

3R - 249

**GENERAL
CORRESPONDENCE**

YEAR(S):

1986 - 1985

EPNL Seng Juar Station V517
5/22/81

Plant tests with
Jami Bailey OK
Dale Boyer OK
Roger Anderson OK
Keith Randall - EPNL Sentinelle
John B. Wiley - EPNL - EPNL 12/15/80
Henry Van - EPNL - EPNL 12/15/80
Dany Beuhon - ST ~~Plant~~ Super
M. Wastler - ST ~~Plant~~ Super
Greg Kandler - ST EPNL

5/21/86
Water levels - Flom V Sta

#13	5.800	CT	0800
S1	4.760	ST	0802
X51	4.190	CT	0803
M1	5.635	CT	0806
M2	6.040	CT	0808
S5	5.740	ST	0811 *
M5	4.135	ST	0814
M4	3.135	ST	0817

* Deer Squirrel

Start Pump 0829
Reading: 3855200
Start Rate 141 gpm
Hose 135' away from well
Trace Oil (Green) at 0840

X51	5.55	ST	0852
X52	6.5	ST	0916
X51	2.44	ST	1027

0920 - Dropped rate to
117 gpm to start
chloride beam.

0930 - Older & Henry shown
0935 Sample - 1180

last older & shown at
sample time

0946 - 120 gpm

1007 - 120 gpm

1054 - 118.8 gpm

1100 - 288 (500 gal)

1104 - Pump off - Rise in

water level brought oil up in well

1130 - Reduce to 105 gpm

1215 - 105.2 gpm, Oil most gone

1230 - Pump off - Object: up level

1235 - Pump on

1252 - Pump 205 - Little shown

1255 - Pump on

* Sample w/ bails & effect into water

Sample 0935' 150 ft *

1140 100 ft +

1145 Phenol +

1340 100 ft, PAH, Phenol +

1400 100 ft +

1314 - Pump set up to 137 gpm

21 - " " at 87.2 gpm

1326 - Small amount oil,

1330 - Pump at 89.9 gpm

40 - " " 104 gpm

1349 - " " 136.5 gpm **

52 - " " 96.2

Notes 3892200 at end.

Stop pump @ 1405

** Oil floating in bore,
residual water shown.

+ Sample with grant meter gas

4/24/86 10 11 51 - Elevations:
 Time HAD CUT Area TD
 8ST
 4/24/86

0917	6.0	0.594	5406	20,86	1545
0918	6.0	0.592	5408		
4/22 11.56	6.0	.555	5445		
1157	6.0	.560	5440	7	
1315	13.00	0.604	5386	12,360	
1323	13.00	0.569	5431	12,431	
1328	13.00	.490	5570	12,510	
1332	13.0	.331	5769	12,769	
1345	14.0	1.249	12,751	←	
1351	14.0	1.208	12,752		
1356	14.0	1.055	12,845		
1404	14.0	1.035	12,865		
1414	14.0	.939	13,061		
1421	14.0	.909	13,091		
1427	14.0	.865	13,135		
1431	14.0	.809	13,191		
1446	14.0	.747	13,283		
1455	14.0	.700	13,300		
1506	14.0	.552	13,443		
1516	14.0	.482	13,518		
1526	14.0	.502	13,498		
1536	14.0	.481	13,515		
1546	14.0	.458	13,542		
1555	14.0	.402	13,598		
1605	14.0	.372	13,628		

04/25/86 Comments

well #1 had plate removed
 Measuring point for test
 "V" notch 0.46 sec above
 and opposite red paint mark
 on concrete pad.
 B642) 0945 organic only
 Sampled off by building 20V
 built w/ 1" PVC building cleaned
 w/ liguray. TD 19,45+1,41

From City of Farmington -
 As well 10.5.0 apm / 100 ppm
 (As adjusted 50) etc etc 100.4 ppm

Large Sample Se ~ 6 PM 4/20/86
 Midway Legway 68137
 Private waste / w 6:32 PM 4/25/86
 Midway 68772
 Total MW 640

Well M1 bailed approximately
10 volumes
Sample 8604211035

Time	1414	Cut	MV	TD	b
0854	7.0	0.785	6.215		
0856	7.0	0.787	6.213	8.41	2.19
1147	7.0	.750	6.250		
1149	7.0	.745	6.255		
1312	7.5	1.230	6.270		
1321	7.5	1.217	6.283		
1328	7.5	1.207	6.300		
1342	7.5	1.189	6.311		
1352	7.5	1.173	6.327		
1402	7.5	1.164	6.336		
1423	7.5	1.140	6.360		
1436	7.5	1.127	6.373		
1458	7.5	1.114	6.386		
1518	7.5	1.092	6.408		
1538	7.5	1.072	6.428		
1556	7.5	1.056	6.454		
1616	7.5	1.040	6.466		
1646	7.5	1.011	6.489		
1717	7.5	.990	6.510		
1748	7.5	.970	6.530		
1842	7.5	.917			3
1923	7.5	.892			
2035	7.5	.840			
2146	7.5	.790			
2219	7.5	.755			

comment

Well M-2 bailed 10/12/55
organic sample 8604311055

Time	Well	Area	Depth	Th
0659	7.0	0.440	6.560	
0901	7.0	0.440	6.560	9.05
422/1053	7.0	.360	6.640	2.48
1154	7.0	.355	6.645	
1313	8.0	1.416	6.584	
1321	8.0	1.406	6.594	
1329	8.0	1.394	6.606	
1343	8.0	1.400	6.600	
1353	8.0	1.420	6.580	
1403	8.0	1.420	6.580	
1423	8.0	1.408	6.592	
1437	8.0	1.410	6.590	
1459	8.0	1.420	6.580	
1520	8.0	1.423	6.577	
1539	8.0	1.422	6.578	
1557	8.0	1.428	6.572	
1616	8.0	1.423	6.577	
1646	8.0	1.428	6.572	
1718	8.0	1.429	6.571	
1749	8.0	1.426	6.574	
1845	8.0	1.416	6.584	
1925	8.0	1.418	6.582	
2037	8.0	1.405	6.595	
2149	8.0	1.402	6.598	
2252	8.0	1.402	6.598	

Well M3 bailed approx 1000 gal
 6607211 D10 - organic completely.

Time	Well	MG, elevation	DTU	TD	L
08:31	7.0	0.542	6.458	9.5'	3.04
0833	7.0	0.544	6.456		
⁴ / ₂ 1131	7.0	0.530	6.447		
1133	7.0	0.531	6.469		
1301	7.0	0.485	6.515		
1305	7.0	0.285	6.715		
1317	7.0	0.150	6.850		
1324	7.5	0.584	6.916		
1332	7.5	0.470	7.030		
1347	7.5	0.387	7.113		
1358	7.5	0.312	7.188		
1417	7.5	0.195	7.305		
1428	8.0	0.650	7.350		
1447	8.0	0.560	7.440		
1502	8.0	0.442	7.508		
1521	8.0	0.410	7.590		
1540	8.0	0.344	7.656		
1558	8.0	0.271	7.729		
1617	8.0	0.209	7.791		
1649	8.0	0.107	7.893		
1719	8.5	0.510	7.990		
1751	8.5	0.418	8.082		
1828	8.5	0.286	8.214		
1930	8.5	0.150	8.350		
2035	9.0	0.496	8.504		

Time	11/11/19	11/11/19	11/11/19	TD	1
1207	4.0	0.175	3.825	5.81	1.95
1211	4.0	0.180	3.820	4.7	
1249	4.0	0.170	3.83	4.75	
1251	4.0	0.172	3.828		
1253	4.0	0.184	3.816		
1254	4.0	0.178	3.822		
1303	4.0	0.165	3.835		
1309	4.0	0.125	3.875		
1319	4.0	0.084	3.916		
1326	4.5	0.570	3.930		
1340	4.5	0.543	3.957		
1349	4.5	0.518	3.982		
1400	4.5	0.500	4.000		
1420	4.5	0.478	4.022		
1430	4.5	0.446	4.054		
1449	4.5	0.411	4.089		
1504	4.5	0.376	4.124		
1523	4.5	0.348	4.152		
1543	4.5	0.330	4.170		
1600	4.5	0.292	4.208		
1619	4.5	0.262	4.238		
1651	4.5	0.212	4.288		

Traced Naming out. Same

Comments -
wells bailed approx 1000m
Sample 570900000 only
860421130

Time	Hold	Well 1115	Elevation	TD	b
1837	5.5'	10.576	4.924		
1838	5.5'	10.578	4.922	7.6'	2.68
1/22 1125	5.5'	10.580	4.920	6.17, 1.4	
1302	5.5'	10.615	4.885		
1326	6.5'	10.615			
1307	6.5'	1.580	4.920		
1318	6.5'	1.560	4.940		
1325	6.5'	1.519	4.951		
1333	6.5'	1.529	4.971		
1348	6.5'	1.512	4.988		
1359	6.5'	1.502	4.998		
1418	6.5'	1.475	5.025		
1429	6.5'	1.461	5.039		
1447	6.5'	1.438	5.062		
1503	6.5'	1.413	5.087		
1522	6.5'	1.394	5.106		
1542	6.5'	1.371	5.129		
1559	6.5'	1.350	5.150		
1618	6.5'	1.328	5.172		
1650	6.5'	1.292	5.208		
1720	6.5'	1.258	5.242		
1752	6.5'	1.222	5.278		
1846	6.5'	1.167	5.333		
1932	6.5'	1.121	5.379		
2041	6.5'	1.054	5.446		

Well M-5 bailed approx 10' below

Sample 860421115 for organic

2/21
 Time 11:18
 6.15
 SS -
 Elevation
 23.83
 17.38

Comments
 well S-S Bailed. Approx
 sample 5022411205
 8604211205

	Well	SX 1	Elevation	11/18	11/18	11/18
		cut	ITW	11/18	11/18	11/18
1754	6.5	0.667	5.813	4.813	4.811	108
1755	6.5	0.667	5.811	24.05	19.21	
1621201	6.0	1.190	4.81			
1201	6.0	1.190	4.81			
1300	6.0	1.170	4.600			
1304	6.0	1.020	4.980			
1311	6.5	1.120	5.380			
1317	6.5	0.842	5.658			
1322	6.5	0.624	5.816			
1327	6.5	0.482	6.018			
1330	6.5	0.240	6.260			
1341	7.0	0.598	6.402			
1344	7.0	0.504	6.496			
1350	7.0	0.385	6.615			
1354	7.5	0.785	6.715			
1401	7.5	0.688	6.812			
1413	7.5	0.478	7.022			
1420	7.5	0.410	7.090			
1425	7.5	0.353	7.147			
1433	8.0	0.770	7.230			
1443	8.0	0.681	7.319			
1453	8.0	0.610	7.390			
1505	8.0	0.520	7.480			
1514	8.0	0.469	7.531			
1524	8.0	0.416	7.584			

Comment - Measurement
From "V" hole at red paint
mark.

Run stop

Time	Loc	cut	BTW	TD	b
1615	14.0	.309	13.691		
1630	14.0	.268	13.732		
1645	14.0	.185	13.815		
1702	14.5	.607	13.893		
1716	14.5	.544	13.956		
1745	14.5	.251	14.247		
1817	15.0	.0570	0.510	14.490	
1920	15.0	.240	14.760		
1958	15.5	.395	15.105		
2032	16.0	.600	15.400		
2136	16.8				
2136	16.5	.380	16.120		
2230	17.0	.855	16.145	(64%) Cascading	
2237	17.0	1.30	15.70	" "	
2245	17.0	.62	16.38	" "	
2312	18.0	2.50	15.50	? Testing	
2151	19.63				
	19.63				
	2.35				
	17.73	6.25	6.70	@ 0157	
D341	1.785	1.785	14.215		
2046	1.719	1.719	14.282		

Approx 2.25 feet
of water above foot valve
Depth to top of valve is 19.1' + 1.52' (with length)

108 Top of screen
+ 1.4
Moved engine closer - more force in
1817 0111 -
1950 - Discharge of liquid
2025 - 790 cph (1000 cph)
Samples at 2010 & 2015 (15T)
* handles Sulfurmergase

Time	Speed	Alt	Dist	TD	S
3331	7.5	0.736	6.764		
Wednesday April 23					
0035	7.5	0.886	6.804		
0133	7.5	0.663	6.837		
0226	7.5	.634	6.866		
0347	7.5	.602	6.898		
0446	7.5	.581	6.914		
0659	7.5	.542	6.958		
0859	7.5	.507	6.993		
1059	7.5	.471	7.029		
1255	7.5	.440	7.060		
1450	7.5	.423			
1709	7.5	.392			
2106	7.5	.351			
Thursday April 24					
0111	7.5	.316			
0500	7.5	.281			
0901	7.5	.259			
1240	7.5	.241			

Time	How	How	How	How
2334	7.0	.40	6.600	7.0
01	7.0	.390	6.610	7.0
0036	7.0	.390	6.610	7.0
0136	7.0	.386	6.614	7.0
0227	7.0	.385	6.615	7.0
0352	7.0	.379	6.621	7.0
0452	7.0	.370	6.630	7.0
0702	7.0	.355	6.645	7.0
0902	7.0	.341	6.659	7.0
1100	7.0	.332	6.667	7.0
1257	7.0	.324	6.676	7.0
1451	7.0	.319		7.0
1711	7.8	.311		7.8
2110	7.0	.301		7.0
0115	7.0	.289		7.0
0510	7.0	.267		7.0
0903	7.0	.285		7.0
1241	7.0	.275		7.0

Wednesday April 23
 Thursday April 24

Time	Lat	Long	TO	b
2154	9.0	4 342	868	
2254	9.0	0.204	8.776	
2336	9.0	0.159	8.846	
Wednesday April 23				
0042	9.5	0.548	8.952	
0140	7.5	0.477	9.023	
0238	9.5	.403	9.097	
0354	9.5	.379	9.121	
0454	9.5	.352	9.148	
0705	9.5	.295	9.205	
0905	9.5	.289	9.211	9.555
1103	9.5	.189		
		.190	9.311	
1300	9.5	.140	9.360	
1453	9.5	.121	9.379	
1713	9.55	.130	9.420	
2115	9.55	.045	9.505	TD 9.57
0130				

Thursday April 24
Dmf

	4.1	4.17	NTC	10	6
1721	4.5	.166	4.334		
1733	4.5	.126	4.374		
1851	4.6	.186	4.472		
1935	4.6	.189	4.531		
2044	4.6	.187			
2044	4.7	.1071	4.629	4.705	
2050	Dry				
2301	Dry				
2050	Dry				
4/23	Wednesday				
0711	Dry				
		4.69			

Time

DOT

BTW

TD

6

3454 9.0

2156 6.5

2259 6.5

2350 6.5

~~24~~ 6.5

0046 6.5

0149 6.5

0236 6.5

0358 6.5

0456 6.5

0708 6.5

0907 6.5

1106 6.5

1302 6.5

1453 6.5

1719 6.5

2124 6.5

0134 6.5

0514 6.5

0905 6.5

1244 6.5

1.004

0.947

0.919

0.870

0.831

0.798

0.765

0.731

0.685

0.649

0.620

0.595

0.582

0.556

0.537

0.503

0.481

0.461

0.441

Wednesday April 23

Thursday April 24

1536	8.0	.364	7.636
1544	8.0	.335	7.665
1554	8.0	.274	7.726
1604	8.0	.254	7.746
1614	8.0	.206	7.794
1629	8.5	.660	7.840
1640	8.5	.622	7.878
1701	8.5	.560	7.940
1715	8.5	.516	7.984
1744	8.5	.443	8.057
1815	8.5	.328	8.172
1916	9.0	.642	8.358
2031	9.0	.470	8.530
2134	9.0	.357	8.643
2227	9.0	.268	8.732
2326	9.0	.185	8.815
2337	9.0		
0031	9.5	.106	8.894
0129	9.5	1.013	8.957
0225	10.0	.981	9.019
0340	10.0	1.108	8.892
0444	10.0	1.135	8.865
0458	10.0	1.121	8.879
0655	10.0	1.072	8.928
0854	10.0	1.009	8.990
		1.010	

581

70

6

23

April

Wed

51

TIME	11:00	11:11	DTD
0459	16.0	1.659	14.341
0830	16.0	1.618	14.382
0857	16.0	1.602	14.398
1056	16.0	1.505	14.495
1254	16.0	1.437	14.563
1446	17.0	1.321	15.179
1705	16.0	1.244	14.736
1905	16.0	1.082	14.918
2009	16.0	1.000	15.000
2101	16.0	0.920	15.080
Thursday April 29			
0121	16.0	0.430	15.050
0126	16.0	0.395	15.605
0128	16.0	0.395	15.605
0206	17.0	1.225	15.775
0243	17.0	1.140	15.860
0345	17.0	1.899	15.102
0502	17.0	1.448	15.552
0900	17.0	1.473	15.530
1245	17.0	1.731	15.269
1329	17.0	1.802	15.198
1334	17.0	1.802	15.198

6

Engine Spilled 4th time. (Blocked) rate = 24.5
 Pumping machine operates on top. Sampled
 8604230832

Engine Sampled @ 0917
 Engine change for oil level.

Pump stopped ~ 2349. See other log book
 0143-0144
 0050-0051

Stopped pump @ 0310. See other log book
 0143-0144

Stopped @ 0727-0734
 @ 0930-0932

Cascading
 Engine 4.65-4.7

Time	10.0	10.0	10.0	10.0
10.51	10.0	.741	9.054	
12.53	10.0	.841	9.109	
14.45	10.0	.848		
17.01	10.0	.841		
22.56	10.0	.696		
Thursday April 24				
01.05	10.0	.730		
03.06	10.0	.592		
03.11	10.0	.648		
05.00	10.0	.583		
08.56	10.00	.528		
12.39	10.0	.520		

7/27

51

Proctor

DTW

6

Wt	Wt	Wt	DTW
1334.5	160	2.290	
1336	13.0	1.139	
1337	11.0	.970	
1338.5	10.0	.370	
1340.5	10.0	.549	
1342.5	10.0	.671	
1343.5	10.0	.765	
1344.5	10.0	.828	
1345.25	10.0	.862	
1346	10.0	.924	
1347	10.0	.984	
1348	10.0	1.044	
1349	10.0	1.082	
1350.3	10.0	1.151	
1351.5	10.0	1.197	
1352.5	10.0	1.240	
1353.5	10.0	1.274	
1355	9.0	.329	
1356	9.0	.359	
1357	9.0	.385	
1358.5	9.0	.417	
1359	9.0	.448	
1401.5	9.0	.524	
1404	9.0	.595	

1400 Organic Sample - Olden + Green
Sampled at 7 new in Proctor

10/10/50 1 5x1

Time 4000 20T 0T00

4/24

1334 10.0 .512

1335 10.0 .512

1337 10.0 .562

1337.5 10.0 .622

1339 10.0 .679

1341 10.0 .728

1343 10.0 .782

1344 10.0 .835

1345 10.0 .860

1345.3 10.0 .901

1346.5 10.0 .942

1347.5 10.0 .980

1348.5 10.0 1.009

1349.5 10.0 1.040

1351 10.0 1.118

1352.5 10.0 1.151

1353 10.0 1.198

1354 10.0 1.238

1355.5 9.0 .270

1356.5 9.0 .289

1358 9.0 .341

1359 9.0 .382

1401 9.0 .454

1402 9.0 .498

OR

401

Rev

51

Time

1406 9.0

.641

1408.5 9.0

.710

1411 9.0

.779

1413.5 9.0

.829

1415.5 9.0

.890

1418.0 9.0

.939

1422 9.0

.982

1424.5 9.0

1.019

1427.5 9.0

1.050

1430.5 9.0

1.089

1440.5 8.0

.164

1450.5 8.0

.251

1510.5 8.0

.352

1530.5 8.0

.452

1535 8.0

.542

1610 8.0

.591

1631 8.0

.661

1652 8.0

.715

1713 8.0

.772

1730 8.0

.827

1750 8.0

.877

2047 7.0

.913

2136 7.0

.967

2313 7.0

1.345

Time

0824 7.0

.923

	4/2-1	NOV	X51
1406	4.0	.618	
1408	4.0	.677	
1410	4.0	.738	
1413	4.0	.826	
1415	4.0	.910	
1418	4.0	.960	
1421	4.0	1.018 1.019	
1424	4.0	1.089	
1427	4.0	1.153	
1430	4.0	1.217	
1440	8.0	.390	
1450	8.0	.532	
1510	8.0	.768	
1530	8.0	.920	
1557	7.0	.082	
1612	7.0	.142	
1630	7.0	.210	
1653	7.0	.290	
1710	7.0	.342	
1733	7.0	.397	
1753	7.0	.438	
2050	7.0	.775	
2136	7.0		
2141	7.0	.844	6.156
2145	7.0	.901	6.099

51-M3	43.8	74.
51-X51	29.6	74.
51-M1	131.1	
51-M5	118.5	
51-M4	87.5	

Wells M3 & M4 still

down at 1750.

found note - lot of wild life. seen and heard with pump off.

3 white tail deer seen about 3 PM, 4 more.

more deer seen at 5:30 PM where duckery.

note was. Evidence of fresh beaver cutting of saplings. blowing.

note flying overhead all the time. Skunk.

not dead but they were there presence of many.

A lot of long house cat with ~~long~~ bushy tail.

seen through M. through T. No

reaction to the wild with

Reentry XS1

2340	7.0	0.940	6.060
2317	7.0	0.990	6.010
7m 1/25			
0825	7.0	1.564	5.436
0923	11.0	0.605	5.395
0951	6.0	0.631	5.369
1032	6.0	.662	5.338

Recovery S1

0835	7.0	0.360
0815	7.0	.438
7.0		
0824	7.0	.383
0918	7.0	1.030
0920	7.0	1.032
0949	7.0	1.042
1034	7.0	1.084
		6.017

Recovery - 17 km 100

<u>M1</u>		
0826	7.5	.891
<u>M2</u>		
0828	7.0	.387
<u>M3</u>		
0831	9.0	1.939
<u>M4</u>		
0833	4.5	1.406
<u>M5</u>		
0835	4.5	.335

Sample 12100000 + 4th 4/25/86

8604231050 S1

8604231310 S1

8604241310 S1

8604211055 Hammond distal

8604231310 S1

8604231310 S1

8604211055 Hammond distal

8604231310 S1

8604210845 - Hammond distal

8604210900 Hammond distal

8604210930 " sand stone

8604210945 S1

8604211035 M1

8604211055 M2

8604211115 Hammond distal

8604211130 M5

8604211205 M4

8604211210 S5

8604221525

221950

222015

222032

2231310

2231355

2241310

2241320

2241400

2250930

2250945

2250955

2251005

2251007

2251015

2251025

2251038

2251050

S1 221950

S1 222015

S1 222032

S1 2231310

S1 2231355

S1 2241310

S1 2241320

S1 2241400

S1 2250930

M1 Recovery

M2

S5

Composite 221950

M3 recovery

M4

M5

X51

S1

Trip to RLB to deliver
Follow-up samples -

Leave 1:30 PM 5/1/86

Return SF 5:30 PM 5/2/86

Mileage leaving SF: 69264

Return SF: 69384

Total 120 mi

Duck Time	4/22/86	Combs	dial	Stripwell Time
1300	358128	358128	28	00
130035	358128	358128	30	00
130131	358128	358128	60	100
130142	358128	358128		
130142	35814	70		
130143	35814	53		
130930	35815	78		
	35817	00		160
	18	10		15845
131550	823	60		
-	834	00		0000
	25	00		0057
130058	38	00		0057
	39	00		005700
	32	00		0000
	33	00		5698
130100	35836	71		
	34	00		0000
	38	00		034400
130102	845	15		

4/22 -
Augur for Elena V. side
well S1

Neem - Install pump well S5
To test. Flow meter removed
due to wear in impeller.
Clear used but also
changed flow adjustment -
Need to be recalibrated
in summation with meter shop
Throttle set at approx 100rpm

N1220 - Installed pump well
to well installed 1/6' x 3"
section hole down hole
with screen on end. Installed
N22517 discharge valve
to grade near pump. Installed
office pressure end of hole
Pump is Honda "Trash pump"
WT 30" 3" 320 gpm max
180 FT total head
Engine is Honda G300 7.0 HP
272 cm3 from P&L
Equipment & Rentals, Farmington

Time	count	dist	Stipulated line
134100	35846	00	000000
	47	02	005711
	49	33	
	51	00	000000
	52	02	005737
141600	35887	71	000000
	89	00	000000
	91	00	015634
	93	02	005436
	893	00	001050
	35937	15	005630
150500	38	00	000000
	39	30	011554
	40	00	000000
	41	00	005734
	42	00	000000
	43	00	005776
170000	36076	00	000000
	77	02	005660
	077	40	000000
	078	40	005004
	079	16	
	079	60	000000
	080	60	005734
172100			

Thundereals, lightning etc!
at 1330
Sample 507 organics at 1535

Time	Counting	Area	Stopwatch Time
1737-	360 41	02	000000
	360 42	02	005895
1742-	360 95	02	000000
	96	02	005913
1743-	(96) 96	50	000000
	(96) 97	50	005931
	96	57	-
1738-	361 02	40	000000
	101	40	005922
	362 18	02	000000
	19	02	005829
174222	362 19	70	-
2130	363 31	00	000000
	332	00	005908
2132	363 34	48	-
2330	-	00	000000
2345	364 66	20	000000
2346	364 67	00	000000
	68	00	010596
234700	68	90	-
	479	10	000000
2357	480	10	010090
0023	507	00	000000
	4/23/84		010122

Time	Sample	Depth	Speed	Time
0054	36534	00	000000	
0056	36536	31	010178	
0123	363	00	000000	
	564	00	001020	
	36586	00	000000	
0147	87	00	010257	
	36	00	000000	
0242	3654	00	010319	
0247	Dropped rate to avoid a win suction. Water level lowered to 2.5 ft above suction, 34 + Talene bottom changed rate to approx 85 gpm			
0300	36659	30	000000	
	660	30	011009	
0459	36756	80	011030	85 gpm
0712	36871	90	011031	
0828	36933	60	011115	85 gpm
0910	36970	80	011047	85.7
1107	37070	40	011078	84.5
1410	Changed flow rate to 3" pipe at 1 3/4" surface.			
1620	Changed speed. Between 1630 & 1640 speed varied between 82-87 gpm			

1455 37260 60 11508 30 gpm

Speed stabilized at 85 gpm at
1650

Time	Counts	aid	Stop Watch Time	Rate
1650	37357 37358	37	00011052	85
1657	37359	49		
1659	37360	30	000000	
	37360	30	00011040	85
1830	37438 39	50 50	000000 011076	85
2003	37511 518	00	000000 011062	
4/24/86	-	-	000000	
2130	-	-	011062	85
0150	-	-	000000	
			010950	85
0222	37829 37830	40 40	000000 011061	
0337	37894	20	000000	85
0339	37892	20	011038	85

Pump - 1000 at approx 1155
 2343 - Sensor unknown
 (Time calculated to be 2349 from Q)
 After finding that automatic
 level sensor shut off fuel
 trapped, restarted engine
 at approx 1155 (2345)

(Times are approximately + or
 - 10 minutes)
 Approx activity at incident:

3770900.

During night and day
 finding of waste to be
 rejected, and wind
 changed. Reset to 285 gpm
 after 30 minutes of effort.
 During this period engine
 ran between 84-86 gpm.

AT 0143, engine again shut
 down and auto started up. No sound
 within 30 sec - 1 minute

Time	Counted Data	Time	Rate
0520	37975	20 000000	~84.5
0525	37976	20 01160	
	37980	10 000000	~85
		10 011053	
0705	38065	40 000000	~85
	38066	40 011059	
0733	38094	80 000000	~85
	38095	80 011007	
0906	38165	50 000000	
	38166	50 011279	
0916	38173	80 000000	
	38174	80 011163	
0918	38173	20 000000	
	38174	20 011023	
0933	38187	10 000000	~85.7
0939	38188	10 011068	
1248	3834600	00 00000000	~82
		011324	

Pump stops at 0722 - no more
 sediment -
 Restarted at 0734
 Pump stopped @ 0930 -
 no tail @ 0932

TIME	COUNTER	DIAL	TIME	RATE
1328	38379	20	011341	NR2.C
1334	38384	21		
			SHUT DOWN	
			FINISHED	
			COMPLETE	
			PUMP KAPUT	
	2	56789	101112	

2/13/06 FLOOR VISTA

WATER LEVELS OVERCAST
SUNNY, 140-155°

ST 1.4

22.4

23.8

WELL DEPTH

8.00

1.29 cut

6.71

8.00 46.80

1.295 cut

6.705

MU2

7.6 + 1.4 = 9.0 WELL DEPTH

~~4.00~~ 7.00

0.08

6.92

7.40

0.465

6.935

7.400

0.465

6.935

MU1

WELL DEPTH = 7.2 + 1.4 = 8.6'

~~4.5~~ 7.000

0.360

6.640

7.00

0.36

6.64

MU3 WELL DEPTH = 8.1 + 1.4 = 9.5

7.500

0.550

6.950

7.500

0.545

6.955

MU5 WELL DEPTH = 6.2 + 1.4 = 7.6

6.00

0.51

5.49

6.00

0.515

5.485

MU4

WELL DEPTH = 4.42 + 1.4 = 5.82

~~4.00~~ 4.40

0.02

4.38

4.40

0.02

4.38

Stone Vista

8601171655 - MU #4

20 bails
Organics only

8601171715 - MU #5

Organics only
15 Bails

8601171735 - MU #3

Organics only
15 Bails

Bailey
cleaned w/
methanol &
deionized H₂O
prior to each
use

8601171805 - MU #1

Organics only 15 Bails

8601171820 - MU #2

Organics only 15 Bails

8601171840 - System Composite

Organics only

8601171855 - Supply well #5

Organics only

8601171915 - EPPG Dehydrator

Barrel, Organics only SP, cond
(55 gallon drum) @ 70C

MU #3 1321

Total Depth 9,335 ft

8,100	8,000
<u>1,215</u>	<u>1,112</u>
6,885	6,888 ft

MU #5 1334
TD 23527

Hold 6,600	6,000
<u>cut 1,550</u>	<u>1,548</u>
4,450	4,452

MU #4 1342

Aggs. ~~Aspen~~ Hugging 6,4 ft Depth
Dry @ 3,84 ft

Hold 6,600	6,000
<u>cut 1,646</u>	<u>1,644</u>
DTID 4,354 ft	4,356
Unabridged @ 1632	

1/17/86
Stone Vista

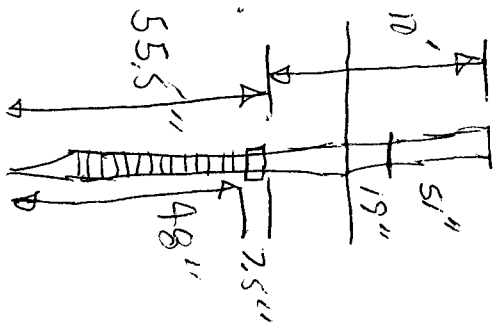
Municipal Well #5 ~~1044~~
DTW 6.71' @ 1257
well upon-layers of Acum
on top of water

MU #2 1302
Bottom @ 8.78T

Hold 8.00 8.46 8.00 8.00
cut 1.81 1.82 1.08 1.08
DTW 6.18 6.18 6.91 8.8T DTW

MU #1 1311
Bottom @ 8.46 < T

Hold 8.00 8.00
cut 1.382 1.385
DTW 6.618 6.615 < T



Monitor Well #1

$$\begin{array}{r} 120'' \\ 55.5'' \\ \hline 175.5'' \\ 51.0'' \\ \hline 124.5'' \end{array}$$

$$124.5'' = 10.375' = 10' 4.5'' = \text{TD from MP}$$

$$\begin{array}{l} \text{Depth to Top of Screen } 6' 4.5'' \\ (120'' + 7.5'' - 51'') = 6' 4.5'' \end{array}$$

Monitor Well #2

$$\begin{array}{r} 122'' \\ 55.5'' \\ \hline 177.5'' \\ 48.25'' \\ \hline 129.25'' \end{array}$$

$$\begin{array}{l} \text{Depth to Top of Screen} \\ 122 + 7.5 - 48.25 = 6' 9.25'' \\ = 6.778' \end{array}$$

$$129.25'' = 10.771' = 10' 9.25'' = \text{TD from MP}$$

Monitor Well #3

$$\begin{array}{r} 123'' \\ 55.5'' \\ \hline 178.5'' \\ 53.5'' \\ \hline 125.0'' \end{array}$$

$$\begin{array}{l} \text{Depth to Top of Screen } 6' 5'' \text{ from MP} \\ 6.428' \end{array}$$

$$125.0'' = 10.42' = 10' 5'' \text{ TD from MP}$$

Monitor Well #4

$$\begin{array}{r} 55.5'' \\ 28.5'' \\ \hline 84.0'' \end{array}$$

$$\begin{array}{l} \text{Depth to Top of Screen } 3' \text{ from MP} \\ 84.0'' = 7.00' = 7' \text{ from MP} \end{array}$$

Monitor Well #5

$$\begin{array}{r} 55'' \\ 39'' \\ \hline 94'' \end{array}$$

$$94'' = 7.833' = 7' 10' \text{ TD from MP}$$

$$\begin{array}{l} \text{Depth to Top of Screen } 3' 10'' \\ = 3.833' \end{array}$$

Screen Size 0.07 inches

46 5492

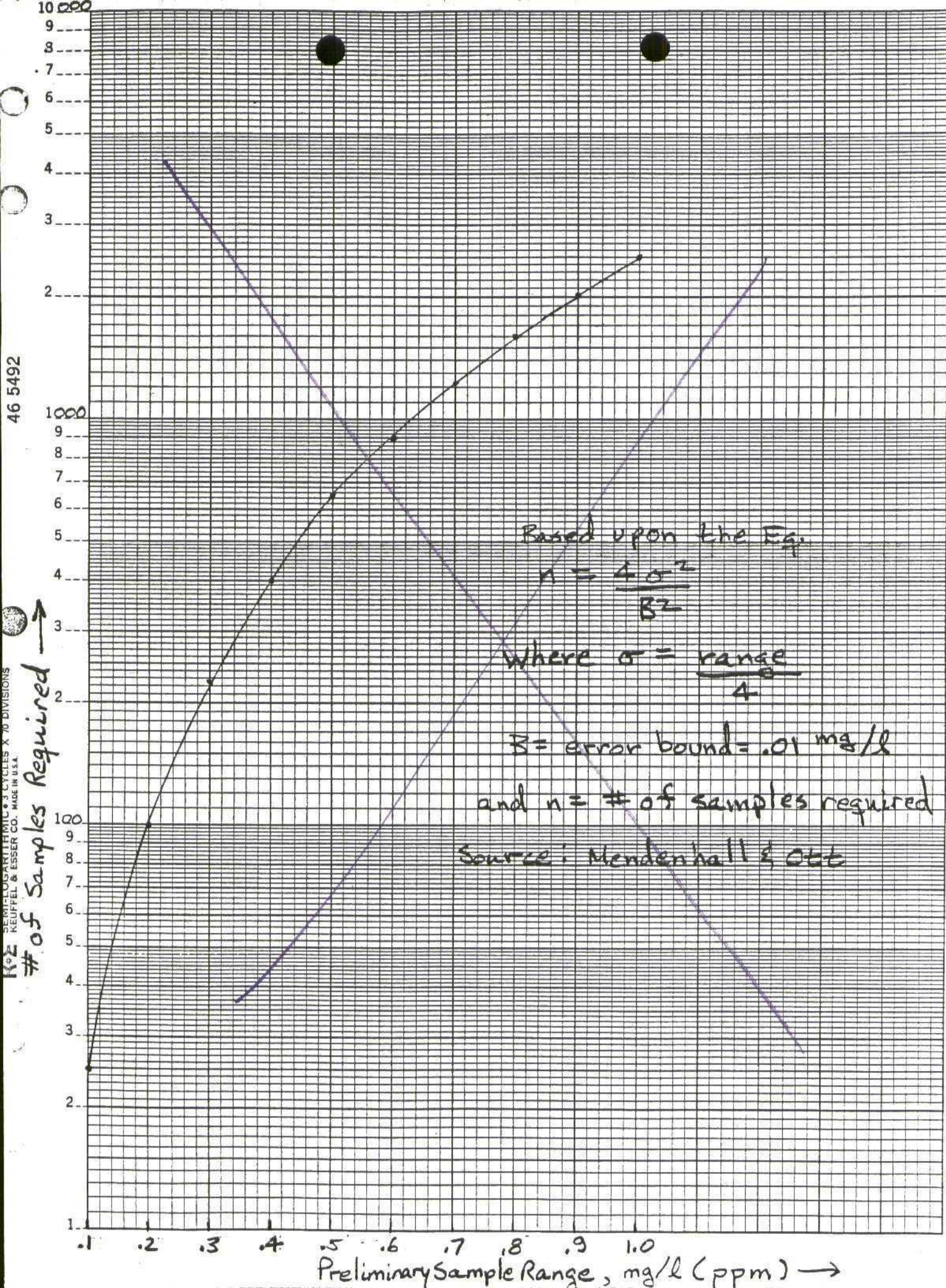
SEMI-LOGARITHMIC 3 CYCLES X 10 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.

of Samples Required

Preliminary Sample Range, mg/l (ppm) →

Based upon the Eq.
$$n = \frac{4\sigma^2}{B^2}$$

Where $\sigma = \frac{\text{range}}{4}$
 $B = \text{error bound} = .01 \text{ mg/l}$
and $n = \# \text{ of samples required}$
Source: Mendenhall & Ott



11/23/65

Fe 101 26 in compressor in Farmington
① Clean 1.25 gal can of

Barbers (done at con)

② F. 11 can - Sample barbers
work in Farmington

③ Pull A is through & the sample
④ Get sample of lubricating oil

Sample taken at Builders Equip Co.
op. can @ 0900

9911 mhd @ 12.50

8510230845 - Water Sample from

8510230850 - 1/2 gal can with top lid
Water, sample from barrel

8510230852 - PVC barrel #1
Sample from barrel

8510230915 - aerated water
collected from barrel #2

8510230920 - Sample from barrel
with air compressor running

8510230920 - Sample from barrel
after aeration. At off
Thurs and down from on unit.

10/25/85

Flore Vista

Men well # 1

TD = 8.5'

hw = 2.3'

85/025/223

Men well # 2

TD = 8.8'

hw = 2.3'

85/025/235

Men well # 3

TD 9.9'

hw = 3.4'

85/025/209

Men well # 4

TD 3.8'

-dry-

Men well # 5

TD 7.35'

hw = 2.2'

85/025/250

Water well # 2

TD 23.8'

hw = 17.5'

Hold 7.00
Cut 0.79
DTW 6.21

Hold 8.00
Cut 1.48
DTW 6.52

Hold 8.00
Cut 1.48
DTW 6.52

Hold 6.00
Cut 0.88
DTW 5.12

Hold 7.00
Cut 0.66
DTW 6.34

85/025
1315

12/23/85

Casting Vol. Calc:

D. Casting = $0.000847 \times 0.185'$
 D. PVC Boiler #1 = 0.085'
 length = 3.2 ft

$$V_b = \pi r^2 h = (3.1416) \left(\frac{D^2}{4} \right) (3.2)$$

$$= (3.1416) \left(\frac{0.085^2}{4} \right) (3.2)$$

$$= 0.0182 \text{ ft}^3$$

$$\text{or } 0.00567 \text{ ft}^3 / \text{linear ft}$$

$$\text{for } 11 \text{ W} \#3 \quad V = \pi r^2 l \quad (0.185^2)$$

$$V_w = (9.9632) \left(\frac{3.1416}{4} \right) \left(\frac{0.185^2}{4} \right)$$

$$= 0.0009$$

$$\text{or } 0.0269 \text{ ft}^3 / \text{linear ft}$$

$$V_w = 4.7 \text{ } 25 \text{ baits/casting}$$

$$V_b \text{ for } 11 \text{ W} \#3 \text{ 15 baits.}$$

$$\text{for others where } h < 3.2, 15 \text{ baits.}$$

Casting Vol Calc (cont)

General Formula

$$\frac{V_w}{h_w} \times \frac{h_w}{h_b}$$

= # baits for one casting volume

$$\left(\frac{V_w}{h_w} \right) \times \frac{h_w}{h_b}$$

baits for one casting volume

$$\frac{V_w}{h_w} = 0.0269 \text{ ft}^3 / \text{linear ft for Mon baits}$$

$$\frac{V_b}{h_b} \text{ (for PVC \#1)} = 0.00567 \text{ ft}^3 / \text{linear ft}$$

$h_b \neq 3.2 \text{ ft}$ except when $h_w \neq 3.2$
 If $h_w \leq 3.2$, $h_b = h_w$

$$\text{for water well \#2, } I_b = 0.86 \text{ ft}$$

$$V_w = (3.1416) \left(\frac{0.86^2}{4} \right) (17.5 \text{ ft}) =$$

$$V_b = 0.0182 \text{ ft}^3, \quad \frac{V_w}{V_b} = \frac{10.2}{0.0182} = 559 \text{ baits}$$

3rd Co Composite Enemy
Company Weeks 851023/340

Mary Wheeler #1 E

Marena Di

ELer 5483

510/4 510/4 Sec 23 T32N R12W

Even Dick Thurstenson

EPN 6 dug pit

on 10/24 directly

of dehydrated unit

Pit filled in some

day - purpose unknown

8510251355 NF-CA, N, M, D

" " F-CA, N, M

3 Rivers Trucking

Inade Tag 851023/1105 CA, N, M, D

Injection Pit 851023/1130 "

Opel Pit 851023/1115 CA, N, M, D

9/19/85 Leave S.E. 11:30 AM
(Return SE 9/21/ 7:00 PM)

Arrive Ock Nylte 3:45 PM

Reverse P11 truck for
pick up of air compressor
Purshoke trailer hitch
and for use on truck

3:20 - Pick up compressor,
purshoke pit coupling
and drive to Pipe 524
use in clearing mud
well. Run the pipe
about 3:30 PM and
continue heavy work
of the day.

#1 man well pushed upwards
but air - hammered back
down to within 0.02 feet
of normal position at
determined by proximity
to cut in pit ceiling for 10 ft.
#4 Men well not changed due
to distance ~~from~~ road.

Supply well #2 (10.5" ID)
 8509211415 (sampled after
 aus draining)

Mem well #3 Hold 8.620
 Cut 1.935

8509210995 STW 6.065

Total Depth > 10.0'
 Sample taken after 50 bails -
 8509211110 (organics) (Sealing Vol. =
 ~26-25 bails)

Mem well #1 Hold 7.800
 Cut 1.170

8509210950 STW 5.830

Total Depth 8.7' - Mud in bottom
 & silt

Sample taken after 50 bails (Sealing
 vol. = 1140 (organics) 13 bails)

Mem well #2 Hold 8.800
 Cut 1.860

8509210955 STW 6.140

(Sealing Vol. ~ 20-25
 bails)

Total Depth > 10.0'
 Sample taken after 50 bails

Supply well #2 STW 5.925
 (8509211000 Measured depth)

8509211255 Sampled after 20 bails

Mem well #5 Hold 6.070
 Cut 1.490
 STW 4.510

8509211335 Organics Sampled after

50 bails
 Total Depth to silt & mud 7.86'

Mem well #4 Hold 4.000
 Cut 0.530
 STW 3.468

Total Depth to silt & sand 4.03'
 8509211410 Organics, 20 bails (little water)
 ID Pipe diameter of Mem well #4:

0.185 ft / Measured
 (2.220 in)
 ID Bail diameter 0.085 ft (1020")

length = 3.2 ft
 $V = \pi r^2 h$

For Pipe: $\frac{V_u}{h} = 0.0269 \text{ ft}^3 / \text{linear ft}$

For bails: $V_b = 0.0182 \text{ ft}^3$

For this sampling $\frac{V_u}{h} \times h_u = \# \text{ bails for}$
 $\frac{V_u}{V_b} = 1.48 h_u \text{ bails}$
 one sampling vol

DATE: 8-5-85

SAMPLE:

LOCATION: FLORA VISTA M.W. #1

DEPTH TO WATER

DEPTH OF WELL

WATER DEPTH

WATERS BAKED

OVER

CONDUCTIVITY

COMPLETELY SANDY IN

TO DEPTH 6'2"

M.W. #2 COMPLETELY DRY TO

DEPTH 6'5"

Date: 8-5-85

Sample: 8508051645

Location: Flora Vista Pump House

Color

Conductivity: 275 μ mhos @ 18°C

Collected from garden hose.

Date: 8-5-85 BAILEY/BANA

Sample # 8508051450

Location: Flora Vista N.W. #3

Depth to water - 6' 6 1/2"

Depth of well - 7' 2"

Water Depth - 7 1/2"

From Kalliburn Brook - .17 gal/ST
with 2.375" OD Tubing

Volume Bailed - 0.5 gal

Odor - Slightly metallic & sulfur
odor

Collected in PVC Bailer

ALL FLORA VISTA SAMPLES

KEPT IN SEPARATE ICE

CHEST FROM OTHER SAMPLES

COLLECTED THIS TRIP

Date: 8-5-85

Sample # 850805/525

Location: Flora Vista M.W. #5

Depth to Water: 5'6"

Depth of Well: 6'7"

Water Depth: 13"

Halliburton Book: 0.17 gal/ft

Volume Bailed: 0.5 gal

Odor: Swampy Sulfur Smell

Conductivity: 210 μ mhos @ 27°C

Collected In PVC Bailer

Date: 8-5-85

Sample # 850805

Location: Flora Vista M.W. #4

Depth to Water:

Depth of Well:

Water Depth

Halliburton Book: 0.17 gal/ft

Volume Bailed

Odor:

Conductivity:

COMPLETELY SMILED IN TO

DEPTH 4'

Date: 8-5-85

Sample # 8508051715

Location: Flora Vista Mun. Well #5

Depth to water: 6'5"

Depth of well: 23'6"

Water depth: 17'1"

Pipe I.D.: 10.5"

Volume Bailed: 43 gal

Odor: Swampy

Conductivity: 420 μ mhos @ 20°C

Note: This well was shut down
and left uncovered 1
month ago (approx.)

Collected in PVC Bailer

Date: 8-5-85

Sample # 8508051730

Location: Hydraulic Fluid/R. Penrods
Backhoe

Delivered to Baca/Bailey By
R. Penrod in Cranberry Juice Jar

BAILEY COMP. TIME: 2 1/4 HRS.

5/1/85

Farmington Area	Site	Time	EH	pH	Cond	Temp
David Freeman	Nace	1040	+160	6.60	905	14.5°C
306 Greco Place Farmington	Lovato	1115	+292	6.72	216	14.7
	Clason	1140	-62	6.66	2770	16.3
	Nance	1445	-92	6.45	1695	15.2
Danall Nace	Garrison	1540	+140	6.51	750	16.0
Lee Acres Farmington						
CPD Box 7038 87401						
Donnie Lovato (Lee Acres) Rt 3 Box 532 No 21 Farmington 87401						
* on community water system						
Arlene Clason #18 Rd 5470 Lee Acres Farmington 87401						
H ₂ S smell, black water, (from well)						

← resampled for organics 4³⁰ PM 6/26/85
 - have moved Trailer to adjacent lot
 since previous sampling

← sampled from Pitken top 4³⁰ PM 6/26/85
 - inside water so from community system

5/1/85 cont.

Linda Nance

very muddy water

6/28/85 cont

Well 2

initial water level 5 1/2' below casing

PO Box 828

Flora Vista 87415

1010 AM

failed for 5 min; recovered 5 min

Well 1

initial water level 5 ft below casing

Tanning Curson

muddy water

CR 3802 # 111

RT 2 Box 232E

sampled at 1035 AM

325-9381

AZTEC 87410

Flora Vista Marmorep 11020 # 1

6/28/85 Flora Vista Monitor Wells

all wells were developed for 1-2 hours

water level = 4.12 ft

failed ~ 20 min. sampled at 1130

8:00 AM moving completed on 6/27/85 and allowed to stabilize overnight

Screen Size 0.07 in

WELL 5 - ~ 3 1/2' of water in well initially

8:40 AM - failed for 5 minutes before sampling (+5 min)

WELL 4 - initial water level ~ 3 ft below casing

8:40 AM - failed ~ 5 min before sampling + 5 min recovery

WELL 3 - initial water level 5' below casing

- failed 5 min; 5 min recovery before sample

9:30 AM

water has "icky" brown color & feel but no action

5/1/85

cont.

Linda Vance

PO Box 828

Flora Vista 87415

6/28/85

cont

Well 2

1010 AM

initial water level 5 1/2' below casing

Well 1

failed 5 min, recovered 5 min

sampled at 10:35 AM

with level = 11.12 ft

sampled at 11:30

6/28/85

Flora Vista Monitor Wells

- all wells were developed for 1-2 hours

8:00 AM using compressed air on 6/27/85 and allowed to stabilize overnight

WELL 5 - 3 1/2' test of water in well initially

8:40 AM - failed for 5 minutes before sampling (+5 min)

WELL 4 - initial water level ~ 3 ft below casing

8:40 AM - failed ~ 5 min before sampling + 5 min recovery

WELL 3 - initial water level 5' below casing

- failed 5 min, 5 min recovery before sample

9:30 AM under low "dry" brown color & feel

but no skin

Screen Size 0.07 in

Tanning Garrison

CR 3802 # 11

325-9381

RF 2 Box 232E

AZTEC 37410

making analysis

Flora Vista Monitor

with level = 11.12 ft

Earlier concn over contamination,
 from ~~the~~ source to alluvium
 alleviated since have more
 present

Sample from Hammond site
 opposite Clare
 850625 1514 ~~850625~~

for pH, Sp. Cond.
 Sp. cond. 1100 μ mhos at 14°C
 pH unobtainable 8.3 ~ 8.0

850626 1530 for organics.
 CHM

850626
 Silane Seep 1545
 23°C Sp. Cond. 2250 μ mhos

850626 1750 Sullivan Camp, S. side, 800 ft. N. side #3
 850626 1740 " " " " #2
 850626 1728 " " " " #1

850628 1130 FLOREN VISTA
 MUNICIPAL WELL #1
 IRON CASING 10" ID AFTER GRILLING
 OPEN WELL (Sample for organics
 & Natural gas)

8506281035	FORA VISTA MONITOR WELC	1
8506281010	"	2
8506280930	"	3
8506280840	"	4
8506280810	"	5

Bloomfield Robinson - 6/26/85
 Walkeed Shale - ash gray white
 Sulfur in bed, w/ of Hammered with
 deep 4 holes w/ shovel - One had
 water and hydrocarbon. Clarity, cross-
 ad to S. Side Sulfur in Rd. Dug hole
 near N.E. Pipeline crossing # by
 Hwy 44 culvert - Both had had water
 and hydrocarbon - Sampled all 3 holes

Cassey Elliott Domestic Well
 711 McElhara Lane Cornminn
 326-4757 87401
 8506271805 CHHAWD
 Sp cond 890 number @ 17.5°C
 pH 7.1
 Well 12-15' deep, dug
 by backhoe 7/15/85, Cassey
 is culvert pipe, strongly
 Septic odor.

6-28-85

Fora Vista 12.5 ~ 3 1/2' in water

- 4 ~ 5' below cog
- 3 ~ 5' below cog
- 2 ~ 5 1/2' "
- 1 ~ 5' " cog

Mame 1 4.12'

- Table I
- Table II
- Table III
- Table IV
- Table V
- Table VI
- Table VII - MINUTES IN DECIMALS OF A DEGREE
- Table VIII - MIDDLE ORDINATES OF RAILS
- Table IX - SHORT RADIUS CURVES
- Table X - RODS IN FEET, 10THS AND 100THS OF FEET
- Table XI - LINKS IN FEET, 10THS AND 100THS OF FEET

Ed Bruckshaw Phone 325-4198

8506281130 FLOOR VISTA
MUNICIPAL WELL #1
FROM CASING. 10" ID DEPTH TO WHICH
OPEN WELL (Sample for organics
& Natural gas)

2123/85

Slone Visitation Dick Thompson (WPA)

At time of contamination had 2 wells, have now drilled 4 more, total of 5 available, only 3044 currently tested and contamination first noticed March-April 1983. Sampled Aug. 1983.

Large scale map available?

Depth to water about 4 feet average, total well depth 25-23,

Screened interval?

Talk to Dick Cheney about technical details of test results (see notes) for water table information 5-6 mg per month

Site SW 1/4, Sec 14, T23N, R12W
Visit to site;

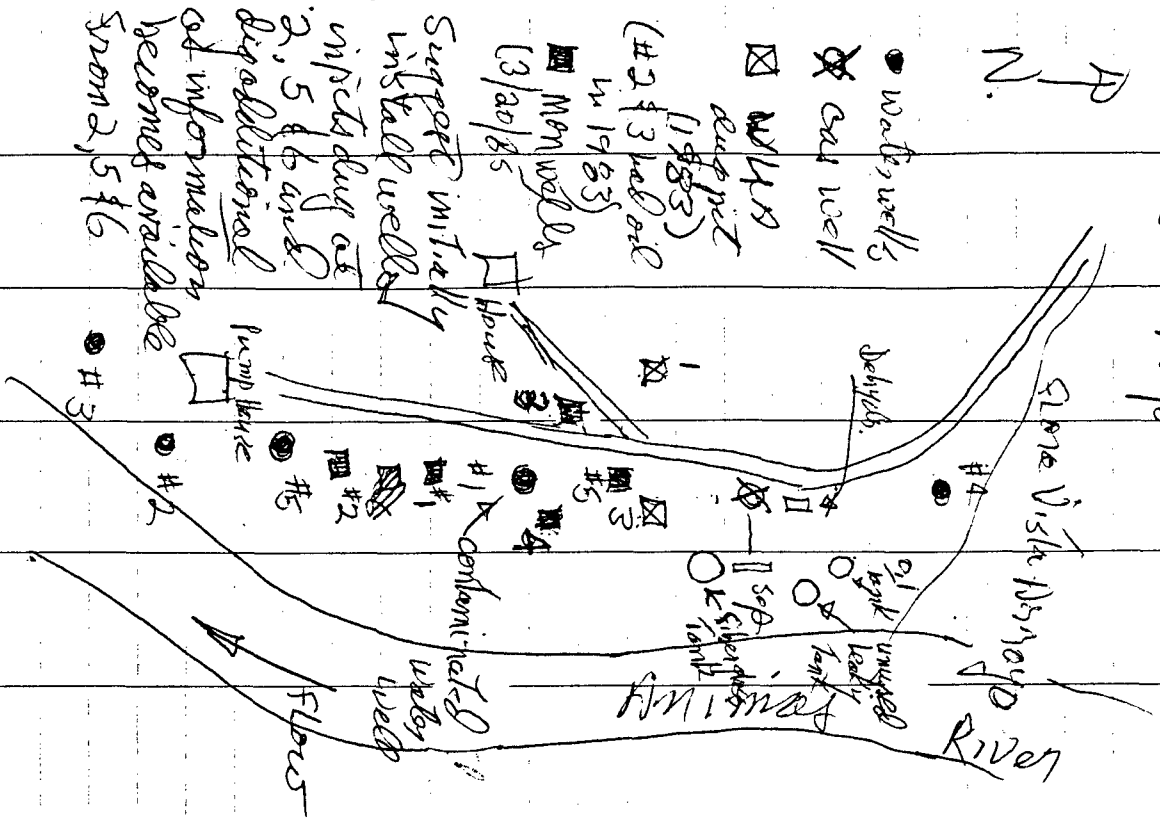
At oil well, have new production separator, new hydrocarbon tank on site, dehydrator, hot 55 gal drum, 34 full (Siberian tank 2/3 full) oil tank hot 200 gal, heated joints, no epoxy cover beam, hole in bottom with pipe through it.

Thompson says 2 years ago, EPA went out and dug pits and found oil around separator (he knows of nothing by then)

Said WPA dug several feet deep (3 pits) found oil in two (see map). Contaminated well is directly down the presumed hydraulic gradient from the gas well.

Site Map

N.

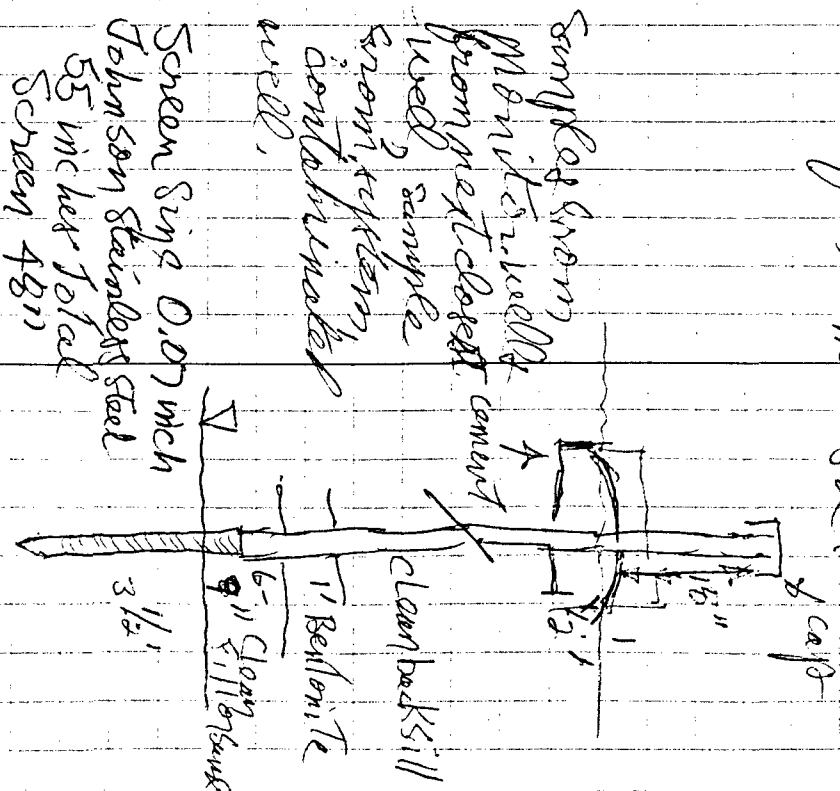


For Sierra Vista Imp
well to go in 5' in
then 2, 5, 3

Other wells as necessary
clean back hole to hard
1/2" cement

For sampling
wide mouth bottles @ caps (Procter)
Plum Soil
40 ml vials, culture mediums (Channing & Co.)
Balders
Wheel pump (Muir)
Shovel (Muir)
Cassette etc.

Q. For Cheney - W.T. Electric
Sundering Equip
Pump & set concrete well
will support elevations
after cemented.



3/19/85 Meeting @
Richard P. Cheney
Reveries & Assoc.

Continued well test
at deep 12 screen
on bottom, 8 to 15'

2 wells at the contaminated
site (one abandoned
~~the~~ after initial exploration)

Well #1 75 gpm drawdown
Well #2 100 gpm
Well #3 5.6 m 100 gpm
Well #4 25 gpm

Actual pumping 75 gpm

9:17

3/20/85

On site BAM, Beckline
arrived 8:35 AM

EPN 6 representative
Core: kept

Mon Well #1 09/15 AM

0-15 in Soil - loam / sand
18-67 in coarse sand
4 g core, collected &
rock samples included in
diagrams

First water, 67 in,
water has only about

0930 - Depth beneath
water about 1.5'
Sample taken 0900
Sample had depth under 1.5' and

99
61
32

Screen interval 48"
 Total Screen Segment 55.5"
 8'3" TD below grade surface
 Backfilled with clean
 gravel, gravel then
 material removed
 from well, no
 bentonite since hole
 was too large

Pipe section 10' long
 Above ground before
 cut 70" after cut 17"
 (51" cut off 10' 17" pipe)

Manwell #2 began 10:13
 cleaned backhoe

Foot 77"
 water } oily sheen
 (backhoe leaking
 hydraulic fluid)
 at bucket
 0-2 Soil - sandy
 20-83" River rock

Sample taken at completion
 of hole, 1030 AM, only
 No water in water
 No oil on dug out pile
 83" to 1030
 ~98" Total depth

122" pipe 177" Total
 cut off 48.25"
 Manwell #3 began 11:45
 cleaned backhoe

20" sand before cable

Final water at 76" - oily sheen
 0-26" Soil - sandy
 20-76" River Rock -

123" pipe 178" Total
 cut off 53.25"
 Dep Th a 96"

#3 Not backfilled
in clean sand
between two concrete

Sample at 1225 pm
for analysis, taken
at 100 ft depth in
hole, depth to water 196 ft

No odor on clear lint filter
No odor in sample

Completed back fill
12:30 pm

Org Sample from contaminated
water supply well
F.V.S. well #11 1310 pm
Sample taken about
4 minutes after began pump
Discharge rate 3 gals
in 2.87 sec

Mon. Well #4 Started 1330

0-10" Top soil
10"-30" Sand, gravel, cobbles

Soil Water at 38 ft

1 ft casing in. Took samples
as pit was casing in. Vials
contained 3 mg sodium Thio-
sulfate (1400 sample 5000 ft)
Note - Top of pipe 55+38 ft

#5

0-39.5 Soil, sand & gravel
Black oily layer 39.5-49.5
Water, thickening at 54 ft

Water Sample at 2:30, 65 ft deep
(1430)

Soil Sample at 1435
Backfilled quickly due casing
hole cut at 81.0 from
top and striking out ground.
Length in ground 55+38 ft

Complete Sample from
Flare Vista Water

Supply well #1

Sample from C&D pump out
8503201538 1st open
well

org, C/A, H/M, N

Temp 12.5°C

Cond: 600 μ mhos,

Sample from

Flare Vista

Water supply #5

R&B

8503201555

(#5 well 14 well bin #1 and base)

Sample from Spigot

Inside pump house

Letting well to settle

Well number 15 min.

clear)

Temp 10.1°C

Cond 610 μ mhos

Complete Sample ~~#3~~ ~~#5~~ ~~well~~

#2 & 3 wells,

8503201626

Temp 11°C, 670 μ mhos

Sample for organics,

C/A, H/M, N

Temp 10°C

Cond 345 μ mhos,

Animal River water,

8503201635