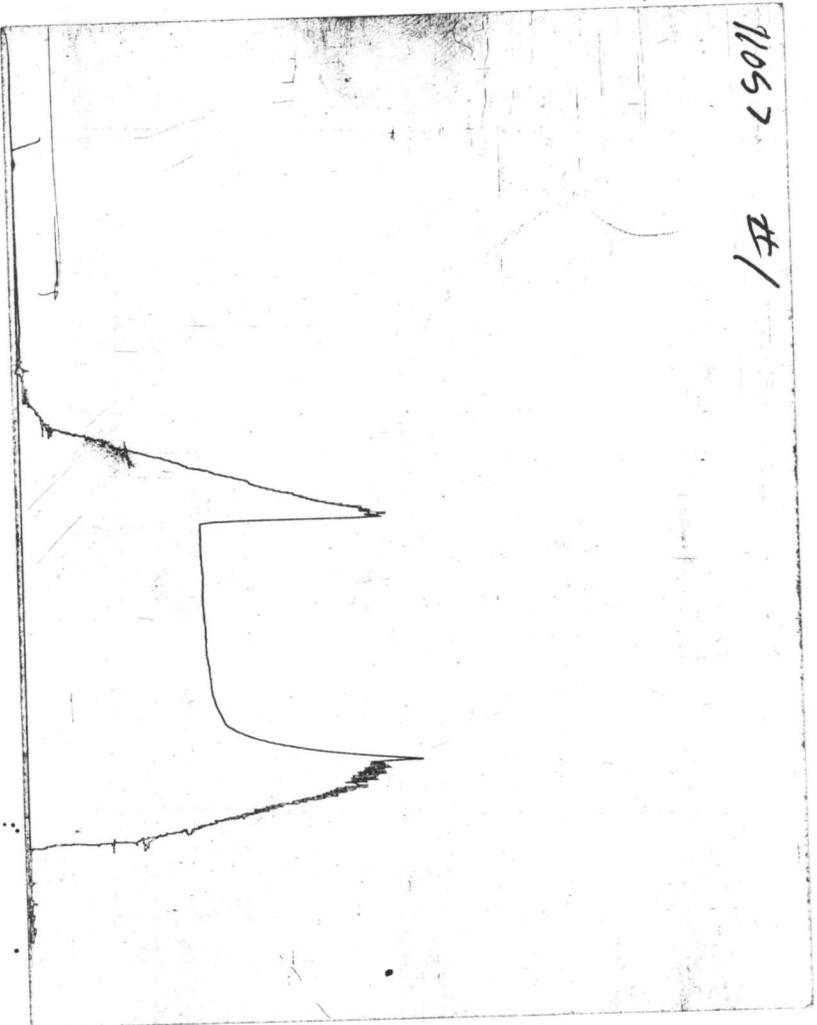
Time (Min.)

CHART PAGE



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

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11205 DST #1 1-12 Schowalter Abercrombie Drilg.

DATE: 02/05/98 TIME: 19:53:18

	Time	Pressure PSig	delta P PSig	P	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	122.00	2116.4	0.0		108.02		
***** Start Flow 1	0.00	29.8	0.0		108.84		
	1.00	33.0	3.1		109.01		
	2.00	35.9	6.0		109.13		
	3.00	39.0	9.2		109.27		
	4.00	41.8	11.9		109.39		
	5.00	44.6	14.8		109.53		
	6.00	47.1	17.2		109.65		
	7.00	49.7	19.8		109.75		
	8.00	52.3	22.5		109.81		
	9.00	54.7	24.8		109.85		
	10.00	57.2	27.3		109.87		
	11.00	59.4	29.5		109.88		
	12.00	61.8	32.0		109.89		
	13.00	64.1	34.2		109.88		
	14.00	66.4	36.5		109.88		
	15.00	68.5	38.6		109.89		
	16.00	70.6	40.7		109.90		
	17.00	72.7	42.9		109.91		
	18.00	74.7	44.8		109.93		
	19.00	76.7	46.9		109.95		
	20.00	78.8	48.9		109.97		
	21.00	80.9	51.0		110.01		
	22.00	82.9	53.0		110.05		
	23.00	85.0	55.2		110.09		
	24.00	87.0	57.2		110.15		
	25.00	89.1	59.3		110.21		
	26.00	91.2	61.3		110.27		
	27.00	93.2	63.3		110.32		
	28.00	95.2	65.4		110.40		
***** End Flow 1	29.00	96.9	67.1		110.50		
***** Start Shutin 1	0.00	96.9	0.0		110.50	0.0000	0.009
	1.00	528.9	432.0		110.60	30.0000	0.280
	2.00	720.8	623.9		110.73	15.5000	0.520
	3.00	776.0	679.1		110.87	10.6667	0.602
	4.00	810.3	713.4		110.99	8.2500	0.657
	5.00	835.1	738.1		111.11	6.8000	0.697
	6.00	854.0	757.1		111.21	5.8333	0.729
	7.00	869.3	772.3		111.29	5.1429	0.756
	8.00	881.6	784.7		111.37	4.6250	0.777
	9.00	892.0	795.1		111.45	4.2222	0.796
	10.00	901.0	804.1		111.53	3.9000	0.812
	11.00	908.7	811.7		111.62	3.6364	0.826
	12.00	915.4	818.5		111.71	3.4167	0.838
	13.00	921.4	824.4		111.82	3.2308	0.849
	14.00	926.7	829.8		111.91	3.0714	0.859
	15.00	931.5	834.6		112.02	2.9333	0.868
	16.00	935.8	838.9		112.12	2.8125	0.876
	17.00	939.7	842.7		112.23	2.7059	0.883
	18.00	943.2	846.3		112.34	2.6111	0.890
	19.00	946.5	849.6		112.44	2.5263	0.896

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11205 DST #1 1-12 Schowalter Abercrombie Drilg.

DATE: 02/05/98

TIME: 19:53:18

	Time	Pressure PSig	delta PSig	P	Temp. DEG F	(T+dT)/dT	P^2/10^6
	20.00	949.5	852.6		112.55	2.4500	0.902
	21.00	952.2	855.3		112.64	2.3810	0.907
	22.00	954.8	857.8		112.76	2.3182	0.912
	23.00	957.2	860.2		112.86	2.2609	0.916
	24.00	959.3	862.4		112.96	2.2083	0.920
	25.00	959.3	862.4		113.04	2.1600	0.920
	26.00	961.3	864.3		113.15	2.1154	0.924
	27.00	963.1	866.2		113.23	2.0741	0.928
	28.00	964.6	867.7		113.32	2.0357	0.931
	29.00	966.3	869.3		113.42	2.0000	0.934
	30.00	967.7	870.8		113.50	1.9667	0.937
	31.00	969.1	872.2		113.58	1.9355	0.939
	32.00	970.4	873.5		113.67	1.9062	0.942
	33.00	971.7	874.8		113.75	1.8788	0.944
	34.00	972.9	875.9		113.83	1.8529	0.946
	35.00	973.9	877.0		113.91	1.8286	0.949
	36.00	975.0	878.1		113.98	1.8056	0.951
	37.00	976.0	879.1		114.04	1.7838	0.953
	38.00	977.0	880.1		114.12	1.7632	0.955
	39.00	977.9	880.9		114.19	1.7436	0.956
	40.00	978.9	881.9		114.26	1.7250	0.958
	41.00	979.6	882.7		114.33	1.7073	0.960
	42.00	980.4	883.5		114.39	1.6905	0.961
	43.00	981.2	884.2		114.45	1.6744	0.963
	44.00	981.9	885.0		114.51	1.6591	0.964
***** End Shut-in 1	45.00	982.7	885.7		114.58	1.6444	0.966
***** Start Flow 2	0.00	99.9	0.0		114.63		
	1.00	102.1	2.2		114.78		
	2.00	104.1	4.2		115.14		
	3.00	106.3	6.3		115.60		
	4.00	108.4	8.5		116.04		
	5.00	110.8	10.9		116.46		
	6.00	113.3	13.3		116.88		
	7.00	115.8	15.8		117.30		
	8.00	118.2	18.3		117.73		
	9.00	120.6	20.7		118.16		
	10.00	122.7	22.8		118.58		
	11.00	124.8	24.9		119.01		
	12.00	127.0	27.1		119.42		
	13.00	129.1	29.1		119.80		
	14.00	131.2	31.3		120.18		
	15.00	133.4	33.4		120.51		
	16.00	135.4	35.5		120.82		
	17.00	137.4	37.4		121.09		
	18.00	139.3	39.3		121.35		
	19.00	141.1	41.1		121.59		
	20.00	143.1	43.2		121.81		
	21.00	144.8	44.9		122.02		
	22.00	146.7	46.8		122.21		
	23.00	148.5	48.5		122.39		
	24.00	150.4	50.4		122.56		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11205 DST #1 1-12 Schowalter Abercrombie Drilg.

DATE: 02/05/98 TIME: 19:53:18

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	152.2	52.2	122.74		
	26.00	154.0	54.1	122.90		
	27.00	155.9	55.9	123.03		
	28.00	157.8	57.8	123.18		
	29.00	159.6	59.6	123.31		
	30.00	161.4	61.5	123.43		
	31.00	163.3	63.4	123.55		
	32.00	165.0	65.0	123.67		
	33.00	166.8	66.9	123.78		
	34.00	168.6	68.7	123.89		
	35.00	170.3	70.4	123.99		
	36.00	172.1	72.2	124.07		
	37.00	173.8	73.9	124.18		
	38.00	175.6	75.6	124.24		
	39.00	177.2	77.3	124.34		
	40.00	178.9	79.0	124.42		
	41.00	180.7	80.7	124.50		
	42.00	182.5	82.6	124.59		
	43.00	184.3	84.4	124.67		
	44.00	186.1	86.2	124.76		
	45.00	187.8	87.9	124.84		
	46.00	189.6	89.7	124.91		
	47.00	191.4	91.5	125.00		
	48.00	193.0	93.1	125.08		
	49.00	194.7	94.7	125.16		
	50.00	196.4	96.5	125.22		
	51.00	198.1	98.2	125.30		
	52.00	199.7	99.8	125.37		
	53.00	201.4	101.5	125.43		
	54.00	203.1	103.2	125.50		
	55.00	204.8	104.9	125.57		
	56.00	206.5	106.6	125.64		
	57.00	208.3	108.3	125.70		
	58.00	210.1	110.1	125.76		
	59.00	212.0	112.0	125.82		
***** End Flow 2	60.00	213.7	113.7	125.88		
***** Start Shutin 2	0.00	213.7	0.0	125.88	0.0000	0.046
	1.00	673.6	460.0	125.95	90.0000	0.454
	2.00	737.2	523.6	125.99	45.5000	0.544
	3.00	772.3	558.6	125.99	30.6667	0.596
	4.00	796.6	583.0	125.94	23.2500	0.635
	5.00	815.0	601.3	125.87	18.8000	0.664
	6.00	829.6	616.0	125.79	15.8333	0.688
	7.00	841.6	628.0	125.70	13.7143	0.708
	8.00	851.9	638.2	125.62	12.1250	0.726
	9.00	860.6	646.9	125.54	10.8889	0.741
	10.00	868.2	654.6	125.46	9.9000	0.754
	11.00	874.8	661.2	125.39	9.0909	0.765
	12.00	880.7	667.1	125.31	8.4167	0.776
	13.00	886.1	672.4	125.25	7.8462	0.785
	14.00	890.9	677.3	125.18	7.3571	0.794

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11205 DST #1 1-12 Schowalter Abercrombie Drilg.
 DATE: 02/05/98 TIME: 19:53:18

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	15.00	895.3	681.6	125.11	6.9333	0.802
	16.00	899.3	685.6	125.05	6.5625	0.809
	17.00	902.9	689.3	124.99	6.2353	0.815
	18.00	906.3	692.7	124.92	5.9444	0.821
	19.00	909.5	695.8	124.87	5.6842	0.827
	20.00	912.4	698.7	124.82	5.4500	0.832
	21.00	915.1	701.4	124.77	5.2381	0.837
	22.00	917.6	704.0	124.72	5.0455	0.842
	23.00	919.9	706.3	124.68	4.8696	0.846
	24.00	922.2	708.5	124.63	4.7083	0.850
	25.00	924.3	710.6	124.58	4.5600	0.854
	26.00	926.3	712.6	124.54	4.4231	0.858
	27.00	928.2	714.6	124.51	4.2963	0.862
	28.00	930.0	716.3	124.46	4.1786	0.865
	29.00	931.7	718.0	124.43	4.0690	0.868
	30.00	933.3	719.6	124.40	3.9667	0.871
	31.00	934.9	721.2	124.36	3.8710	0.874
	32.00	936.3	722.6	124.33	3.7812	0.877
	33.00	937.8	724.1	124.30	3.6970	0.879
	34.00	939.0	725.4	124.27	3.6176	0.882
	35.00	940.3	726.7	124.24	3.5429	0.884
	36.00	941.6	727.9	124.22	3.4722	0.887
	37.00	942.8	729.2	124.31	3.4054	0.889
	38.00	943.8	730.2	124.03	3.3421	0.891
	39.00	945.0	731.4	124.13	3.2821	0.893
	40.00	946.1	732.4	124.11	3.2250	0.895
	41.00	947.1	733.4	124.08	3.1707	0.897
	42.00	948.0	734.4	124.07	3.1190	0.899
	43.00	949.0	735.3	124.04	3.0698	0.901
	44.00	949.9	736.2	124.03	3.0227	0.902
***** End Shut-in 2	45.00	950.8	737.2	124.00	2.9778	0.904
***** Final Hydro.	307.00	2052.6	0.0	123.93		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11205

Well Name & No. <u>Schewalter 1-12</u>	Test No. <u>1</u>	Date <u>2-5-98</u>
Company <u>Abercrombie</u>	Zone Tested <u>Lansing</u>	
Address <u>Wichita, KS 67202</u>	Elevation <u>2923</u> KB <u>2968</u> GL	
Co. Rep / Geo. <u>John Hastings</u>	Cont. <u>Abie #8</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>12</u> Twp. <u>18</u> Rge. <u>32</u>	Co. <u>Scott</u>	State <u>KS</u>
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>4208'</u> <u>4236'</u>	Initial Str Wt./Lbs. <u>42000</u>	Unseated Str Wt./Lbs. <u>45000</u>
Anchor Length <u>28'</u>	Wt. Set Lbs. <u>32000</u>	Wt. Pulled Loose/Lbs. <u>55000</u>
Top Packer Depth <u>4203'</u> <u>4208'</u>	Tool Weight <u>5000</u>	
Bottom Packer Depth <u>4236'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>4254</u>	Wt. Pipe Run <u>632'</u>	Drill Collar Run <u> </u>
Mud Wt. <u>9.2</u> LCM Trace Vis. <u>49</u> WL <u>10.4</u>	Drill Pipe Size <u>4 1/2 XH.</u>	Ft. Run <u>3567'</u>
Blow Description <u>1/4" @ open, built to 7" in.</u>		
<u>No return</u>		
<u>Surface blow in 2min, built to 5 1/4" in.</u>		
<u>No return.</u>		

Recovery — Total Feet <u>405'</u>	GIP <u> </u>	Ft. in DC <u> </u>	Ft. in DP <u>405'</u>
Rec. <u>45'</u>	Feet Of <u>Drilling mud oil spots</u>	%gas <u> </u>	%oil <u> </u> %water <u>100</u> %mud <u> </u>
Rec. <u>60'</u>	Feet Of <u>Water Cut Mud w/oil spots</u>	%gas <u> </u>	%oil <u>40</u> %water <u>60</u> %mud <u> </u>
Rec. <u>300'</u>	Feet Of <u>Slightly mud cut H₂O water</u>	%gas <u> </u>	%oil <u>90</u> %water <u>10</u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u> %water <u> </u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u> %water <u> </u> %mud <u> </u>

BHT 125' °F Gravity °API D@ °F Corrected Gravity °API

RW .33 @ 65 °F Chlorides 21,500 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud <u>2087</u> <u>2116</u> PSI	Recorder No. <u>11057</u>	T-Started <u>06:55 AM</u>
(B) First Initial Flow Pressure <u>77</u> <u>29</u> PSI	(depth) <u>4251'</u>	T-Open <u>08:58 AM</u>
(C) First Final Flow Pressure <u>100</u> <u>96</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>11:58 AM</u>
(D) Initial Shut-in Pressure <u>975</u> <u>982</u> PSI	(depth) <u>4226'</u>	T-Out <u>12:40 P.M.</u>
(E) Second Initial Flow Pressure <u>133</u> <u>99</u> PSI	Recorder No. <u>2342</u>	
(F) Second Final Flow Pressure <u>200</u> <u>213</u> PSI	(depth) <u>4219'</u>	
(G) Final Shut-in Pressure <u>929</u> <u>950</u> PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>700</u>
(H) Final Hydrostatic Mud <u>2065</u> <u>2052</u> PSI	Initial Shut-in <u>45</u>	Jars <u> </u>
<u>AK-1</u>	Final Flow <u>60</u>	Safety Joint <u> </u>
<u>AK-Pine</u>	Final Shut-in <u>45</u>	Straddle <input checked="" type="checkbox"/> <u>250</u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By

Circ. Sub N/C

Sampler

Extra Packer 150

Elect. Rec. 150

Other

TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Drilg.
 WELL NAME: Schowalter 1-12
 LOCATION : 12-18S-32W Co Scott KS
 INTERVAL : 4366.00 To 4380.00 ft

DATE 2-6-98
 KB 2973.00 ft TICKET NO: 11206 DST #2
 GR 2968.00 ft FORMATION: marmaton
 TD 4380.00 ft TEST TYPE: CONV.

RECORDER DATA

Field	1	2	3	4	TIME DATA-----
Mins					
PF 30 Rec.	11057	11057	2342		PF Fr. 0742 to 0812 hr
SI 45 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0 IS Fr. 0812 to 0857 hr
SF 60 Clock(hrs)	12	12	alpin		SF Fr. 0857 to 0957 hr
FS 45 Depth(ft)	4367.0	4367.0	4372.0	0.0	0.0 FS Fr. 0957 to 1042 hr

Field	1	2	3	4	
A. Init Hydro	2117.0	2099.0	2166.0	0.0	0.0 T STARTED 0525 hr
B. First Flow	100.0	110.0	70.0	0.0	0.0 T ON BOTM 0739 hr
B1. Final Flow	593.0	588.0	660.0	0.0	0.0 T OPEN 0742 hr
C. In Shut-in	1040.0	1020.0	1081.0	0.0	0.0 T PULLED 1042 hr
D. Init Flow	660.0	655.0	676.0	0.0	0.0 T OUT 1410 hr
E. Final Flow	962.0	948.0	1029.0	0.0	0.0
F. Fl Shut-in	1017.0	1002.0	1070.0	0.0	0.0
G. Final Hydro	2106.0	2090.0	2123.0	0.0	0.0
Inside/Outside	i	i	o		

RECOVERY

Tot Fluid 2250.00 ft of 0.00 ft in DC and 2250.00 ft in DP
 90.00 ft of slightly mud cut H2S water 15% mud 85% water
 2040.00 ft of Reversed out {H2S water} 100% water
 120.00 ft of H2S water under circ. sub
 0.00 ft of
 SALINITY 24000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA-----
 Tool Wt. 4000.00 lbs
 Wt Set On Packer 26000.00 lbs
 Wt Pulled Loose 55000.00 lbs
 Initial Str Wt 43000.00 lbs
 Unseated Str Wt 0.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 0.00 in
 D. Pipe ID 3.50 in
 D.C. Length 0.00 ft
 D.P. Length 3721.00 ft
 H.W. I.D 3.40 in
 H.W. Length 632.00 ft

BLOW DESCRIPTION

Initial Flow:
 Bottom of bucket in 2 1/2 mins
 Initial Shut-In:
 Bleed off blow , no return
 Final Flow:
 Bottom of bucket in 3 1/2 mins died
 back to 11" in.
 Final Shut-in:
 Bleed off blow , no return

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/cf
 Vis. 53.00 S/L
 W.L. 10.40 in3
 F.C. 0.00 in
 Mud Drop Y 25.0 ft
 Amt. of fill 0.00 ft
 Btm. H. Temp. 123.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out Y
 Tool Chased N
 Tester Shane McBride
 Co. Rep. John Hastings
 Contr. Abercrombie
 Rig # 8
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Schowalter 1-12

LOCATION : 12-18S-32W Co Scott KS

TICKET No. 11206 D.S.T. No. 2 DATE 2-6-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 14

TOTAL TOOL 34

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 34

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands70 Single 1 Total 4353

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4387

TOTAL DEPTH 4380

TOTAL DRILL PIPE ABOVE K.B. 7

REMARKS:

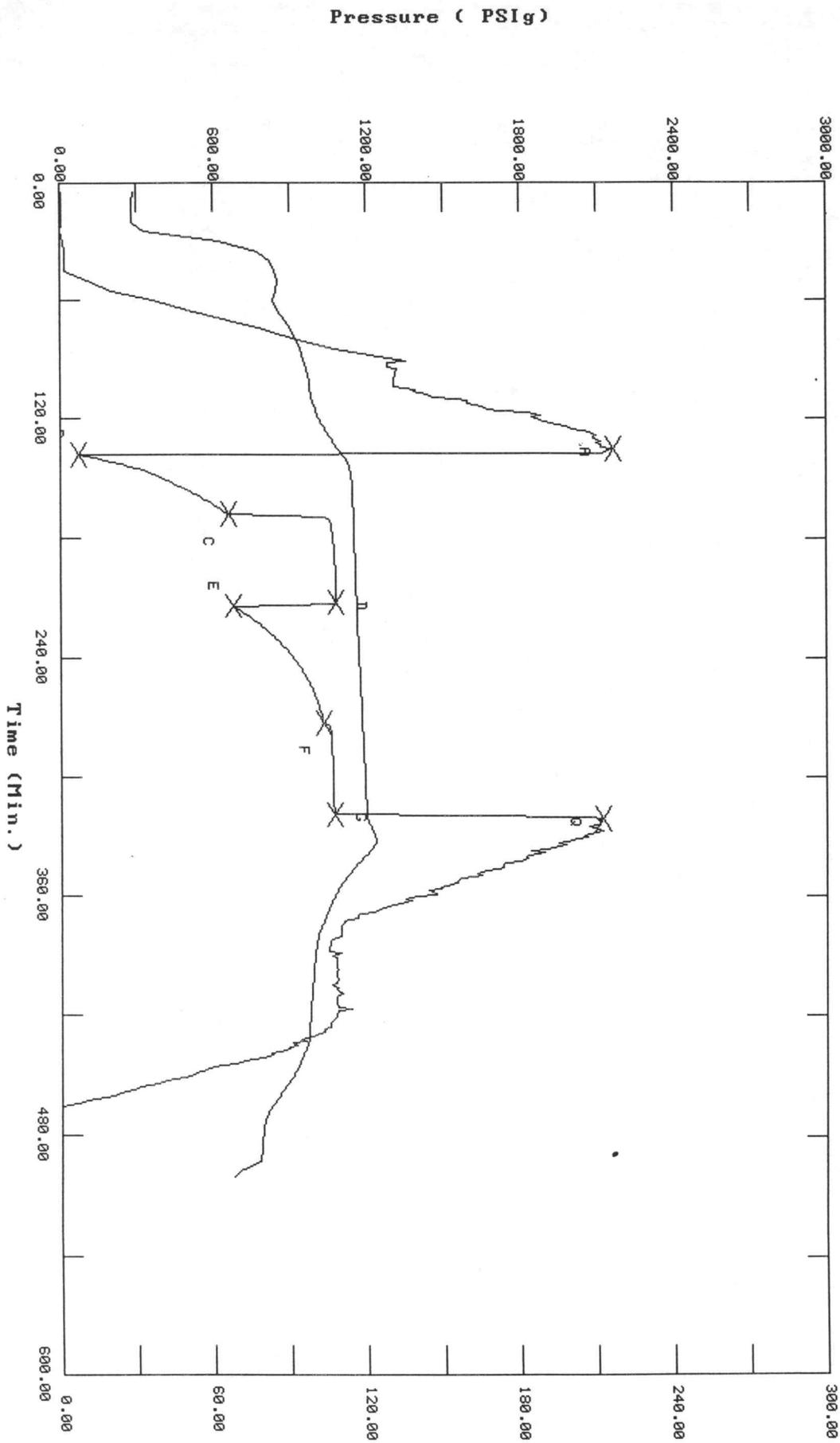
P.O. SUB	
C.O. SUB 1'	4345
S.I. TOOL 5'	4351
HMV 5'	4356
JARS n/a	
SAFETY JOINT n/a	
PACKER top	4361
PACKER bottom	4366
DEPTH 4366	
STUBB 1'	4367
ANCHOR ak-1 recorder	4367
5' perf	4372
alpine recorder	4372
3' perf	4375
T.C. DEPTH	
BULLNOSE 5' bullplug	4380
T.D.	4380

11206 DST#2 Schwalter 1-12 Abercrombie Drilg.

TEST HISTORY

Flag Points

Flag Points	Time (Min.)	Pressure (PSig)
A	0.00	2166.47
B	0.00	70.08
C	30.00	660.80
D	44.00	1081.66
E	0.00	676.42
F	59.00	1029.70
G	46.00	1070.50
H	0.00	2123.51

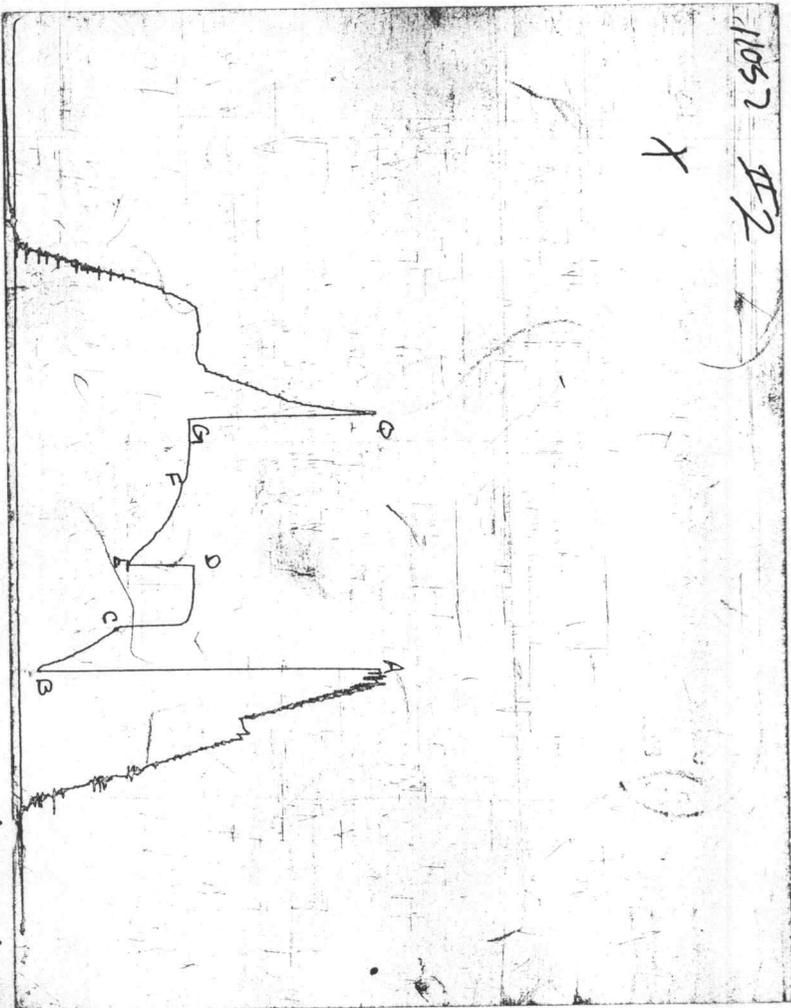


Temperature (DEG F)

Pressure (PSig)

Time (Min.)

CHART PAGE



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

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11206 DST#2 Schowalter 1-12 Abercrombie Drilg.
 DATE: 02/06/98 TIME: 18:23:35

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	135.00	2166.5	0.0	108.42		
***** Start Flow 1	0.00	70.1	0.0	110.48		
	1.00	100.8	30.7	111.14		
	2.00	134.8	64.7	111.72		
	3.00	171.1	101.0	112.21		
	4.00	204.8	134.7	112.59		
	5.00	239.5	169.5	112.92		
	6.00	270.7	200.6	113.18		
	7.00	302.5	232.4	113.40		
	8.00	330.2	260.2	113.59		
	9.00	347.6	277.5	113.76		
	10.00	365.9	295.9	113.90		
	11.00	383.8	313.7	114.02		
	12.00	400.9	330.8	114.13		
	13.00	418.2	348.1	114.23		
	14.00	434.6	364.5	114.31		
	15.00	451.0	380.9	114.38		
	16.00	466.7	396.6	114.44		
	17.00	482.4	412.4	114.49		
	18.00	497.5	427.5	114.55		
	19.00	512.5	442.4	114.59		
	20.00	527.6	457.5	114.64		
	21.00	542.2	472.1	114.66		
	22.00	556.4	486.3	114.70		
	23.00	570.1	500.0	114.73		
	24.00	583.7	513.6	114.76		
	25.00	597.6	527.5	114.78		
	26.00	611.0	540.9	114.80		
	27.00	623.9	553.8	114.83		
	28.00	636.3	566.2	114.85		
	29.00	648.7	578.6	114.87		
***** End Flow 1	30.00	660.8	590.7	114.89		
***** Start Shutin 1	0.00	660.8	0.0	114.89	0.0000	0.437
	1.00	1037.8	377.0	114.91	31.0000	1.077
	2.00	1048.6	387.8	114.97	16.0000	1.099
	3.00	1053.5	392.7	114.98	11.0000	1.110
	4.00	1056.7	395.9	115.01	8.5000	1.117
	5.00	1059.1	398.3	115.04	7.0000	1.122
	6.00	1060.9	400.1	115.08	6.0000	1.126
	7.00	1062.5	401.7	115.10	5.2857	1.129
	8.00	1063.8	403.0	115.13	4.7500	1.132
	9.00	1065.0	404.2	115.16	4.3333	1.134
	10.00	1066.1	405.3	115.18	4.0000	1.137
	11.00	1067.0	406.2	115.21	3.7273	1.139
	12.00	1067.9	407.1	115.24	3.5000	1.140
	13.00	1068.7	407.9	115.26	3.3077	1.142
	14.00	1069.4	408.6	115.28	3.1429	1.144
	15.00	1070.2	409.4	115.31	3.0000	1.145
	16.00	1070.9	410.1	115.33	2.8750	1.147
	17.00	1071.5	410.7	115.36	2.7647	1.148
	18.00	1072.1	411.3	115.38	2.6667	1.149

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11206 DST#2 Schowalter 1-12 Abercrombie Drilg.

DATE: 02/06/98 TIME: 18:23:35

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
19.00	1072.7	411.9	115.40	2.5789	1.151
20.00	1073.3	412.5	115.43	2.5000	1.152
21.00	1073.8	413.0	115.45	2.4286	1.153
22.00	1074.2	413.4	115.47	2.3636	1.154
23.00	1074.7	413.9	115.49	2.3043	1.155
24.00	1075.2	414.4	115.53	2.2500	1.156
25.00	1075.6	414.8	115.56	2.2000	1.157
26.00	1076.1	415.3	115.58	2.1538	1.158
27.00	1076.4	415.6	115.62	2.1111	1.159
28.00	1076.8	416.0	115.64	2.0714	1.160
29.00	1077.2	416.4	115.66	2.0345	1.160
30.00	1077.6	416.8	115.69	2.0000	1.161
31.00	1078.0	417.2	115.72	1.9677	1.162
32.00	1078.3	417.5	115.75	1.9375	1.163
33.00	1078.6	417.8	115.78	1.9091	1.163
34.00	1079.0	418.2	115.81	1.8824	1.164
35.00	1079.3	418.4	115.84	1.8571	1.165
36.00	1079.6	418.8	115.87	1.8333	1.165
37.00	1079.8	419.0	115.90	1.8108	1.166
38.00	1080.2	419.4	115.93	1.7895	1.167
39.00	1080.4	419.6	115.98	1.7692	1.167
40.00	1080.7	419.9	115.99	1.7500	1.168
41.00	1080.9	420.1	116.03	1.7317	1.168
42.00	1081.2	420.4	116.05	1.7143	1.169
43.00	1081.4	420.6	116.08	1.6977	1.169
44.00	1081.7	420.9	116.12	1.6818	1.170
0.00	676.4	0.0	116.18		
1.00	688.7	12.3	116.20		
2.00	700.9	24.5	116.22		
3.00	712.6	36.2	116.18		
4.00	724.1	47.7	116.26		
5.00	735.1	58.6	116.28		
6.00	745.2	68.8	116.31		
7.00	756.0	79.6	116.34		
8.00	766.4	90.0	116.37		
9.00	776.4	100	116.41		
10.00	785.9	109.4	116.44		
11.00	795.7	119.3	116.47		
12.00	805.2	128.8	116.50		
13.00	814.3	137.8	116.54		
14.00	822.8	146.3	116.59		
15.00	831.3	154.9	116.61		
16.00	839.3	162.9	116.65		
17.00	847.8	171.3	116.71		
18.00	855.9	179.5	116.73		
19.00	863.5	187.1	116.77		
20.00	871.0	194.5	116.81		
21.00	877.8	201.4	116.85		
22.00	884.9	208.5	116.90		
23.00	891.6	215.1	116.92		
24.00	898.3	221.8	116.97		

***** End Shut-in 1

***** Start Flow 2

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11206 DST#2 Schowalter 1-12 Abercrombie Drilg.
 DATE: 02/06/98 TIME: 18:23:35

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
25.00	904.5	228.1	117.00		
26.00	910.6	234.2	117.04		
27.00	916.3	239.8	117.09		
28.00	922.5	246.0	117.12		
29.00	928.1	251.7	117.16		
30.00	933.8	257.4	117.20		
31.00	939.1	262.6	117.25		
32.00	944.2	267.8	117.28		
33.00	949.2	272.7	117.33		
34.00	953.8	277.4	117.36		
35.00	958.6	282.1	117.40		
36.00	963.1	286.6	117.44		
37.00	967.4	291.0	117.47		
38.00	971.9	295.5	117.51		
39.00	975.8	299.4	117.55		
40.00	979.7	303.3	117.59		
41.00	983.4	307.0	117.63		
42.00	987.0	310.6	117.67		
43.00	990.3	313.8	117.70		
44.00	993.4	317.0	117.75		
45.00	996.9	320.5	117.78		
46.00	999.8	323.4	117.82		
47.00	1002.7	326.2	117.87		
48.00	1005.4	329.0	117.90		
49.00	1008.0	331.6	117.94		
50.00	1010.9	334.5	117.97		
51.00	1013.3	336.9	118.01		
52.00	1015.6	339.2	118.04		
53.00	1017.8	341.4	118.08		
54.00	1020.0	343.5	118.12		
55.00	1022.0	345.6	118.16		
56.00	1024.3	347.9	118.20		
57.00	1026.2	349.8	118.24		
58.00	1028.0	351.5	118.27		
59.00	1029.7	353.3	118.32		
***** End Flow 2					
***** Start Shutin 2	0.00	1029.7	0.0	118.32	0.0000 1.060
	1.00	1050.8	21.1	118.36	90.0000 1.104
	2.00	1056.5	26.8	118.41	45.5000 1.116
	3.00	1057.8	28.1	118.41	30.6667 1.119
	4.00	1058.7	29.0	118.42	23.2500 1.121
	5.00	1059.4	29.7	118.45	18.8000 1.122
	6.00	1059.8	30.1	118.50	15.8333 1.123
	7.00	1060.4	30.7	118.54	13.7143 1.125
	8.00	1061.0	31.3	118.58	12.1250 1.126
	9.00	1061.4	31.7	118.62	10.8889 1.127
	10.00	1061.8	32.1	118.65	9.9000 1.127
	11.00	1062.2	32.5	118.69	9.0909 1.128
	12.00	1062.6	32.9	118.73	8.4167 1.129
	13.00	1062.9	33.2	118.76	7.8462 1.130
	14.00	1063.2	33.5	118.78	7.3571 1.130
	15.00	1063.6	33.9	118.83	6.9333 1.131

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11206 DST#2 Schowalter 1-12 Abercrombie Drilg.

DATE: 02/06/98 TIME: 18:23:35

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
	16.00	1063.9	34.2	118.87	6.5625	1.132	
	17.00	1064.2	34.4	118.90	6.2353	1.132	
	18.00	1064.5	34.8	118.93	5.9444	1.133	
	19.00	1064.8	35.1	118.97	5.6842	1.134	
	20.00	1065.1	35.4	119.00	5.4500	1.134	
	21.00	1065.4	35.7	119.03	5.2381	1.135	
	22.00	1065.6	35.9	119.07	5.0455	1.136	
	23.00	1065.9	36.2	119.10	4.8696	1.136	
	24.00	1066.1	36.4	119.13	4.7083	1.137	
	25.00	1066.4	36.7	119.18	4.5600	1.137	
	26.00	1066.6	36.9	119.20	4.4231	1.138	
	27.00	1066.9	37.2	119.24	4.2963	1.138	
	28.00	1067.2	37.5	119.27	4.1786	1.139	
	29.00	1067.3	37.6	119.31	4.0690	1.139	
	30.00	1067.6	37.9	119.34	3.9667	1.140	
	31.00	1067.7	38.0	119.37	3.8710	1.140	
	32.00	1068.0	38.3	119.41	3.7812	1.141	
	33.00	1068.2	38.5	119.44	3.6970	1.141	
	34.00	1068.4	38.7	119.48	3.6176	1.141	
	35.00	1068.6	38.9	119.52	3.5429	1.142	
	36.00	1068.7	39.0	119.53	3.4722	1.142	
	37.00	1069.0	39.3	119.57	3.4054	1.143	
	38.00	1069.2	39.5	119.60	3.3421	1.143	
	39.00	1069.3	39.6	119.64	3.2821	1.143	
	40.00	1069.5	39.8	119.67	3.2250	1.144	
	41.00	1069.7	40.0	119.71	3.1707	1.144	
	42.00	1069.8	40.1	119.74	3.1190	1.145	
	43.00	1070.1	40.4	119.77	3.0698	1.145	
	44.00	1070.2	40.5	119.81	3.0227	1.145	
	45.00	1070.3	40.6	119.83	2.9778	1.146	
*****	End Shut-in 2	46.00	1070.5	40.8	119.87	2.9348	1.146
*****	Final Hydro.	321.00	2123.5	0.0	120.04		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11206

Well Name & No. <u>Schwalter 1-12</u>	Test No. <u>2</u>	Date <u>2-6-98</u>
Company <u>Abercrombie Drilg.</u>	Zone Tested <u>marmaton</u>	
Address <u>Wichita KS 67202</u>	Elevation <u>2973</u> KB <u>2968</u> GL	
Co. Rep / Geo. <u>John Hastings</u>	Cont. <u>Abie #8</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>12</u>	Twp. <u>18E</u>	Rge. <u>32W</u> Co. <u>Scott</u> State <u>KS</u>
No. of Copies <u>Not</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) _____

Interval Tested <u>4366</u>	<u>4380</u>	Initial Str Wt./Lbs. <u>43,000</u>	Unseated Str Wt./Lbs. <u>53,000</u>
Anchor Length _____	<u>14</u>	Wt. Set Lbs. <u>26,000</u>	Wt. Pulled Loose/Lbs. <u>65,000</u>
Top Packer Depth _____	<u>4361</u>	Tool Weight <u>4,000</u>	
Bottom Packer Depth _____	<u>4366</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth _____	<u>4380</u>	Wt. Pipe Run <u>632'</u>	Drill Collar Run _____
Mud Wt. <u>9.2</u> LCM _____	Vis. <u>53</u> WL <u>10.4</u>	Drill Pipe Size <u>4 1/2 X 14</u>	Ft. Run <u>3721'</u>

Blow Description B.O.B in 2 1/2 min.
Bleed off blow for 1/2 min, No return
B.O.B in 3 1/2 min, died back to 11" inc.
Bleed off blow for 1/2 min, No return

Recovery — Total Feet <u>2250</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>2250'</u>
Rec. <u>90'</u>	Feet Of <u>slightly mud cont H₂O water</u>	%gas <u>sum</u>	%oil <u>85</u> %water <u>15</u> %mud _____
Rec. <u>2040'</u>	Feet Of <u>Reversed out (H₂O water)</u>	%gas _____	%oil _____ %water <u>100</u> %mud _____
Rec. <u>120'</u>	Feet Of <u>H₂O water (under circ. sub)</u>	%gas _____	%oil _____ %water <u>100</u> %mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____

BHT 123° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW .28 @ 72 °F Chlorides 24,000 ppm Recovery Chlorides 3,000 ppm System

(A) Initial Hydrostatic Mud <u>2117</u>	<u>2166</u> PSI	Recorder No. <u>2342</u>	T-Started <u>05:25 AM.</u>
(B) First Initial Flow Pressure <u>100</u>	<u>70</u> PSI	(depth) <u>4372'</u>	T-Open <u>07:42 AM.</u>
(C) First Final Flow Pressure <u>593</u>	<u>660</u> PSI	Recorder No. <u>11097</u>	T-Pulled <u>10:42 AM.</u>
(D) Initial Shut-in Pressure <u>1040</u>	<u>1081</u> PSI	(depth) <u>4367'</u>	T-Out <u>14:10 P.M.</u>
(E) Second Initial Flow Pressure <u>660</u>	<u>676</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>962</u>	<u>1029</u> PSI	(depth) _____	
(G) Final Shut-in Pressure <u>1017</u>	<u>1070</u> PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>700</u>
(H) Final Hydrostatic Mud <u>2106</u>	<u>2123</u> PSI	Initial Shut-in <u>45</u>	Jars _____
<u>AK-1</u>	<u>ALPINE</u>	Final Flow <u>60</u>	Safety Joint _____
		Final Shut-in <u>45</u>	Straddle _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By John Hastings

Circ. Sub X 35⁰⁰
 Sampler _____
 Extra Packer _____
 Elect. Rec. X 150
 Other _____
88500

TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Drilg. DATE 2-7-98
 WELL NAME: Schlwalter 1-12 KB 2973.00 ft TICKET NO: 11207 DST #3
 LOCATION : 12-18S-32W Co Scott KS GR 2968.00 ft FORMATION: cherokee
 INTERVAL : 4537.00 To 4561.00 ft TD 4561.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	11057	11057	2342		PF Fr. 0935 to 1005 hr
SI 45	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0 IS Fr. 1005 to 1050 hr
SF 60	Clock(hrs)	12	12	alpin		SF Fr. 1050 to 1150 hr
FS 45	Depth(ft)	4556.0	4556.0	4539.0	0.0	0.0 FS Fr. 1150 to 1235 hr

	Field	1	2	3	4	
A. Init Hydro	2219.0	2218.0	2239.0	0.0	0.0	T STARTED 0735 hr
B. First Flow	123.0	117.0	63.0	0.0	0.0	T ON BOTM 0930 hr
B1. Final Flow	280.0	276.0	291.0	0.0	0.0	T OPEN 0935 hr
C. In Shut-in	1107.0	1104.0	1112.0	0.0	0.0	T PULLED 1235 hr
D. Init Flow	358.0	357.0	306.0	0.0	0.0	T OUT 1620 hr
E. Final Flow	549.0	550.0	555.0	0.0	0.0	
F. Fl Shut-in	1062.0	1067.0	1081.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2208.0	2214.0	2217.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 43000.00 lbs
						Unseated Str Wt 49000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.50 in
						D.C. Length 0.00 ft
						D.P. Length 0.00 ft
						H.W. I.D 3.40 in
						H.W. Length 632.00 ft

RECOVERY

Tot Fluid 1580.00 ft of 0.00 ft in DC and 1580.00 ft in DP
 1425.00 ft of Clean gassy oil 30% gas 70% oil
 155.00 ft of mud cut gassy oil 25% gas 40%oil 35%mud
 0.00 ft of
 0.00 ft of
 2665.00 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 30.00

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	52.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft

BLOW DESCRIPTION

Initial Flow:
 Bottom of bucket in 2 min
 Initial Shut-in:
 Return in 1/2 min built to bottom of
 bucket in 14 min
 Final Flow:
 Bottom of bucket at open
 Final Shut-in:
 Return immed. built to bottom of
 bucket in

Amt. of fill	0.00 ft
Btm. H. Temp.	136.00 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	Shane McBride
Co. Rep.	John Hastings
Contr.	Abie
Rig #	8
Unit #	
Pump T.	

SAMPLES:
 SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Schlwalter 1-12

LOCATION : 12-18S-32W Co Scott KS

TICKET No. 11207 D.S.T. No. 3 DATE 2-7-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

TOTAL PACKERS AND ANCHOR 24

TOTAL TOOL 44

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 44

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands 73 Single 1 Total 4538

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4582

TOTAL DEPTH 4561

TOTAL DRILL PIPE ABOVE K.B. 21

REMARKS:

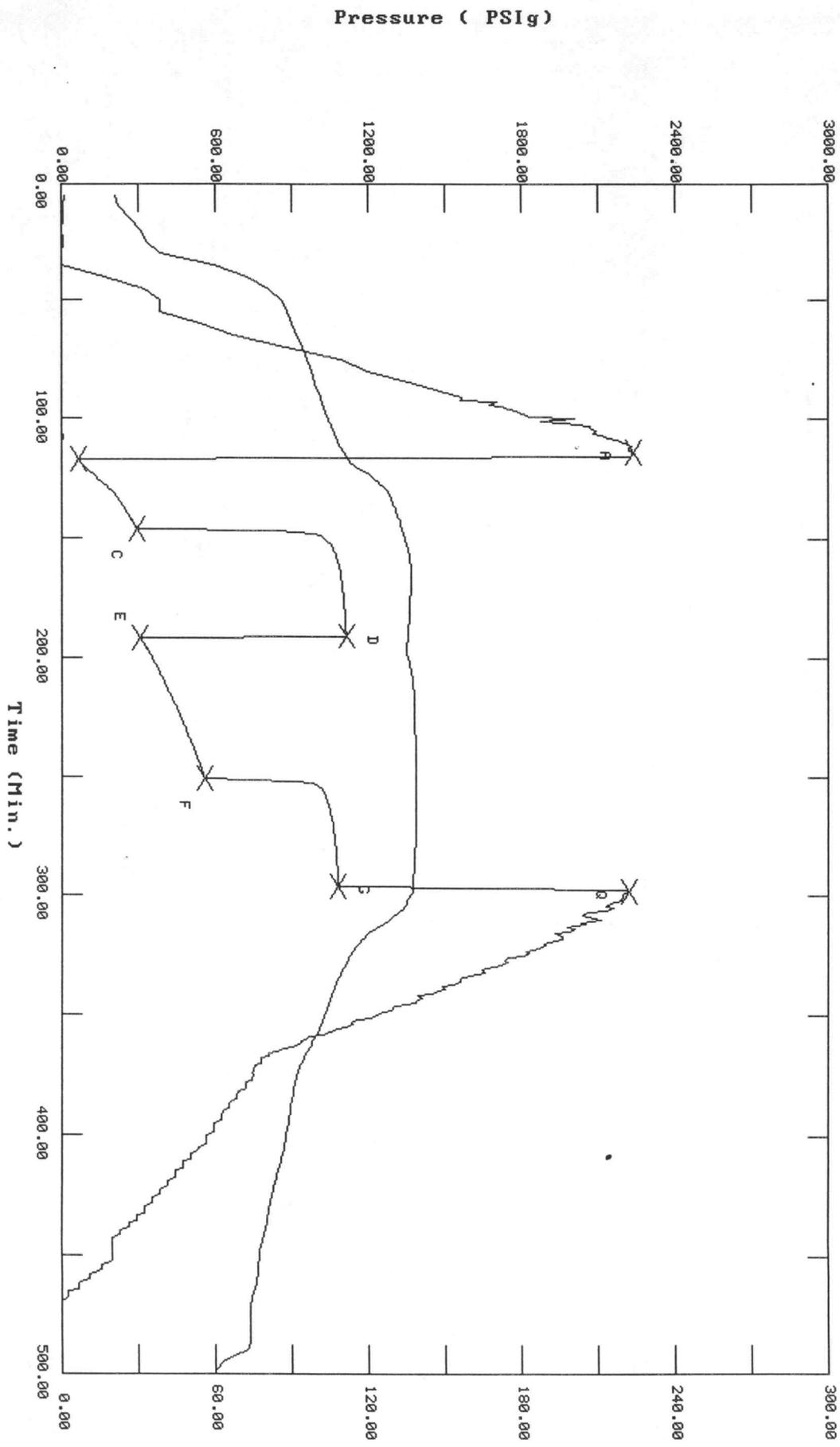
P.O. SUB	
C.O. SUB 1'	4516
S.I. TOOL 5'	4522
HMV 5'	4527
JARS	
SAFETY JOINT	
PACKER top	4532
PACKER bottom	4537
DEPTH 4537	
STUBB 1'	4538
ANCHOR 1' perf	4539
alpine recorder	4539
17' perf	4556
ak-1 recorder	4556
T.C.	
DEPTH	
BULLNOSE 5' bullplug	4561
T.D.	4561

11207 DST#3 Schwalter 1-12 Abercrombie Drilg.

TEST HISTORY

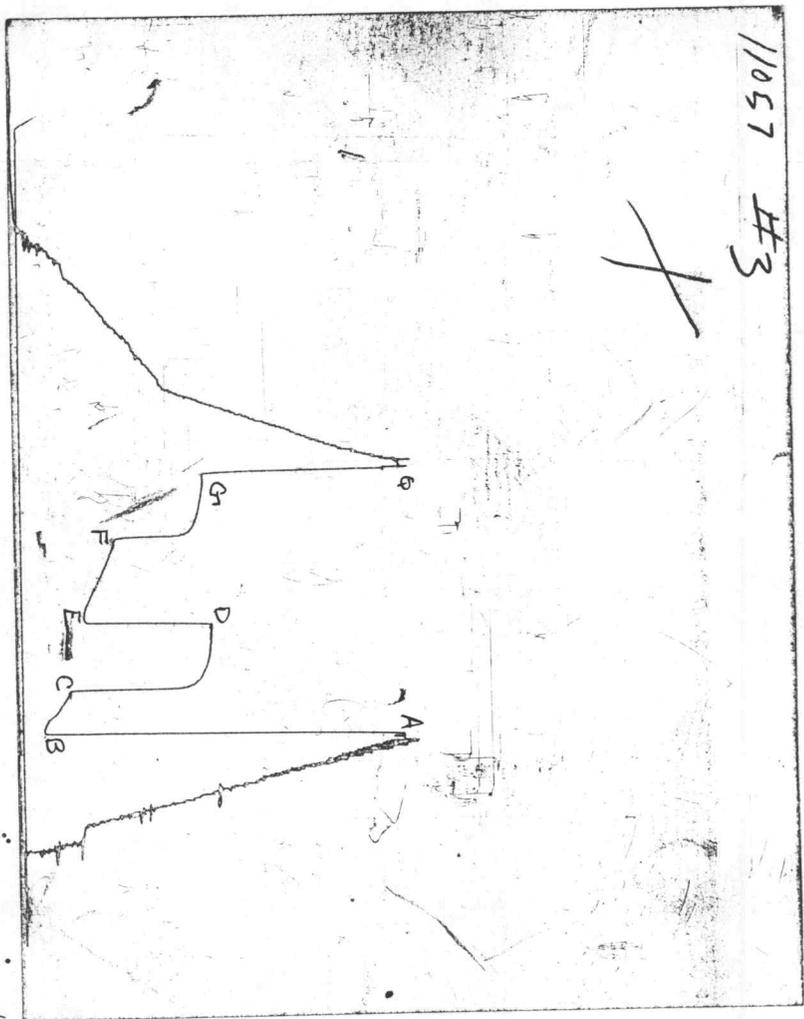
Flag Points

t(Min.)	P(PSig)
A: 0.00	2239.43
B: 0.00	63.33
C: 29.00	291.08
D: 45.00	1112.84
E: 0.00	306.68
F: 59.00	555.30
G: 45.00	1081.98
H: 0.00	2217.64



Temperature (DEG F)

CHART PAGE



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

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11207 DST#3 Schowalter 1-12 Abercrombie Drilg.

DATE: 02/07/98 TIME: 20:34:23

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	114.00	2239.4	0.0	110.58		
***** Start Flow 1	0.00	63.3	0.0	112.22		
	1.00	72.3	9.0	112.89		
	2.00	75.9	12.5	113.80		
	3.00	85.8	22.5	115.04		
	4.00	96.7	33.3	116.56		
	5.00	107.3	44.0	118.17		
	6.00	117.5	54.2	119.66		
	7.00	127.8	64.4	120.99		
	8.00	138.4	75.1	122.17		
	9.00	149.3	86.0	123.32		
	10.00	159.0	95.7	124.42		
	11.00	169.6	106.3	125.42		
	12.00	179.6	116.3	126.30		
	13.00	189.1	125.8	127.04		
	14.00	199.7	136.4	127.68		
	15.00	210.2	146.9	128.21		
	16.00	213.8	150.5	128.65		
	17.00	219.3	156.0	129.04		
	18.00	225.0	161.7	129.40		
	19.00	230.4	167.1	129.75		
	20.00	236.0	172.7	130.10		
	21.00	241.7	178.4	130.48		
	22.00	247.6	184.3	130.85		
	23.00	254.2	190.9	131.21		
	24.00	260.3	197.0	131.57		
	25.00	266.8	203.4	131.92		
	26.00	272.9	209.5	132.24		
	27.00	279.2	215.9	132.55		
	28.00	285.1	221.7	132.83		
***** End Flow 1	29.00	291.1	227.7	133.08		
***** Start Shutin 1	0.00	291.1	0.0	133.08	0.0000	0.085
	1.00	843.8	552.7	133.34	30.0000	0.712
	2.00	983.5	692.4	133.61	15.5000	0.967
	3.00	1011.6	720.5	133.90	10.6667	1.023
	4.00	1027.2	736.1	134.22	8.2500	1.055
	5.00	1038.0	746.9	134.53	6.8000	1.077
	6.00	1046.2	755.1	134.82	5.8333	1.094
	7.00	1052.9	761.8	135.10	5.1429	1.109
	8.00	1058.5	767.4	135.37	4.6250	1.120
	9.00	1063.4	772.4	135.70	4.2222	1.131
	10.00	1067.7	776.6	135.82	3.9000	1.140
	11.00	1071.3	780.2	136.00	3.6364	1.148
	12.00	1074.5	783.4	136.16	3.4167	1.155
	13.00	1077.4	786.3	136.30	3.2308	1.161
	14.00	1080.0	789.0	136.40	3.0714	1.166
	15.00	1082.4	791.3	136.48	2.9333	1.172
	16.00	1084.6	793.5	136.56	2.8125	1.176
	17.00	1086.6	795.5	136.60	2.7059	1.181
	18.00	1088.5	797.4	136.64	2.6111	1.185
	19.00	1090.2	799.1	136.65	2.5263	1.189

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11207 DST#3 Schowalter 1-12 Abercrombie Drilg.

DATE: 02/07/98 TIME: 20:34:23

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	20.00	1091.7	800.7	136.67	2.4500	1.192
	21.00	1093.2	802.1	136.65	2.3810	1.195
	22.00	1094.6	803.5	136.64	2.3182	1.198
	23.00	1095.9	804.8	136.61	2.2609	1.201
	24.00	1097.1	806.0	136.58	2.2083	1.204
	25.00	1098.3	807.2	136.55	2.1600	1.206
	26.00	1099.3	808.2	136.50	2.1154	1.209
	27.00	1100.3	809.2	136.46	2.0741	1.211
	28.00	1101.3	810.2	136.40	2.0357	1.213
	29.00	1102.2	811.1	136.36	2.0000	1.215
	30.00	1103.2	812.1	136.31	1.9667	1.217
	31.00	1104.0	812.9	136.31	1.9355	1.219
	32.00	1104.8	813.7	136.20	1.9062	1.221
	33.00	1105.5	814.4	136.16	1.8788	1.222
	34.00	1106.3	815.2	136.11	1.8529	1.224
	35.00	1107.0	815.9	136.06	1.8286	1.225
	36.00	1107.7	816.6	136.01	1.8056	1.227
	37.00	1108.3	817.2	135.95	1.7838	1.228
	38.00	1108.9	817.8	135.91	1.7632	1.230
	39.00	1109.5	818.5	135.86	1.7436	1.231
	40.00	1110.1	819.0	135.82	1.7250	1.232
	41.00	1110.8	819.7	135.76	1.7073	1.234
	42.00	1111.3	820.2	135.72	1.6905	1.235
	43.00	1111.8	820.7	135.67	1.6744	1.236
	44.00	1112.3	821.2	135.63	1.6591	1.237
***** End Shut-in 1	45.00	1112.8	821.8	135.57	1.6444	1.238
***** Start Flow 2	0.00	306.7	0.0	135.52		
	1.00	310.7	4.1	135.42		
	2.00	316.6	9.9	135.21		
	3.00	321.9	15.2	135.01		
	4.00	327.5	20.8	134.92		
	5.00	332.8	26.1	134.94		
	6.00	338.3	31.6	135.04		
	7.00	343.7	37.0	135.21		
	8.00	349.1	42.4	135.42		
	9.00	354.4	47.7	135.65		
	10.00	359.6	53.0	135.87		
	11.00	364.9	58.2	136.09		
	12.00	370.0	63.3	136.30		
	13.00	375.1	68.4	136.52		
	14.00	380.1	73.4	136.71		
	15.00	384.6	77.9	136.89		
	16.00	388.9	82.2	137.05		
	17.00	393.3	86.6	137.20		
	18.00	397.4	90.7	137.33		
	19.00	401.7	95.0	137.45		
	20.00	406.0	99.3	137.54		
	21.00	410.3	103.6	137.62		
	22.00	414.7	108.1	137.69		
	23.00	419.4	112.8	137.76		
	24.00	424.1	117.4	137.81		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11207 DST#3 Schowalter 1-12 Abercrombie Drilg.
 DATE: 02/07/98 TIME: 20:34:23

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	428.6	121.9	137.83		
	26.00	433.2	126.5	137.89		
	27.00	437.4	130.7	137.92		
	28.00	441.6	134.9	137.95		
	29.00	446.0	139.3	137.97		
	30.00	449.9	143.3	138.00		
	31.00	454.0	147.3	138.03		
	32.00	457.8	151.2	138.07		
	33.00	461.8	155.1	138.10		
	34.00	465.9	159.2	138.13		
	35.00	469.8	163.1	138.15		
	36.00	473.8	167.1	138.17		
	37.00	477.6	170.9	138.19		
	38.00	481.5	174.9	138.20		
	39.00	485.4	178.7	138.22		
	40.00	489.2	182.5	138.23		
	41.00	493.0	186.4	138.25		
	42.00	496.8	190.1	138.27		
	43.00	500.5	193.8	138.28		
	44.00	504.3	197.6	138.27		
	45.00	508.2	201.5	138.28		
	46.00	511.6	204.9	138.27		
	47.00	515.2	208.6	138.28		
	48.00	518.7	212.0	138.28		
	49.00	522.1	215.4	138.27		
	50.00	525.6	218.9	138.26		
	51.00	529.0	222.3	138.28		
	52.00	532.3	225.7	138.28		
	53.00	535.8	229.1	138.28		
	54.00	539.2	232.5	138.30		
	55.00	542.7	236.0	138.29		
	56.00	545.9	239.2	138.29		
	57.00	549.0	242.3	138.29		
	58.00	552.2	245.5	138.28		
*****	End Flow 2	59.00	555.3	248.6	138.29	
*****	Start Shutin 2	0.00	555.3	0.0	138.29	0.308
		1.00	906.4	351.1	138.27	89.0000
		2.00	983.3	428.0	138.28	45.0000
		3.00	1001.2	445.9	138.32	30.3333
		4.00	1011.4	456.1	138.37	23.0000
		5.00	1018.6	463.3	138.41	18.6000
		6.00	1024.3	469.0	138.47	15.6667
		7.00	1029.1	473.8	138.52	13.5714
		8.00	1033.1	477.8	138.57	12.0000
		9.00	1036.7	481.4	138.61	10.7778
		10.00	1039.8	484.5	138.64	9.8000
		11.00	1042.7	487.4	138.67	9.0000
		12.00	1045.2	489.9	138.68	8.3333
		13.00	1047.5	492.2	138.70	7.7692
		14.00	1049.7	494.4	138.71	7.2857
		15.00	1051.7	496.4	138.72	6.8667

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11207 DST#3 Schowalter 1-12 Abercrombie Drilg.

DATE: 02/07/98 TIME: 20:34:23

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
	16.00	1053.5	498.2	138.72	6.5000	1.110	
	17.00	1055.2	499.9	138.69	6.1765	1.113	
	18.00	1056.8	501.5	138.69	5.8889	1.117	
	19.00	1058.3	503.0	138.68	5.6316	1.120	
	20.00	1059.8	504.5	138.66	5.4000	1.123	
	21.00	1061.2	505.9	138.62	5.1905	1.126	
	22.00	1062.4	507.1	138.58	5.0000	1.129	
	23.00	1063.7	508.4	138.53	4.8261	1.131	
	24.00	1064.9	509.6	138.49	4.6667	1.134	
	25.00	1066.0	510.7	138.44	4.5200	1.136	
	26.00	1067.1	511.8	138.39	4.3846	1.139	
	27.00	1068.1	512.8	138.33	4.2593	1.141	
	28.00	1069.2	513.9	138.28	4.1429	1.143	
	29.00	1070.0	514.7	138.22	4.0345	1.145	
	30.00	1070.9	515.6	138.16	3.9333	1.147	
	31.00	1071.8	516.5	138.09	3.8387	1.149	
	32.00	1072.7	517.4	138.05	3.7500	1.151	
	33.00	1073.5	518.2	138.00	3.6667	1.152	
	34.00	1074.3	519.0	137.92	3.5882	1.154	
	35.00	1075.1	519.8	137.88	3.5143	1.156	
	36.00	1075.9	520.6	137.82	3.4444	1.158	
	37.00	1076.6	521.3	137.76	3.3784	1.159	
	38.00	1077.4	522.1	137.71	3.3158	1.161	
	39.00	1078.1	522.8	137.68	3.2564	1.162	
	40.00	1078.9	523.6	137.61	3.2000	1.164	
	41.00	1079.4	524.1	137.56	3.1463	1.165	
	42.00	1080.2	524.9	137.50	3.0952	1.167	
	43.00	1080.7	525.4	137.46	3.0465	1.168	
	44.00	1081.4	526.1	137.40	3.0000	1.169	
*****	End Shut-in 2	45.00	1082.0	526.7	137.37	2.9556	1.171
*****	Final Hydro.	298.00	2217.6	0.0	137.12		