WELL NAME:	Horton 1-36
COMPANY:	Hesse Petroleum Company LLC
LOCATION:	36-23s-10w
	Reno County, Kansas
DATE:	8/18/98

TRILOBITE TESTING L.L.C.

OPERATOR : Hesse Petroleum Co. LLC DATE 8-15-98
WELL NAME: Horton 1-36 KB 1757.00 ft TICKET NO: 11047 DST #1
LOCATION : 36-23s-10w Reno co KS GR 1748.00 ft FORMATION: Mississippi
INTERVAL : 3695.00 To 3715.00 ft TD 3715.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 45	Rec.	24174	24174	3246		
SI 60	Range(Psi)	3050.0	3050.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	12	12	batt		
FS 90	Depth(ft)	3710.0	3710.0	3697.0	0.0	0.0

TIME DATA----------
PF Fr. 1022 to 1107 hr
IS Fr. 1107 to 1207 hr
SF Fr. 1207 to 1307 hr
FS Fr. 1307 to 1437 hr

	Field	1	2	3	4
A. Init Hydro	1834.0	1813.0	1815.0	0.0	0.0
B. First Flow	30.0	34.0	20.0	0.0	0.0
B1. Final Flow	30.0	34.0	29.0	0.0	0.0
C. In Shut-in	112.0	126.0	149.0	0.0	0.0
D. Init Flow	37.0	44.0	26.0	0.0	0.0
E. Final Flow	37.0	44.0	35.0	0.0	0.0
F. Fl Shut-in	134.0	148.0	158.0	0.0	0.0
G. Final Hydro	1818.0	1780.0	1798.0	0.0	0.0
Inside/Outside	o	o	i		

T STARTED 0902 hr
T ON BOTM 1020 hr
T OPEN 1022 hr
T PULLED 1437 hr
T OUT 1555 hr

RECOVERY
Tot Fluid 30.00 ft of 30.00 ft in DC and 0.00 ft in DP
300.00 ft of gas in pipe
0.00 ft of
30.00 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
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	72000.00 lbs
Initial Str Wt	65000.00 lbs
Unseated Str Wt	65000.00 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	485.00 ft
D.P. Length	3206.00 ft

BLOW DESCRIPTION
Initial Flow:
weak blow 1/2" blow building to 7"
Initial Shut-in:
no blow

Final Flow:
weak 3/4" blow building to 3"

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

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	47.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 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	Paul Simpson
Co. Rep.	Larry Friend
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

'ELL NAME: Horton 1-36

.OCATION : 36-23s-10w Reno co KS

'ICKET No. 11047 D.S.T. No. 1 DATE 8-15-98

'OTAL TOOL TO BOTTOM OF TOP PACKERS 22

:NTERVAL TOOL .....

3OTTOM PACKERS AND ANCHOR 20

:OTAL TOOL 42

)RILL COLLAR ANCHOR IN INTERVAL .....

).C. ANCHOR STND.Stands Single Total

).P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 42

).C. ABOVE TOOLS.Stands8 Single Total 485

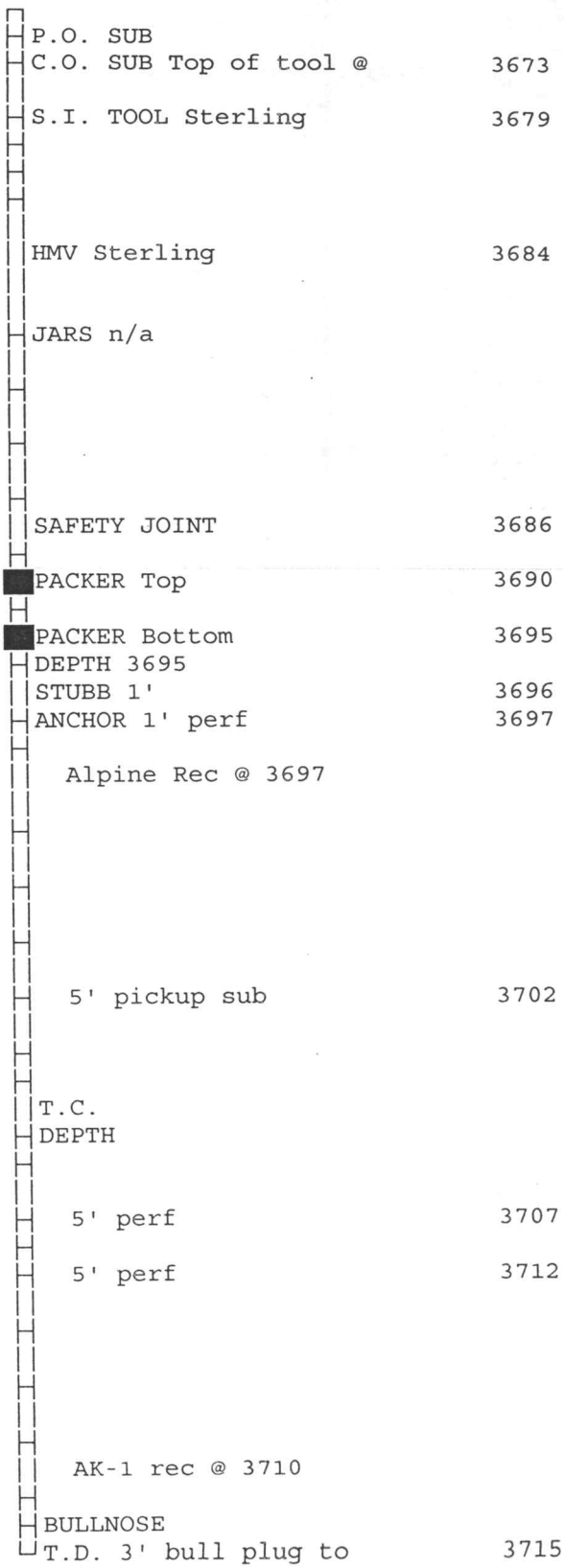
).P. ABOVE TOOLS.Stands 51 Single 1 Total 3206

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3734

TOTAL DEPTH 3715

TOTAL DRILL PIPE ABOVE K.B. 19

REMARKS:



TEST HISTORY

11047 Hesse Petroleum Horton #1-36 DST #1

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1815.99
B:	0.00	19.89
C:	45.50	29.18
D:	59.50	149.27
E:	0.00	25.56
F:	65.50	34.75
G:	83.00	157.58
Q:	0.00	1798.93

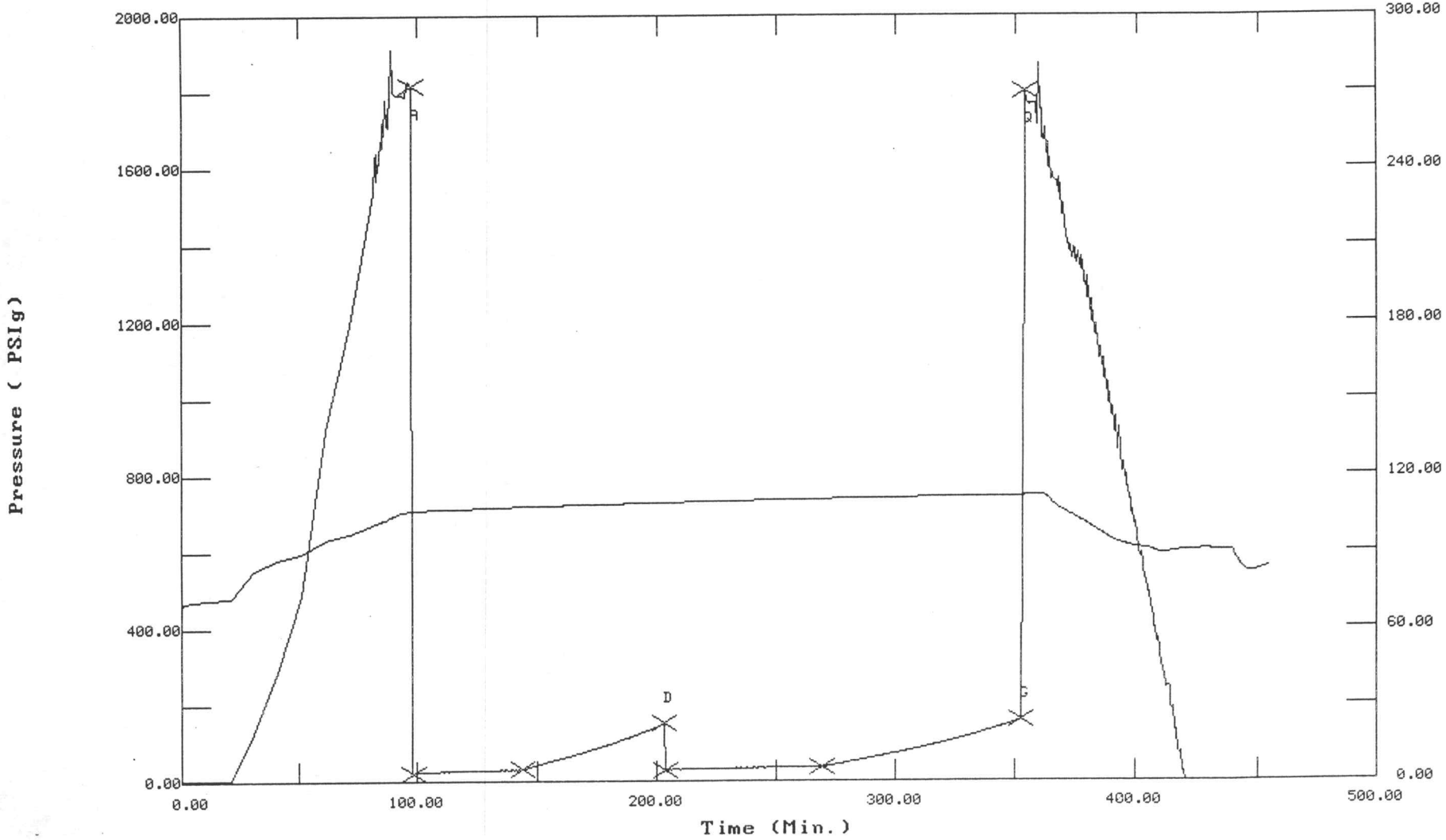
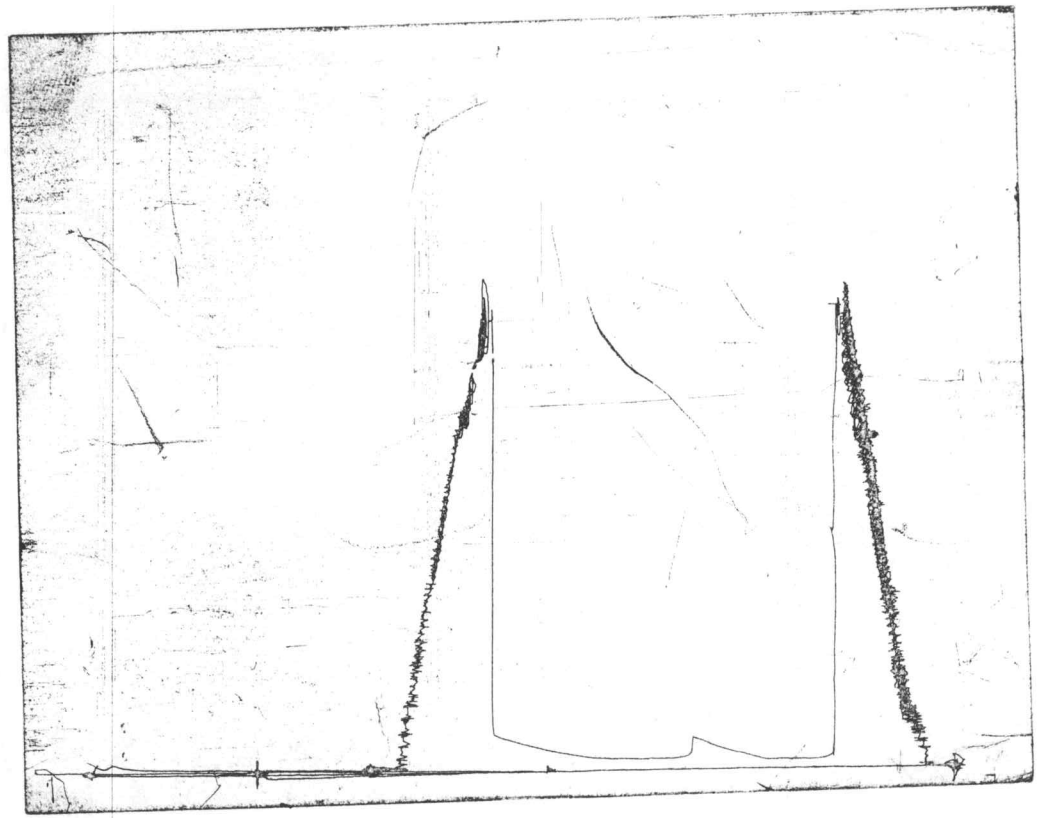


CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11047 Hesse Petroleum Horton #1-36 DST #1

DATE: 08/14/98 TIME: 08:43:34

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	97.50	1816.0	0.0	106.00		
****** Start Flow 1	0.00	19.9	0.0	106.06		
	0.50	20.5	0.6	106.07		
	1.00	20.9	1	106.08		
	1.50	20.9	1.0	106.10		
	2.00	21.7	1.8	106.12		
	2.50	22.1	2.2	106.15		
	3.00	23.1	3.2	106.19		
	3.50	22.3	2.4	106.23		
	4.00	23.2	3.3	106.27		
	4.50	21.9	2.0	106.32		
	5.00	22.5	2.6	106.35		
	5.50	23.3	3.4	106.38		
	6.00	23.5	3.6	106.41		
	6.50	23.8	3.9	106.44		
	7.00	23.7	3.8	106.47		
	7.50	24.1	4.2	106.49		
	8.00	24.1	4.2	106.51		
	8.50	23.9	4.0	106.53		
	9.00	23.6	3.7	106.55		
	9.50	22.8	2.9	106.57		
	10.00	23.8	3.9	106.58		
	10.50	23.6	3.7	106.60		
	11.00	24.3	4.4	106.61		
	11.50	25.8	5.9	106.63		
	12.00	25.3	5.4	106.64		
	12.50	24.5	4.6	106.65		
	13.00	23.6	3.7	106.66		
	13.50	26.1	6.2	106.67		
	14.00	25.9	6.0	106.68		
	14.50	25.1	5.2	106.70		
	15.00	24.0	4.1	106.71		
	15.50	26.4	6.5	106.72		
	16.00	25.9	6.0	106.74		
	16.50	24.9	5.0	106.75		
	17.00	26.2	6.3	106.76		
	17.50	26.3	6.4	106.78		
	18.00	25.4	5.5	106.79		
	18.50	26.1	6.2	106.80		
	19.00	26.4	6.5	106.82		
	19.50	25.7	5.8	106.83		
	20.00	25.4	5.5	106.85		
	20.50	26.8	6.9	106.86		
	21.00	25.9	6.0	106.88		
	21.50	26.6	6.7	106.89		
	22.00	26.8	6.9	106.91		
	22.50	25.3	5.4	106.93		
	23.00	27.3	7.4	106.94		
	23.50	26.1	6.2	106.96		
	24.00	27.6	7.7	106.97		
	24.50	26.6	6.7	106.99		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11047 Hesse Petroleum Horton #1-36 DST #1

DATE: 08/14/98 TIME: 08:43:34

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	27.8	8.0	107.00		
	25.50	26.8	6.9	107.02		
	26.00	25.4	5.5	107.04		
	26.50	27.4	7.5	107.05		
	27.00	25.6	5.7	107.07		
	27.50	27.4	7.5	107.08		
	28.00	26.3	6.4	107.10		
	28.50	27.8	8.0	107.12		
	29.00	26.7	6.8	107.13		
	29.50	28.1	8.2	107.14		
	30.00	27.0	7.1	107.17		
	30.50	28.4	8.5	107.18		
	31.00	27.1	7.2	107.21		
	31.50	28.4	8.5	107.22		
	32.00	27.1	7.2	107.23		
	32.50	28.4	8.5	107.26		
	33.00	27.1	7.2	107.28		
	33.50	28.4	8.5	107.30		
	34.00	26.7	6.8	107.31		
	34.50	28.3	8.4	107.34		
	35.00	26.4	6.5	107.36		
	35.50	28.0	8.1	107.38		
	36.00	29.1	9.2	107.40		
	36.50	27.9	8.0	107.41		
	37.00	29.0	9.1	107.44		
	37.50	27.1	7.2	107.46		
	38.00	28.7	8.8	107.48		
	38.50	27.0	7.1	107.50		
	39.00	28.6	8.8	107.52		
	39.50	26.8	6.9	107.54		
	40.00	28.3	8.4	107.56		
	40.50	29.1	9.2	107.58		
	41.00	28.0	8.1	107.60		
	41.50	28.8	9.0	107.63		
	42.00	28.3	8.4	107.64		
	42.50	29.0	9.1	107.65		
	43.00	27.4	7.5	107.68		
	43.50	28.1	8.3	107.70		
	44.00	28.5	8.6	107.71		
	44.50	27.2	7.3	107.74		
	45.00	28.6	8.7	107.75		
****** End Flow 1	45.50	29.2	9.3	107.77		
****** Start Shutin 1	0.00	29.2	0.0	107.77	0.0000	0.001
	0.50	30.3	1.1	107.79	92.0000	0.001
	1.00	31.3	2.1	107.81	46.5000	0.001
	1.50	32.2	3.0	107.82	31.3333	0.001
	2.00	33.2	4.0	107.84	23.7500	0.001
	2.50	34.2	5.0	107.86	19.2000	0.001
	3.00	35.1	5.9	107.87	16.1667	0.001
	3.50	36.0	6.8	107.88	14.0000	0.001
	4.00	37.0	7.8	107.90	12.3750	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11047 Hesse Petroleum Horton #1-36 DST #1

DATE: 08/14/98 TIME: 08:43:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
4.50	37.9	8.7	107.91	11.1111	0.001
5.00	38.7	9.6	107.93	10.1000	0.002
5.50	39.6	10.4	107.94	9.2727	0.002
6.00	40.5	11.3	107.95	8.5833	0.002
6.50	41.5	12.4	107.97	8.0000	0.002
7.00	42.5	13.3	107.97	7.5000	0.002
7.50	43.3	14.1	107.99	7.0667	0.002
8.00	44.2	15.0	108.00	6.6875	0.002
8.50	45.0	15.9	108.01	6.3529	0.002
9.00	45.9	16.7	108.02	6.0556	0.002
9.50	46.8	17.6	108.04	5.7895	0.002
10.00	47.7	18.5	108.04	5.5500	0.002
10.50	48.6	19.4	108.06	5.3333	0.002
11.00	49.5	20.3	108.07	5.1364	0.002
11.50	50.4	21.2	108.08	4.9565	0.003
12.00	51.2	22.0	108.10	4.7917	0.003
12.50	52.1	22.9	108.11	4.6400	0.003
13.00	53.0	23.8	108.12	4.5000	0.003
13.50	53.8	24.6	108.13	4.3704	0.003
14.00	54.4	25.3	108.14	4.2500	0.003
14.50	55.4	26.2	108.15	4.1379	0.003
15.00	56.1	26.9	108.16	4.0333	0.003
15.50	56.6	27.4	108.18	3.9355	0.003
16.00	57.0	27.9	108.19	3.8438	0.003
16.50	57.9	28.7	108.20	3.7576	0.003
17.00	58.8	29.6	108.21	3.6765	0.003
17.50	59.6	30.4	108.22	3.6000	0.004
18.00	60.5	31.3	108.23	3.5278	0.004
18.50	61.4	32.2	108.25	3.4595	0.004
19.00	62.3	33.1	108.26	3.3947	0.004
19.50	63.2	34.0	108.27	3.3333	0.004
20.00	64.1	34.9	108.28	3.2750	0.004
20.50	65.0	35.8	108.29	3.2195	0.004
21.00	66.0	36.8	108.30	3.1667	0.004
21.50	66.9	37.7	108.31	3.1163	0.004
22.00	67.7	38.6	108.33	3.0682	0.005
22.50	68.6	39.5	108.34	3.0222	0.005
23.00	69.6	40.4	108.35	2.9783	0.005
23.50	70.5	41.3	108.36	2.9362	0.005
24.00	71.3	42.1	108.37	2.8958	0.005
24.50	72.3	43.1	108.38	2.8571	0.005
25.00	73.2	44.0	108.40	2.8200	0.005
25.50	74.1	45.0	108.41	2.7843	0.005
26.00	75.1	45.9	108.42	2.7500	0.006
26.50	75.9	46.7	108.43	2.7170	0.006
27.00	76.8	47.6	108.45	2.6852	0.006
27.50	77.7	48.5	108.45	2.6545	0.006
28.00	78.6	49.4	108.46	2.6250	0.006
28.50	79.6	50.4	108.47	2.5965	0.006
29.00	80.5	51.3	108.49	2.5690	0.006
29.50	81.5	52.3	108.49	2.5424	0.007

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11047 Hesse Petroleum Horton #1-36 DST #1

DATE: 08/14/98 TIME: 08:43:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
30.00	82.5	53.3	108.51	2.5167	0.007
30.50	83.4	54.2	108.52	2.4918	0.007
31.00	84.4	55.3	108.54	2.4677	0.007
31.50	85.4	56.2	108.55	2.4444	0.007
32.00	86.4	57.2	108.56	2.4219	0.007
32.50	87.4	58.2	108.57	2.4000	0.008
33.00	88.3	59.1	108.58	2.3788	0.008
33.50	89.3	60.1	108.59	2.3582	0.008
34.00	90.3	61.1	108.61	2.3382	0.008
34.50	91.3	62.1	108.61	2.3188	0.008
35.00	92.3	63.1	108.63	2.3000	0.009
35.50	93.3	64.1	108.64	2.2817	0.009
36.00	94.3	65.1	108.65	2.2639	0.009
36.50	95.3	66.2	108.66	2.2466	0.009
37.00	96.4	67.2	108.67	2.2297	0.009
37.50	97.4	68.2	108.69	2.2133	0.009
38.00	98.4	69.2	108.70	2.1974	0.01
38.50	99.4	70.3	108.71	2.1818	0.01
39.00	100.5	71.3	108.72	2.1667	0.010
39.50	101.5	72.3	108.74	2.1519	0.010
40.00	102.6	73.4	108.74	2.1375	0.011
40.50	103.7	74.5	108.76	2.1235	0.011
41.00	104.7	75.6	108.77	2.1098	0.011
41.50	105.8	76.6	108.78	2.0964	0.011
42.00	106.9	77.7	108.80	2.0833	0.011
42.50	108.0	78.8	108.81	2.0706	0.012
43.00	109.0	79.8	108.82	2.0581	0.012
43.50	110.2	81.1	108.83	2.0460	0.012
44.00	111.3	82.1	108.85	2.0341	0.012
44.50	112.4	83.2	108.86	2.0225	0.013
45.00	113.5	84.3	108.87	2.0111	0.013
45.50	114.6	85.4	108.89	2.0000	0.013
46.00	115.8	86.6	108.89	1.9891	0.013
46.50	116.9	87.7	108.91	1.9785	0.014
47.00	118.1	88.9	108.92	1.9681	0.014
47.50	119.2	90.0	108.93	1.9579	0.014
48.00	120.3	91.1	108.95	1.9479	0.014
48.50	121.5	92.4	108.96	1.9381	0.015
49.00	122.7	93.5	108.97	1.9286	0.015
49.50	123.9	94.7	108.99	1.9192	0.015
50.00	125.1	95.9	109.00	1.9100	0.016
50.50	126.3	97.1	109.01	1.9010	0.016
51.00	127.6	98.4	109.02	1.8922	0.016
51.50	128.8	99.6	109.03	1.8835	0.017
52.00	130.0	100.8	109.05	1.8750	0.017
52.50	131.1	101.9	109.07	1.8667	0.017
53.00	132.4	103.2	109.08	1.8585	0.018
53.50	133.7	104.5	109.09	1.8505	0.018
54.00	134.9	105.7	109.11	1.8426	0.018
54.50	136.1	107.0	109.11	1.8349	0.019
55.00	137.5	108.3	109.13	1.8273	0.019

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11047 Hesse Petroleum Horton #1-36 DST #1

DATE: 08/14/98 TIME: 08:43:34

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	55.50	138.8	109.6	109.14	1.8198	0.019
	56.00	140.1	110.9	109.15	1.8125	0.020
	56.50	141.4	112.2	109.17	1.8053	0.020
	57.00	142.7	113.5	109.18	1.7982	0.020
	57.50	144.0	114.8	109.19	1.7913	0.021
	58.00	145.3	116.2	109.21	1.7845	0.021
	58.50	146.6	117.5	109.22	1.7778	0.022
	59.00	148.0	118.8	109.23	1.7712	0.022
****** End Shut-in 1	59.50	149.3	120.1	109.24	1.7647	0.022
****** Start Flow 2	0.00	25.6	0.0	109.26		
	0.50	27.7	2.2	109.26		
	1.00	29.6	4.0	109.27		
	1.50	27.8	2.2	109.29		
	2.00	29.1	3.6	109.29		
	2.50	27.9	2.3	109.31		
	3.00	29.2	3.7	109.32		
	3.50	29.4	3.8	109.33		
	4.00	29.0	3.4	109.34		
	4.50	30.3	4.7	109.35		
	5.00	28.6	3.1	109.36		
	5.50	29.7	4.1	109.37		
	6.00	28.9	3.3	109.37		
	6.50	28.3	2.7	109.39		
	7.00	29.2	3.7	109.39		
	7.50	30.4	4.8	109.40		
	8.00	28.9	3.3	109.42		
	8.50	30.0	4.5	109.43		
	9.00	30.9	5.3	109.44		
	9.50	29.3	3.7	109.44		
	10.00	30.3	4.8	109.45		
	10.50	28.9	3.4	109.47		
	11.00	30.1	4.6	109.48		
	11.50	31.0	5.4	109.48		
	12.00	29.9	4.3	109.50		
	12.50	30.8	5.3	109.51		
	13.00	31.6	6.1	109.51		
	13.50	30.4	4.8	109.53		
	14.00	31.2	5.7	109.54		
	14.50	31.3	5.7	109.55		
	15.00	30.7	5.1	109.56		
	15.50	31.4	5.9	109.57		
	16.00	30.2	4.7	109.58		
	16.50	31.1	5.6	109.59		
	17.00	29.9	4.4	109.61		
	17.50	30.9	5.4	109.61		
	18.00	31.3	5.7	109.62		
	18.50	30.8	5.2	109.63		
	19.00	31.6	6.0	109.64		
	19.50	30.5	5.0	109.66		
	20.00	31.4	5.9	109.66		
	20.50	30.4	4.8	109.67		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11047 Hesse Petroleum Horton #1-36 DST #1

DATE: 08/14/98 TIME: 08:43:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
21.00	31.3	5.7	109.69		
21.50	31.8	6.3	109.70		
22.00	30.9	5.3	109.71		
22.50	31.6	6.1	109.72		
23.00	30.5	4.9	109.72		
23.50	31.5	5.9	109.74		
24.00	32.1	6.6	109.75		
24.50	31.3	5.7	109.76		
25.00	32.1	6.5	109.77		
25.50	31.0	5.4	109.78		
26.00	31.8	6.3	109.79		
26.50	30.8	5.3	109.80		
27.00	31.7	6.2	109.82		
27.50	32.3	6.7	109.82		
28.00	31.5	5.9	109.84		
28.50	32.2	6.6	109.83		
29.00	31.1	5.6	109.86		
29.50	32.0	6.4	109.85		
30.00	32.6	7.1	109.87		
30.50	31.6	6.1	109.87		
31.00	32.4	6.8	109.88		
31.50	32.9	7.3	109.89		
32.00	31.7	6.2	109.90		
32.50	32.4	6.8	109.91		
33.00	31.3	5.7	109.92		
33.50	32.0	6.5	109.93		
34.00	32.6	7.0	109.94		
34.50	31.6	6.1	109.95		
35.00	32.4	6.9	109.96		
35.50	31.5	5.9	109.97		
36.00	32.2	6.6	109.98		
36.50	32.9	7.3	109.99		
37.00	31.8	6.3	110.00		
37.50	32.5	6.9	110.01		
38.00	31.6	6.0	110.02		
38.50	32.4	6.8	110.03		
39.00	33.0	7.4	110.04		
39.50	33.5	8.0	110.05		
40.00	32.7	7.1	110.06		
40.50	33.2	7.6	110.07		
41.00	32.1	6.5	110.07		
41.50	32.8	7.2	110.08		
42.00	31.9	6.4	110.10		
42.50	32.7	7.1	110.10		
43.00	33.3	7.7	110.11		
43.50	33.7	8.2	110.12		
44.00	32.8	7.2	110.13		
44.50	33.4	7.8	110.14		
45.00	32.5	7.0	110.15		
45.50	33.1	7.6	110.16		
46.00	32.3	6.8	110.17		

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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	46.50	33.0	7.4	110.18		
	47.00	33.5	8.0	110.19		
	47.50	32.8	7.2	110.20		
	48.00	33.4	7.9	110.20		
	48.50	32.9	7.4	110.22		
	49.00	33.6	8.0	110.23		
	49.50	34.1	8.5	110.24		
	50.00	33.2	7.7	110.25		
	50.50	33.6	8.0	110.25		
	51.00	33.0	7.5	110.26		
	51.50	33.5	8.0	110.27		
	52.00	32.9	7.3	110.29		
	52.50	33.5	8.0	110.29		
	53.00	32.9	7.4	110.30		
	53.50	33.6	8.1	110.31		
	54.00	33.0	7.5	110.32		
	54.50	33.6	8.1	110.33		
	55.00	34.2	8.6	110.35		
	55.50	33.4	7.8	110.35		
	56.00	34.0	8.4	110.36		
	56.50	34.4	8.8	110.37		
	57.00	33.3	7.8	110.38		
	57.50	33.9	8.3	110.39		
	58.00	33.2	7.7	110.40		
	58.50	33.8	8.3	110.40		
	59.00	34.2	8.7	110.41		
	59.50	33.8	8.2	110.42		
	60.00	33.3	7.8	110.43		
	60.50	33.9	8.4	110.44		
	61.00	34.4	8.8	110.45		
	61.50	34.1	8.5	110.46		
	62.00	33.8	8.3	110.47		
	62.50	34.0	8.4	110.48		
	63.00	34.1	8.5	110.49		
	63.50	34.0	8.5	110.50		
	64.00	34.1	8.5	110.50		
	64.50	34.2	8.6	110.52		
	65.00	34.4	8.8	110.53		
****** End Flow 2	65.50	34.8	9.2	110.54		
****** Start Shutin 2	0.00	34.8	0.0	110.54	0.0000	0.001
	0.50	35.1	0.3	110.55	223.0000	0.001
	1.00	35.6	0.9	110.56	112.0000	0.001
	1.50	36.2	1.4	110.57	75.0000	0.001
	2.00	36.7	1.9	110.57	56.5000	0.001
	2.50	37.3	2.5	110.59	45.4000	0.001
	3.00	37.9	3.1	110.59	38.0000	0.001
	3.50	38.5	3.7	110.60	32.7143	0.001
	4.00	39.1	4.3	110.61	28.7500	0.002
	4.50	39.6	4.9	110.62	25.6667	0.002
	5.00	40.2	5.4	110.63	23.2000	0.002
	5.50	40.8	6.0	110.64	21.1818	0.002

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6.00	41.4	6.6	110.65	19.5000	0.002
6.50	42.0	7.2	110.66	18.0769	0.002
7.00	42.6	7.9	110.67	16.8571	0.002
7.50	43.3	8.5	110.67	15.8000	0.002
8.00	43.9	9.1	110.68	14.8750	0.002
8.50	44.4	9.7	110.69	14.0588	0.002
9.00	44.9	10.2	110.71	13.3333	0.002
9.50	45.6	10.8	110.71	12.6842	0.002
10.00	46.2	11.5	110.72	12.1000	0.002
10.50	46.8	12.1	110.74	11.5714	0.002
11.00	47.3	12.6	110.74	11.0909	0.002
11.50	47.9	13.2	110.75	10.6522	0.002
12.00	48.5	13.8	110.76	10.2500	0.002
12.50	49.1	14.3	110.77	9.8800	0.002
13.00	49.7	14.9	110.78	9.5385	0.002
13.50	50.4	15.6	110.78	9.2222	0.003
14.00	51.0	16.2	110.79	8.9286	0.003
14.50	51.6	16.8	110.80	8.6552	0.003
15.00	52.1	17.3	110.81	8.4000	0.003
15.50	52.6	17.9	110.82	8.1613	0.003
16.00	53.2	18.5	110.83	7.9375	0.003
16.50	53.8	19.1	110.84	7.7273	0.003
17.00	54.4	19.7	110.85	7.5294	0.003
17.50	55.1	20.3	110.86	7.3429	0.003
18.00	55.6	20.9	110.87	7.1667	0.003
18.50	56.2	21.5	110.87	7.0000	0.003
19.00	56.8	22.1	110.87	6.8421	0.003
19.50	57.4	22.6	110.89	6.6923	0.003
20.00	58.0	23.3	110.89	6.5500	0.003
20.50	58.6	23.9	110.90	6.4146	0.003
21.00	59.2	24.5	110.91	6.2857	0.004
21.50	59.8	25.1	110.92	6.1628	0.004
22.00	60.5	25.8	110.93	6.0455	0.004
22.50	61.2	26.4	110.94	5.9333	0.004
23.00	61.7	27.0	110.95	5.8261	0.004
23.50	62.3	27.5	110.95	5.7234	0.004
24.00	62.9	28.2	110.97	5.6250	0.004
24.50	63.6	28.8	110.97	5.5306	0.004
25.00	64.1	29.4	110.98	5.4400	0.004
25.50	64.9	30.1	110.99	5.3529	0.004
26.00	65.4	30.7	111.00	5.2692	0.004
26.50	66.1	31.3	111.00	5.1887	0.004
27.00	66.7	31.9	111.01	5.1111	0.004
27.50	67.2	32.5	111.03	5.0364	0.005
28.00	67.9	33.1	111.04	4.9643	0.005
28.50	68.5	33.7	111.02	4.8947	0.005
29.00	69.1	34.3	111.04	4.8276	0.005
29.50	69.7	35.0	111.06	4.7627	0.005
30.00	70.4	35.7	111.06	4.7000	0.005
30.50	71.0	36.3	111.07	4.6393	0.005
31.00	71.6	36.9	111.08	4.5806	0.005

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31.50	72.3	37.5	111.08	4.5238	0.005
32.00	72.9	38.2	111.08	4.4688	0.005
32.50	73.6	38.8	111.09	4.4154	0.005
33.00	74.3	39.5	111.11	4.3636	0.006
33.50	74.9	40.1	111.12	4.3134	0.006
34.00	75.5	40.8	111.11	4.2647	0.006
34.50	76.1	41.4	111.13	4.2174	0.006
35.00	76.8	42.1	111.13	4.1714	0.006
35.50	77.5	42.7	111.14	4.1268	0.006
36.00	78.1	43.4	111.15	4.0833	0.006
36.50	78.8	44.1	111.16	4.0411	0.006
37.00	79.5	44.7	111.16	4.0000	0.006
37.50	80.1	45.4	111.18	3.9600	0.006
38.00	80.8	46.0	111.18	3.9211	0.007
38.50	81.5	46.7	111.18	3.8831	0.007
39.00	82.1	47.4	111.19	3.8462	0.007
39.50	82.8	48.1	111.20	3.8101	0.007
40.00	83.5	48.8	111.21	3.7750	0.007
40.50	84.2	49.4	111.22	3.7407	0.007
41.00	84.9	50.2	111.22	3.7073	0.007
41.50	85.6	50.8	111.23	3.6747	0.007
42.00	86.4	51.6	111.24	3.6429	0.007
42.50	87.0	52.3	111.24	3.6118	0.008
43.00	87.8	53.1	111.24	3.5814	0.008
43.50	88.5	53.8	111.26	3.5517	0.008
44.00	89.2	54.4	111.27	3.5227	0.008
44.50	89.8	55.1	111.27	3.4944	0.008
45.00	90.5	55.8	111.28	3.4667	0.008
45.50	91.2	56.5	111.29	3.4396	0.008
46.00	92.0	57.2	111.29	3.4130	0.008
46.50	92.7	57.9	111.30	3.3871	0.009
47.00	93.4	58.7	111.31	3.3617	0.009
47.50	94.1	59.4	111.31	3.3368	0.009
48.00	94.9	60.1	111.32	3.3125	0.009
48.50	95.6	60.8	111.33	3.2887	0.009
49.00	96.4	61.6	111.33	3.2653	0.009
49.50	97.1	62.4	111.34	3.2424	0.009
50.00	97.9	63.1	111.35	3.2200	0.01
50.50	98.6	63.8	111.35	3.1980	0.01
51.00	99.4	64.6	111.36	3.1765	0.01
51.50	100.1	65.4	111.37	3.1553	0.010
52.00	101.0	66.2	111.37	3.1346	0.010
52.50	101.7	67.0	111.38	3.1143	0.010
53.00	102.5	67.8	111.39	3.0943	0.011
53.50	103.2	68.5	111.40	3.0748	0.011
54.00	104.0	69.2	111.40	3.0556	0.011
54.50	104.7	70.0	111.42	3.0367	0.011
55.00	105.5	70.8	111.41	3.0182	0.011
55.50	106.5	71.7	111.42	3.0000	0.011
56.00	107.2	72.5	111.43	2.9821	0.011
56.50	108.0	73.3	111.44	2.9646	0.012

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57.00	108.7	73.9	111.44	2.9474	0.012
57.50	109.5	74.7	111.45	2.9304	0.012
58.00	110.4	75.6	111.45	2.9138	0.012
58.50	111.2	76.4	111.46	2.8974	0.012
59.00	112.0	77.3	111.47	2.8814	0.013
59.50	112.9	78.1	111.48	2.8655	0.013
60.00	113.7	78.9	111.48	2.8500	0.013
60.50	114.5	79.8	111.49	2.8347	0.013
61.00	115.4	80.6	111.49	2.8197	0.013
61.50	116.2	81.5	111.50	2.8049	0.014
62.00	117.1	82.4	111.51	2.7903	0.014
62.50	118.0	83.2	111.52	2.7760	0.014
63.00	118.8	84.0	111.52	2.7619	0.014
63.50	119.6	84.9	111.53	2.7480	0.014
64.00	120.4	85.7	111.54	2.7344	0.015
64.50	121.3	86.5	111.55	2.7209	0.015
65.00	122.2	87.4	111.52	2.7077	0.015
65.50	123.1	88.4	111.55	2.6947	0.015
66.00	124.0	89.3	111.56	2.6818	0.015
66.50	125.0	90.3	111.56	2.6692	0.016
67.00	125.9	91.1	111.57	2.6567	0.016
67.50	126.8	92.0	111.57	2.6444	0.016
68.00	127.8	93.0	111.58	2.6324	0.016
68.50	128.6	93.9	111.59	2.6204	0.017
69.00	129.5	94.8	111.59	2.6087	0.017
69.50	130.4	95.6	111.60	2.5971	0.017
70.00	131.4	96.6	111.61	2.5857	0.017
70.50	132.2	97.5	111.61	2.5745	0.017
71.00	133.2	98.5	111.62	2.5634	0.018
71.50	134.1	99.4	111.62	2.5524	0.018
72.00	135.1	100.4	111.63	2.5417	0.018
72.50	136.0	101.3	111.64	2.5310	0.018
73.00	136.9	102.2	111.65	2.5205	0.019
73.50	137.9	103.1	111.65	2.5102	0.019
74.00	138.9	104.1	111.66	2.5000	0.019
74.50	139.9	105.1	111.66	2.4899	0.020
75.00	140.9	106.1	111.67	2.4800	0.020
75.50	141.8	107.1	111.67	2.4702	0.020
76.00	142.8	108.1	111.68	2.4605	0.020
76.50	143.9	109.1	111.69	2.4510	0.021
77.00	144.8	110.1	111.69	2.4416	0.021
77.50	145.9	111.2	111.70	2.4323	0.021
78.00	146.9	112.1	111.70	2.4231	0.022
78.50	148.0	113.2	111.71	2.4140	0.022
79.00	149.0	114.2	111.72	2.4051	0.022
79.50	150.0	115.2	111.72	2.3962	0.022
80.00	151.0	116.2	111.73	2.3875	0.023
80.50	152.0	117.3	111.74	2.3789	0.023
81.00	153.2	118.5	111.74	2.3704	0.023
81.50	154.2	119.5	111.74	2.3620	0.024
82.00	155.4	120.6	111.75	2.3537	0.024

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	82.50	156.5	121.8	111.75	2.3455	0.024
****** End Shut-in 2	83.00	157.6	122.8	111.76	2.3373	0.025
****** Final Hydro.	354.00	1798.9	0.0	111.83		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 11047

Well Name & No. Hartley 1-36 Test No. 1 Date 8-15-98

Company Hesse Petroleum Co LLC Zone Tested Mississippi

Address 400 N Woodlawn #D Wichita Ks 67208 Elevation 1757 KB 1748 GL

Co. Rep / Geo. Larry Friend Cont. Sterling #4 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 36 Twp. 23s Rge. 10w Co. Reno State Ks

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

Interval Tested 3695-3715 Initial Str Wt./Lbs. 65,000 Unseated Str Wt./Lbs. 65,000

Anchor Length 20 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 72,000

Top Packer Depth 3690 Tool Weight 2100

Bottom Packer Depth 3695 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 3715 Wt. Pipe Run ____ Drill Collar Run 4895

Mud Wt. 9.1 LCM ____ Vis. 47 WL 10.4 Drill Pipe Size 4½-XH Ft. Run 3206

Blow Description Weak ½" blow building to 7"
ISI - no blow
FF - ¾" blow building to

Recovery — Total Feet 30 GIP 300 Ft. in DC 30 Ft. in DP ____

Rec. 30 Feet Of SOCM %gas 5 %oil ____ %water 95 %mud

Rec. ____ Feet Of ____ %gas ____ %oil ____ %water ____ %mud

Rec. ____ Feet Of ____ %gas ____ %oil ____ %water ____ %mud

Rec. ____ Feet Of ____ %gas ____ %oil ____ %water ____ %mud

Rec. ____ Feet Of ____ %gas ____ %oil ____ %water ____ %mud

BHT 112 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides ____ ppm System

(A) Initial Hydrostatic Mud	1834 PSI	Recorder No.	3246	T-Started	0902
(B) First Initial Flow Pressure	30 PSI	(depth)	3697	T-Open	1022
(C) First Final Flow Pressure	30 PSI	Recorder No.	24174	T-Pulled	1437
(D) Initial Shut-in Pressure	112 PSI	(depth)	3050	T-Out	1555
(E) Second Initial Flow Pressure	37 PSI	Recorder No.			
(F) Second Final Flow Pressure	37 PSI	(depth)			
(G) Final Shut-in Pressure	134 PSI	Initial Opening	45	Test	600
(H) Final Hydrostatic Mud	1818 PSI	Initial Shut-in	60	Jars	
	A/L	Final Flow	60	Safety Joint	50
		Final Shut-in	90	Straddle	
			51.5 stands	Circ. Sub	
				Sampler	
				Extra Packer	
				Elect. Rec.	150
				Other	

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

Approved By Larry Friend

TRILOBITE TESTING L.L.C.

OPERATOR : Hesse Petroleum Co. LLC DATE 8-16-98
WELL NAME: Horton 1-36 KB 1757.00 ft TICKET NO: 11048 DST #2
LOCATION : 36-23s-10w Reno co. KS GR 1748.00 ft FORMATION: Viola
INTERVAL : 3891.00 To 3912.00 ft TD 3912.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	24174	24174	3246		
SI 60	Range(Psi)	3050.0	3050.0	4995.0	0.0	0.0
SF 45	Clock(hrs)	12	12	batt		
FS 60	Depth(ft)	3907.0	3907.0	3894.0	0.0	0.0

TIME DATA----------
PF Fr. 1159 to 1229 hr
IS Fr. 1229 to 1329 hr
SF Fr. 1329 to 1414 hr
FS Fr. 1414 to 1514 hr

	Field	1	2	3	4
A. Init Hydro	0.0	0.0	0.0	0.0	0.0
B. First Flow	0.0	0.0	0.0	0.0	0.0
B1. Final Flow	0.0	0.0	0.0	0.0	0.0
C. In Shut-in	0.0	0.0	0.0	0.0	0.0
D. Init Flow	0.0	0.0	0.0	0.0	0.0
E. Final Flow	0.0	0.0	0.0	0.0	0.0
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0
G. Final Hydro	0.0	0.0	0.0	0.0	0.0
Inside/Outside		o	o	i	

T STARTED 1045 hr
T ON BOTM 1157 hr
T OPEN 1159 hr
T PULLED 1514 hr
T OUT 1721 hr

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

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	120000.00 lbs
Initial Str Wt	65000.00 lbs
Unseated Str Wt	72000.00 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	485.00 ft
D.P. Length	3392.00 ft

RECOVERY
Tot Fluid 1540.00 ft of 485.00 ft in DC and 1055.00 ft in DP
120.00 ft of gas in pipe
0.00 ft of
1540.00 ft of gassy oil specked water 1% oil 96% water
0.00 ft of 3% mud
0.00 ft of
0.00 ft of Hit bridge broke Alpine battery and AK-1
0.00 ft of clock stoped---no pressures recorded
0.00 ft of Rw. .15 @ 97
SALINITY 33000.00 P.P.M. A.P.I. Gravity 0.00

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

Mud Type	Chemical
Weight	9.40 lb/c
Vis.	51.00 S/L
W.L.	11.20 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 F
Hole Condition	fair
% 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	Paul Simpson
Co. Rep.	Larry Friend
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
strong blow building to bottom
of bucket in 1 minute
Initial Shut-in:
weak surface blow

Final Flow:
weak 3/4" blow building to
3"

Final Shut-in:

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

/ELL NAME: Horton 1-36

.OCATION : 36-23s-10w Reno co. KS

'ICKET No. 11048 D.S.T. No. 2 DATE 8-16-98

'OTAL TOOL TO BOTTOM OF TOP PACKERS 22

:NTERVAL TOOL .....

3OTTOM PACKERS AND ANCHOR 21

'OTAL TOOL 43

)RILL COLLAR ANCHOR IN INTERVAL .....

).C. ANCHOR STND.Stands Single Total

).P. ANCHOR STND.Stands Single Total

'OTAL ASSEMBLY 43

).C. ABOVE TOOLS.Stands8 Single Total 485

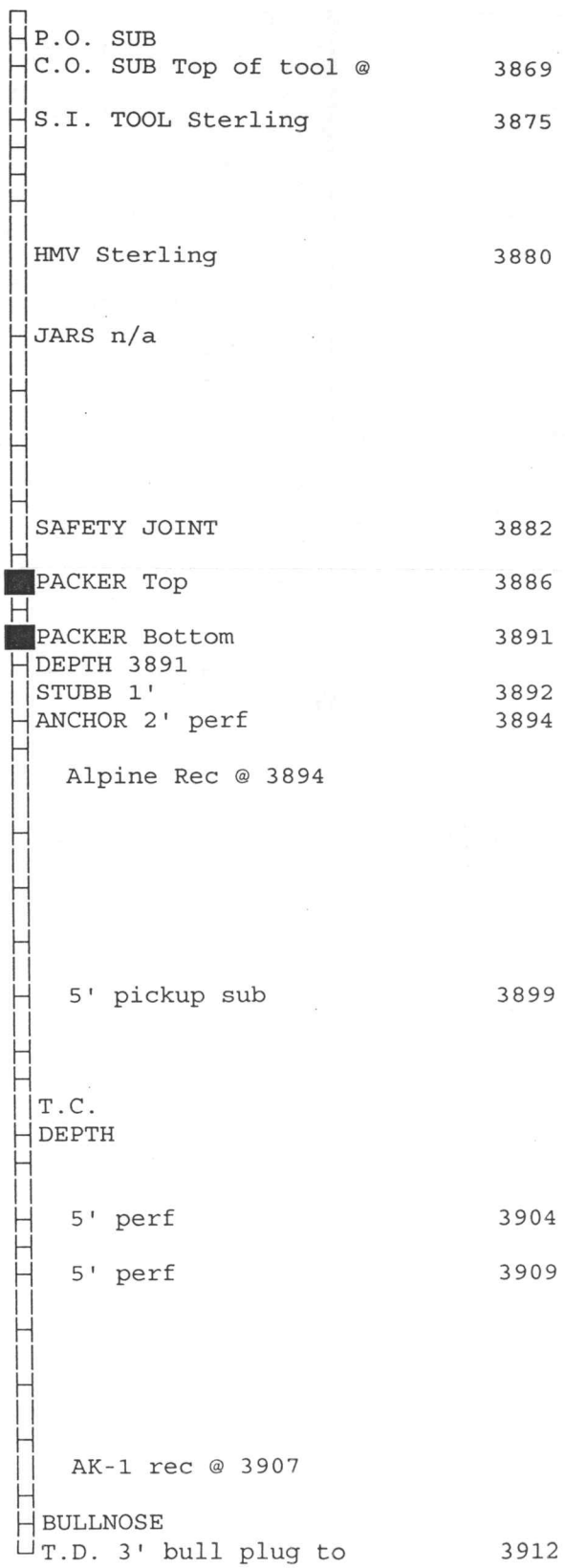
).P. ABOVE TOOLS.Stands54 Single 1 Total 3392

'OTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3920

'OTAL DEPTH 3912

'OTAL DRILL PIPE ABOVE K.B. 8

REMARKS:



TEST HISTORY

11048 Hesse Petroleuum LLC Horton 1-36 DST #2

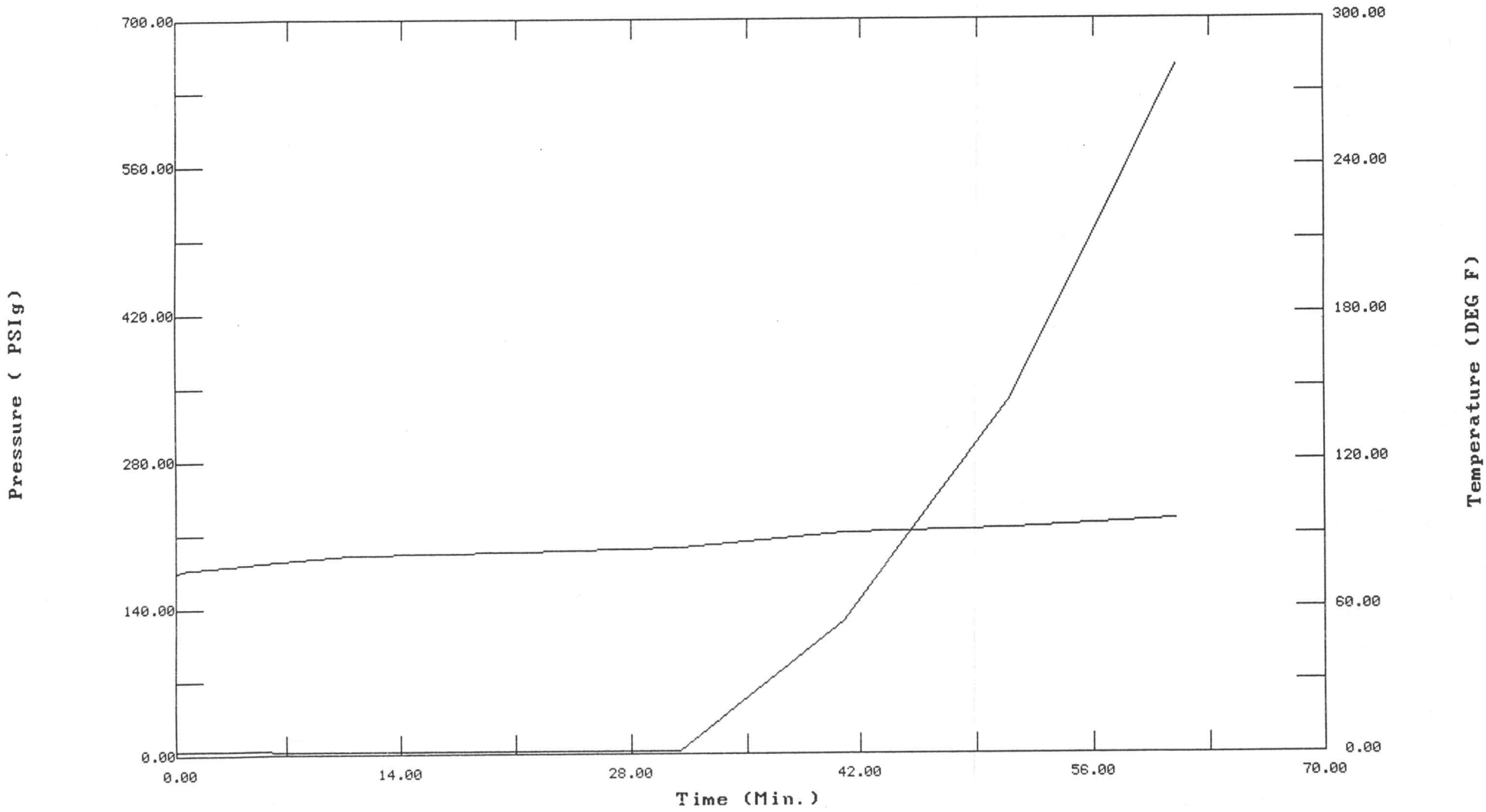
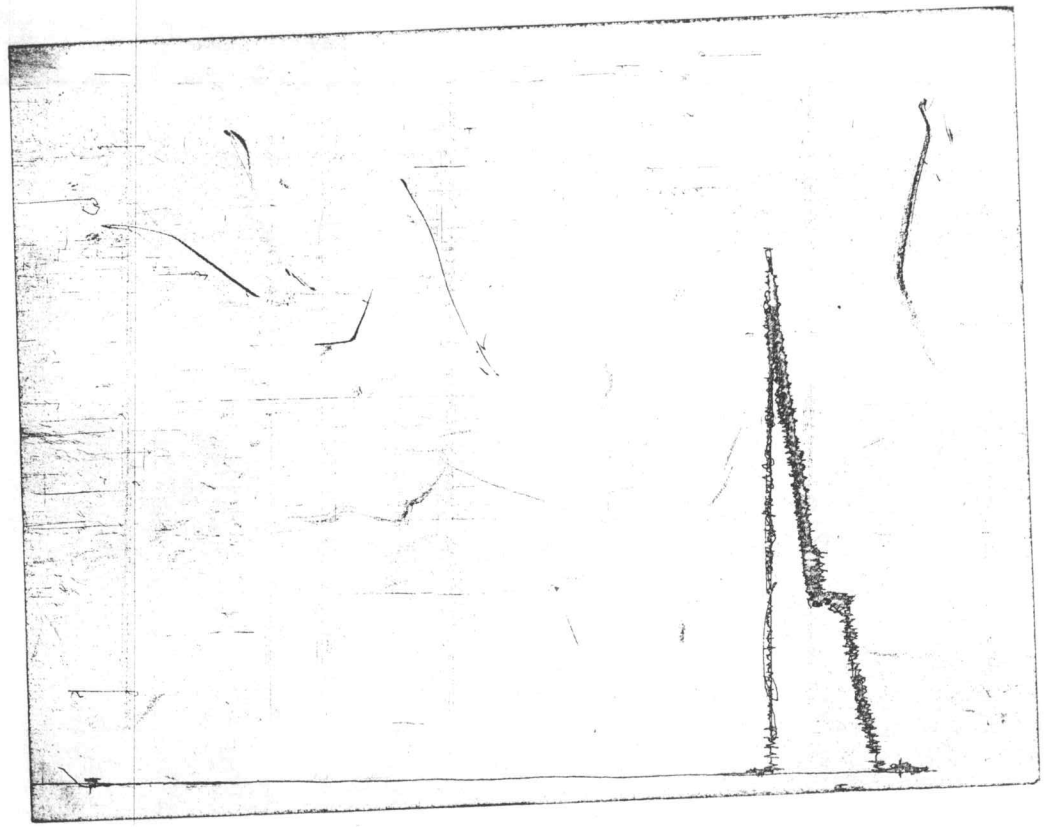


CHART PAGE



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

ORIGINAL

Sterling Drilling Company, Rig #4

Box 1006, Pratt, Kansas 67124-1006
Office Phone (316) 672-9508, Fax 672-9509

SAMPLE LOG — Horton 1-36

LOCATION: 2100' FSL & 1850' FEL of Section 36 T 23s R 10w
API: 15-155-214280000 Reno County, Kansas

CONFIDENTIAL

OWNER: Hesse Petroleum Company, LLC
CONTRACTOR: Sterling Drilling Company, Rig #4

COMMENCED: 08/10/98
COMPLETED: 08/17/98

TOTAL DEPTH: *DRILLER* 4055 *FEET*
LOGGER 4052 *FEET*

Ground Elevation: 1748
KB Elevation: 1757

LOG

0 -	134 FEET	Top Soil and Sand
134 -	225 FEET	Shale
225 -	4055 FEET	Shale, Limestone and Chert

COPY

CASING RECORDS

Spud @ 12:30 pm on 08-10-98. Drilled 12-1/4" hole to 225'. Ran 5 joints of 20# 8-5/8" surface casing 211.50' set at 223' KB. Cemented with 165 sacks 60/40 Poz, 2% Gel, 3% CC. Plug down at 4:30 pm on 08-10-98 by HOWCO. Good returns. Ticket # 394935.

Plugged well as follows:
Heavy mud from 4055' to 1400' then 35 sacks, then heavy mud to 900' then 35 sacks, then heavy mud to 270' then 35 sacks, then heavy mud to 60' then 25 sacks. Plugged rathole with 15 sacks and the mousehole with 10 sacks all using 60/40 Poz, 4% Gel. Plug down at 8:30 pm on 08-17-98 by Allied, ticket # 2505.

RELEASED
OCT 06 2000
FROM CONFIDENTIAL

DEVIATION SURVEYS

KCC
08 28
CONFIDENTIAL

1/2	*degree(s) at*	*225*	*feet*
1	*degree(s) at*	*3715*	*feet*