15-055-21483

22-26s-34w

WELL NAME:	Oliver 1-22
OPERATOR:	Helmerich & Payne Inc
LOCATION:	Sec 22 Rge 26s Twp 34w Finney County Kansas
DATE:	03/22/96

(10U

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne — DATE 3-18-96
WELL NAME: Oliver # 1-22 — KB 2958.00 ft — TICKET NO: 8824 — DST #1
LOCATION : 22-26S-34W, Finney Cty KS — GR 2946.00 ft — FORMATION: KC Marmaton
INTERVAL : 4397.00 To 4481.00 ft — TD 4504.00 ft — TEST TYPE: CONV. STRADDLE

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	11058	11058	2346		
SI 60	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	AK-1	AK-1	Alpin		
FS 120	Depth(ft)	4406.0	4406.0	4398.0	0.0	0.0

TIME DATA----------
PF Fr. 2253 to 2323 hr
IS Fr. 2323 to 0023 hr
SF Fr. 0023 to 0123 hr
FS Fr. 0123 to 0223 hr

	Field	1	2	3	4
A. Init Hydro	2199.0	2198.0	2172.0	0.0	0.0
B. First Flow	72.0	57.0	26.0	0.0	0.0
B1. Final Flow	111.0	102.0	115.0	0.0	0.0
C. In Shut-in	1220.0	1207.0	1233.0	0.0	0.0
D. Init Flow	166.0	151.0	124.0	0.0	0.0
E. Final Flow	244.0	240.0	256.0	0.0	0.0
F. Fl Shut-in	1220.0	1204.0	1228.0	0.0	0.0
G. Final Hydro	2177.0	2105.0	2123.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1845 hr
T ON BOTM 2250 hr
T OPEN 2253 hr
T PULLED 0223 hr
T OUT 0620 hr

RECOVERY
Tot Fluid 480.00 ft of 480.00 ft in DC and 0.00 ft in DP
120.00 ft of Water cut mud trace oil -
0.00 ft of 3% oil, 30% water, 67% mud
60.00 ft of Watery mud - 70% water, 30% mud, scum of oil
300.00 ft of Water - 100% water, slight scum oil
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 39500.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	5000.00 lbs
Wt Set On Packer	35000.00 lbs
Wt Pulled Loose	105000.00 lbs
Initial Str Wt	90000.00 lbs
Unseated Str Wt	90000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.50 in
D.C. Length	594.00 ft
D.P. Length	3845.00 ft

BLOW DESCRIPTION
Initial Flow -
Surface blow built to 4.25"

Initial Shutin -
No return

Final Flow -
Surface blow built to 1.25"

Final Shutin -
No return

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

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	54.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop Y	6.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	116.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	3
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Shane McBride
Co. Rep.	Brad Rine
Contr.	Cheyenne
Rig #	7
Unit #	
Pump T.	

SAMPLES:
SENT TO:

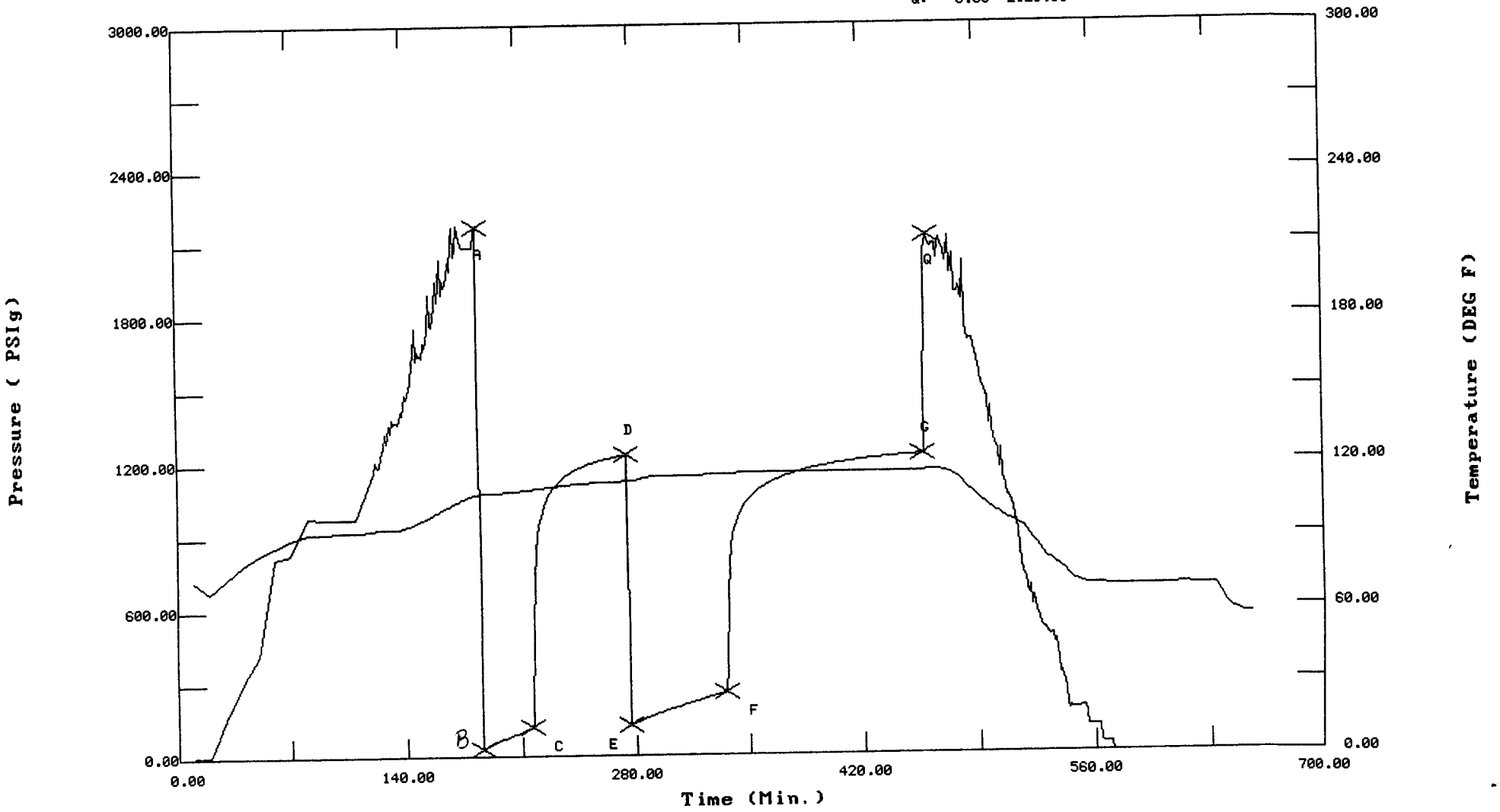
Test Successful: Y

TEST HISTORY

8824 DST #1 Oliver # 1-22 H & P Inc.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2171.79
B:	0.00	26.26
C:	30.00	114.80
D:	60.00	1232.72
E:	0.00	124.20
F:	59.00	256.39
G:	120.00	1227.94
Q:	0.00	2123.03



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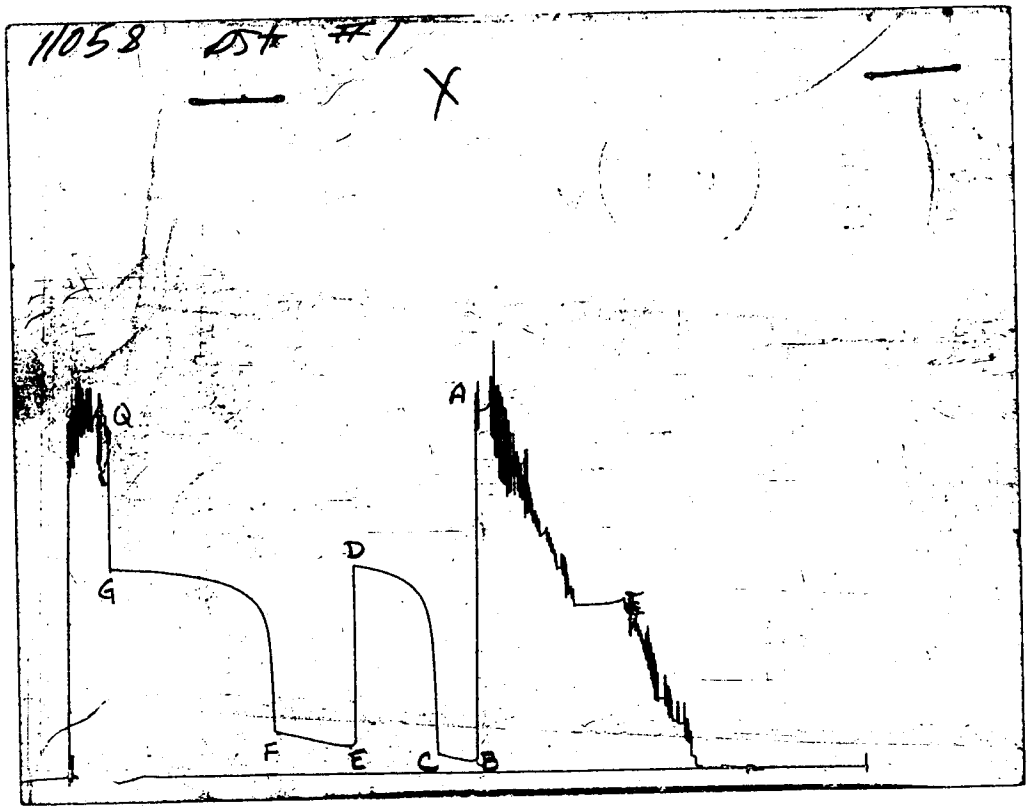

This is a photocopy of the actual AK-1 recorder chart

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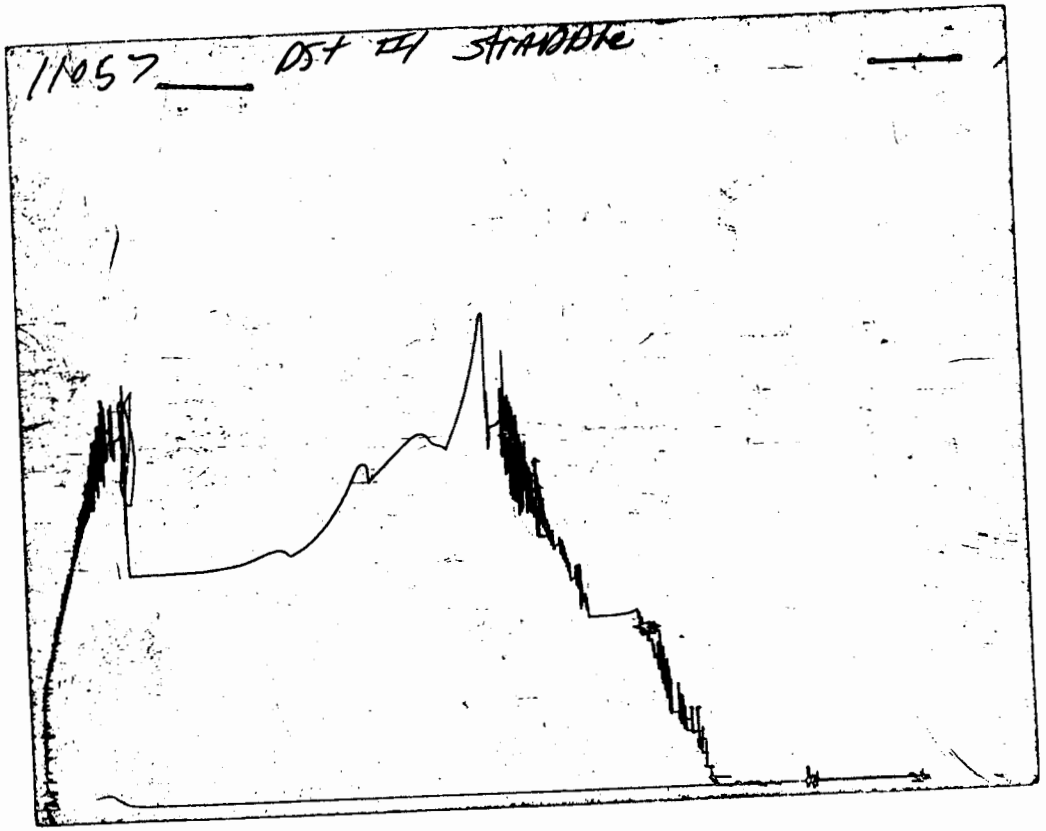


This is a photocopy of the actual AK-1 recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8824 DST #1 Oliver # 1-22 H & P Inc.

DATE: 03/18/96 TIME: 20:00:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	185.00	2171.8	0.0	107.44		
****** Start Flow 1	0.00	26.3	0.0	107.59		
	1.00	30.6	4.4	107.69		
	2.00	35.1	8.8	107.88		
	3.00	38.5	12.3	107.90		
	4.00	42.1	15.9	107.90		
	5.00	45.6	19.4	107.90		
	6.00	48.9	22.7	107.90		
	7.00	51.9	25.7	107.90		
	8.00	55.2	29.0	107.90		
	9.00	58.6	32.3	107.90		
	10.00	61.9	35.7	107.95		
	11.00	64.4	38.1	108.01		
	12.00	67.0	40.7	108.09		
	13.00	69.7	43.5	108.15		
	14.00	72.3	46.1	108.22		
	15.00	74.6	48.3	108.27		
	16.00	77.2	50.9	108.34		
	17.00	79.7	53.5	108.37		
	18.00	82.3	56.1	108.43		
	19.00	85.0	58.7	108.48		
	20.00	87.3	61.0	108.55		
	21.00	90.3	64.0	108.61		
	22.00	93.2	67.0	108.68		
	23.00	96.1	69.8	108.74		
	24.00	98.9	72.7	108.80		
	25.00	101.4	75.1	108.84		
	26.00	104.0	77.7	108.93		
	27.00	106.8	80.6	109.02		
	28.00	109.6	83.3	109.07		
	29.00	112.4	86.1	109.12		
****** End Flow 1	30.00	114.8	88.5	109.19		
****** Start Shutin 1	0.00	114.8	0.0	109.19	0.0000	0.013
	1.00	143.9	29.1	109.28	31.0000	0.021
	2.00	518.0	403.2	109.36	16.0000	0.268
	3.00	728.8	614.0	109.45	11.0000	0.531
	4.00	840.8	726.0	109.54	8.5000	0.707
	5.00	906.5	791.7	109.64	7.0000	0.822
	6.00	949.8	835.0	109.72	6.0000	0.902
	7.00	981.5	866.7	109.82	5.2857	0.963
	8.00	1006.4	891.6	109.91	4.7500	1.013
	9.00	1026.6	911.8	109.98	4.3333	1.054
	10.00	1043.5	928.7	110.07	4.0000	1.089
	11.00	1058.0	943.2	110.18	3.7273	1.119
	12.00	1070.7	955.9	110.27	3.5000	1.146
	13.00	1081.9	967.1	110.34	3.3077	1.171
	14.00	1091.8	977.0	110.39	3.1429	1.192
	15.00	1100.7	985.9	110.44	3.0000	1.212
	16.00	1108.8	994.0	110.50	2.8750	1.230
	17.00	1116.2	1001.4	110.56	2.7647	1.246
	18.00	1123.0	1008.2	110.62	2.6667	1.261

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8824 DST #1 Oliver # 1-22 H & P Inc.

DATE: 03/18/96 TIME: 20:00:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	19.00	1129.4	1014.6	110.70	2.5789	1.276
	20.00	1135.1	1020.3	110.77	2.5000	1.288
	21.00	1140.6	1025.8	110.85	2.4286	1.301
	22.00	1145.6	1030.8	110.93	2.3636	1.312
	23.00	1150.4	1035.6	111.00	2.3043	1.323
	24.00	1154.9	1040.1	111.08	2.2500	1.334
	25.00	1159.3	1044.5	111.15	2.2000	1.344
	26.00	1163.2	1048.4	111.22	2.1538	1.353
	27.00	1166.8	1052.0	111.31	2.1111	1.362
	28.00	1170.4	1055.6	111.37	2.0714	1.370
	29.00	1173.8	1059.0	111.42	2.0345	1.378
	30.00	1177.1	1062.3	111.48	2.0000	1.386
	31.00	1180.3	1065.5	111.53	1.9677	1.393
	32.00	1183.5	1068.7	111.57	1.9375	1.401
	33.00	1186.4	1071.6	111.62	1.9091	1.408
	34.00	1189.1	1074.3	111.67	1.8824	1.414
	35.00	1191.7	1076.9	111.69	1.8571	1.420
	36.00	1194.0	1079.2	111.74	1.8333	1.426
	37.00	1196.4	1081.6	111.79	1.8108	1.431
	38.00	1198.7	1083.9	111.83	1.7895	1.437
	39.00	1201.0	1086.2	111.87	1.7692	1.442
	40.00	1203.1	1088.3	111.90	1.7500	1.447
	41.00	1205.1	1090.3	111.98	1.7317	1.452
	42.00	1206.9	1092.1	111.97	1.7143	1.457
	43.00	1208.7	1093.9	112.02	1.6977	1.461
	44.00	1210.4	1095.6	112.06	1.6818	1.465
	45.00	1212.1	1097.3	112.07	1.6667	1.469
	46.00	1213.8	1099.0	112.12	1.6522	1.473
	47.00	1215.5	1100.7	112.15	1.6383	1.477
	48.00	1217.1	1102.3	112.18	1.6250	1.481
	49.00	1218.7	1103.9	112.20	1.6122	1.485
	50.00	1220.2	1105.4	112.23	1.6000	1.489
	51.00	1221.7	1106.9	112.25	1.5882	1.493
	52.00	1223.1	1108.3	112.28	1.5769	1.496
	53.00	1224.5	1109.7	112.30	1.5660	1.499
	54.00	1225.7	1110.9	112.32	1.5556	1.502
	55.00	1227.0	1112.2	112.35	1.5455	1.506
	56.00	1228.3	1113.5	112.39	1.5357	1.509
	57.00	1229.4	1114.6	112.43	1.5263	1.511
	58.00	1230.5	1115.7	112.45	1.5172	1.514
	59.00	1231.6	1116.8	112.49	1.5085	1.517
***** End Shut-in 1	60.00	1232.7	1117.9	112.52	1.5000	1.520
***** Start Flow 2	0.00	124.2	0.0	112.52		
	1.00	127.2	3.0	112.52		
	2.00	129.9	5.7	112.52		
	3.00	132.8	8.6	112.61		
	4.00	135.6	11.4	112.63		
	5.00	138.4	14.2	112.83		
	6.00	141.1	16.9	113.05		
	7.00	143.5	19.3	113.25		
	8.00	146.3	22.1	113.41		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8824 DST #1 Oliver # 1-22 H & P Inc.

DATE: 03/18/96 TIME: 20:00:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	9.00	149.1	24.9	113.61		
	10.00	151.9	27.7	113.76		
	11.00	154.3	30.1	113.94		
	12.00	156.9	32.7	114.12		
	13.00	159.8	35.6	114.29		
	14.00	162.1	37.9	114.43		
	15.00	164.6	40.4	114.52		
	16.00	167.3	43.1	114.58		
	17.00	169.4	45.2	114.61		
	18.00	172.0	47.8	114.62		
	19.00	174.6	50.4	114.60		
	20.00	177.1	52.9	114.59		
	21.00	179.7	55.5	114.56		
	22.00	182.2	58.0	114.55		
	23.00	184.0	59.8	114.52		
	24.00	185.8	61.6	114.51		
	25.00	187.6	63.4	114.50		
	26.00	189.4	65.2	114.48		
	27.00	191.3	67.1	114.48		
	28.00	193.0	68.8	114.47		
	29.00	194.9	70.7	114.48		
	30.00	196.5	72.3	114.46		
	31.00	198.7	74.5	114.48		
	32.00	201.1	76.9	114.48		
	33.00	203.3	79.1	114.50		
	34.00	205.5	81.3	114.49		
	35.00	207.7	83.5	114.51		
	36.00	209.8	85.6	114.51		
	37.00	211.7	87.5	114.55		
	38.00	213.8	89.6	114.58		
	39.00	215.9	91.7	114.63		
	40.00	218.0	93.7	114.66		
	41.00	220.1	95.8	114.67		
	42.00	222.0	97.8	114.69		
	43.00	223.9	99.7	114.72		
	44.00	225.8	101.6	114.74		
	45.00	228.2	104.0	114.77		
	46.00	230.1	105.9	114.80		
	47.00	232.3	108.1	114.83		
	48.00	234.5	110.3	114.86		
	49.00	236.6	112.4	114.89		
	50.00	238.3	114.1	114.92		
	51.00	240.5	116.3	114.96		
	52.00	242.6	118.4	114.99		
	53.00	244.7	120.5	115.00		
	54.00	246.9	122.7	115.00		
	55.00	248.8	124.5	115.00		
	56.00	250.8	126.6	115.01		
	57.00	252.4	128.2	115.01		
	58.00	254.5	130.3	115.02		
****** End Flow 2	59.00	256.4	132.2	115.05		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8824 DST #1 Oliver # 1-22 H & P Inc.

DATE: 03/18/96 TIME: 20:00:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Start Shutin 2	0.00	256.4	0.0	115.05	0.0000	0.066
	1.00	359.5	103.1	115.07	90.0000	0.129
	2.00	645.1	388.7	115.15	45.5000	0.416
	3.00	781.9	525.5	115.20	30.6667	0.611
	4.00	853.9	597.5	115.26	23.2500	0.729
	5.00	898.6	642.2	115.30	18.8000	0.807
	6.00	929.7	673.4	115.35	15.8333	0.864
	7.00	953.6	697.2	115.39	13.7143	0.909
	8.00	972.7	716.3	115.44	12.1250	0.946
	9.00	988.5	732.1	115.47	10.8889	0.977
	10.00	1002.2	745.8	115.51	9.9000	1.004
	11.00	1014.0	757.6	115.53	9.0909	1.028
	12.00	1024.3	767.9	115.56	8.4167	1.049
	13.00	1033.7	777.3	115.57	7.8462	1.069
	14.00	1042.1	785.7	115.59	7.3571	1.086
	15.00	1049.9	793.5	115.62	6.9333	1.102
	16.00	1057.0	800.6	115.64	6.5625	1.117
	17.00	1063.5	807.1	115.66	6.2353	1.131
	18.00	1069.7	813.3	115.66	5.9444	1.144
	19.00	1075.3	818.9	115.67	5.6842	1.156
	20.00	1080.6	824.3	115.66	5.4500	1.168
	21.00	1085.7	829.3	115.69	5.2381	1.179
	22.00	1090.4	834.0	115.69	5.0455	1.189
	23.00	1094.8	838.4	115.71	4.8696	1.199
	24.00	1099.2	842.8	115.72	4.7083	1.208
	25.00	1103.2	846.8	115.72	4.5600	1.217
	26.00	1107.1	850.7	115.74	4.4231	1.226
	27.00	1110.9	854.5	115.73	4.2963	1.234
	28.00	1114.4	858.0	115.74	4.1786	1.242
	29.00	1117.7	861.4	115.75	4.0690	1.249
	30.00	1121.0	864.6	115.76	3.9667	1.257
	31.00	1124.1	867.7	115.76	3.8710	1.264
	32.00	1127.1	870.8	115.76	3.7812	1.270
	33.00	1130.0	873.6	115.78	3.6970	1.277
	34.00	1132.8	876.4	115.78	3.6176	1.283
	35.00	1135.5	879.1	115.79	3.5429	1.289
	36.00	1138.1	881.7	115.78	3.4722	1.295
	37.00	1140.6	884.2	115.79	3.4054	1.301
	38.00	1142.9	886.5	115.79	3.3421	1.306
	39.00	1145.2	888.8	115.79	3.2821	1.311
	40.00	1147.5	891.1	115.79	3.2250	1.317
	41.00	1149.6	893.2	115.80	3.1707	1.322
	42.00	1151.7	895.3	115.80	3.1190	1.326
	43.00	1153.9	897.5	115.81	3.0698	1.332
	44.00	1155.8	899.5	115.81	3.0227	1.336
	45.00	1157.9	901.5	115.82	2.9778	1.341
	46.00	1159.7	903.3	115.82	2.9348	1.345
	47.00	1161.6	905.2	115.82	2.8936	1.349
	48.00	1163.3	906.9	115.82	2.8542	1.353
	49.00	1165.1	908.7	115.81	2.8163	1.357
	50.00	1166.8	910.4	115.83	2.7800	1.362

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8824 DST #1 Oliver # 1-22 H & P Inc.

DATE: 03/18/96 TIME: 20:00:56

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
51.00	1168.4	912.0	115.82	2.7451	1.365
52.00	1170.0	913.6	115.82	2.7115	1.369
53.00	1171.6	915.2	115.82	2.6792	1.373
54.00	1173.1	916.7	115.79	2.6481	1.376
55.00	1174.6	918.2	115.80	2.6182	1.380
56.00	1175.9	919.5	115.81	2.5893	1.383
57.00	1177.4	921.0	115.81	2.5614	1.386
58.00	1178.7	922.3	115.75	2.5345	1.389
59.00	1180.1	923.7	115.78	2.5085	1.393
60.00	1181.4	925.1	115.79	2.4833	1.396
61.00	1182.7	926.3	115.83	2.4590	1.399
62.00	1184.0	927.7	115.86	2.4355	1.402
63.00	1185.2	928.8	115.86	2.4127	1.405
64.00	1186.4	930.0	115.88	2.3906	1.408
65.00	1187.6	931.2	115.91	2.3692	1.410
66.00	1188.7	932.3	115.94	2.3485	1.413
67.00	1189.9	933.5	115.91	2.3284	1.416
68.00	1191.0	934.6	115.90	2.3088	1.419
69.00	1192.0	935.6	115.89	2.2899	1.421
70.00	1193.0	936.6	115.91	2.2714	1.423
71.00	1194.0	937.6	115.84	2.2535	1.426
72.00	1195.1	938.7	115.89	2.2361	1.428
73.00	1196.0	939.7	115.89	2.2192	1.431
74.00	1197.0	940.6	115.91	2.2027	1.433
75.00	1197.9	941.5	115.89	2.1867	1.435
76.00	1198.9	942.5	115.90	2.1711	1.437
77.00	1199.8	943.4	115.90	2.1558	1.440
78.00	1200.8	944.4	115.90	2.1410	1.442
79.00	1201.7	945.3	115.90	2.1266	1.444
80.00	1202.5	946.1	115.90	2.1125	1.446
81.00	1203.3	947.0	115.91	2.0988	1.448
82.00	1204.3	947.9	115.91	2.0854	1.450
83.00	1205.1	948.7	115.90	2.0723	1.452
84.00	1205.9	949.5	115.91	2.0595	1.454
85.00	1206.7	950.3	115.91	2.0471	1.456
86.00	1207.5	951.2	115.91	2.0349	1.458
87.00	1208.3	951.9	115.92	2.0230	1.460
88.00	1209.1	952.7	115.91	2.0114	1.462
89.00	1209.8	953.4	115.91	2.0000	1.464
90.00	1210.5	954.1	115.92	1.9889	1.465
91.00	1211.2	954.8	115.92	1.9780	1.467
92.00	1211.9	955.5	115.92	1.9674	1.469
93.00	1212.6	956.2	115.92	1.9570	1.470
94.00	1213.3	956.9	115.91	1.9468	1.472
95.00	1213.9	957.5	115.93	1.9368	1.474
96.00	1214.6	958.2	115.93	1.9271	1.475
97.00	1215.3	958.9	115.93	1.9175	1.477
98.00	1215.9	959.5	115.92	1.9082	1.479
99.00	1216.4	960.1	115.94	1.8990	1.480
100.00	1217.1	960.7	115.94	1.8900	1.481
101.00	1217.7	961.3	115.94	1.8812	1.483

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8824 DST #1 Oliver # 1-22 H & P Inc.

DATE: 03/18/96 TIME: 20:00:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	102.00	1218.3	961.9	115.94	1.8725	1.484
	103.00	1218.9	962.5	115.93	1.8641	1.486
	104.00	1219.6	963.2	115.95	1.8558	1.487
	105.00	1220.2	963.8	115.94	1.8476	1.489
	106.00	1220.6	964.2	115.95	1.8396	1.490
	107.00	1221.2	964.8	115.95	1.8318	1.491
	108.00	1221.8	965.4	115.95	1.8241	1.493
	109.00	1222.3	965.9	115.96	1.8165	1.494
	110.00	1222.9	966.5	115.99	1.8091	1.495
	111.00	1223.3	966.9	115.96	1.8018	1.497
	112.00	1223.9	967.5	115.96	1.7946	1.498
	113.00	1224.4	968.0	115.97	1.7876	1.499
	114.00	1224.9	968.5	115.97	1.7807	1.500
	115.00	1225.5	969.1	115.98	1.7739	1.502
	116.00	1226.0	969.6	115.98	1.7672	1.503
	117.00	1226.5	970.1	115.97	1.7607	1.504
	118.00	1227.1	970.7	115.97	1.7542	1.506
	119.00	1227.4	971.0	115.98	1.7479	1.507
***** End Shut-in 2	120.00	1227.9	971.5	115.98	1.7417	1.508
***** Final Hydro.	460.00	2123.0	0.0	116.15		

*** TOOL DIAGRAM *** CONV. STRADDLE

WELL NAME: Oliver # 1-22

LOCATION : 22-26S-34W, Finney Cty KS

TICKET No. 8824 D.S.T. No. 1 DATE 3-18-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 46

TOTAL TOOL 76

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands1 Single Total 61

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 137

D.C. ABOVE TOOLS.Stands9 Single Total 533

D.P. ABOVE TOOLS.Stands62 Single 1 Total 3845

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4515

TOTAL DEPTH 4504

TOTAL DRILL PIPE ABOVE K.B. 11

REMARKS:

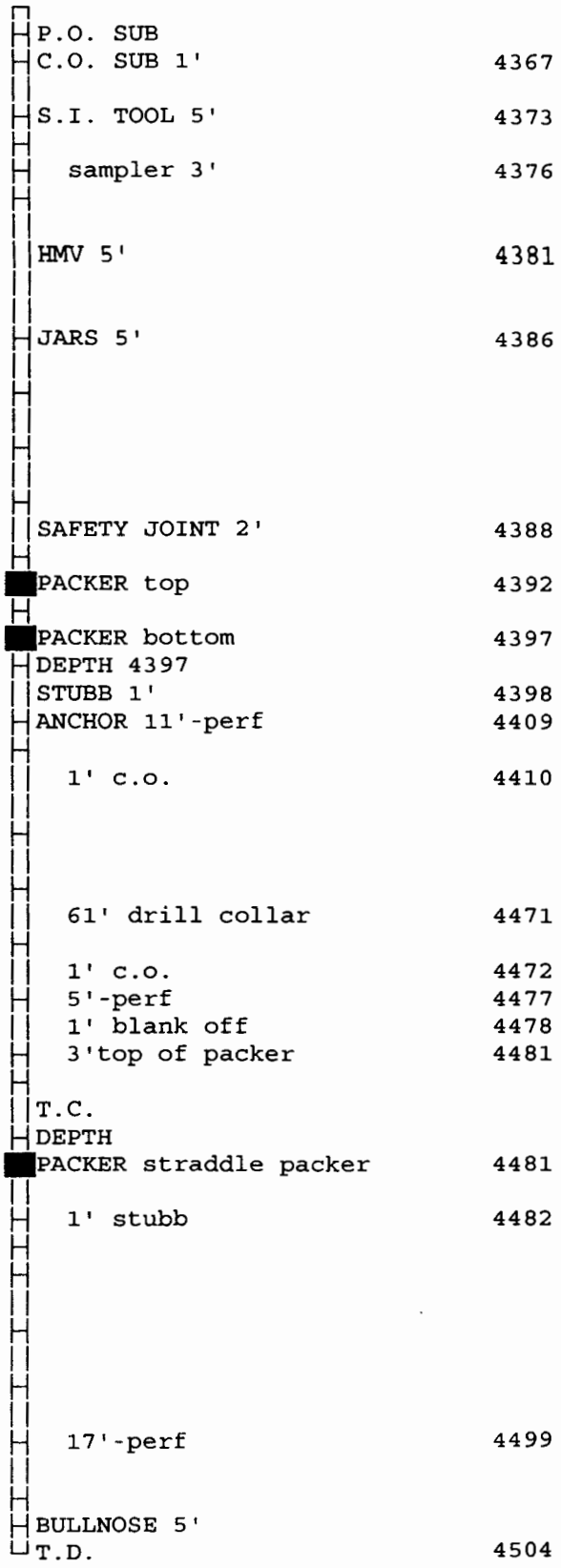
FLUID SAMPLER DATA

SAMPLER RECOVERY -
Water 4,000 ml, Oil scum, Pressure 1150 PSI,
Total 4000 ml

SAMPLER ANALYSIS -
Resist .18 ohms @ 64 F; Chlorides 39500 ppm

PIT MUD ANALYSIS -
Chlorides 3700 ppm, Resist 1.8 ohms @ 65 F;
Vis 54, Mud Wt 9.1, Filtrate 8.8, LCM @3

PIPE RECOVERY -
Top -
Resist .39 ohms @ 58 F; Chlorides 21000 ppm
Bottom -
Resist .18 ohms @ 64 F; Chlorides 39500 ppm



TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8824 Date 3-18-96

Company Name H+P Inc.

Lease Oliver #1-22 Test No. 1

County Finney, KS Sec. 22 Twp. 26s Rng. 34w

SAMPLER RECOVERY

Gas _____ ML

Oil Scum ML

Mud _____ ML

Water 4,000 ML

Other _____ ML

Pressure 1150 lbs PSI

Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 3,700 ppm.

Resistivity 1.8 ohms @ 65 F

Viscosity 54

Mud Weight 9.1

Filtrate 8.8

Other LCM #2

SAMPLER ANALYSIS

Resistivity .18 ohms @ 64 F

Chlorides 39,500 ppm.

Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .39 ohms @ 58 F

Chlorides 21,000 ppm.

MIDDLE
Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM
Resistivity .18 ohms @ 64 F

Chlorides 39,500 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 8824

Well Name & No. Oliver #1-22 Test No. 1 Date 3-18-96

Company H & P Inc. Zone Tested KC - Marmaton

Address P.O. Box 558 Garden City, KS 67846 Elevation 2958' KB 2946' GL

Co. Rep / Geo. Brad Rine Cont. Cheyenne #7 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 22 Twp. 26s Rge. 34w Co. Finney State KS

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

Interval Tested ~~4312~~ 4397' - 4481' Initial Str Wt./Lbs. 90,000 Unseated Str Wt./Lbs. 90,000

Anchor Length 84' Wt. Set Lbs. 35,000 Wt. Pulled Loose/Lbs. 105,000

Top Packer Depth 4392' - 4397' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Bottom Packer Depth 4481' Wt. Pipe I.D. — 2.7 Ft. Run —

Total Depth 4504' Drill Collar — 2.25 Ft. Run 594'

Mud Wt. 9.1 LCM #2 Vis. 54 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3845'

Blow Description Surface blow built to 4 1/4" in.

I.S.I: No return

F.F: Surface blow built to 1/4" in.

F.S.I: No return.

Recovery — Total Feet 480' Ft. in DC 480' Ft. in WP — Ft. in DP —

Rec. 120'	Feet Of	water cut mud TRACE oil	%gas	3 %oil	30 %water	67 %mud
Rec. 60'	Feet Of	watery mud	%gas	scum %oil	70 %water	30 %mud
Rec. 300'	Feet Of	water	%gas	slit scum %oil	100 %water	%mud
Rec. ___	Feet Of	___	%gas	%oil	%water	%mud
Rec. ___	Feet Of	___	%gas	%oil	%water	%mud

BHT 116° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW .19 @ 64 °F Chlorides 39,500 ppm Recovery Chlorides 3,700 ppm System

	AK-1	Elec.			
(A) Initial Hydrostatic Mud	2159	2171	PSI	Recorder No. 2346	T-Started 6:40 P.M.
(B) First Initial Flow Pressure	72	26	PSI	@ (depth) 4398'	T-Open 10:53 P.M.
(C) First Final Flow Pressure	111	114	PSI	Recorder No. 11057	T-Pulled 3:23 A.M.
(D) Initial Shut-in Pressure	1220	1232	PSI	@ (depth) 4501'	T-Out 6:45 A.M.
(E) Second Initial Flow Pressure	166	124	PSI	Recorder No. 11058	
(F) Second Final Flow Pressure	244	256	PSI	@ (depth) 4406	
(G) Final Shut-in Pressure	1220	1227	PSI	Initial Opening 30	Test X 600
(H) Final Hydrostatic Mud	2177	2123	PSI	Initial Shut-in 60	Jars X 200
				Final Flow 60	Safety Joint X 50
				Final Shut-in 120	Straddle X 250
					Circ. Sub X N/C
					Sampler X 200
					Extra Packer X 150
					Elect. Rec. X 150
					Other ___
					TOTAL PRICE $ 1600

Approved By Allen J. Rine

Our Representative Shane McBride

Well name Oliver

DST # 1

Recorder # 11058

				1
A		2198		2
B		57		3
C		102		4
D		1207		5
E		151		6
F		240		7
G		1204		8
H		2105		9
				10
				11
				12