

Well Name: Fouquet #1
Company: National Petroleum Reserves Inc.
Location: 31-11s-33w
Logan County Kansas
Date: 4-30-99

TRILOBITE TESTING L.L.C.

OPERATOR : National Pet.Res.Inc.

DATE 4-28-99

WELL NAME: Fouquet #1

KB 3139.00 ft

TICKET NO: 11914 DST #1

LOCATION : 31-11S-33W Logan KS.

GR 3134.00 ft

FORMATION: Lans/KC I -J

INTERVAL : 4240.00 To 4290.00 ft

TD 4290.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13339	13339	3024			PF Fr. 0416 to 0446 hr
SI 30	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0446 to 0516 hr
SF 45	Clock(hrs)	12 HR	12	ALP			SF Fr. 0516 to 0601 hr
FS 60	Depth(ft)	4285.0	4295.0	4245.0	0.0	0.0	FS Fr. 0601 to 0701 hr

	Field	1	2	3	4	
A. Init Hydro	2083.0	2097.0	2075.0	0.0	0.0	T STARTED 0210 hr
B. First Flow	72.0	1321.0	36.0	0.0	0.0	T ON BOTM 0414 hr
B1. Final Flow	93.0	137.0	132.0	0.0	0.0	T OPEN 0416 hr
C. In Shut-in	1060.0	1121.0	1155.0	0.0	0.0	T PULLED 0701 hr
D. Init Flow	145.0	207.0	136.0	0.0	0.0	T OUT 0915 hr
E. Final Flow	145.0	207.0	199.0	0.0	0.0	
F. Fl Shut-in	1030.0	1064.0	1093.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2033.0	2045.0	2043.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 30000.00 lbs

RECOVERY

Total Fluid 390.00 ft of 150.00 ft in DC and 240.00 ft in DP
 210.00 ft of Slight oily water cu mud
 0.00 ft of Scum of oil 49% water 60% mud
 80.00 ft of Muddy water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of RW .35 @ 60 deg =
 SALINITY 23000.00 P.P.M. A.P.I. Gravity 0.00

Wt Pulled Loose	72000.00 lbs
Initial Str Wt	60000.00 lbs
Unseated Str Wt	62000.00 lbs
Bot Choke	0.75 in
Hole Size	8.87 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	150.00 ft
D.P. Length	4088.00 ft

BLOW DESCRIPTION

Initial Flow:
 Weak to fair blow off bottom in 23 mins.
 Initial Shut-in:
 No return blow
 Final Flow:
 Weak to fair blow off bottom in 35 mins.
 Final Shut-in:
 No return blow

MUD DATA-----	
Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	45.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop Y	20.0 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	Rod Steinbrink
Co. Rep.	Craig/T.C.B.
Contr.	Pickrell
Rig #	1
Unit #	
Pump T.	

SAMPLES:
SENT TO:

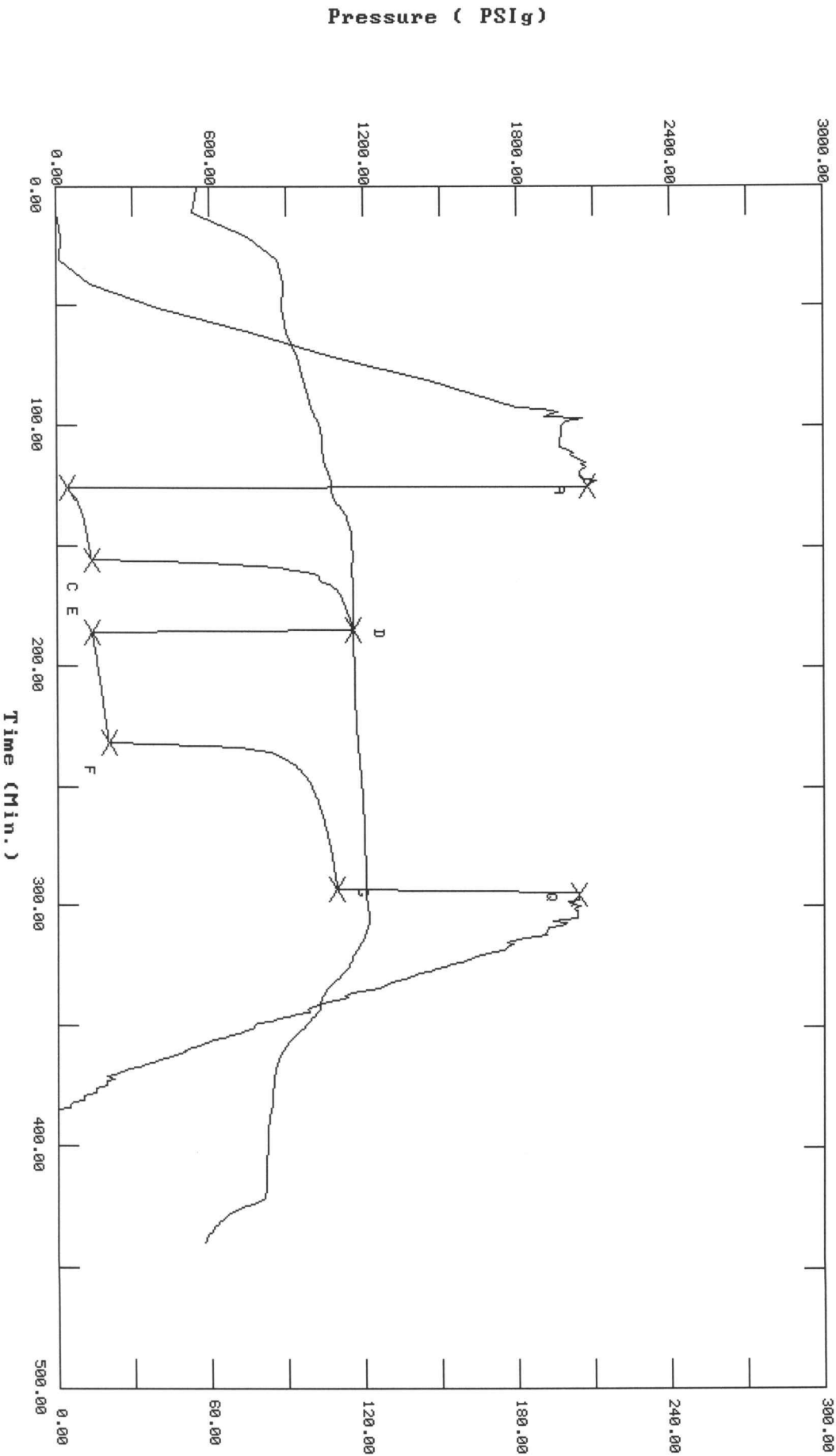
Test Successful: Y

11914 DST #1 Fouquet #1 National Pet. Res.

TEST HISTORY

Flag Points

t (Min.)	P (PSig)
A: 0.00	2075.53
B: 0.00	36.83
C: 30.00	132.96
D: 29.00	1155.98
E: 0.00	136.51
F: 46.00	199.15
G: 61.00	1093.15
H: 0.00	2042.18



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11914 DST #1 Fouquet #1 National Pet.Res.

DATE: 04/28/99

TIME: 02:10:30

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	125.00	2075.5	0.0	107.32		
***** Start Flow 1	0.00	36.8	0.0	107.41		
	1.00	46.9	10.1	107.45		
	2.00	54.4	17.6	107.54		
	3.00	61.3	24.5	107.72		
	4.00	67.5	30.7	108.02		
	5.00	73.8	37.0	108.46		
	6.00	79.9	43.1	109.29		
	7.00	84.7	47.8	110.28		
	8.00	90.3	53.5	111.13		
	9.00	92.8	55.9	111.74		
	10.00	94.7	57.8	112.24		
	11.00	97.3	60.4	112.74		
	12.00	101.1	64.2	113.19		
	13.00	103.2	66.3	113.56		
	14.00	106.3	69.5	113.88		
	15.00	107.8	70.9	114.20		
	16.00	109.7	72.8	114.47		
	17.00	111.6	74.7	114.68		
	18.00	113.5	76.6	114.86		
	19.00	115.3	78.5	115.02		
	20.00	117.1	80.3	115.13		
	21.00	118.7	81.9	115.22		
	22.00	120.4	83.6	115.28		
	23.00	122.2	85.4	115.34		
	24.00	124.2	87.3	115.38		
	25.00	125.7	88.9	115.41		
	26.00	127.2	90.4	115.43		
	27.00	128.7	91.9	115.45		
	28.00	130.1	93.3	115.45		
	29.00	131.5	94.7	115.43		
***** End Flow 1	30.00	133.0	96.1	115.42		
***** Start Shutin 1	0.00	133.0	0.0	115.42	0.0000	0.018
	1.00	584.1	451.1	115.40	31.0000	0.341
	2.00	781.3	648.4	115.38	16.0000	0.611
	3.00	866.3	733.4	115.35	11.0000	0.751
	4.00	920.6	787.6	115.37	8.5000	0.847
	5.00	975.5	842.5	115.36	7.0000	0.952
	6.00	1019.3	886.3	115.38	6.0000	1.039
	7.00	1024.8	891.8	115.41	5.2857	1.050
	8.00	1024.8	891.8	115.43	4.7500	1.050
	9.00	1037.1	904.1	115.46	4.3333	1.076
	10.00	1069.5	936.5	115.50	4.0000	1.144
	11.00	1080.3	947.4	115.54	3.7273	1.167
	12.00	1088.2	955.2	115.57	3.5000	1.184
	13.00	1095.0	962.0	115.60	3.3077	1.199
	14.00	1101.6	968.7	115.63	3.1429	1.214
	15.00	1107.3	974.3	115.65	3.0000	1.226
	16.00	1112.3	979.3	115.66	2.8750	1.237
	17.00	1116.8	983.9	115.66	2.7647	1.247
	18.00	1121.0	988.0	115.65	2.6667	1.257

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11914 DST #1 Fouquet #1 National Pet.Res.

DATE: 04/28/99

TIME: 02:10:30

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
19.00	1125.2	992.3	115.64	2.5789	1.266
20.00	1129.2	996.3	115.63	2.5000	1.275
21.00	1132.8	999.8	115.61	2.4286	1.283
22.00	1136.0	1003.0	115.61	2.3636	1.291
23.00	1139.3	1006.3	115.60	2.3043	1.298
24.00	1142.6	1009.7	115.60	2.2500	1.306
25.00	1145.4	1012.5	115.58	2.2000	1.312
26.00	1148.3	1015.3	115.59	2.1538	1.319
27.00	1150.8	1017.9	115.60	2.1111	1.324
28.00	1153.6	1020.6	115.61	2.0714	1.331
29.00	1156.0	1023.0	115.62	2.0345	1.336

***** End Shut-in 1

***** Start Flow 2

0.00	136.5	0.0	115.59		
1.00	137.1	0.6	115.69		
2.00	138.6	2.1	115.72		
3.00	140.1	3.6	115.75		
4.00	141.6	5.1	115.79		
5.00	143.2	6.7	115.82		
6.00	144.7	8.2	115.86		
7.00	146.1	9.6	115.90		
8.00	148.2	11.7	115.94		
9.00	149.7	13.2	115.97		
10.00	151.2	14.7	116.01		
11.00	152.6	16.0	116.03		
12.00	153.8	17.3	116.05		
13.00	155.2	18.6	116.07		
14.00	156.6	20.0	116.08		
15.00	157.9	21.4	116.08		
16.00	159.4	22.9	116.09		
17.00	161.1	24.6	116.09		
18.00	162.4	25.9	116.10		
19.00	163.7	27.2	116.12		
20.00	165.1	28.6	116.13		
21.00	166.5	30.0	116.16		
22.00	167.9	31.4	116.20		
23.00	169.3	32.7	116.23		
24.00	170.6	34.1	116.27		
25.00	172.0	35.5	116.31		
26.00	173.4	36.9	116.35		
27.00	175.0	38.5	116.39		
28.00	176.3	39.8	116.44		
29.00	177.6	41.1	116.48		
30.00	178.9	42.4	116.52		
31.00	180.2	43.7	116.56		
32.00	181.5	45.0	116.61		
33.00	182.9	46.3	116.67		
34.00	184.1	47.6	116.72		
35.00	185.4	48.9	116.78		
36.00	186.7	50.1	116.85		
37.00	188.1	51.6	116.89		
38.00	189.5	53.0	116.95		
39.00	190.7	54.2	117.02		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11914 DST #1 Fouquet #1 National Pet.Res.

DATE: 04/28/99

TIME: 02:10:30

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	40.00	192.0	55.5	117.08		
	41.00	193.2	56.7	117.14		
	42.00	194.4	57.9	117.20		
	43.00	195.6	59.1	117.26		
	44.00	196.8	60.3	117.33		
	45.00	198.0	61.5	117.40		
*****	End Flow 2	46.00	199.2	62.6	117.46	
*****	Start Shutin 2	0.00	199.2	0.0	117.46	0.0000
	1.00	567.3	368.1	117.53	77.0000	0.322
	2.00	718.1	519.0	117.62	39.0000	0.516
	3.00	790.6	591.5	117.70	26.3333	0.625
	4.00	831.9	632.7	117.79	20.0000	0.692
	5.00	861.5	662.3	117.88	16.2000	0.742
	6.00	883.8	684.7	117.97	13.6667	0.781
	7.00	900.1	700.9	118.06	11.8571	0.810
	8.00	913.7	714.5	118.16	10.5000	0.835
	9.00	926.0	726.9	118.25	9.4444	0.858
	10.00	936.9	737.8	118.33	8.6000	0.878
	11.00	946.3	747.2	118.41	7.9091	0.896
	12.00	954.8	755.6	118.49	7.3333	0.912
	13.00	962.5	763.3	118.57	6.8462	0.926
	14.00	969.4	770.2	118.65	6.4286	0.940
	15.00	975.8	776.7	118.73	6.0667	0.952
	16.00	981.7	782.5	118.82	5.7500	0.964
	17.00	987.1	788.0	118.89	5.4706	0.974
	18.00	992.2	793.0	118.96	5.2222	0.984
	19.00	996.9	797.7	119.03	5.0000	0.994
	20.00	1001.3	802.2	119.09	4.8000	1.003
	21.00	1005.5	806.4	119.15	4.6190	1.011
	22.00	1009.5	810.3	119.22	4.4545	1.019
	23.00	1013.3	814.1	119.27	4.3043	1.027
	24.00	1016.9	817.7	119.33	4.1667	1.034
	25.00	1020.3	821.2	119.39	4.0400	1.041
	26.00	1023.6	824.4	119.44	3.9231	1.048
	27.00	1026.7	827.5	119.49	3.8148	1.054
	28.00	1029.7	830.6	119.55	3.7143	1.060
	29.00	1032.6	833.5	119.60	3.6207	1.066
	30.00	1035.5	836.3	119.65	3.5333	1.072
	31.00	1038.2	839.0	119.70	3.4516	1.078
	32.00	1040.8	841.6	119.74	3.3750	1.083
	33.00	1043.3	844.2	119.79	3.3030	1.089
	34.00	1045.8	846.7	119.83	3.2353	1.094
	35.00	1048.2	849.0	119.87	3.1714	1.099
	36.00	1050.5	851.3	119.91	3.1111	1.103
	37.00	1052.7	853.6	119.94	3.0541	1.108
	38.00	1054.9	855.8	119.98	3.0000	1.113
	39.00	1057.0	857.9	120.01	2.9487	1.117
	40.00	1059.1	859.9	120.04	2.9000	1.122
	41.00	1061.1	862.0	120.08	2.8537	1.126
	42.00	1063.1	864.0	120.10	2.8095	1.130
	43.00	1065.0	865.9	120.14	2.7674	1.134

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11914 DST #1 Fouquet #1 National Pet.Res.

DATE: 04/28/99

TIME: 02:10:30

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	44.00	1066.9	867.7	120.16	2.7273	1.138
	45.00	1068.7	869.5	120.18	2.6889	1.142
	46.00	1070.5	871.3	120.21	2.6522	1.146
	47.00	1072.2	873.1	120.23	2.6170	1.150
	48.00	1073.9	874.8	120.26	2.5833	1.153
	49.00	1075.6	876.4	120.28	2.5510	1.157
	50.00	1077.2	878.1	120.30	2.5200	1.160
	51.00	1078.9	879.7	120.32	2.4902	1.164
	52.00	1080.4	881.2	120.33	2.4615	1.167
	53.00	1081.9	882.8	120.36	2.4340	1.171
	54.00	1083.4	884.3	120.38	2.4074	1.174
	55.00	1084.9	885.7	120.39	2.3818	1.177
	56.00	1086.3	887.1	120.40	2.3571	1.180
	57.00	1087.7	888.6	120.41	2.3333	1.183
	58.00	1089.1	890.0	120.44	2.3103	1.186
	59.00	1090.5	891.3	120.44	2.2881	1.189
	60.00	1091.8	892.7	120.46	2.2667	1.192
***** End Shut-in 2	61.00	1093.2	894.0	120.47	2.2459	1.195
***** Final Hydro.	295.00	2042.2	0.0	120.51		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 11914

Test Ticket

Well Name & No. _____ Test No. 1 Date 4-28-99
 Company National Petroleum Reserves, Inc Zone Tested Lans/KC I & J
 Address 250 N Rock Rd #130 Wichita, KS 67205 Elevation 3139 KB 3134 GL
 Co. Rep / Geo. Craig C. / T.C. Brayhoff Cont. Pickrell #1 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 31 Twp. 11 S Rge. 33 W Co. Logan State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4240 - 4290 Initial Str Wt./Lbs. 60,000 Unseated Str Wt./Lbs. 62,000
 Anchor Length 50' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 72,000
 Top Packer Depth 4235 Tool Weight 1,800
 Bottom Packer Depth 4240 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4290 Wt. Pipe Run _____ Drill Collar Run 150' (2.1)
 Mud Wt. 9.1 LCM _____ Vis. 45 WL 9.6 Drill Pipe Size 4 1/2" XH Ft. Run 4088' (65.1)
 Blow Description IF: Weak to fair blow off btm in 23 mins.
ISI: No return blow.
FF: Weak to fair blow off btm in 35 mins.
FST: No return blow.

Recovery — Total Feet 390' GIP — Ft. in DC 150' Ft. in DP 240'

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>210'</u>	<u>SOEM SDWCM</u>	<u>SCUM</u>	<u>40</u>	<u>60</u>	<u>—</u>
<u>180'</u>	<u>MW</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
_____	_____	_____	_____	_____	_____

 BHT 120° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW .35 @ 60° °F Chlorides 23,000 ppm Recovery Chlorides 3,000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2083</u>	<u>2075</u>	<u>3024</u>	<u>2315</u>
(B) First Initial Flow Pressure	<u>72</u>	<u>36</u>	(depth) <u>4245</u>	T-Started <u>0210</u>
(C) First Final Flow Pressure	<u>93</u>	<u>132</u>	PSI Recorder No. <u>13339</u>	T-Open <u>0416</u>
(D) Initial Shut-In Pressure	<u>1060</u>	<u>1155</u>	(depth) <u>4285</u>	T-Pulled <u>0701</u>
(E) Second Initial Flow Pressure	<u>145</u>	<u>136</u>	PSI Recorder No. <u>—</u>	T-Off Location <u>0915</u>
(F) Second Final Flow Pressure	<u>145</u>	<u>199</u>	(depth) <u>—</u>	
(G) Final Shut-in Pressure	<u>1030</u>	<u>1093</u>	PSI Initial Opening <u>30</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud	<u>2033</u>	<u>2043</u>	PSI Initial Shut-in <u>30</u>	Jars <u>X</u> <u>200</u>
			Final Flow <u>45</u>	Safety Joint <u>X</u> <u>50</u>
			Final Shut-in <u>60</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 [Signature]
 Our Representative Rod Steinbrink

Circ. Sub X N/C
 Sampler _____
 Extra Packer _____
 Elec. Rec. X 150
 Mileage _____
 Other _____
 TOTAL PRICE \$ 1100