

WELL NAME: Huseman #1
COMPANY: Abercrombie Drilling
LOCATION: Sec. 10 Twp. 18s Rge. 30w
Lane County Kansas
DATE: 11-4-96

TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Drilling DATE 10-31-96
 WELL NAME: #1 Huseman KB 2867.00 ft TICKET NO: 9549 DST #1
 LOCATION : 10-18s-30w Lane KS GR 2862.00 ft FORMATION: Marmaton-Pawnee
 INTERVAL : 4367.00 To 4440.00 ft TD 4440.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2341			PF Fr. 1643 to 1713 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1713 to 1813 hr
SF 45 Clock(hrs)	12	12	elec.			SF Fr. 1813 to 1858 hr
FS 60 Depth(ft)	4435.0	4435.0	4374.0	0.0	0.0	FS Fr. 1858 to 1958 hr

	Field	1	2	3	4	
A. Init Hydro	2322.0	2322.0	2196.0	0.0	0.0	T STARTED 1458 hr
B. First Flow	77.0	79.0	25.0	0.0	0.0	T ON BOTM 1640 hr
B1. Final Flow	100.0	90.0	56.0	0.0	0.0	T OPEN 1643 hr
C. In Shut-in	1208.0	1212.0	1180.0	0.0	0.0	T PULLED 1958 hr
D. Init Flow	122.0	118.0	58.0	0.0	0.0	T OUT 2220 hr
E. Final Flow	144.0	140.0	106.0	0.0	0.0	
F. Fl Shut-in	1197.0	1186.0	1159.0	0.0	0.0	
G. Final Hydro	2278.0	2325.0	2182.0	0.0	0.0	TOOL DATA-----
Inside/Outside	I	I	O			Tool Wt. 5000.00 lbs

RECOVERY

Tot Fluid 270.00 ft of 0.00 ft in DC and 270.00 ft in DP
 20.00 ft of clean gassy oil 15g 85o
 70.00 ft of gassy oil and water cut mud 10g 25o 20w 45m
 60.00 ft of slightly oil cut muddy water 10o 40m 50w
 120.00 ft of muddy water trace oil 50w 50m
 0.00 ft of
 0.00 ft of 150' GIP
 0.00 ft of
 0.00 ft of
 SALINITY 27000.00 P.P.M. A.P.I. Gravity 36.00

Wt Set On Packer 27000.00 lbs
 Wt Pulled Loose 53000.00 lbs
 Initial Str Wt 48000.00 lbs
 Unseated Str Wt 49000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 0.00 ft
 D.P. Length 4356.00 ft
 H.W. I.D 2.70 in
 H.W. Length 567.00 ft

MUD DATA-----

Mud Type Chem
 Weight 9.40 lb/cf
 Vis. 56.00 S/L
 W.L. 9.60 in3
 F.C. 0.00 in
 Mud Drop Y 25.0 ft

BLOW DESCRIPTION

Initial Flow -
 1/2" at open - built to 4-1/4"
 Initial Shut-in -
 Bleed off blow - no return
 Final Flow -
 Bubble to open tool - weak surface
 blow in 10 min. Built to 1/2"
 Final Shut-in -
 Bleed off blow - no return

Amt. of fill 0.00 ft
 Btm. H. Temp. 122.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Shane McBride
 Co. Rep. Brad Rein
 Contr. Abercrombie
 Rig # 8
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9549 DST #1 Huseman #1 Abercrombie Drilling

DATE: 10/31/96

TIME: 15:59:03

	Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	103.00	2197.0	0.0	111.94		
***** Start Flow 1	0.00	25.5	0.0	112.33		
	1.00	27.4	1.9	112.48		
	2.00	30.3	4.8	112.60		
	3.00	32.8	7.3	112.68		
	4.00	34.7	9.2	112.77		
	5.00	34.7	9.2	112.86		
	6.00	34.7	9.2	112.93		
	7.00	35.7	10.2	112.99		
	8.00	30.4	4.9	113.04		
	9.00	31.1	5.6	113.08		
	10.00	32.0	6.5	113.12		
	11.00	33.2	7.7	113.16		
	12.00	34.3	8.8	113.20		
	13.00	35.8	10.3	113.23		
	14.00	37.1	11.6	113.26		
	15.00	38.3	12.8	113.29		
	16.00	39.6	14.1	113.32		
	17.00	41.0	15.5	113.34		
	18.00	41.9	16.4	113.37		
	19.00	43.0	17.5	113.40		
	20.00	44.1	18.6	113.42		
	21.00	45.1	19.6	113.44		
	22.00	46.7	21.1	113.48		
	23.00	47.4	21.9	113.50		
	24.00	48.8	23.3	113.53		
	25.00	49.9	24.4	113.55		
	26.00	51.2	25.7	113.58		
	27.00	52.3	26.8	113.60		
	28.00	53.5	28.0	113.63		
	29.00	54.5	29.0	113.66		
***** End Flow 1	30.00	56.6	31.1	113.69		
***** Start Shutin 1	0.00	56.6	0.0	113.69	0.0000	0.003
	1.00	183.5	127.0	113.73	31.0000	0.034
	2.00	723.6	667.1	113.79	16.0000	0.524
	3.00	944.6	888.0	113.87	11.0000	0.892
	4.00	1001.5	944.9	113.93	8.5000	1.003
	5.00	1027.2	970.6	113.99	7.0000	1.055
	6.00	1043.9	987.3	114.06	6.0000	1.090
	7.00	1056.5	999.9	114.12	5.2857	1.116
	8.00	1066.7	1010.2	114.17	4.7500	1.138
	9.00	1075.4	1018.9	114.22	4.3333	1.157
	10.00	1083.0	1026.4	114.28	4.0000	1.173
	11.00	1089.7	1033.2	114.33	3.7273	1.187
	12.00	1095.7	1039.1	114.37	3.5000	1.200
	13.00	1101.2	1044.6	114.41	3.3077	1.213
	14.00	1106.2	1049.6	114.46	3.1429	1.224
	15.00	1110.7	1054.1	114.52	3.0000	1.234
	16.00	1115.1	1058.5	114.54	2.8750	1.243
	17.00	1119.0	1062.4	114.58	2.7647	1.252
	18.00	1122.7	1066.1	114.61	2.6667	1.260

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
19.00	1126.1	1069.5	114.65	2.5789	1.268
20.00	1129.2	1072.7	114.68	2.5000	1.275
21.00	1132.3	1075.7	114.72	2.4286	1.282
22.00	1135.1	1078.6	114.76	2.3636	1.288
23.00	1137.8	1081.2	114.79	2.3043	1.295
24.00	1140.3	1083.8	114.83	2.2500	1.300
25.00	1142.6	1086.0	114.86	2.2000	1.306
26.00	1144.9	1088.4	114.89	2.1538	1.311
27.00	1147.0	1090.5	114.93	2.1111	1.316
28.00	1149.0	1092.5	114.96	2.0714	1.320
29.00	1150.9	1094.3	114.99	2.0345	1.325
30.00	1152.7	1096.2	115.03	2.0000	1.329
31.00	1154.4	1097.9	115.06	1.9677	1.333
32.00	1156.0	1099.5	115.09	1.9375	1.336
33.00	1157.6	1101.0	115.13	1.9091	1.340
34.00	1159.1	1102.6	115.16	1.8824	1.344
35.00	1160.5	1104.0	115.19	1.8571	1.347
36.00	1161.8	1105.2	115.23	1.8333	1.350
37.00	1163.1	1106.6	115.26	1.8108	1.353
38.00	1164.3	1107.8	115.28	1.7895	1.356
39.00	1165.4	1108.9	115.32	1.7692	1.358
40.00	1166.6	1110.0	115.36	1.7500	1.361
41.00	1167.7	1111.1	115.39	1.7317	1.363
42.00	1168.7	1112.1	115.42	1.7143	1.366
43.00	1169.6	1113.1	115.45	1.6977	1.368
44.00	1170.5	1114.0	115.48	1.6818	1.370
45.00	1171.5	1114.9	115.51	1.6667	1.372
46.00	1172.3	1115.7	115.55	1.6522	1.374
47.00	1173.1	1116.6	115.58	1.6383	1.376
48.00	1173.8	1117.2	115.61	1.6250	1.378
49.00	1174.6	1118.1	115.64	1.6122	1.380
50.00	1175.3	1118.8	115.67	1.6000	1.381
51.00	1175.9	1119.3	115.69	1.5882	1.383
52.00	1176.7	1120.1	115.73	1.5769	1.385
53.00	1177.3	1120.8	115.76	1.5660	1.386
54.00	1177.9	1121.4	115.79	1.5556	1.387
55.00	1178.5	1121.9	115.82	1.5455	1.389
56.00	1179.1	1122.5	115.85	1.5357	1.390
57.00	1179.6	1123.0	115.88	1.5263	1.391
58.00	1180.1	1123.5	115.90	1.5172	1.393
59.00	1180.5	1124.0	115.94	1.5085	1.394
***** End Shut-in 1					
***** Start Flow 2	0.00	58.9	0.0	115.92	
	1.00	60.1	1.2	115.91	
	2.00	60.9	2.0	115.90	
	3.00	62.1	3.2	115.90	
	4.00	63.3	4.4	115.90	
	5.00	64.4	5.5	115.90	
	6.00	65.6	6.7	115.91	
	7.00	66.7	7.8	115.92	
	8.00	67.8	8.9	115.94	
	9.00	68.9	10	115.96	

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
10.00	70.0	11.1	115.98		
11.00	71.0	12.1	116.00		
12.00	72.1	13.2	116.02		
13.00	73.2	14.3	116.06		
14.00	74.2	15.3	116.08		
15.00	75.2	16.3	116.12		
16.00	76.3	17.4	116.14		
17.00	77.3	18.4	116.17		
18.00	78.2	19.3	116.20		
19.00	79.1	20.1	116.23		
20.00	80.1	21.2	116.25		
21.00	81.1	22.2	116.28		
22.00	82.2	23.2	116.31		
23.00	82.9	24.0	116.34		
24.00	84.0	25.1	116.37		
25.00	84.9	26.0	116.40		
26.00	86.0	27.1	116.43		
27.00	87.2	28.3	116.45		
28.00	88.0	29.1	116.48		
29.00	89.0	30.0	116.50		
30.00	90.0	31.1	116.54		
31.00	91.0	32.1	116.56		
32.00	91.9	33.0	116.59		
33.00	92.9	34.0	116.62		
34.00	93.9	35.0	116.65		
35.00	95.1	36.2	116.67		
36.00	96.0	37.1	116.71		
37.00	97.3	38.4	116.73		
38.00	98.0	39.1	116.76		
39.00	99.2	40.3	116.79		
40.00	100.3	41.4	116.81		
41.00	101.3	42.4	116.84		
42.00	102.4	43.5	116.88		
43.00	103.5	44.6	116.90		
44.00	104.6	45.7	116.92		
45.00	105.5	46.6	116.95		
46.00	106.6	47.7	116.97		

***** End Flow 2

***** Start Shutin 2

0.00	106.6	0.0	116.97	0.0000	0.011
1.00	315.3	208.7	117.01	77.0000	0.099
2.00	801.8	695.2	117.08	39.0000	0.643
3.00	944.6	838.0	117.14	26.3333	0.892
4.00	985.6	879.0	117.21	20.0000	0.971
5.00	1006.7	900.1	117.26	16.2000	1.013
6.00	1021.4	914.8	117.32	13.6667	1.043
7.00	1033.0	926.4	117.36	11.8571	1.067
8.00	1042.5	936.0	117.41	10.5000	1.087
9.00	1050.8	944.2	117.45	9.4444	1.104
10.00	1058.1	951.5	117.49	8.6000	1.120
11.00	1064.6	958.0	117.53	7.9091	1.133
12.00	1070.6	964.0	117.56	7.3333	1.146
13.00	1075.9	969.4	117.60	6.8462	1.158

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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Time	Pressure PSIG	delta P PSIG	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
14.00	1080.9	974.3	117.63	6.4286	1.168
15.00	1085.5	978.9	117.66	6.0667	1.178
16.00	1089.8	983.2	117.68	5.7500	1.188
17.00	1093.9	987.3	117.71	5.4706	1.197
18.00	1097.7	991.1	117.62	5.2222	1.205
19.00	1101.0	994.5	117.76	5.0000	1.212
20.00	1104.4	997.8	117.78	4.8000	1.220
21.00	1107.3	1000.8	117.81	4.6190	1.226
22.00	1110.4	1003.8	117.82	4.4545	1.233
23.00	1113.1	1006.5	117.85	4.3043	1.239
24.00	1115.7	1009.1	117.87	4.1667	1.245
25.00	1118.2	1011.6	117.89	4.0400	1.250
26.00	1120.6	1014.0	117.92	3.9231	1.256
27.00	1122.8	1016.2	117.95	3.8148	1.261
28.00	1124.9	1018.3	117.97	3.7143	1.265
29.00	1126.9	1020.3	117.98	3.6207	1.270
30.00	1128.8	1022.2	118.01	3.5333	1.274
31.00	1130.7	1024.1	118.03	3.4516	1.278
32.00	1132.3	1025.8	118.05	3.3750	1.282
33.00	1134.0	1027.4	118.08	3.3030	1.286
34.00	1135.6	1029.0	118.10	3.2353	1.290
35.00	1137.1	1030.5	118.12	3.1714	1.293
36.00	1138.6	1032.1	118.14	3.1111	1.297
37.00	1140.0	1033.4	118.16	3.0541	1.300
38.00	1141.3	1034.7	118.19	3.0000	1.303
39.00	1142.5	1035.9	118.21	2.9487	1.305
40.00	1143.8	1037.2	118.22	2.9000	1.308
41.00	1144.9	1038.4	118.26	2.8537	1.311
42.00	1146.0	1039.4	118.28	2.8095	1.313
43.00	1147.0	1040.5	118.31	2.7674	1.316
44.00	1148.0	1041.5	118.32	2.7273	1.318
45.00	1149.0	1042.5	118.35	2.6889	1.320
46.00	1150.1	1043.5	118.36	2.6522	1.323
47.00	1150.9	1044.3	118.38	2.6170	1.325
48.00	1151.8	1045.2	118.41	2.5833	1.327
49.00	1152.7	1046.1	118.43	2.5510	1.329
50.00	1153.4	1046.8	118.45	2.5200	1.330
51.00	1154.2	1047.6	118.48	2.4902	1.332
52.00	1154.9	1048.3	118.51	2.4615	1.334
53.00	1155.6	1049.0	118.51	2.4340	1.335
54.00	1156.3	1049.7	118.54	2.4074	1.337
55.00	1156.9	1050.4	118.56	2.3818	1.339
56.00	1157.6	1051.0	118.58	2.3571	1.340
57.00	1158.3	1051.7	118.61	2.3333	1.342
58.00	1158.9	1052.3	118.62	2.3103	1.343
59.00	1159.5	1052.9	118.65	2.2881	1.344

***** End Shut-in 2

***** Final Hydro. 301.00 2182.2 0.0 118.77

TEST HISTORY

9549 DST #1 Huseman #1 Abercrombie Drilling

Flag Points

t (Min.) P (PSIG)

A:	0.00	2196.97
B:	0.00	25.51
C:	30.00	56.56
D:	59.00	1180.52
E:	0.00	58.91
F:	46.00	106.58
G:	59.00	1159.45
Q:	0.00	2182.20

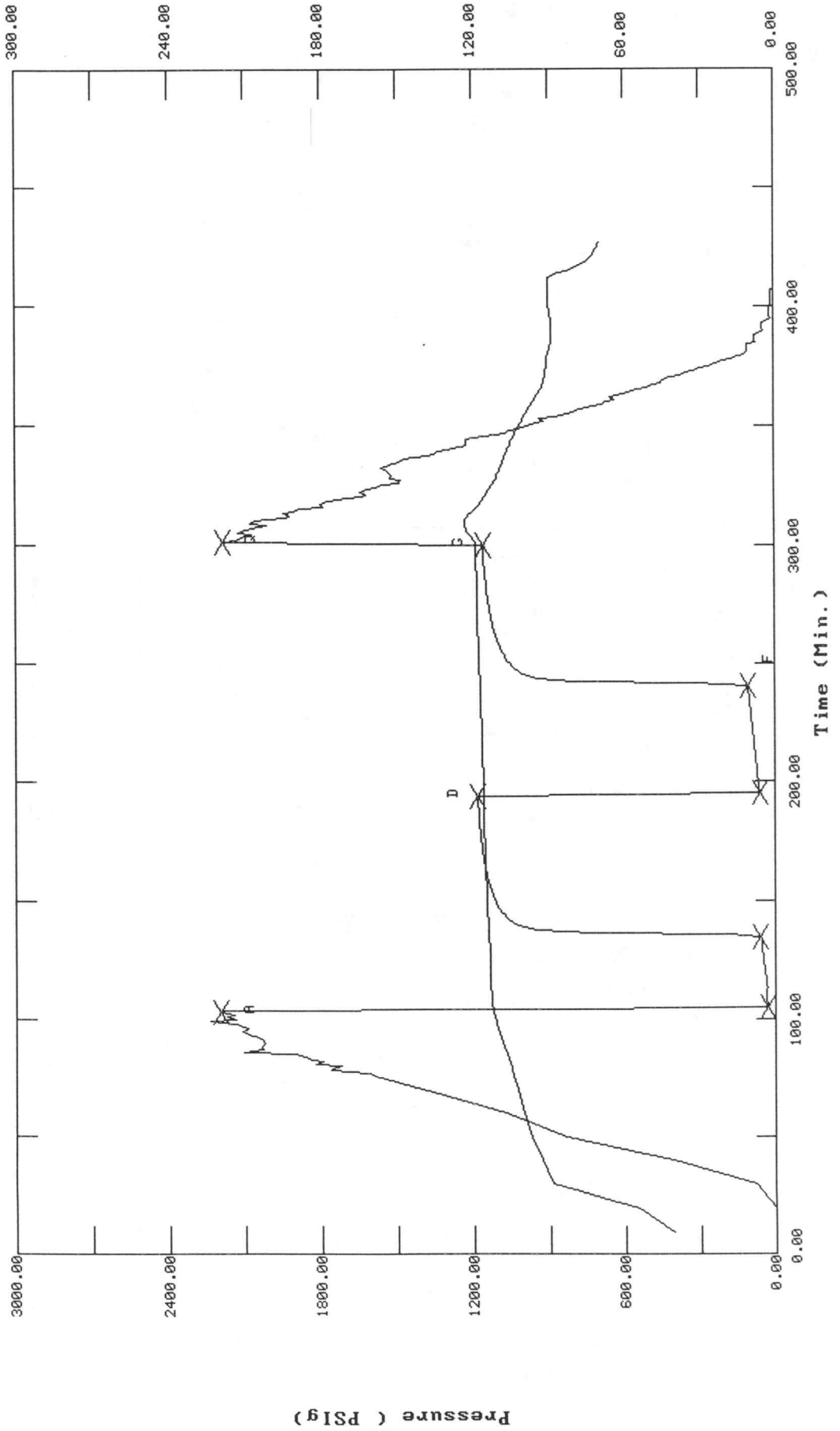
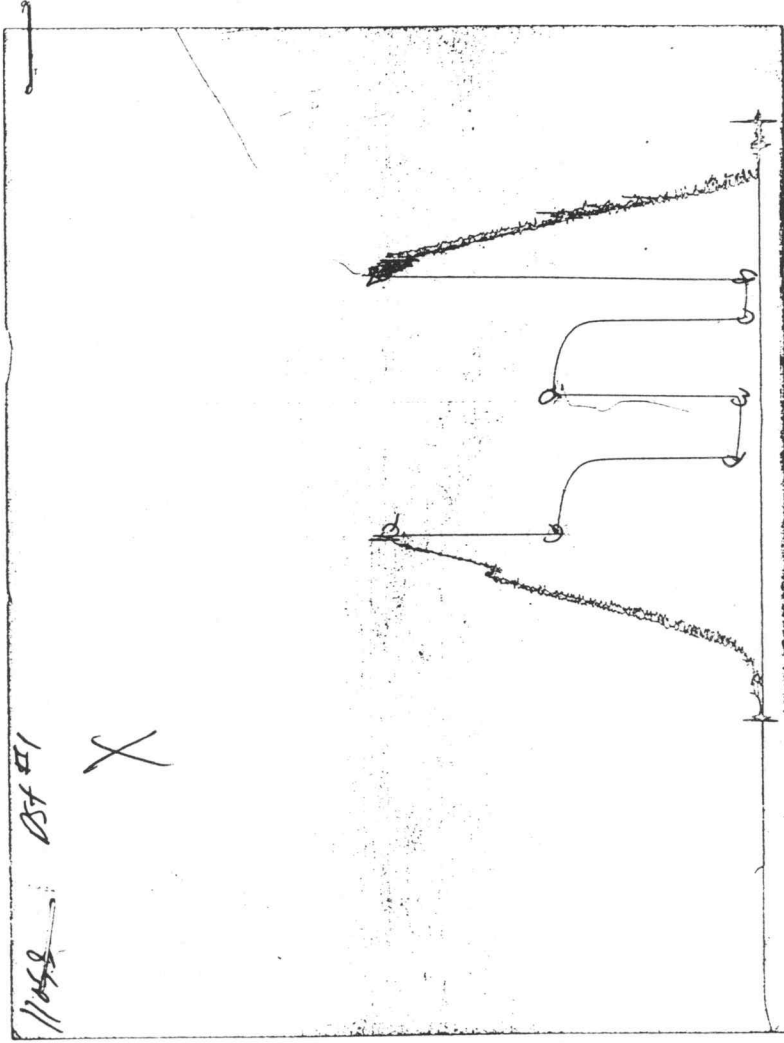


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9549

Well Name & No. <u>Hoseman #1</u>		Test No. <u>1</u>	Date <u>10-31-96</u>
Company <u>Abercrombie Drilling, Inc.</u>		Zone Tested <u>Mm - Paw</u>	
Address <u>150 N Main, Suite 801, Wichita, KS 67202</u>		Elevation <u>2867</u>	KB <u>2862'</u> GL
Co. Rep / Geo. <u>Brad Rine</u>	Cont. <u>Abercrombie #8</u>	Est. Ft. of Pay _____	Por. _____ %
Location: Sec. <u>10</u>	Twp. <u>18</u>	Rge. <u>30</u>	Co. <u>Lane</u> State <u>Ks</u>
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u>N</u>		Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested 4367' 4440' Initial Str Wt./Lbs. 48,000 Unseated Str Wt./Lbs. 49,000
 Anchor Length _____ 23' Wt. Set Lbs. 27,000 Wt. Pulled Loose/Lbs. 53,000
 Top Packer Depth _____ 4362' Tool Weight 5,000
 Bottom Packer Depth _____ 4367' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth _____ 4440' Wt. Pipe Run 567' Drill Collar Run _____
 Mud Wt. 9.4 LCM trace Vis. 56 WL 9.6 Drill Pipe Size 4 1/2 X H Ft. Run 3830'
 Blow Description 1/2" Open built to 4 1/4".

S.S.F: Bleed off Blow - no return
F.F: Bobble to open tool - weak surface blow in 10 min. built to 1/2".
F.S.F: Bleed off Blow - No return

Recovery — Total Feet <u>270'</u>	GIP <u>150'</u>	Ft. in DC _____	Ft. in DP <u>270'</u>
Rec. <u>20'</u> Feet Of <u>Clean Gassy O.I</u>	<u>15</u> %gas	<u>85</u> %oil	%water _____ %mud _____
Rec. <u>70'</u> Feet Of <u>Gassy Oil & Water + mud</u>	<u>10</u> %gas	<u>25</u> %oil	<u>20</u> %water <u>45</u> %mud
Rec. <u>60'</u> Feet Of <u>oil cut muddy water</u>	%gas _____	<u>10</u> %oil	<u>50</u> %water <u>40</u> %mud
Rec. <u>120'</u> Feet Of <u>muddy water trace oil</u>	%gas <u>trace</u>	%oil _____	<u>50</u> %water <u>50</u> %mud
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____

BHT 122° °F Gravity 34 °API D@ 40 °F Corrected Gravity 36 °API
 RW 305 @ 54 °F Chlorides 27,000 ppm Recovery Chlorides 1,500 ppm System

(A) Initial Hydrostatic Mud <u>2322</u> <u>2196</u> PSI	Recorder No. <u>2841</u>	T-Started <u>14:58 P.M.</u>
(B) First Initial Flow Pressure <u>77</u> <u>25</u> PSI	(depth) <u>4367'</u> <u>74'</u>	T-Open <u>16:43 P.M.</u>
(C) First Final Flow Pressure <u>100</u> <u>56</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>19:58 P.M.</u>
(D) Initial Shut-in Pressure <u>1208</u> <u>1180</u> PSI	(depth) <u>4435'</u>	T-Out <u>22:20 P.M.</u>
(E) Second Initial Flow Pressure <u>122</u> <u>58</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>144</u> <u>106</u> PSI	(depth) _____	
(G) Final Shut-in Pressure <u>1197</u> <u>1159</u> PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>600</u>
(H) Final Hydrostatic Mud <u>2278</u> <u>2182</u> PSI	Initial Shut-in <u>60</u>	Jars _____
<u>AK-1</u> Elec.	Final Flow <u>45</u>	Safety Joint <u>X</u> <u>50</u>
	Final Shut-in <u>60</u>	Straddle _____

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Approved By Brad Rine
 Our Representative Steve McBr...

Circ. Sub X N/C
 Sampler _____
 Extra Packer _____
 Elect. Rec. X 150
 Other _____
 TOTAL PRICE \$ 800

(5)

TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Drilling DATE 11-1-96
 WELL NAME: Huseman #1 KB 2867.00 ft TICKET NO: 9550 DST #2
 LOCATION : 10-18s-30w Lane KS GR 2862.00 ft FORMATION: Johnson
 INTERVAL : 4520.00 To 4545.00 ft TD 4545.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2341			PF Fr. 1529 to 1559 hr
SI 30 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1559 to 1629 hr
SF 30 Clock(hrs)	12	12	elec.			SF Fr. 1629 to 1659 hr
FS 30 Depth(ft)	4540.0	4540.0	4525.0	0.0	0.0	FS Fr. 1659 to 1729 hr

	Field	1	2	3	4	
A. Init Hydro	2300.0	2298.0	2271.0	0.0	0.0	T STARTED 1350 hr
B. First Flow	55.0	66.0	19.0	0.0	0.0	T ON BOTM 1525 hr
B1. Final Flow	44.0	52.0	22.0	0.0	0.0	T OPEN 1529 hr
C. In Shut-in	100.0	107.0	74.0	0.0	0.0	T PULLED 1729 hr
D. Init Flow	55.0	58.0	15.0	0.0	0.0	T OUT 1950 hr
E. Final Flow	44.0	58.0	24.0	0.0	0.0	
F. Fl Shut-in	77.0	81.0	59.0	0.0	0.0	
G. Final Hydro	2266.0	2226.0	2214.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----

Tool Wt.	4000.00 lbs
Wt Set On Packer	26000.00 lbs
Wt Pulled Loose	57000.00 lbs
Initial Str Wt	48000.00 lbs
Unseated Str Wt	48000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	3956.00 ft
H.W. I.D	2.70 in
H.W. Length	567.00 ft

RECOVERY

Tot Fluid 30.00 ft of 0.00 ft in DC and 30.00 ft in DP
 1.00 ft of free oil 100% oil
 29.00 ft of slightly oil cut mud 5% oil 95% 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	Chem
Weight	9.30 lb/cf
Vis.	50.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop Y	30.0 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
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Brad Rein
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

BLOW DESCRIPTION

Initial Flow -
 Weak surface blow - died in 14 min.

Initial Shut-in -
 No return

Final Flow -
 Bubble to open tool - no blow -
 flush tool - no blow

Final Shut-in -
 No return

SAMPLES:
 SENT TO:

Test Successful: Y

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9550 DST #2 Huseman #1 Abercrombie Drilling

DATE: 11/01/96 TIME: 14:51:48

	Time	Pressure PSIG	delta P PSIG	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	97.00	2271.4	0.0	109.83		
***** Start Flow 1	0.00	19.9	0.0	110.46		
	1.00	19.9	0.0	110.71		
	2.00	19.0	-0.8	110.88		
	3.00	19.2	-0.7	111.00		
	4.00	19.5	-0.3	111.10		
	5.00	19.6	-0.3	111.19		
	6.00	19.9	0.0	111.24		
	7.00	20.1	0.3	111.30		
	8.00	20.3	0.4	111.35		
	9.00	20.3	0.4	111.40		
	10.00	20.4	0.5	111.45		
	11.00	20.5	0.6	111.50		
	12.00	20.6	0.7	111.55		
	13.00	20.7	0.8	111.60		
	14.00	20.7	0.8	111.65		
	15.00	20.6	0.8	111.70		
	16.00	20.6	0.8	111.76		
	17.00	20.8	0.9	111.82		
	18.00	20.6	0.8	111.87		
	19.00	21.1	1.2	111.94		
	20.00	21.6	1.8	112.00		
	21.00	21.7	1.8	112.06		
	22.00	22.0	2.1	112.13		
	23.00	22.1	2.3	112.19		
	24.00	22.1	2.2	112.26		
	25.00	22.2	2.4	112.32		
	26.00	22.4	2.5	112.39		
	27.00	22.6	2.7	112.46		
	28.00	22.7	2.9	112.53		
	29.00	22.8	2.9	112.60		
***** End Flow 1	30.00	22.6	2.7	112.67		
***** Start Shutin 1	0.00	22.6	0.0	112.67	0.0000	0.001
	1.00	24.0	1.4	112.74	31.0000	0.001
	2.00	25.3	2.8	112.82	16.0000	0.001
	3.00	26.8	4.2	112.89	11.0000	0.001
	4.00	28.2	5.6	112.96	8.5000	0.001
	5.00	23.2	0.6	113.03	7.0000	0.001
	6.00	24.7	2.1	113.11	6.0000	0.001
	7.00	26.2	3.6	113.18	5.2857	0.001
	8.00	27.7	5.1	113.26	4.7500	0.001
	9.00	29.3	6.7	113.33	4.3333	0.001
	10.00	30.9	8.3	113.41	4.0000	0.001
	11.00	32.5	9.9	113.48	3.7273	0.001
	12.00	34.2	11.7	113.55	3.5000	0.001
	13.00	35.9	13.3	113.63	3.3077	0.001
	14.00	37.8	15.3	113.70	3.1429	0.001
	15.00	39.6	17.0	113.78	3.0000	0.002
	16.00	41.5	18.9	113.85	2.8750	0.002
	17.00	43.6	21.1	113.92	2.7647	0.002
	18.00	45.6	23.1	114.00	2.6667	0.002

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9550 DST #2 Huseman #1 Abercrombie Drilling

DATE: 11/01/96

TIME: 14:51:48

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	19.00	47.8	25.3	114.06	2.5789	0.002
	20.00	50.0	27.4	114.14	2.5000	0.003
	21.00	52.2	29.6	114.21	2.4286	0.003
	22.00	54.8	32.2	114.28	2.3636	0.003
	23.00	57.3	34.7	114.35	2.3043	0.003
	24.00	59.9	37.3	114.42	2.2500	0.004
	25.00	62.7	40.1	114.48	2.2000	0.004
	26.00	65.5	42.9	114.56	2.1538	0.004
	27.00	68.5	45.9	114.63	2.1111	0.005
	28.00	71.7	49.1	114.70	2.0714	0.005
***** End Shut-in 1	29.00	74.9	52.4	114.77	2.0345	0.006
***** Start Flow 2	0.00	15.9	0.0	114.97		
	1.00	16.8	0.8	115.04		
	2.00	16.0	0.1	115.09		
	3.00	17.3	1.3	115.16		
	4.00	16.9	0.9	115.23		
	5.00	30.5	14.5	115.33		
	6.00	23.0	7.0	115.37		
	7.00	22.9	7.0	115.39		
	8.00	22.8	6.9	115.39		
	9.00	22.9	7.0	115.41		
	10.00	23.1	7.1	115.44		
	11.00	22.9	7.0	115.46		
	12.00	23.0	7.0	115.50		
	13.00	23.1	7.1	115.54		
	14.00	23.1	7.1	115.58		
	15.00	23.2	7.2	115.64		
	16.00	23.2	7.2	115.70		
	17.00	23.2	7.3	115.75		
	18.00	23.3	7.4	115.81		
	19.00	23.4	7.5	115.87		
	20.00	23.5	7.6	115.93		
	21.00	22.9	7.0	115.99		
	22.00	22.7	6.7	116.06		
	23.00	23.1	7.1	116.12		
	24.00	23.4	7.5	116.18		
	25.00	23.2	7.3	116.25		
	26.00	23.0	7.0	116.31		
	27.00	22.9	7.0	116.38		
	28.00	23.2	7.3	116.44		
	29.00	24.0	8.1	116.50		
***** End Flow 2	30.00	24.8	8.9	116.57		
***** Start Shutin 2	0.00	24.8	0.0	116.57	0.0000	0.001
	1.00	25.8	0.9	116.62	61.0000	0.001
	2.00	26.7	1.8	116.68	31.0000	0.001
	3.00	27.5	2.7	116.74	21.0000	0.001
	4.00	28.4	3.6	116.81	16.0000	0.001
	5.00	29.3	4.4	116.88	13.0000	0.001
	6.00	30.2	5.4	116.93	11.0000	0.001
	7.00	31.1	6.3	116.99	9.5714	0.001
	8.00	32.1	7.2	117.05	8.5000	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9550 DST #2 Huseman #1 Abercrombie Drilling

DATE: 11/01/96 TIME: 14:51:48

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
9.00	33.1	8.3	117.11	7.6667	0.001	
10.00	34.1	9.2	117.16	7.0000	0.001	
11.00	35.0	10.2	117.23	6.4545	0.001	
12.00	36.0	11.2	117.29	6.0000	0.001	
13.00	37.1	12.3	117.34	5.6154	0.001	
14.00	38.1	13.3	117.40	5.2857	0.001	
15.00	39.1	14.3	117.46	5.0000	0.002	
16.00	40.2	15.4	117.51	4.7500	0.002	
17.00	41.3	16.4	117.56	4.5294	0.002	
18.00	42.3	17.5	117.62	4.3333	0.002	
19.00	43.5	18.6	117.67	4.1579	0.002	
20.00	44.6	19.7	117.73	4.0000	0.002	
21.00	45.7	20.9	117.78	3.8571	0.002	
22.00	46.8	22.0	117.84	3.7273	0.002	
23.00	48.1	23.2	117.89	3.6087	0.002	
24.00	49.3	24.4	117.94	3.5000	0.002	
25.00	50.4	25.6	117.99	3.4000	0.003	
26.00	51.8	26.9	118.05	3.3077	0.003	
27.00	53.0	28.2	118.09	3.2222	0.003	
28.00	54.4	29.5	118.15	3.1429	0.003	
29.00	55.6	30.8	118.20	3.0690	0.003	
30.00	57.1	32.2	118.25	3.0000	0.003	
31.00	58.3	33.5	118.30	2.9355	0.003	
***** End Shut-in 2	32.00	59.7	34.8	118.35	2.8750	0.004
***** Final Hydro.	225.00	2214.1	0.0	118.60		

9550 DST #2 Huseman #1 Abercrombie Drilling

TEST HISTORY

Flag Points

	t (Min.)	P (PSig)
A:	0.00	2271.41
B:	0.00	19.88
C:	30.00	22.57
D:	29.00	74.94
E:	0.00	15.94
F:	30.00	24.83
G:	32.00	59.66
Q:	0.00	2214.09

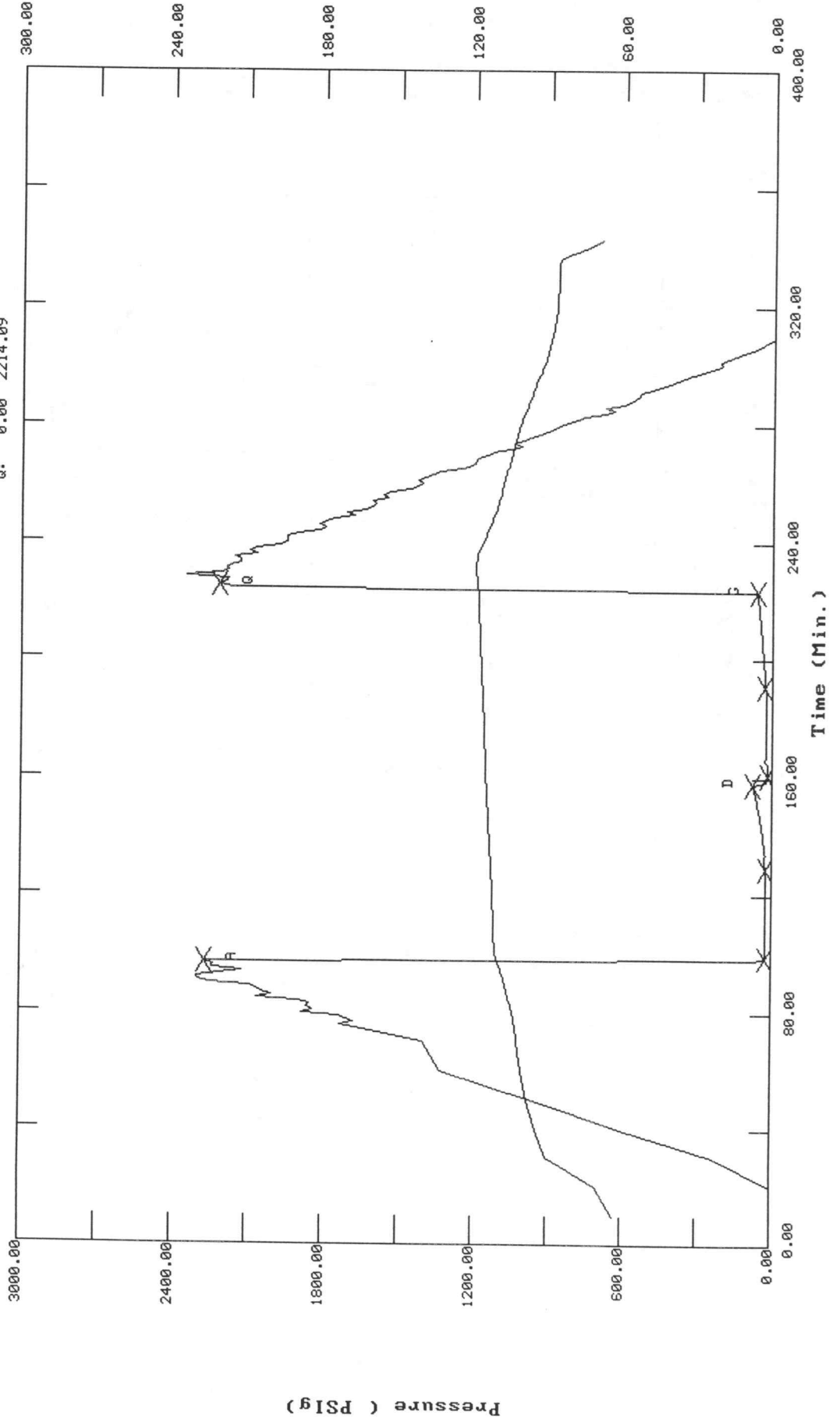
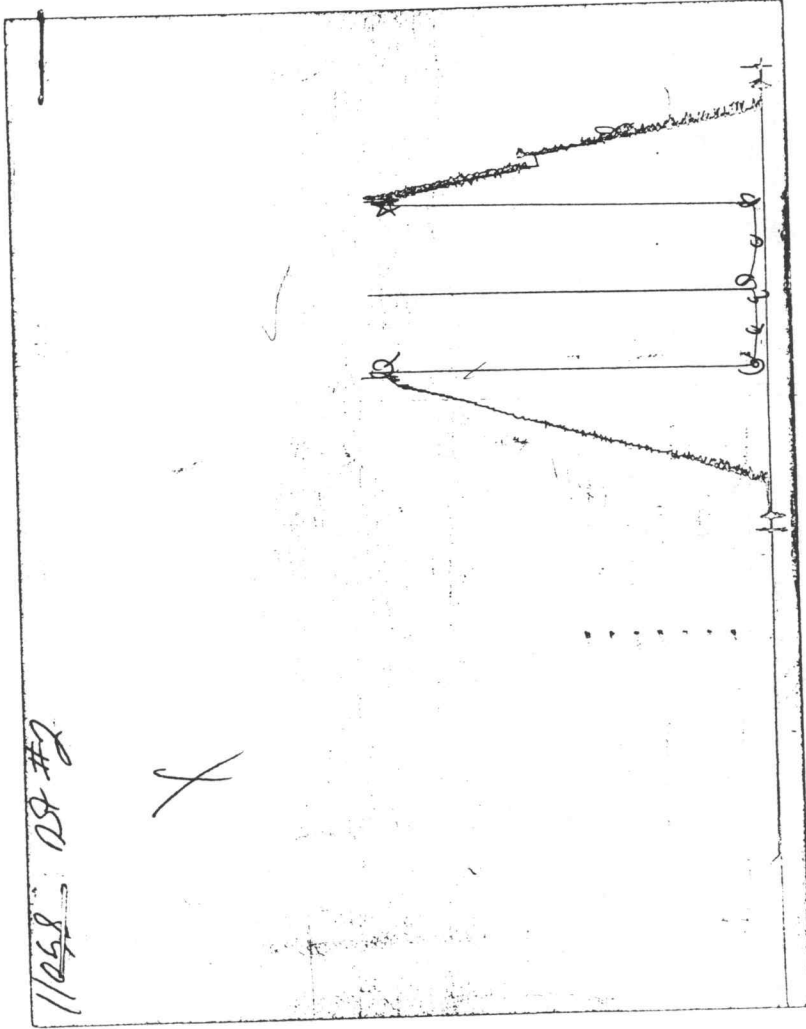


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9550

Well Name & No. <u>Auseman #1</u>	Test No. <u>2</u>	Date <u>11-1-96</u>
Company <u>Abercrombie Drilling, Inc</u>	Zone Tested <u>Johnson</u>	
Address <u>150 W main, Suite 801 Wichita, KS 67202</u>	Elevation <u>2867'</u> KB <u>2862'</u> GL	
Co. Rep / Geo. <u>Brad Rine</u>	Cont. <u>Abercrombie #8</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>10</u> Twp. <u>18</u> Rge. <u>30</u> Co. <u>Lane</u> State <u>KS</u>		
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested 4520' - 4545' Initial Str Wt./Lbs. 48,000 Unseated Str Wt./Lbs. 48,000
 Anchor Length 25' Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 57,000
 Top Packer Depth 4515' Tool Weight 4,000
 Bottom Packer Depth 4520' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4545' Wt. Pipe Run 567' Drill Collar Run _____
 Mud Wt. 9.3 LCM Trace Vis. 50 WL 10.4 Drill Pipe Size 4 1/2 X H Ft. Run 3956'
 Blow Description Weak Surface Blow died in 14 min.

I.S.I: No return

F.F: Bubble to open tool - no blow - flush tool - no blow

F.S.F: No return

Recovery — Total Feet <u>30'</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>30'</u>
Rec. <u>1'</u> Feet Of <u>free oil</u>	%gas <u>100%</u>	%oil _____	%water _____ %mud _____
Rec. <u>29'</u> Feet Of <u>slity oil cut mud</u>	%gas <u>5%</u>	%oil _____	%water <u>95%</u> %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 _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2,200 ppm System

(A) Initial Hydrostatic Mud <u>2300</u> <u>2271</u> PSI	Recorder No. <u>2341</u>	T-Started <u>13:50 P.M.</u>
(B) First Initial Flow Pressure <u>55</u> <u>19</u> PSI	(depth) <u>4525'</u>	T-Open <u>15:29 P.M.</u>
(C) First Final Flow Pressure <u>44</u> <u>22</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>17:29 P.M.</u>
(D) Initial Shut-in Pressure <u>100</u> <u>74</u> PSI	(depth) <u>4540'</u>	T-Out <u>19:50 P.M.</u>
(E) Second Initial Flow Pressure <u>55</u> <u>15</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>44</u> <u>24</u> PSI	(depth) _____	
(G) Final Shut-in Pressure <u>77</u> <u>59</u> PSI	Initial Opening <u>30</u>	Test # <u>1000</u>
(H) Final Hydrostatic Mud <u>2266</u> <u>2214</u> PSI	Initial Shut-in <u>30</u>	Jars _____
<u>AK-1 Elec.</u>	Final Flow <u>30</u>	Safety Joint <u>X</u> <u>50</u>
	Final Shut-in <u>30</u>	Straddle _____

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Approved By Brad Rine
 Our Representative Shae [Signature]

Circ. Sub X N/C
 Sampler _____
 Extra Packer _____
 Elect. Rec. X 150
 Other _____
 TOTAL PRICE \$ 800