15-135-23949

12-17s-22w

WELL NAME: Thompson #12-14
COMPANY: Plainsco LTD.
LOCATION: Sec. 12 Twp. 17 Rge. 22
Ness County Kansas
DATE: 10-8-96

TRILOBITE TESTING L.L.C.

OPERATOR : Plainsco LTD. DATE 10-07-96
WELL NAME: Thompson #12-14 KB 2328.00 ft TICKET NO: 9444 DST #1
LOCATION : 12-17s-22w Ness KS GR 2320.00 ft FORMATION: Cherokee "A" Sand
INTERVAL : 4235.00 To 4257.00 ft TD 4257.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10332	10332	ALPINE		
SI 30	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF 45	Clock(hrs)	12	12	BATT		
FS 45	Depth(ft)	4252.0	4252.0	4236.0	0.0	0.0

TIME DATA----------
PF Fr. 0712 to 0742 hr
IS Fr. 0742 to 0812 hr
SF Fr. 0812 to 0857 hr
FS Fr. 0857 to 0942 hr

	Field	1	2	3	4
A. Init Hydro	2168.0	2148.0	2110.0	0.0	0.0
B. First Flow	41.0	65.0	21.0	0.0	0.0
B1. Final Flow	51.0	73.0	34.0	0.0	0.0
C. In Shut-in	486.0	460.0	497.0	0.0	0.0
D. Init Flow	51.0	55.0	22.0	0.0	0.0
E. Final Flow	61.0	68.0	38.0	0.0	0.0
F. Fl Shut-in	486.0	476.0	500.0	0.0	0.0
G. Final Hydro	2118.0	2056.0	2106.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0555 hr
T ON BOTM 0710 hr
T OPEN 0712 hr
T PULLED 0942 hr
T OUT 1100 hr

RECOVERY
Tot Fluid 65.00 ft of 30.00 ft in DC and 35.00 ft in DP
200.00 ft of gas in pipe
0.00 ft of
5.00 ft of clean gassy oil 5% gas 95% oil
0.00 ft of
60.00 ft of mud cut oil 50% oil 50% mud
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 4500.00 P.P.M. A.P.I. Gravity 42.00

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

Tool Wt.	2600.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	60000.00 lbs
Initial Str Wt	44000.00 lbs
Unseated Str Wt	45000.00 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	30.00 ft
D.P. Length	4210.00 ft

BLOW DESCRIPTION
Initial Flow -
1/2" blow building to 3"

Final Flow -
1/2" blow building to 7 1/2"

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

Mud Type	Chem
Weight	9.20 lb/cf
Vis.	49.00 S/L
W.L.	10.60 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Rich O' Donnell
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Thompson #12-14

LOCATION : 12-17s-22w Ness KS

TICKET No. 9444 D.S.T. No. 1 DATE 10-07-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 22

TOTAL TOOL 49

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 49

D.C. ABOVE TOOLS.Stands Single 1 Total 30

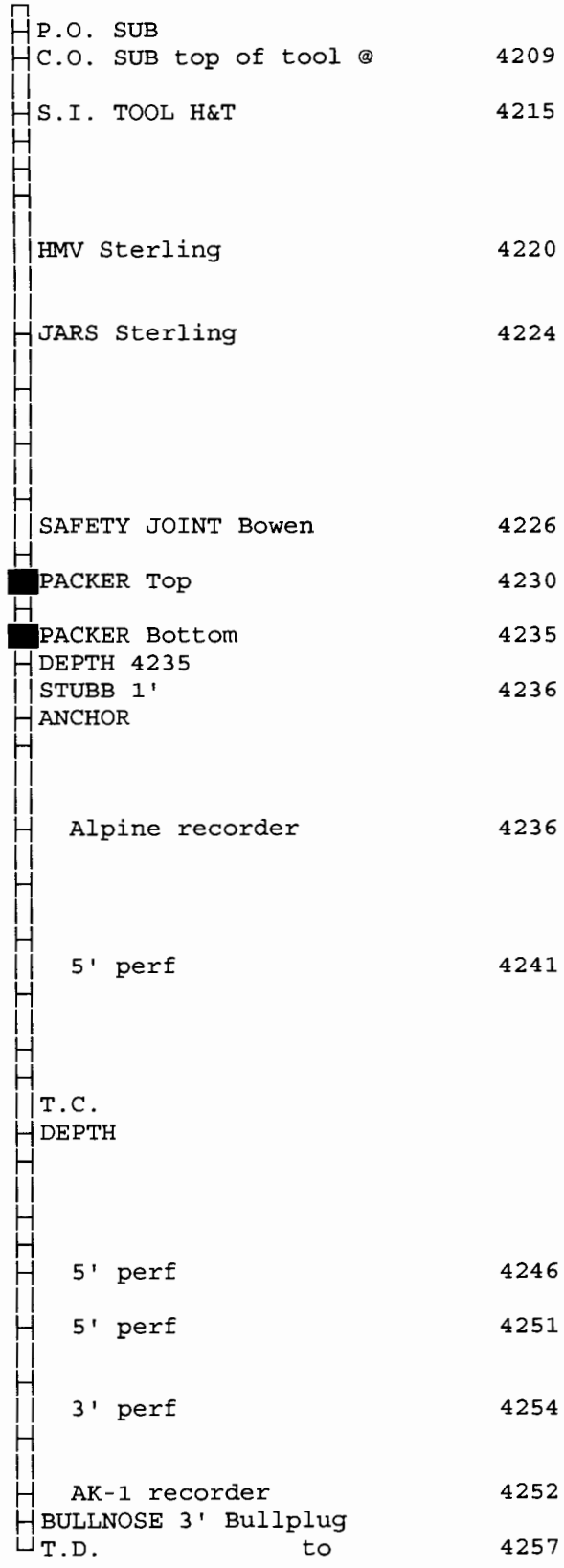
D.P. ABOVE TOOLS.Stands64 Single Total 4210

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4289

TOTAL DEPTH 4257

TOTAL DRILL PIPE ABOVE K.B. 32

REMARKS:



TEST HISTORY

9444 Plainsco LTD. #12-14 Thompson DST #1

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2110.19
B:	0.00	21.48
C:	29.00	34.23
D:	31.00	496.84
E:	0.00	21.64
F:	44.50	38.51
G:	47.50	499.87
Q:	0.00	2106.58

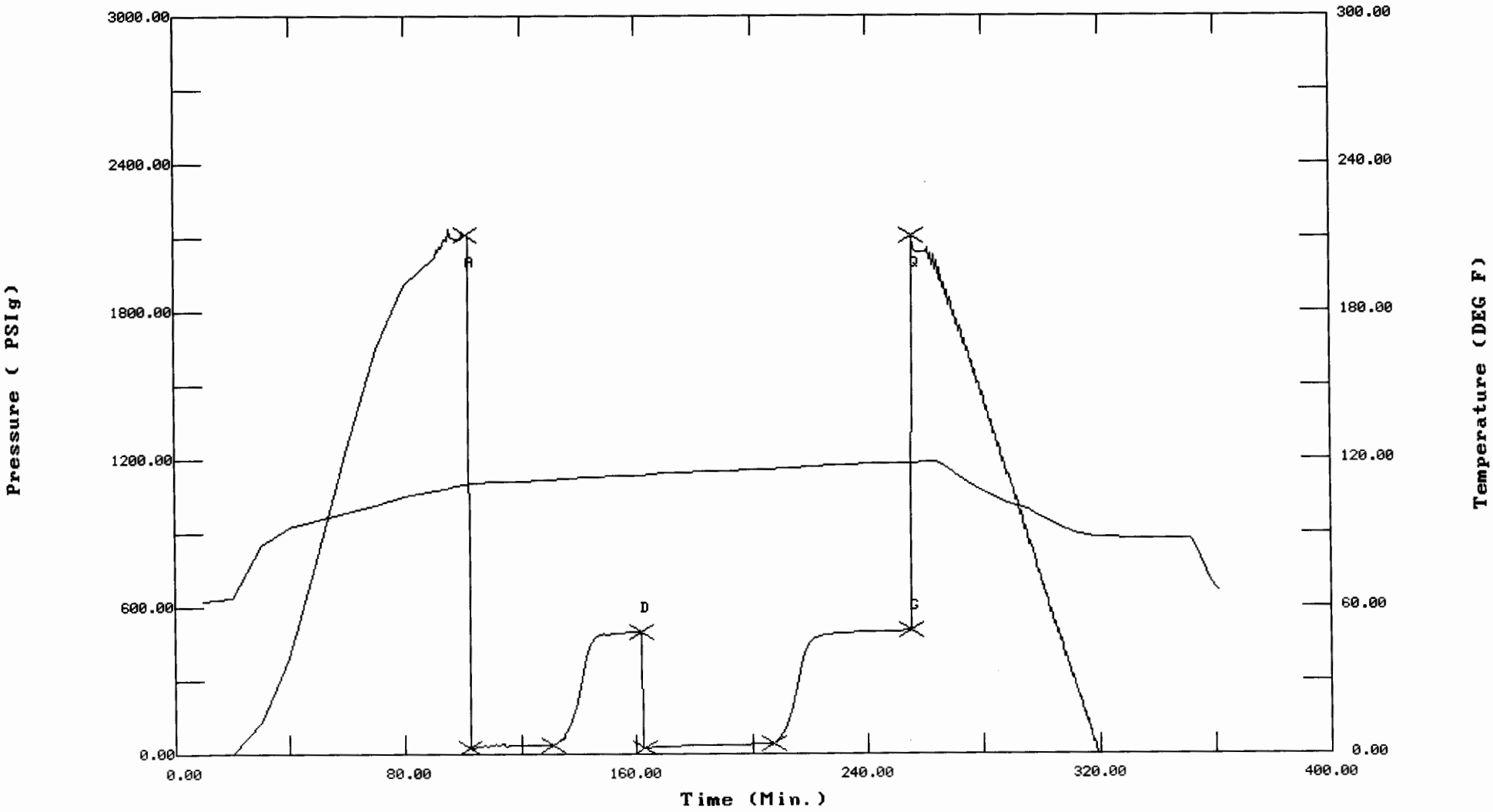
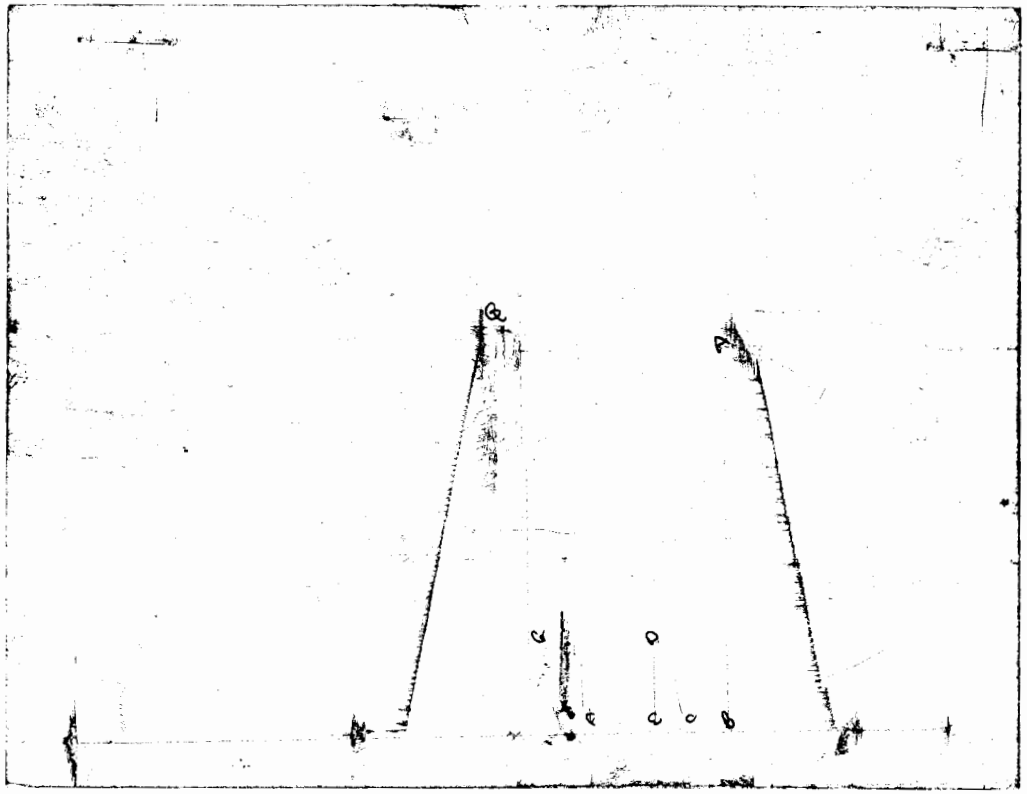


CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9444 Plainsco LTD. #12-14 Thompson DST #1

DATE: 10/07/96 TIME: 05:36:13

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	101.00	2110.2	0.0	109.96		
****** Start Flow 1	0.00	21.5	0.0	110.07		
	0.50	21.9	0.4	110.14		
	1.00	23.0	1.5	110.21		
	1.50	23.3	1.8	110.27		
	2.00	23.9	2.4	110.32		
	2.50	25.5	4.0	110.36		
	3.00	25.4	3.9	110.41		
	3.50	26.2	4.7	110.44		
	4.00	27.8	6.3	110.47		
	4.50	29.9	8.4	110.52		
	5.00	35.7	14.3	110.56		
	5.50	35.3	13.8	110.60		
	6.00	28.8	7.3	110.65		
	6.50	29.6	8.1	110.69		
	7.00	31.8	10.3	110.72		
	7.50	36.6	15.1	110.76		
	8.00	33.6	12.1	110.78		
	8.50	33.9	12.4	110.80		
	9.00	39.1	17.6	110.82		
	9.50	31.5	10	110.83		
	10.00	32.1	10.7	110.85		
	10.50	33.9	12.4	110.86		
	11.00	38.9	17.5	110.88		
	11.50	41.6	20.1	110.89		
	12.00	37.8	16.3	110.90		
	12.50	29.5	8.1	110.91		
	13.00	30.6	9.1	110.93		
	13.50	31.7	10.2	110.93		
	14.00	32.0	10.5	110.95		
	14.50	31.4	9.9	110.96		
	15.00	31.0	9.6	110.97		
	15.50	31.5	10.1	110.99		
	16.00	32.0	10.5	111.01		
	16.50	32.3	10.8	111.02		
	17.00	32.1	10.6	111.04		
	17.50	31.6	10.2	111.05		
	18.00	31.7	10.2	111.07		
	18.50	32.4	10.9	111.08		
	19.00	32.2	10.7	111.11		
	19.50	32.4	10.9	111.12		
	20.00	32.5	11.0	111.14		
	20.50	32.7	11.2	111.16		
	21.00	33.1	11.6	111.18		
	21.50	32.7	11.2	111.20		
	22.00	32.6	11.1	111.22		
	22.50	32.6	11.2	111.24		
	23.00	32.9	11.4	111.27		
	23.50	33.1	11.7	111.30		
	24.00	33.8	12.3	111.33		
	24.50	33.4	11.9	111.37		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9444 Plainsco LTD. #12-14 Thompson DST #1

DATE: 10/07/96 TIME: 05:36:13

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	33.1	11.7	111.41		
	25.50	33.6	12.1	111.44		
	26.00	33.6	12.2	111.48		
	26.50	33.6	12.2	111.51		
	27.00	34.0	12.5	111.54		
	27.50	34.1	12.7	111.58		
	28.00	34.1	12.7	111.62		
	28.50	34.1	12.7	111.65		
****** End Flow 1	29.00	34.2	12.8	111.69		
****** Start Shutin 1	0.00	34.2	0.0	111.69	0.0000	0.001
	0.50	36.9	2.7	111.73	59.0000	0.001
	1.00	41.2	7.0	111.76	30.0000	0.002
	1.50	45.4	11.2	111.80	20.3333	0.002
	2.00	49.4	15.2	111.84	15.5000	0.002
	2.50	54.8	20.6	111.88	12.6000	0.003
	3.00	60.5	26.3	111.93	10.6667	0.004
	3.50	66.6	32.4	111.97	9.2857	0.004
	4.00	73.3	39.1	112.01	8.2500	0.005
	4.50	81.1	46.8	112.05	7.4444	0.007
	5.00	89.6	55.4	112.09	6.8000	0.008
	5.50	99.3	65.0	112.13	6.2727	0.01
	6.00	110.1	75.9	112.16	5.8333	0.012
	6.50	122.4	88.2	112.19	5.4615	0.015
	7.00	136.5	102.2	112.24	5.1429	0.019
	7.50	152.6	118.3	112.27	4.8667	0.023
	8.00	171.2	137.0	112.31	4.6250	0.029
	8.50	192.4	158.1	112.35	4.4118	0.037
	9.00	216.5	182.3	112.38	4.2222	0.047
	9.50	243.7	209.5	112.42	4.0526	0.059
	10.00	273.5	239.3	112.45	3.9000	0.075
	10.50	304.8	270.6	112.49	3.7619	0.093
	11.00	336.3	302.1	112.53	3.6364	0.113
	11.50	366.3	332.0	112.56	3.5217	0.134
	12.00	392.7	358.5	112.60	3.4167	0.154
	12.50	414.8	380.5	112.63	3.3200	0.172
	13.00	432.6	398.3	112.66	3.2308	0.187
	13.50	446.4	412.2	112.70	3.1481	0.199
	14.00	457.0	422.7	112.73	3.0714	0.209
	14.50	465.0	430.8	112.76	3.0000	0.216
	15.00	471.2	437.0	112.79	2.9333	0.222
	15.50	475.9	441.7	112.83	2.8710	0.227
	16.00	479.7	445.5	112.87	2.8125	0.230
	16.50	482.7	448.4	112.89	2.7576	0.233
	17.00	485.1	450.9	112.92	2.7059	0.235
	17.50	487.1	452.9	112.95	2.6571	0.237
	18.00	488.8	454.6	112.98	2.6111	0.239
	18.50	483.7	449.4	113.01	2.5676	0.234
	19.00	484.9	450.7	113.04	2.5263	0.235
	19.50	486.0	451.8	113.06	2.4872	0.236
	20.00	486.9	452.7	113.09	2.4500	0.237
	20.50	487.9	453.6	113.12	2.4146	0.238

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9444 Plainsco LTD. #12-14 Thompson DST #1

DATE: 10/07/96 TIME: 05:36:13

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	21.00	488.6	454.4	113.14	2.3810	0.239
	21.50	489.3	455.1	113.16	2.3488	0.239
	22.00	490.0	455.7	113.19	2.3182	0.240
	22.50	490.6	456.4	113.21	2.2889	0.241
	23.00	491.1	456.9	113.23	2.2609	0.241
	23.50	491.6	457.4	113.26	2.2340	0.242
	24.00	492.1	457.9	113.28	2.2083	0.242
	24.50	492.6	458.3	113.30	2.1837	0.243
	25.00	493.1	458.8	113.32	2.1600	0.243
	25.50	493.5	459.3	113.34	2.1373	0.244
	26.00	493.8	459.6	113.37	2.1154	0.244
	26.50	494.2	460.0	113.38	2.0943	0.244
	27.00	494.6	460.3	113.41	2.0741	0.245
	27.50	494.8	460.6	113.43	2.0545	0.245
	28.00	495.2	461.0	113.45	2.0357	0.245
	28.50	495.6	461.4	113.47	2.0175	0.246
	29.00	495.8	461.6	113.49	2.0000	0.246
	29.50	496.2	461.9	113.51	1.9831	0.246
	30.00	496.3	462.1	113.53	1.9667	0.246
	30.50	496.7	462.4	113.55	1.9508	0.247
****** End Shut-in 1	31.00	496.8	462.6	113.57	1.9355	0.247
****** Start Flow 2	0.00	21.6	0.0	113.58		
	0.50	22.4	0.8	113.60		
	1.00	23.9	2.3	113.63		
	1.50	23.7	2.0	113.68		
	2.00	24.0	2.4	113.74		
	2.50	25.3	3.7	113.81		
	3.00	26.0	4.4	113.89		
	3.50	27.9	6.2	113.96		
	4.00	27.7	6.0	114.03		
	4.50	28.0	6.4	114.10		
	5.00	28.2	6.5	114.16		
	5.50	29.5	7.8	114.22		
	6.00	29.5	7.8	114.27		
	6.50	29.2	7.6	114.31		
	7.00	29.5	7.9	114.36		
	7.50	29.5	7.9	114.39		
	8.00	29.7	8.1	114.43		
	8.50	29.9	8.2	114.46		
	9.00	29.9	8.2	114.49		
	9.50	29.9	8.2	114.52		
	10.00	30.0	8.3	114.55		
	10.50	30.3	8.6	114.57		
	11.00	30.5	8.8	114.59		
	11.50	30.5	8.9	114.61		
	12.00	30.6	9.0	114.63		
	12.50	30.6	9.0	114.64		
	13.00	30.7	9.1	114.66		
	13.50	31.3	9.6	114.68		
	14.00	31.3	9.6	114.70		
	14.50	31.2	9.6	114.71		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9444 Plainsco LTD. #12-14 Thompson DST #1

DATE: 10/07/96 TIME: 05:36:13

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
15.00	31.7	10.1	114.73		
15.50	31.7	10.1	114.75		
16.00	31.8	10.2	114.77		
16.50	32.1	10.4	114.78		
17.00	32.5	10.8	114.80		
17.50	32.6	11.0	114.81		
18.00	32.9	11.2	114.83		
18.50	32.9	11.2	114.85		
19.00	32.9	11.2	114.87		
19.50	33.4	11.7	114.88		
20.00	32.7	11.1	114.90		
20.50	33.2	11.6	114.92		
21.00	34.4	12.8	114.93		
21.50	33.5	11.8	114.96		
22.00	33.1	11.4	114.98		
22.50	34.3	12.7	114.99		
23.00	33.8	12.2	115.02		
23.50	34.0	12.3	115.03		
24.00	34.4	12.8	115.06		
24.50	34.2	12.6	115.07		
25.00	34.6	12.9	115.09		
25.50	34.6	12.9	115.11		
26.00	34.3	12.7	115.14		
26.50	34.9	13.3	115.17		
27.00	34.7	13.1	115.18		
27.50	35.2	13.5	115.20		
28.00	35.4	13.8	115.22		
28.50	35.6	13.9	115.25		
29.00	35.7	14.1	115.28		
29.50	35.7	14.0	115.29		
30.00	35.8	14.2	115.31		
30.50	35.8	14.2	115.34		
31.00	35.9	14.3	115.36		
31.50	35.9	14.3	115.38		
32.00	36.0	14.3	115.39		
32.50	36.0	14.3	115.41		
33.00	36.0	14.3	115.44		
33.50	36.1	14.4	115.46		
34.00	36.2	14.6	115.48		
34.50	36.3	14.7	115.51		
35.00	36.4	14.8	115.53		
35.50	36.5	14.9	115.57		
36.00	36.6	14.9	115.58		
36.50	36.7	15.0	115.61		
37.00	36.8	15.1	115.64		
37.50	36.8	15.2	115.66		
38.00	36.9	15.3	115.68		
38.50	36.9	15.3	115.71		
39.00	37.1	15.4	115.74		
39.50	37.1	15.4	115.75		
40.00	37.2	15.5	115.79		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9444 Plainsco LTD. #12-14 Thompson DST #1

DATE: 10/07/96 TIME: 05:36:13

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	40.50	37.2	15.5	115.81		
	41.00	37.3	15.7	115.83		
	41.50	37.3	15.7	115.85		
	42.00	37.4	15.8	115.88		
	42.50	37.6	15.9	115.90		
	43.00	37.6	15.9	115.91		
	43.50	37.7	16.0	115.93		
	44.00	37.8	16.2	115.95		
****** End Flow 2	44.50	38.5	16.9	115.97		
****** Start Shutin 2	0.00	38.5	0.0	115.97	0.0000	0.001
	0.50	44.7	6.2	115.99	148.0000	0.002
	1.00	51.3	12.8	116.01	74.5000	0.003
	1.50	58.3	19.8	116.03	50.0000	0.003
	2.00	66.0	27.5	116.05	37.7500	0.004
	2.50	74.7	36.2	116.08	30.4000	0.006
	3.00	84.3	45.8	116.10	25.5000	0.007
	3.50	95.0	56.5	116.14	22.0000	0.009
	4.00	106.9	68.4	116.16	19.3750	0.011
	4.50	120.3	81.8	116.20	17.3333	0.014
	5.00	135.6	97.1	116.23	15.7000	0.018
	5.50	152.8	114.3	116.26	14.3636	0.023
	6.00	172.5	133.9	116.31	13.2500	0.030
	6.50	194.5	156.0	116.34	12.3077	0.038
	7.00	219.6	181.1	116.39	11.5000	0.048
	7.50	247.2	208.6	116.43	10.8000	0.061
	8.00	276.7	238.2	116.47	10.1875	0.077
	8.50	307.1	268.6	116.52	9.6471	0.094
	9.00	336.9	298.4	116.56	9.1667	0.113
	9.50	364.5	326.0	116.62	8.7368	0.133
	10.00	388.7	350.1	116.66	8.3500	0.151
	10.50	409.0	370.5	116.71	8.0000	0.167
	11.00	425.2	386.7	116.75	7.6818	0.181
	11.50	438.0	399.5	116.81	7.3913	0.192
	12.00	447.9	409.4	116.85	7.1250	0.201
	12.50	455.6	417.1	116.89	6.8800	0.208
	13.00	461.6	423.1	116.93	6.6538	0.213
	13.50	466.2	427.7	116.97	6.4444	0.217
	14.00	469.8	431.3	117.01	6.2500	0.221
	14.50	472.8	434.2	117.04	6.0690	0.223
	15.00	475.2	436.7	117.08	5.9000	0.226
	15.50	477.2	438.7	117.12	5.7419	0.228
	16.00	479.0	440.5	117.15	5.5938	0.229
	16.50	480.3	441.8	117.19	5.4545	0.231
	17.00	481.6	443.1	117.21	5.3235	0.232
	17.50	482.7	444.1	117.25	5.2000	0.233
	18.00	483.7	445.2	117.28	5.0833	0.234
	18.50	484.6	446.1	117.31	4.9730	0.235
	19.00	485.3	446.8	117.34	4.8684	0.236
	19.50	486.1	447.6	117.37	4.7692	0.236
	20.00	486.7	448.2	117.40	4.6750	0.237
	20.50	487.4	448.8	117.42	4.5854	0.238

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9444 Plainsco LTD. #12-14 Thompson DST #1

DATE: 10/07/96 TIME: 05:36:13

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
21.00	487.9	449.4	117.45	4.5000	0.238
21.50	488.5	450.0	117.48	4.4186	0.239
22.00	489.0	450.5	117.51	4.3409	0.239
22.50	489.5	450.9	117.54	4.2667	0.240
23.00	490.0	451.4	117.56	4.1957	0.240
23.50	490.4	451.9	117.58	4.1277	0.240
24.00	490.8	452.3	117.61	4.0625	0.241
24.50	491.2	452.7	117.63	4.0000	0.241
25.00	491.6	453.1	117.65	3.9400	0.242
25.50	492.0	453.5	117.68	3.8824	0.242
26.00	492.3	453.8	117.69	3.8269	0.242
26.50	492.6	454.1	117.71	3.7736	0.243
27.00	492.9	454.4	117.72	3.7222	0.243
27.50	493.2	454.7	117.75	3.6727	0.243
28.00	493.5	455.0	117.76	3.6250	0.244
28.50	493.7	455.2	117.78	3.5789	0.244
29.00	494.1	455.6	117.79	3.5345	0.244
29.50	494.3	455.8	117.82	3.4915	0.244
30.00	494.6	456.1	117.82	3.4500	0.245
30.50	494.8	456.3	117.83	3.4098	0.245
31.00	495.0	456.5	117.85	3.3710	0.245
31.50	495.2	456.7	117.86	3.3333	0.245
32.00	495.5	457.0	117.87	3.2969	0.246
32.50	495.7	457.2	117.88	3.2615	0.246
33.00	495.9	457.4	117.89	3.2273	0.246
33.50	496.2	457.7	117.90	3.1940	0.246
34.00	496.3	457.8	117.91	3.1618	0.246
34.50	496.4	457.9	117.92	3.1304	0.246
35.00	496.8	458.2	117.92	3.1000	0.247
35.50	496.8	458.3	117.94	3.0704	0.247
36.00	497.0	458.5	117.95	3.0417	0.247
36.50	497.3	458.7	117.96	3.0137	0.247
37.00	497.3	458.7	117.97	2.9865	0.247
37.50	497.5	459.0	117.97	2.9600	0.248
38.00	497.7	459.2	117.99	2.9342	0.248
38.50	497.8	459.3	118.00	2.9091	0.248
39.00	497.9	459.4	118.01	2.8846	0.248
39.50	498.0	459.5	118.01	2.8608	0.248
40.00	498.2	459.7	118.02	2.8375	0.248
40.50	498.4	459.8	118.03	2.8148	0.248
41.00	498.4	459.9	118.04	2.7927	0.248
41.50	498.5	460.0	118.05	2.7711	0.249
42.00	498.6	460.1	118.06	2.7500	0.249
42.50	498.8	460.3	118.06	2.7294	0.249
43.00	498.9	460.4	118.07	2.7093	0.249
43.50	499.0	460.5	118.08	2.6897	0.249
44.00	499.1	460.6	118.09	2.6705	0.249
44.50	499.2	460.7	118.10	2.6517	0.249
45.00	499.3	460.8	118.10	2.6333	0.249
45.50	499.4	460.8	118.11	2.6154	0.249
46.00	499.5	461.0	118.12	2.5978	0.250

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9444 Plainsco LTD. #12-14 Thompson DST #1

DATE: 10/07/96 TIME: 05:36:13

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	46.50	499.6	461.1	118.13	2.5806	0.250
	47.00	499.7	461.2	118.13	2.5638	0.250
****** End Shut-in 2	47.50	499.9	461.4	118.14	2.5474	0.250
****** Final Hydro.	255.50	2106.6	0.0	118.21		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 9444

Well Name & No. Thompson 12-14 Test No. 1 Date 10-7-96

Company Plainsco LTD Zone Tested Cherokee Sand

Address 1776 Lincoln #1314 Denver Co 80203 Elevation 2328 KB 2320 GL

Co. Rep / Geo. Rich O'Donnell Cont. Discovery #1 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 12 Twp. 17s Rge. 22w Co. Ness State Ks

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

Interval Tested 4235 - 4257 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 45,000

Anchor Length 22 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000

Top Packer Depth 4230 Tool Weight 2600

Bottom Packer Depth 4235 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 4257 Wt. Pipe Run ____ Drill Collar Run 30

Mud Wt. 9.2 LCM ____ Vis. 49 WL 10.6 Drill Pipe Size 4½ XH Ft. Run 4270

Blow Description ½" blow building to 3"

FF ½" blow blow building to 7½

Recovery — Total Feet 65 GIP 200 Ft. in DC 30 Ft. in DP 35

Rec. 5	Feet Of clean gassy oil	%gas 95	%oil	%water	%mud	
Rec. 60	Feet Of MCO	%gas 50	%oil	%water	50	%mud
Rec. ____	Feet Of	%gas	%oil	%water	%mud	
Rec. ____	Feet Of	%gas	%oil	%water	%mud	
Rec. ____	Feet Of	%gas	%oil	%water	%mud	

BHT 110 °F Gravity 42 °API D@ 60 °F Corrected Gravity 42 °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 4560 ppm System

(A) Initial Hydrostatic Mud	2168	2110 PSI	Recorder No.	2342	T-Started 0555
(B) First Initial Flow Pressure	41	21 PSI	(depth)	4236	T-Open 0712
(C) First Final Flow Pressure	51	34 PSI	Recorder No.	10332	T-Pulled 0942
(D) Initial Shut-in Pressure	486	497 PSI	(depth)	4252	T-Out 1100
(E) Second Initial Flow Pressure	51	22 PSI	Recorder No.		
(F) Second Final Flow Pressure	61	38 PSI	(depth)		
(G) Final Shut-in Pressure	486	500 PSI	Initial Opening	30	Test 600
(H) Final Hydrostatic Mud	2118	2106 PSI	Initial Shut-in	[redacted]	Jars X 200
			Final Flow		Safety Joint X 50
			Final Shut-in	45	Straddle ____
					Circ. Sub ____
			68.5		Sampler ____
					Extra Packer ____
					Elect. Rec. X 150
					Other ____
					TOTAL PRICE $ 1000

AK-1

Approved By Rich O'Donnell

Our Representative Carl Simpson

TRILOBITE TESTING L.L.C.

OPERATOR : Plainsco LTD. DATE 10-08-96
WELL NAME: Thompson #12-14 KB 2328.00 ft TICKET NO: 9445 DST #2
LOCATION : 12-17s-22w Ness KS GR 2320.00 ft FORMATION: Mississippi
INTERVAL : 4269.00 To 4326.00 ft TD 4326.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 15	Rec.	10332	10332	ALPINE		
SI 30	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF 15	Clock(hrs)	12	12	BATT		
FS 30	Depth(ft)	4321.0	4321.0	4272.0	0.0	0.0

TIME DATA----------
PF Fr. 0110 to 0125 hr
IS Fr. 0125 to 0155 hr
SF Fr. 0155 to 0210 hr
FS Fr. 0210 to 0240 hr

	Field	1	2	3	4
A. Init Hydro	2158.0	2242.0	2165.0	0.0	0.0
B. First Flow	51.0	49.0	27.0	0.0	0.0
B1. Final Flow	51.0	57.0	31.0	0.0	0.0
C. In Shut-in	192.0	201.0	191.0	0.0	0.0
D. Init Flow	51.0	59.0	31.0	0.0	0.0
E. Final Flow	51.0	59.0	33.0	0.0	0.0
F. Fl Shut-in	132.0	107.0	96.0	0.0	0.0
G. Final Hydro	2128.0	2086.0	2109.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0000 hr
T ON BOTM 0108 hr
T OPEN 1110 hr
T PULLED 0240 hr
T OUT 0405 hr

RECOVERY
Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP
5.00 ft of mud with oil specks
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2600.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	80000.00 lbs
Initial Str Wt	44000.00 lbs
Unseated Str Wt	44000.00 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	30.00 ft
D.P. Length	4241.00 ft

BLOW DESCRIPTION
Initial Flow -
Weak 1/2" Blow

Final Flow -
no blow

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

Mud Type	Chem
Weight	9.20 lb/cf
Vis.	52.00 S/L
W.L.	11.20 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	110.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Rich O' Donnell
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Thompson #12-14

LOCATION : 12-17s-22w Ness KS

TICKET No. 9445 D.S.T. No. 2 DATE 10-08-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 26

TOTAL TOOL 53

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 84

D.C. ABOVE TOOLS.Stands Single 1 Total 30

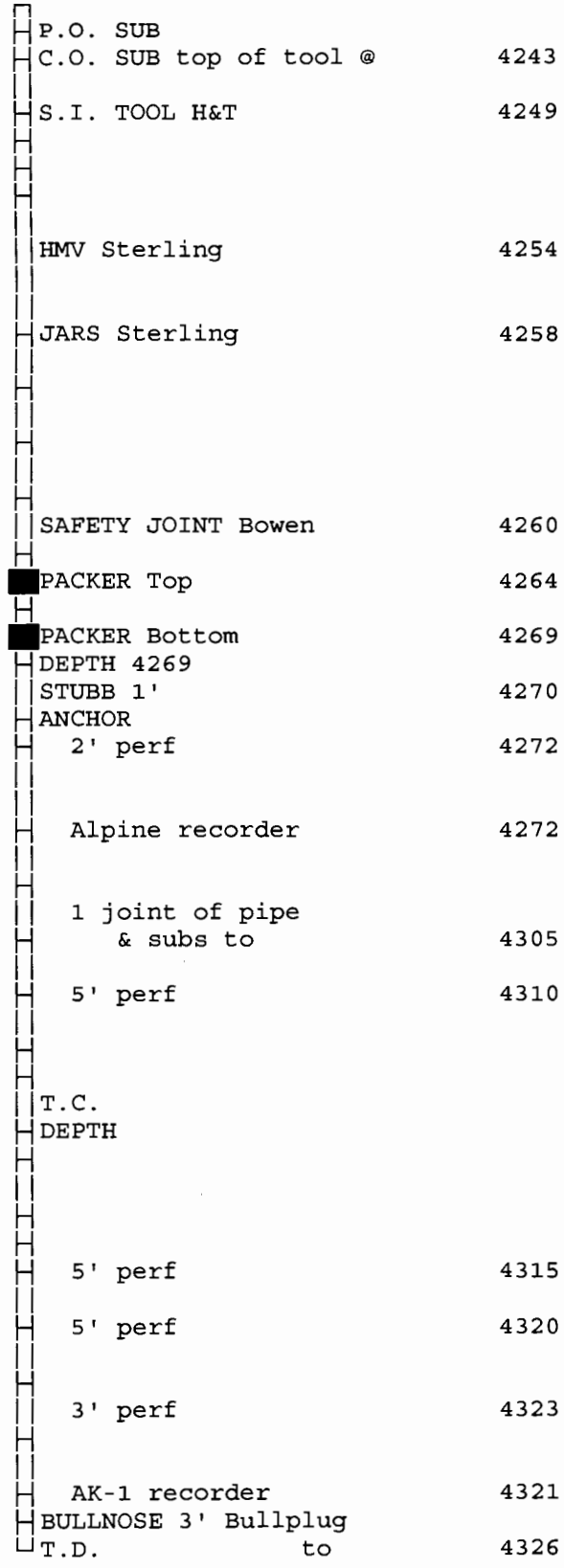
D.P. ABOVE TOOLS.Stands65 Single 1 Total 4242

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4356

TOTAL DEPTH 4326

TOTAL DRILL PIPE ABOVE K.B. 30

REMARKS:



TEST HISTORY

9445 Plainsco LTD. Thompson 12-14 DST #2

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2165.33
B:	0.00	26.93
C:	19.50	30.54
D:	31.00	191.26
E:	0.00	31.21
F:	15.00	33.48
G:	27.00	96.17
Q:	0.00	2108.93

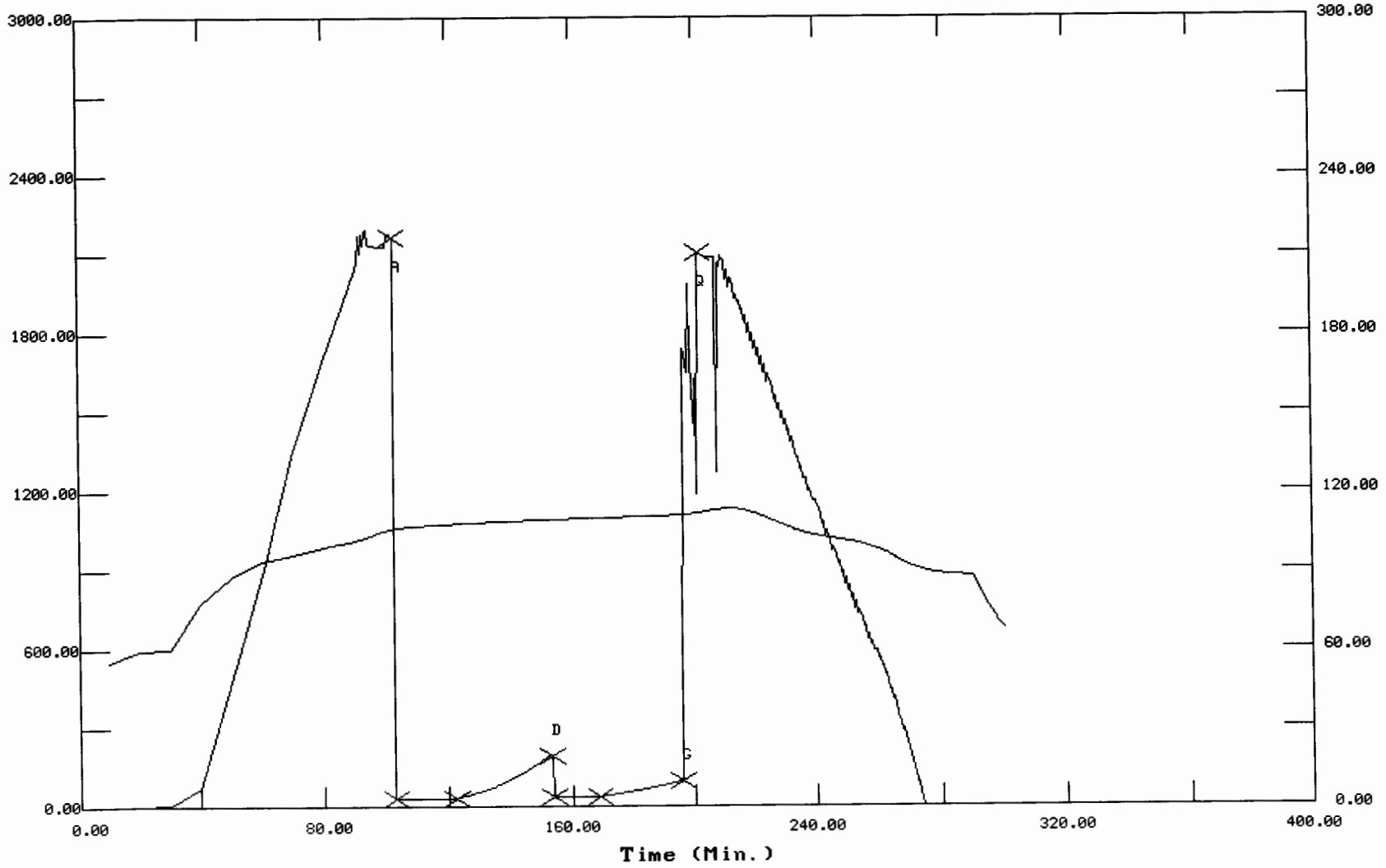
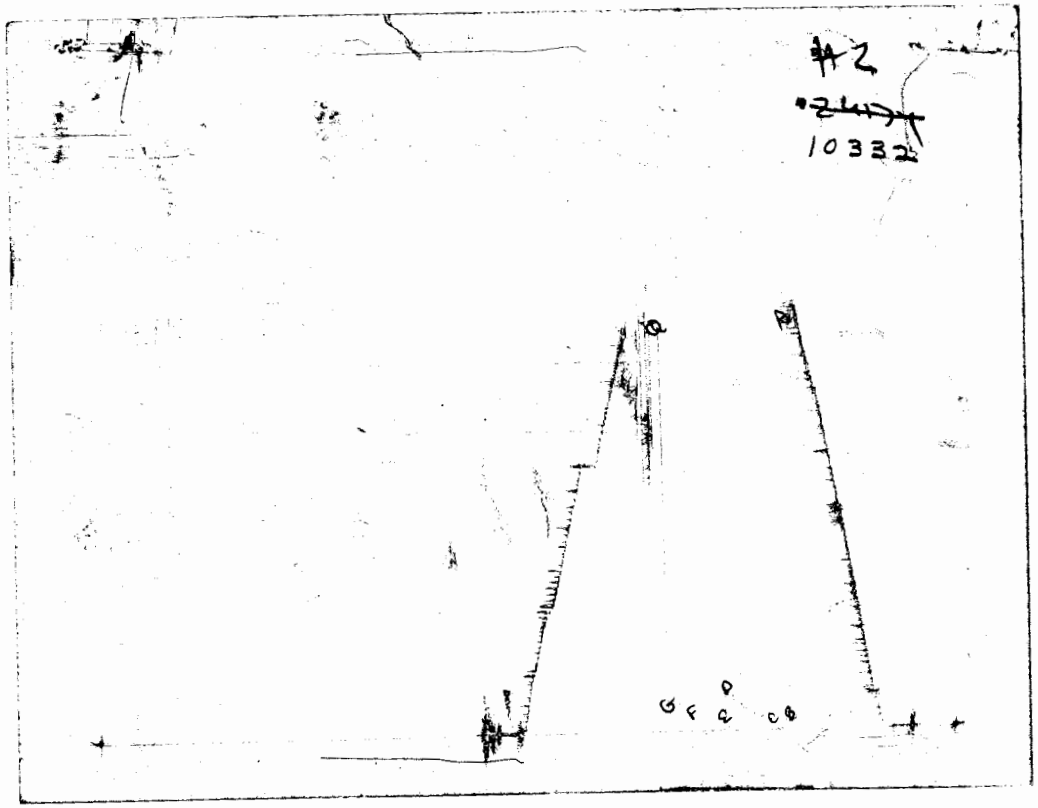


CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9445 Plainsco LTD. Thompson 12-14 DST #2

DATE: 10/07/96 TIME: 23:23:49

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	102.50	2165.3	0.0	105.86		
****** Start Flow 1	0.00	26.9	0.0	105.90		
	0.50	27.9	0.9	106.00		
	1.00	28.1	1.2	106.09		
	1.50	28.3	1.3	106.17		
	2.00	28.4	1.4	106.25		
	2.50	28.4	1.5	106.33		
	3.00	28.4	1.5	106.39		
	3.50	28.4	1.5	106.46		
	4.00	28.5	1.6	106.51		
	4.50	28.7	1.8	106.57		
	5.00	28.7	1.8	106.61		
	5.50	28.8	1.8	106.66		
	6.00	28.9	1.9	106.71		
	6.50	28.9	1.9	106.75		
	7.00	28.9	1.9	106.79		
	7.50	29.0	2.1	106.84		
	8.00	29.1	2.2	106.88		
	8.50	29.2	2.3	106.91		
	9.00	29.2	2.3	106.95		
	9.50	29.3	2.3	106.99		
	10.00	29.4	2.4	107.03		
	10.50	29.4	2.4	107.07		
	11.00	29.4	2.5	107.10		
	11.50	29.4	2.5	107.14		
	12.00	29.5	2.6	107.18		
	12.50	29.5	2.6	107.20		
	13.00	29.6	2.7	107.25		
	13.50	29.7	2.8	107.28		
	14.00	29.8	2.9	107.32		
	14.50	29.8	2.9	107.35		
	15.00	29.9	2.9	107.38		
	15.50	29.9	2.9	107.40		
	16.00	30.0	3.0	107.44		
	16.50	30.0	3.0	107.48		
	17.00	30.0	3.0	107.50		
	17.50	30.0	3.1	107.54		
	18.00	30.1	3.2	107.57		
	18.50	30.1	3.2	107.60		
	19.00	30.2	3.3	107.63		
****** End Flow 1	19.50	30.5	3.6	107.66		
****** Start Shutin 1	0.00	30.5	0.0	107.66	0.0000	0.001
	0.50	32.1	1.5	107.69	40.0000	0.001
	1.00	33.6	3.1	107.72	20.5000	0.001
	1.50	35.2	4.6	107.75	14.0000	0.001
	2.00	36.7	6.1	107.78	10.7500	0.001
	2.50	38.1	7.6	107.81	8.8000	0.001
	3.00	39.6	9.1	107.84	7.5000	0.002
	3.50	41.0	10.5	107.87	6.5714	0.002
	4.00	42.5	12.0	107.89	5.8750	0.002
	4.50	44.1	13.6	107.92	5.3333	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9445 Plainsco LTD. Thompson 12-14 DST #2

DATE: 10/07/96 TIME: 23:23:49

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
5.00	45.6	15.1	107.95	4.9000	0.002
5.50	47.2	16.7	107.97	4.5455	0.002
6.00	48.8	18.3	108.00	4.2500	0.002
6.50	50.6	20.1	108.03	4.0000	0.003
7.00	52.4	21.8	108.06	3.7857	0.003
7.50	54.1	23.6	108.08	3.6000	0.003
8.00	55.9	25.3	108.11	3.4375	0.003
8.50	57.8	27.3	108.13	3.2941	0.003
9.00	59.6	29.0	108.16	3.1667	0.004
9.50	61.5	31.0	108.18	3.0526	0.004
10.00	63.5	33.0	108.21	2.9500	0.004
10.50	65.6	35.1	108.23	2.8571	0.004
11.00	67.6	37.1	108.26	2.7727	0.005
11.50	69.8	39.3	108.28	2.6957	0.005
12.00	72.0	41.5	108.31	2.6250	0.005
12.50	74.3	43.7	108.33	2.5600	0.006
13.00	76.6	46.1	108.36	2.5000	0.006
13.50	79.0	48.4	108.38	2.4444	0.006
14.00	81.4	50.9	108.41	2.3929	0.007
14.50	83.9	53.4	108.43	2.3448	0.007
15.00	86.5	56.0	108.45	2.3000	0.007
15.50	89.0	58.5	108.48	2.2581	0.008
16.00	91.7	61.2	108.51	2.2188	0.008
16.50	94.3	63.8	108.53	2.1818	0.009
17.00	97.2	66.6	108.56	2.1471	0.009
17.50	100.0	69.5	108.58	2.1143	0.010
18.00	103.0	72.4	108.60	2.0833	0.011
18.50	106.0	75.5	108.62	2.0541	0.011
19.00	108.9	78.4	108.65	2.0263	0.012
19.50	112.1	81.6	108.68	2.0000	0.013
20.00	115.3	84.8	108.71	1.9750	0.013
20.50	118.7	88.1	108.73	1.9512	0.014
21.00	121.9	91.4	108.75	1.9286	0.015
21.50	125.4	94.8	108.78	1.9070	0.016
22.00	128.8	98.3	108.80	1.8864	0.017
22.50	132.3	101.8	108.82	1.8667	0.018
23.00	135.9	105.3	108.85	1.8478	0.018
23.50	139.6	109.0	108.87	1.8298	0.019
24.00	143.3	112.8	108.90	1.8125	0.021
24.50	147.2	116.7	108.92	1.7959	0.022
25.00	151.0	120.4	108.94	1.7800	0.023
25.50	154.9	124.4	108.97	1.7647	0.024
26.00	158.9	128.3	109.00	1.7500	0.025
26.50	162.8	132.3	109.02	1.7358	0.027
27.00	166.8	136.3	109.05	1.7222	0.028
27.50	171.0	140.5	109.07	1.7091	0.029
28.00	175.3	144.8	109.09	1.6964	0.031
28.50	179.6	149.1	109.11	1.6842	0.032
29.00	184.0	153.4	109.14	1.6724	0.034
29.50	188.3	157.8	109.16	1.6610	0.035
30.00	192.8	162.2	109.19	1.6500	0.037

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9445 Plainsco LTD. Thompson 12-14 DST #2

DATE: 10/07/96 TIME: 23:23:49

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	30.50	197.2	166.7	109.21	1.6393	0.039
****** End Shut-in 1	31.00	191.3	160.7	109.24	1.6290	0.037
****** Start Flow 2	0.00	31.2	0.0	109.25		
	0.50	31.5	0.3	109.28		
	1.00	31.6	0.4	109.29		
	1.50	31.7	0.5	109.31		
	2.00	31.9	0.7	109.32		
	2.50	32.0	0.8	109.34		
	3.00	32.0	0.8	109.35		
	3.50	32.0	0.8	109.37		
	4.00	32.0	0.8	109.38		
	4.50	32.1	0.9	109.39		
	5.00	32.1	0.9	109.40		
	5.50	32.2	1.0	109.41		
	6.00	32.2	1.0	109.42		
	6.50	32.2	1.0	109.43		
	7.00	32.2	1.0	109.44		
	7.50	32.3	1.1	109.46		
	8.00	32.3	1.1	109.47		
	8.50	32.4	1.2	109.48		
	9.00	32.4	1.2	109.50		
	9.50	32.4	1.2	109.52		
	10.00	32.4	1.2	109.53		
	10.50	32.4	1.2	109.55		
	11.00	32.4	1.2	109.56		
	11.50	32.5	1.3	109.58		
	12.00	32.5	1.3	109.60		
	12.50	32.5	1.3	109.61		
	13.00	32.6	1.3	109.63		
	13.50	32.6	1.3	109.65		
	14.00	32.6	1.3	109.66		
	14.50	32.1	0.9	109.68		
****** End Flow 2	15.00	33.5	2.3	109.70		
****** Start Shutin 2	0.00	33.5	0.0	109.70	0.0000	0.001
	0.50	34.7	1.2	109.72	70.0000	0.001
	1.00	35.8	2.4	109.73	35.5000	0.001
	1.50	36.8	3.3	109.75	24.0000	0.001
	2.00	37.8	4.3	109.76	18.2500	0.001
	2.50	38.8	5.4	109.79	14.8000	0.002
	3.00	39.7	6.2	109.80	12.5000	0.002
	3.50	40.6	7.1	109.83	10.8571	0.002
	4.00	41.6	8.1	109.84	9.6250	0.002
	4.50	42.5	9.0	109.86	8.6667	0.002
	5.00	43.4	9.9	109.89	7.9000	0.002
	5.50	44.3	10.8	109.90	7.2727	0.002
	6.00	45.2	11.7	109.92	6.7500	0.002
	6.50	46.2	12.8	109.93	6.3077	0.002
	7.00	47.2	13.8	109.96	5.9286	0.002
	7.50	48.1	14.6	109.98	5.6000	0.002
	8.00	49.2	15.7	110.00	5.3125	0.002
	8.50	50.1	16.6	110.02	5.0588	0.003

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9445 Plainsco LTD. Thompson 12-14 DST #2

DATE: 10/07/96 TIME: 23:23:49

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	9.00	51.1	17.6	110.03	4.8333	0.003
	9.50	52.0	18.5	110.06	4.6316	0.003
	10.00	53.0	19.6	110.08	4.4500	0.003
	10.50	54.1	20.6	110.09	4.2857	0.003
	11.00	55.2	21.7	110.12	4.1364	0.003
	11.50	56.1	22.7	110.13	4.0000	0.003
	12.00	57.1	23.7	110.16	3.8750	0.003
	12.50	58.2	24.8	110.18	3.7600	0.003
	13.00	59.2	25.8	110.19	3.6538	0.004
	13.50	60.3	26.9	110.21	3.5556	0.004
	14.00	61.6	28.1	110.24	3.4643	0.004
	14.50	62.7	29.2	110.25	3.3793	0.004
	15.00	63.9	30.4	110.28	3.3000	0.004
	15.50	65.0	31.5	110.30	3.2258	0.004
	16.00	66.0	32.5	110.32	3.1562	0.004
	16.50	67.0	33.6	110.34	3.0909	0.004
	17.00	68.3	34.8	110.36	3.0294	0.005
	17.50	69.5	36.0	110.37	2.9714	0.005
	18.00	70.7	37.3	110.40	2.9167	0.005
	18.50	71.9	38.4	110.42	2.8649	0.005
	19.00	73.3	39.8	110.44	2.8158	0.005
	19.50	74.5	41.0	110.46	2.7692	0.006
	20.00	75.9	42.4	110.48	2.7250	0.006
	20.50	77.2	43.7	110.51	2.6829	0.006
	21.00	78.5	45.0	110.53	2.6429	0.006
	21.50	79.7	46.2	110.55	2.6047	0.006
	22.00	81.2	47.8	110.57	2.5682	0.007
	22.50	82.7	49.3	110.59	2.5333	0.007
	23.00	84.1	50.6	110.61	2.5000	0.007
	23.50	85.6	52.1	110.64	2.4681	0.007
	24.00	86.9	53.5	110.66	2.4375	0.008
	24.50	88.5	55.1	110.68	2.4082	0.008
	25.00	90.2	56.7	110.70	2.3800	0.008
	25.50	91.7	58.2	110.73	2.3529	0.008
	26.00	93.4	59.9	110.74	2.3269	0.009
	26.50	95.0	61.5	110.77	2.3019	0.009
****** End Shut-in 2	27.00	96.2	62.7	110.79	2.2778	0.009
****** Final Hydro.	202.00	2108.9	0.0	111.52		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 9445

Well Name & No. Thompson 12-14 Test No. 2 Date 10-8-96

Company Plains Co LTD Zone Tested Mississippi

Address _____ Elevation _____ KB _____ GL

Co. Rep / Geo. Rick O'Donnell Cont. Discovery #1 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 12 Twp. 17s Rge. 22w Co. Ness State Ks

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

Interval Tested 4269-4326 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 44,000

Anchor Length 57 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 50,000

Top Packer Depth 4264 Tool Weight 2600

Bottom Packer Depth 4269 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____

Total Depth 4326 Wt. Pipe Run _____ Drill Collar Run 30

Mud Wt. 9.2 LCM _____ Vis. 52 WL 11.2 Drill Pipe Size 4½ XH Ft. Run 4241

Blow Description weak ½" blow

FF- no blow

Recovery — Total Feet 5 GIP _____ Ft. in DC 5 Ft. in DP _____

Rec. 5	Feet Of Mud w/ oil specks in tool	%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
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud

BHT 110 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

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

(A) Initial Hydrostatic Mud	2158	2165	PSI	Recorder No. 2342	T-Started	0000
(B) First Initial Flow Pressure	51	27	PSI	(depth) 4272	T-Open	0110
(C) First Final Flow Pressure	51	31	PSI	Recorder No. 10332	T-Pulled	0240
(D) Initial Shut-in Pressure	192	191	PSI	(depth) 4321	T-Out	0405
(E) Second Initial Flow Pressure	51	31	PSI	Recorder No. _____		
(F) Second Final Flow Pressure	51	33	PSI	(depth) _____		
(G) Final Shut-in Pressure	132	96	PSI	Initial Opening 15	Test	1000
(H) Final Hydrostatic Mud	2128	2109	PSI	Initial Shut-in 30	Jars Y	200
	AK-1	API		Final Flow 15	Safety Joint Y	50
				Final Shut-in 30	Straddle _____	
				_____	Circ. Sub _____	
				_____	Sampler _____	
					Extra Packer _____	
					Elect. Rec Y	150
					Other _____	
					TOTAL PRICE $	1000

Approved By Rick O'Donnell

Our Representative Paul Simpson