

CONFIDENTIAL

Computer Inventoried

WELL NAME: Dellinger #1-36
COMPANY: Harris Oil & Gas
LOCATION: 36-31s-33w
Seward County, Kansas
DATE: 11/28/97

ORIGINAL KCC
FEB 20

CONFIDENTIAL

15-175-21660

RELEASED

APR 09 1999

FROM CONFIDENTIAL

36-31-33W

DATE 11/20/97

KB	2873.00 ft	TICKET NO FROM 50010501
GR	2859.00 ft	FORMATION: Marmaton
TD	4946.00 ft	TEST TYPE: CONV

Mins		Field	1	2	3	4	TIME DATA-----
PF	30	Rec.	AK-1	AK-1	Alpine		PF Fr. 1755 to 1825 hr
SI	60	Range(Psi)	4300.0	4300.0	4995.0	0.0	IS Fr. 1825 to 1925 hr
SF	60	Clock(hrs)	12hr	12hr	Elec		SF Fr. 1925 to 2025 hr
FS	120	Depth(ft)	4889.0	4889.0	5081.0	0.0	FS Fr. 2025 to 2225 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2339.0	0.0	0.0	T STARTED 1500 hr
B. First Flow	0.0	0.0	95.0	0.0	0.0	T ON BOTM 1753 hr
B1. Final Flow	0.0	0.0	95.0	0.0	0.0	T OPEN 1755 hr
C. In Shut-in	0.0	0.0	1476.0	0.0	0.0	T PULLED 2225 hr
D. Init Flow	0.0	0.0	106.0	0.0	0.0	T OUT 0048 hr
E. Final Flow	0.0	0.0	101.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1482.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2251.0	0.0	0.0	Tool Wt. 4900.00 lbs
Inside/Outside	O	O	I	B		Wt Set On Packer 30000.00 lbs

Tot Fluid	300.00 ft of	300.00 ft in DC and	0.00 ft in DP
300.00	ft of gassy mud		
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		
0.00	ft of		
SALINITY	0.00 P.P.M.	A.P.I. Gravity	0.00

TOOL DATA-----	
Tool Wt.	4900.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	120000.00 lbs
Initial Str Wt	100000.00 lbs
Unseated Str Wt	100000.00 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	515.00 ft
D.P. Length	4349.00 ft
H.W. I.D	2.70 in

Initial Flow-
strong blow gas to surface in
4 minutes

Initial Shutin-
blowback built to bottom of bucket
in 12 minutes

Final Flow-
gauging gas--see report

Final Shutin-
no blow

SAMPLES:
SENT TO:

MUD DATA-----	
Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	58.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	107.00 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.	Dan Sommers	
Contr.	Allen	
Rig #		5
Unit #		
Pump T.		

Test Successful: Y

1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001

DATE: 11/20/97

KB Elev: 2873.00 ft TICKET #10555 DST #1

GR Elev: 2859.00 ft FORMATION: Marmaton

INTERVAL Fr.: 4886.00 To 4946.00 T.D.: 4946.00 ft TEST TYPE: CONV

***** GAS RATES FOR FLOW #1

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.50	0	70	583000.0
10	1.50	0	68	575000.0
20	1.50	0	58	530000.0
30	1.50	0	54	511000.0
40	1.50	0	52	502000.0
50	1.50	0	52	502000.0
60	1.50	0	50	493000.0

*** TOOL DIAGRAM *** CONV

WELL NAME: Dellinger #1-36

LOCATION : 36-31S-33W Seward Co. KS

TICKET No. 10555 D.S.T. No. 1 DATE 11/20/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27 tool

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 30 perf

TOTAL TOOL 57

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single 1 Total 30

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 87

D.C. ABOVE TOOLS.Stands8 Single 1 Total 515

D.P. ABOVE TOOLS.Stands70 Single Total 4349

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4951

TOTAL DEPTH 4946

TOTAL DRILL PIPE ABOVE K.B. 5

REMARKS:

Sampler Data

P.O. SUB	
C.O. SUB Top of tool @	4860
S.I. TOOL Sterling	4866
HMV Sterling	4871
JARS Sterling	4875
SAFETY JOINT Bowen	4877
PACKER Top	4881
PACKER Bottom	4886
DEPTH	4886
STUBB 1'	4887
ANCHOR	
2' perf	4889
Ak-1 rec. @4889	
5' perf	4894
5' perf	4899
5' perf	4904
T.C.	
DEPTH	
Alpine rec @ 4909	
5' perf	4909
1 drill collar	
& subs to	4941
BULLNOSE 5' bullplug	
T.D. to	4946

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10555 Harris Oil & Gas Dellinger #1-36 DST #1

DATE: 11/20/97 TIME: 14:29:06

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	206.00	2339.0	0.0	107.03		
***** Start Flow 1	0.00	95.0	0.0	107.60		
	0.50	92.5	-2.5	107.65		
	1.00	92.6	-2.4	107.71		
	1.50	87.7	-7.3	107.76		
	2.00	89.0	-6.0	107.80		
	2.50	85.5	-9.5	107.84		
	3.00	85.2	-9.8	107.87		
	3.50	85.3	-9.7	107.91		
	4.00	86.3	-8.7	107.94		
	4.50	98.9	3.9	107.97		
	5.00	93.1	-1.9	107.99		
	5.50	95.1	0.1	108.01		
	6.00	92.7	-2.3	108.03		
	6.50	93.0	-2.0	108.04		
	7.00	95.0	0.0	108.03		
	7.50	92.1	-2.9	108.02		
	8.00	90.9	-4.1	108.00		
	8.50	91.5	-3.5	107.98		
	9.00	90.9	-4.1	107.96		
	9.50	92.3	-2.7	107.93		
	10.00	91.1	-3.9	107.91		
	10.50	90.6	-4.4	107.89		
	11.00	90.6	-4.4	107.86		
	11.50	92.2	-2.8	107.85		
	12.00	91.5	-3.5	107.82		
	12.50	90.3	-4.7	107.78		
	13.00	91.1	-3.9	107.75		
	13.50	92.7	-2.3	107.72		
	14.00	93.6	-1.4	107.68		
	14.50	91.7	-3.3	107.64		
	15.00	94.4	-0.6	107.60		
	15.50	92.5	-2.5	107.55		
	16.00	93.8	-1.2	107.51		
	16.50	92.8	-2.2	107.47		
	17.00	92.1	-2.9	107.41		
	17.50	92.5	-2.5	107.37		
	18.00	92.4	-2.6	107.31		
	18.50	94.5	-0.5	107.27		
	19.00	93.7	-1.3	107.21		
	19.50	94.7	-0.3	107.16		
	20.00	92.4	-2.6	107.11		
	20.50	92.4	-2.6	107.05		
	21.00	93.3	-1.7	107.01		
	21.50	93.4	-1.6	106.96		
	22.00	92.5	-2.5	106.91		
	22.50	93.5	-1.5	106.86		
	23.00	94.2	-0.8	106.81		
	23.50	95.1	0.1	106.75		
	24.00	93.9	-1.1	106.69		
	24.50	94.0	-1.0	106.63		

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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	95.4	0.4	106.57		
	25.50	94.6	-0.4	106.52		
	26.00	92.8	-2.2	106.47		
***** End Flow 1	26.50	94.7	-0.3	106.43		
***** Start Shutin 1	0.00	94.7	0.0	106.43	0.0000	0.009
	0.50	93.6	-1.2	106.38	54.0000	0.009
	1.00	283.4	188.7	106.35	27.5000	0.080
	1.50	566.6	471.8	106.32	18.6667	0.321
	2.00	780.5	685.8	106.30	14.2500	0.609
	2.50	938.6	843.9	106.30	11.6000	0.881
	3.00	1057.6	962.9	106.30	9.8333	1.119
	3.50	1143.9	1049.2	106.30	8.5714	1.309
	4.00	1205.1	1110.4	106.31	7.6250	1.452
	4.50	1248.3	1153.6	106.30	6.8889	1.558
	5.00	1279.7	1185.0	106.31	6.3000	1.638
	5.50	1302.6	1207.9	106.30	5.8182	1.697
	6.00	1319.7	1224.9	106.30	5.4167	1.742
	6.50	1333.1	1238.4	106.28	5.0769	1.777
	7.00	1344.0	1249.3	106.26	4.7857	1.806
	7.50	1353.1	1258.3	106.24	4.5333	1.831
	8.00	1360.6	1265.9	106.22	4.3125	1.851
	8.50	1367.1	1272.3	106.07	4.1176	1.869
	9.00	1373.0	1278.2	106.18	3.9444	1.885
	9.50	1378.1	1283.3	106.17	3.7895	1.899
	10.00	1382.9	1288.1	106.13	3.6500	1.912
	10.50	1387.2	1292.5	106.10	3.5238	1.924
	11.00	1391.3	1296.5	106.08	3.4091	1.936
	11.50	1394.6	1299.9	106.06	3.3043	1.945
	12.00	1398.0	1303.2	106.04	3.2083	1.954
	12.50	1401.0	1306.3	106.01	3.1200	1.963
	13.00	1403.9	1309.2	105.98	3.0385	1.971
	13.50	1406.8	1312.0	105.97	2.9630	1.979
	14.00	1409.5	1314.7	105.96	2.8929	1.987
	14.50	1412.1	1317.3	105.93	2.8276	1.994
	15.00	1414.3	1319.5	105.90	2.7667	2.000
	15.50	1416.4	1321.7	105.89	2.7097	2.006
	16.00	1418.5	1323.8	105.88	2.6562	2.012
	16.50	1420.6	1325.8	105.86	2.6061	2.018
	17.00	1422.7	1328.0	105.85	2.5588	2.024
	17.50	1424.2	1329.5	105.84	2.5143	2.028
	18.00	1425.8	1331.1	105.82	2.4722	2.033
	18.50	1427.6	1332.9	105.81	2.4324	2.038
	19.00	1429.3	1334.5	105.80	2.3947	2.043
	19.50	1430.9	1336.1	105.80	2.3590	2.047
	20.00	1432.2	1337.5	105.74	2.3250	2.051
	20.50	1433.7	1339.0	105.78	2.2927	2.056
	21.00	1435.5	1340.7	105.77	2.2619	2.061
	21.50	1436.8	1342.0	105.76	2.2326	2.064
	22.00	1437.9	1343.2	105.76	2.2045	2.068
	22.50	1439.1	1344.4	105.77	2.1778	2.071
	23.00	1440.0	1345.3	105.75	2.1522	2.074

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10555 Harris Oil & Gas Dellinger #1-36 DST #1

DATE: 11/20/97

TIME: 14:29:06

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
23.50	1441.4	1346.6	105.76	2.1277	2.078
24.00	1442.4	1347.6	105.75	2.1042	2.080
24.50	1443.3	1348.6	105.75	2.0816	2.083
25.00	1444.3	1349.6	105.75	2.0600	2.086
25.50	1445.4	1350.7	105.75	2.0392	2.089
26.00	1446.4	1351.7	105.75	2.0192	2.092
26.50	1447.2	1352.4	105.76	2.0000	2.094
27.00	1448.0	1353.3	105.76	1.9815	2.097
27.50	1448.8	1354.0	105.76	1.9636	2.099
28.00	1449.6	1354.8	105.77	1.9464	2.101
28.50	1450.4	1355.7	105.77	1.9298	2.104
29.00	1451.0	1356.3	105.77	1.9138	2.105
29.50	1451.6	1356.9	105.78	1.8983	2.107
30.00	1452.4	1357.7	105.79	1.8833	2.110
30.50	1453.0	1358.3	105.80	1.8689	2.111
31.00	1453.8	1359.0	105.82	1.8548	2.114
31.50	1454.4	1359.6	105.79	1.8413	2.115
32.00	1455.0	1360.2	105.82	1.8281	2.117
32.50	1455.6	1360.8	105.82	1.8154	2.119
33.00	1456.1	1361.3	105.83	1.8030	2.120
33.50	1457.0	1362.2	105.85	1.7910	2.123
34.00	1457.6	1362.8	105.85	1.7794	2.124
34.50	1458.0	1363.2	105.87	1.7681	2.126
35.00	1458.6	1363.8	105.87	1.7571	2.127
35.50	1458.9	1364.2	105.87	1.7465	2.128
36.00	1459.4	1364.7	105.88	1.7361	2.130
36.50	1459.7	1365.0	105.90	1.7260	2.131
37.00	1460.1	1365.3	105.92	1.7162	2.132
37.50	1460.2	1365.4	105.93	1.7067	2.132
38.00	1461.6	1366.8	105.93	1.6974	2.136
38.50	1463.2	1368.4	105.95	1.6883	2.141
39.00	1463.9	1369.2	105.96	1.6795	2.143
39.50	1464.3	1369.5	105.97	1.6709	2.144
40.00	1464.4	1369.7	105.97	1.6625	2.145
40.50	1464.8	1370.0	105.99	1.6543	2.146
41.00	1465.0	1370.3	106.02	1.6463	2.146
41.50	1465.5	1370.7	106.03	1.6386	2.148
42.00	1465.9	1371.1	106.04	1.6310	2.149
42.50	1466.1	1371.4	106.05	1.6235	2.150
43.00	1466.5	1371.8	106.07	1.6163	2.151
43.50	1466.8	1372.1	106.08	1.6092	2.151
44.00	1467.1	1372.4	106.11	1.6023	2.152
44.50	1467.4	1372.6	106.10	1.5955	2.153
45.00	1467.6	1372.9	106.12	1.5889	2.154
45.50	1468.1	1373.4	106.14	1.5824	2.155
46.00	1468.4	1373.6	106.15	1.5761	2.156
46.50	1468.6	1373.9	106.17	1.5699	2.157
47.00	1468.9	1374.2	106.18	1.5638	2.158
47.50	1469.1	1374.4	106.20	1.5579	2.158
48.00	1469.4	1374.7	106.23	1.5521	2.159
48.50	1470.0	1375.2	106.19	1.5464	2.161

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10555 Harris Oil & Gas Dellinger #1-36 DST #1

DATE: 11/20/97

TIME: 14:29:06

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	49.00	1470.7	1376.0	106.25	1.5408	2.163
	49.50	1471.2	1376.4	106.26	1.5354	2.164
	50.00	1471.7	1376.9	106.27	1.5300	2.166
	50.50	1471.9	1377.2	106.29	1.5248	2.167
	51.00	1471.5	1376.8	106.31	1.5196	2.165
	51.50	1471.5	1376.8	106.32	1.5146	2.165
	52.00	1471.7	1377.0	106.33	1.5096	2.166
	52.50	1471.7	1377.0	106.36	1.5048	2.166
	53.00	1472.0	1377.3	106.37	1.5000	2.167
	53.50	1472.3	1377.5	106.38	1.4953	2.168
	54.00	1472.3	1377.5	106.40	1.4907	2.168
	54.50	1472.7	1377.9	106.42	1.4862	2.169
	55.00	1472.8	1378.0	106.43	1.4818	2.169
	55.50	1473.0	1378.3	106.45	1.4775	2.170
	56.00	1473.2	1378.5	106.47	1.4732	2.170
	56.50	1473.3	1378.5	106.49	1.4690	2.171
	57.00	1473.3	1378.5	106.51	1.4649	2.171
	57.50	1473.5	1378.8	106.53	1.4609	2.171
	58.00	1473.6	1378.9	106.54	1.4569	2.171
	58.50	1474.1	1379.4	106.55	1.4530	2.173
	59.00	1474.2	1379.4	106.57	1.4492	2.173
	59.50	1474.4	1379.6	106.59	1.4454	2.174
	60.00	1474.7	1379.9	106.61	1.4417	2.175
	60.50	1475.4	1380.7	106.62	1.4380	2.177
***** End Shut-in 1	61.00	1475.9	1381.1	106.63	1.4344	2.178
***** Start Flow 2	0.00	106.4	0.0	106.78		
	0.50	104.1	-2.4	106.85		
	1.00	104.3	-2.1	106.91		
	1.50	102.5	-3.9	106.97		
	2.00	100.6	-5.8	107.02		
	2.50	100.5	-5.9	107.06		
	3.00	101.0	-5.4	107.09		
	3.50	98.6	-7.8	107.12		
	4.00	96.4	-10	107.14		
	4.50	95.5	-10.9	107.16		
	5.00	94.7	-11.7	107.17		
	5.50	95.2	-11.2	107.18		
	6.00	99.7	-6.7	107.19		
	6.50	95.9	-10.5	107.18		
	7.00	95.8	-10.6	107.17		
	7.50	96.6	-9.8	107.17		
	8.00	96.4	-10	107.16		
	8.50	93.2	-13.3	107.15		
	9.00	94.0	-12.4	107.14		
	9.50	95.9	-10.5	107.13		
	10.00	96.0	-10.4	107.12		
	10.50	93.9	-12.5	107.11		
	11.00	94.3	-12.1	107.09		
	11.50	96.7	-9.7	107.08		
	12.00	95.1	-11.3	107.05		
	12.50	93.4	-13.0	107.02		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10555 Harris Oil & Gas Dellinger #1-36 DST #1

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
13.00	93.7	-12.7	106.98		
13.50	95.5	-10.9	106.91		
14.00	94.3	-12.1	106.84		
14.50	93.9	-12.5	106.77		
15.00	95.2	-11.2	106.68		
15.50	95.5	-10.9	106.60		
16.00	96.9	-9.5	106.52		
16.50	96.4	-10	106.43		
17.00	97.0	-9.4	106.36		
17.50	96.2	-10.2	106.28		
18.00	95.5	-10.9	106.22		
18.50	95.2	-11.2	106.16		
19.00	96.1	-10.3	106.10		
19.50	95.9	-10.5	106.05		
20.00	95.6	-10.8	105.99		
20.50	93.4	-13.0	105.93		
21.00	96.5	-9.9	105.88		
21.50	93.2	-13.3	105.83		
22.00	92.7	-13.7	105.78		
22.50	92.2	-14.2	105.73		
23.00	91.9	-14.5	105.69		
23.50	93.2	-13.3	105.63		
24.00	93.3	-13.1	105.57		
24.50	93.8	-12.6	105.48		
25.00	93.0	-13.4	105.40		
25.50	94.7	-11.7	105.29		
26.00	93.4	-13.0	105.17		
26.50	93.4	-13.0	105.07		
27.00	93.2	-13.2	104.95		
27.50	94.2	-12.2	104.83		
28.00	95.7	-10.7	104.72		
28.50	96.2	-10.2	104.61		
29.00	94.7	-11.7	104.51		
29.50	93.9	-12.5	104.41		
30.00	92.4	-14.0	104.32		
30.50	92.8	-13.6	104.26		
31.00	92.6	-13.8	104.19		
31.50	92.6	-13.8	104.12		
32.00	93.3	-13.1	104.06		
32.50	93.7	-12.8	104.01		
33.00	94.3	-12.1	103.95		
33.50	92.5	-13.9	103.90		
34.00	92.2	-14.2	103.85		
34.50	92.8	-13.6	103.81		
35.00	94.7	-11.7	103.78		
35.50	95.6	-10.8	103.74		
36.00	95.8	-10.7	103.71		
36.50	95.2	-11.2	103.68		
37.00	94.4	-12.0	103.64		
37.50	95.7	-10.7	103.61		
38.00	95.4	-11.0	103.57		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10555 Harris Oil & Gas Dellinger #1-36 DST #1

DATE: 11/20/97 TIME: 14:29:06

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
38.50	95.5	-10.9	103.53		
39.00	97.1	-9.3	103.49		
39.50	96.7	-9.7	103.45		
40.00	95.8	-10.6	103.41		
40.50	96.8	-9.6	103.35		
41.00	96.5	-9.9	103.31		
41.50	98.5	-7.9	103.25		
42.00	96.1	-10.3	103.20		
42.50	96.4	-10	103.15		
43.00	97.4	-9.0	103.12		
43.50	98.0	-8.4	103.10		
44.00	97.9	-8.5	103.11		
44.50	98.3	-8.1	103.11		
45.00	97.9	-8.6	103.11		
45.50	98.5	-7.9	103.10		
46.00	98.9	-7.6	103.09		
46.50	98.8	-7.6	103.07		
47.00	97.9	-8.6	103.05		
47.50	96.4	-10	103.02		
48.00	96.5	-9.9	102.99		
48.50	97.3	-9.1	102.96		
49.00	97.2	-9.2	102.95		
49.50	98.4	-8.1	102.93		
50.00	100.8	-5.6	102.89		
50.50	100.3	-6.1	102.85		
51.00	99.9	-6.5	102.80		
51.50	99.9	-6.5	102.76		
52.00	100.8	-5.6	102.72		
52.50	100.5	-5.9	102.68		
53.00	99.4	-7.0	102.64		
53.50	101.0	-5.5	102.59		
54.00	100.6	-5.8	102.53		
54.50	100.7	-5.7	102.48		
55.00	100.8	-5.6	102.42		
55.50	100.9	-5.5	102.36		
56.00	100.3	-6.1	102.30		
56.50	101.0	-5.5	102.24		
57.00	101.0	-5.5	102.16		

***** End Flow 2

***** Start Shutin 2	0.00	101.0	0.0	102.16	0.0000	0.010
	0.50	366.6	265.6	102.10	168.0000	0.134
	1.00	611.3	510.4	102.05	84.5000	0.374
	1.50	799.0	698.0	102.02	56.6667	0.638
	2.00	939.1	838.1	102.00	42.7500	0.882
	2.50	1042.3	941.3	101.99	34.4000	1.086
	3.00	1117.7	1016.7	102.00	28.8333	1.249
	3.50	1172.6	1071.7	102.01	24.8571	1.375
	4.00	1212.7	1111.8	101.99	21.8750	1.471
	4.50	1242.4	1141.4	102.01	19.5556	1.543
	5.00	1264.9	1163.9	102.00	17.7000	1.600
	5.50	1281.8	1180.9	101.99	16.1818	1.643
	6.00	1295.5	1194.5	101.98	14.9167	1.678

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10555 Harris Oil & Gas Dellinger #1-36 DST #1

DATE: 11/20/97

TIME: 14:29:06

Time	Pressure PSig	delta PSig	P	Temp. DEG F	(T+dT)/dT	P^2/10^6
6.50	1306.5	1205.5	101.96	13.8462	1.707	
7.00	1316.0	1215.0	101.93	12.9286	1.732	
7.50	1324.0	1223.0	101.89	12.1333	1.753	
8.00	1331.2	1230.2	101.87	11.4375	1.772	
8.50	1337.5	1236.5	101.84	10.8235	1.789	
9.00	1343.2	1242.2	101.82	10.2778	1.804	
9.50	1348.4	1247.4	101.77	9.7895	1.818	
10.00	1353.2	1252.3	101.74	9.3500	1.831	
10.50	1357.7	1256.7	101.71	8.9524	1.843	
11.00	1361.9	1260.9	101.67	8.5909	1.855	
11.50	1365.7	1264.8	101.64	8.2609	1.865	
12.00	1369.5	1268.6	101.61	7.9583	1.876	
12.50	1373.0	1272.0	101.58	7.6800	1.885	
13.00	1376.2	1275.2	101.55	7.4231	1.894	
13.50	1379.3	1278.3	101.51	7.1852	1.902	
14.00	1382.2	1281.2	101.49	6.9643	1.910	
14.50	1385.0	1284.0	101.46	6.7586	1.918	
15.00	1387.7	1286.7	101.45	6.5667	1.926	
15.50	1390.1	1289.1	101.43	6.3871	1.932	
16.00	1392.6	1291.6	101.35	6.2188	1.939	
16.50	1395.0	1294.0	101.32	6.0606	1.946	
17.00	1397.2	1296.3	101.32	5.9118	1.952	
17.50	1399.2	1298.3	101.32	5.7714	1.958	
18.00	1401.2	1300.2	101.32	5.6389	1.963	
18.50	1403.1	1302.1	101.31	5.5135	1.969	
19.00	1405.0	1304.1	101.31	5.3947	1.974	
19.50	1406.7	1305.7	101.31	5.2821	1.979	
20.00	1408.4	1307.4	101.30	5.1750	1.984	
20.50	1410.0	1309.0	101.30	5.0732	1.988	
21.00	1411.6	1310.6	101.31	4.9762	1.993	
21.50	1413.3	1312.3	101.30	4.8837	1.997	
22.00	1414.6	1313.6	101.30	4.7955	2.001	
22.50	1416.1	1315.1	101.30	4.7111	2.005	
23.00	1417.5	1316.6	101.28	4.6304	2.009	
23.50	1418.7	1317.8	101.27	4.5532	2.013	
24.00	1420.1	1319.1	101.26	4.4792	2.017	
24.50	1421.3	1320.4	101.29	4.4082	2.020	
25.00	1422.6	1321.6	101.29	4.3400	2.024	
25.50	1423.7	1322.7	101.28	4.2745	2.027	
26.00	1424.9	1324.0	101.27	4.2115	2.030	
26.50	1425.8	1324.9	101.27	4.1509	2.033	
27.00	1426.9	1326.0	101.26	4.0926	2.036	
27.50	1427.9	1327.0	101.26	4.0364	2.039	
28.00	1428.9	1328.0	101.28	3.9821	2.042	
28.50	1429.9	1328.9	101.28	3.9298	2.045	
29.00	1430.9	1329.9	101.28	3.8793	2.047	
29.50	1431.9	1330.9	101.30	3.8305	2.050	
30.00	1432.6	1331.7	101.30	3.7833	2.052	
30.50	1433.6	1332.6	101.30	3.7377	2.055	
31.00	1434.4	1333.4	101.30	3.6935	2.058	
31.50	1435.2	1334.2	101.30	3.6508	2.060	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10555 Harris Oil & Gas Dellinger #1-36 DST #1

DATE: 11/20/97

TIME: 14:29:06

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
32.00	1436.0	1335.0	101.30	3.6094	2.062
32.50	1436.7	1335.7	101.30	3.5692	2.064
33.00	1437.5	1336.6	101.31	3.5303	2.066
33.50	1438.2	1337.2	101.31	3.4925	2.068
34.00	1438.8	1337.9	101.31	3.4559	2.070
34.50	1439.6	1338.6	101.31	3.4203	2.072
35.00	1440.3	1339.3	101.32	3.3857	2.074
35.50	1440.9	1339.9	101.32	3.3521	2.076
36.00	1441.5	1340.6	101.32	3.3194	2.078
36.50	1442.2	1341.3	101.32	3.2877	2.080
37.00	1442.9	1341.9	101.32	3.2568	2.082
37.50	1443.5	1342.5	101.32	3.2267	2.084
38.00	1444.1	1343.1	101.34	3.1974	2.085
38.50	1444.6	1343.7	101.37	3.1688	2.087
39.00	1445.2	1344.3	101.39	3.1410	2.089
39.50	1445.7	1344.8	101.42	3.1139	2.090
40.00	1446.3	1345.4	101.43	3.0875	2.092
40.50	1446.8	1345.9	101.46	3.0617	2.093
41.00	1447.3	1346.4	101.47	3.0366	2.095
41.50	1447.7	1346.8	101.50	3.0120	2.096
42.00	1448.3	1347.4	101.50	2.9881	2.098
42.50	1448.8	1347.9	101.52	2.9647	2.099
43.00	1449.3	1348.3	101.55	2.9419	2.100
43.50	1449.8	1348.9	101.57	2.9195	2.102
44.00	1450.3	1349.3	101.57	2.8977	2.103
44.50	1450.6	1349.6	101.59	2.8764	2.104
45.00	1451.0	1350.1	101.61	2.8556	2.105
45.50	1451.6	1350.7	101.63	2.8352	2.107
46.00	1452.0	1351.1	101.65	2.8152	2.108
46.50	1452.4	1351.4	101.67	2.7957	2.109
47.50	1453.3	1352.3	101.68	2.7579	2.112
48.00	1453.7	1352.7	101.71	2.7396	2.113
48.50	1454.0	1353.1	101.74	2.7216	2.114
49.00	1454.5	1353.5	101.76	2.7041	2.115
49.50	1454.8	1353.8	101.79	2.6869	2.116
50.00	1455.2	1354.3	101.80	2.6700	2.118
50.50	1455.6	1354.7	101.82	2.6535	2.119
51.00	1456.0	1355.0	101.85	2.6373	2.120
51.50	1456.2	1355.3	101.86	2.6214	2.121
52.00	1456.6	1355.7	101.88	2.6058	2.122
52.50	1457.0	1356.0	101.89	2.5905	2.123
53.00	1457.3	1356.4	101.92	2.5755	2.124
53.50	1457.6	1356.7	101.95	2.5607	2.125
54.00	1458.0	1357.0	101.96	2.5463	2.126
54.50	1458.3	1357.4	101.98	2.5321	2.127
55.00	1458.7	1357.7	102.01	2.5182	2.128
55.50	1459.0	1358.0	102.02	2.5045	2.129
56.00	1459.4	1358.5	102.04	2.4911	2.130
56.50	1459.7	1358.7	102.06	2.4779	2.131
57.00	1460.0	1359.0	102.09	2.4649	2.132
57.50	1460.3	1359.3	102.12	2.4522	2.132

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10555 Harris Oil & Gas Dellinger #1-36 DST #1

DATE: 11/20/97

TIME: 14:29:06

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
58.00	1460.5	1359.5	102.13	2.4397	2.133
58.50	1460.9	1360.0	102.15	2.4274	2.134
59.00	1461.1	1360.1	102.18	2.4153	2.135
59.50	1461.3	1360.4	102.20	2.4034	2.136
60.00	1461.7	1360.7	102.22	2.3917	2.137
60.50	1461.9	1361.0	102.24	2.3802	2.137
61.00	1462.3	1361.3	102.26	2.3689	2.138
61.50	1462.4	1361.5	102.28	2.3577	2.139
62.00	1462.8	1361.8	102.31	2.3468	2.140
62.50	1463.0	1362.1	102.33	2.3360	2.140
63.00	1463.4	1362.4	102.34	2.3254	2.141
63.50	1463.5	1362.6	102.37	2.3150	2.142
64.00	1463.8	1362.8	102.39	2.3047	2.143
64.50	1464.1	1363.2	102.41	2.2946	2.144
65.00	1464.4	1363.5	102.44	2.2846	2.145
65.50	1464.6	1363.7	102.46	2.2748	2.145
66.00	1465.0	1364.0	102.49	2.2652	2.146
66.50	1465.1	1364.2	102.50	2.2556	2.147
67.00	1465.3	1364.3	102.53	2.2463	2.147
67.50	1465.7	1364.8	102.55	2.2370	2.148
68.00	1466.0	1365.0	102.57	2.2279	2.149
68.50	1466.2	1365.3	102.59	2.2190	2.150
69.00	1466.4	1365.4	102.62	2.2101	2.150
69.50	1466.7	1365.8	102.64	2.2014	2.151
70.00	1466.9	1365.9	102.66	2.1929	2.152
70.50	1467.0	1366.1	102.69	2.1844	2.152
71.00	1467.3	1366.3	102.70	2.1761	2.153
71.50	1467.6	1366.7	102.72	2.1678	2.154
72.00	1467.8	1366.8	102.75	2.1597	2.154
72.50	1468.1	1367.1	102.78	2.1517	2.155
73.00	1468.2	1367.3	102.80	2.1438	2.156
73.50	1468.5	1367.5	102.82	2.1361	2.156
74.00	1468.6	1367.6	102.85	2.1284	2.157
74.50	1468.7	1367.8	102.88	2.1208	2.157
75.00	1469.0	1368.0	102.90	2.1133	2.158
75.50	1469.2	1368.3	102.90	2.1060	2.159
76.00	1469.4	1368.4	102.92	2.0987	2.159
76.50	1469.7	1368.7	102.95	2.0915	2.160
77.00	1469.8	1368.9	102.98	2.0844	2.160
77.50	1470.0	1369.0	103.00	2.0774	2.161
78.00	1470.3	1369.4	103.03	2.0705	2.162
78.50	1470.6	1369.6	103.05	2.0637	2.163
79.00	1470.7	1369.7	103.07	2.0570	2.163
79.50	1470.9	1370.0	103.10	2.0503	2.164
80.00	1471.1	1370.1	103.12	2.0438	2.164
80.50	1471.3	1370.4	103.14	2.0373	2.165
81.00	1471.5	1370.5	103.17	2.0309	2.165
81.50	1471.7	1370.8	103.20	2.0245	2.166
82.00	1471.8	1370.9	103.22	2.0183	2.166
82.50	1472.0	1371.0	103.23	2.0121	2.167
83.00	1472.2	1371.2	103.26	2.0060	2.167

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: 10555 Harris Oil & Gas Dellinger #1-36 DST #1
 DATE: 11/20/97 TIME: 14:29:06

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
83.50	1472.3	1371.4	103.29	2.0000	2.168
84.00	1472.6	1371.6	103.30	1.9940	2.169
84.50	1472.8	1371.8	103.32	1.9882	2.169
85.00	1472.8	1371.9	103.34	1.9824	2.169
85.50	1473.2	1372.2	103.37	1.9766	2.170
86.00	1473.3	1372.4	103.39	1.9709	2.171
86.50	1473.3	1372.4	103.42	1.9653	2.171
87.00	1473.6	1372.6	103.44	1.9598	2.171
87.50	1473.8	1372.9	103.47	1.9543	2.172
88.00	1474.1	1373.1	103.49	1.9489	2.173
88.50	1474.1	1373.1	103.51	1.9435	2.173
89.00	1474.4	1373.4	103.53	1.9382	2.174
89.50	1474.5	1373.6	103.56	1.9330	2.174
90.00	1474.6	1373.6	103.59	1.9278	2.174
90.50	1474.8	1373.8	103.61	1.9227	2.175
91.00	1475.0	1374.1	103.62	1.9176	2.176
91.50	1475.2	1374.2	103.64	1.9126	2.176
92.00	1475.4	1374.4	103.67	1.9076	2.177
92.50	1475.4	1374.5	103.69	1.9027	2.177
93.00	1475.6	1374.7	103.71	1.8978	2.177
93.50	1475.8	1374.8	103.74	1.8930	2.178
94.00	1476.0	1375.1	103.75	1.8883	2.179
94.50	1476.1	1375.2	103.76	1.8836	2.179
95.00	1476.2	1375.2	103.80	1.8789	2.179
95.50	1476.4	1375.5	103.81	1.8743	2.180
96.00	1476.5	1375.6	103.84	1.8698	2.180
96.50	1476.6	1375.7	103.86	1.8653	2.180
97.00	1477.0	1376.0	103.88	1.8608	2.181
97.50	1477.0	1376.1	103.90	1.8564	2.182
98.00	1477.1	1376.2	103.92	1.8520	2.182
98.50	1477.4	1376.4	103.95	1.8477	2.183
99.00	1477.6	1376.7	103.97	1.8434	2.183
99.50	1477.6	1376.7	104.00	1.8392	2.183
100.00	1477.8	1376.8	104.02	1.8350	2.184
100.50	1477.9	1376.9	104.05	1.8308	2.184
101.00	1478.1	1377.2	104.05	1.8267	2.185
101.50	1478.3	1377.3	104.08	1.8227	2.185
102.00	1478.4	1377.4	104.10	1.8186	2.186
102.50	1478.6	1377.6	104.13	1.8146	2.186
103.00	1478.6	1377.6	104.15	1.8107	2.186
103.50	1478.7	1377.7	104.17	1.8068	2.186
104.00	1478.8	1377.8	104.19	1.8029	2.187
104.50	1478.9	1377.9	104.22	1.7990	2.187
105.00	1479.1	1378.2	104.24	1.7952	2.188
105.50	1479.1	1378.2	104.26	1.7915	2.188
106.00	1479.4	1378.4	104.29	1.7877	2.189
106.50	1479.6	1378.6	104.33	1.7840	2.189
107.00	1479.7	1378.8	104.33	1.7804	2.190
107.50	1479.8	1378.9	104.34	1.7767	2.190
108.00	1479.9	1378.9	104.37	1.7731	2.190
108.50	1480.1	1379.2	104.39	1.7696	2.191

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10555 Harris Oil & Gas Dellinger #1-36 DST #1

DATE: 11/20/97 TIME: 14:29:06

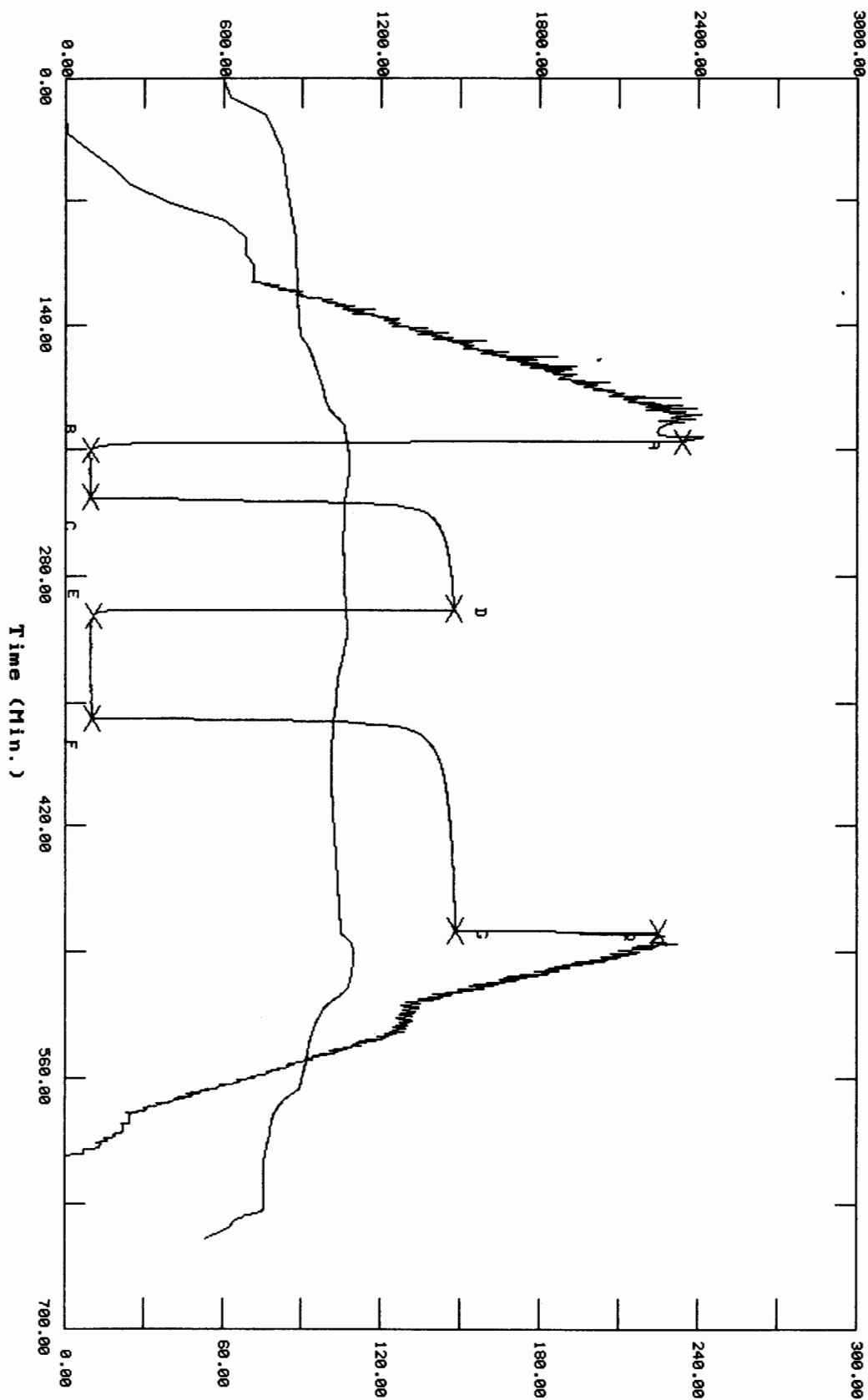
	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	109.00	1480.3	1379.4	104.42	1.7661	2.191
	109.50	1480.5	1379.5	104.44	1.7626	2.192
	110.00	1480.6	1379.6	104.46	1.7591	2.192
	110.50	1480.6	1379.6	104.48	1.7557	2.192
	111.00	1480.7	1379.8	104.50	1.7523	2.193
	111.50	1480.8	1379.9	104.52	1.7489	2.193
	112.00	1481.0	1380.0	104.54	1.7455	2.193
	112.50	1481.1	1380.2	104.57	1.7422	2.194
	113.00	1481.2	1380.3	104.59	1.7389	2.194
	113.50	1481.3	1380.4	104.60	1.7357	2.194
	114.00	1481.4	1380.4	104.62	1.7325	2.195
	114.50	1481.7	1380.7	104.65	1.7293	2.195
	115.00	1481.7	1380.7	104.67	1.7261	2.195
	115.50	1481.9	1380.9	104.70	1.7229	2.196
	116.00	1482.0	1381.0	104.72	1.7198	2.196
	116.50	1482.1	1381.1	104.74	1.7167	2.197
	117.00	1482.2	1381.2	104.75	1.7137	2.197
	117.50	1482.3	1381.4	104.78	1.7106	2.197
	118.00	1482.4	1381.5	104.80	1.7076	2.198
	118.50	1482.4	1381.5	104.82	1.7046	2.198
	119.00	1482.5	1381.5	104.85	1.7017	2.198
***** End Shut-in 2	119.50	1482.6	1381.6	104.86	1.6987	2.198
***** Final Hydro.	479.00	2251.0	0.0	104.90		

TEST HISTORY

10555 Harris Oil & Gas Dellinger #1-36 DST #1

Flag Points

t(Min.)	P(PSig)
A: 0.00	2338.98
B: 0.00	95.00
C: 26.50	94.75
D: 61.00	1475.86
E: 0.00	106.41
F: 57.00	100.96
G: 119.50	1482.58
H: 0.00	2251.02



Temperature (DEG F)

Pressure (PSig)

Time (Min.)



GAS VOLUME REPORT

WILLINGER 1-36
WELL NAME

WELL NAME AND NO.

DBT NO.

Remarks:

GTJ 4 min If caught sample 2nd flow

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10555

Well Name & No.	1-36 Dillinger	Test No.	1	Date	11-20-97
Company	Harris Oil & Gas	Zone Tested	Marmaton		
Address	1125 17th # 2290 Denver Co 80202	Elevation	2873 KB 2859 GL		
Co. Rep / Geo.	Don Sommer	Cont.	Allen AS	Est. Ft. of Pay	Por. %
Location: Sec.	36	Twp.	31s	Rge.	33w
				Co.	Seward
				State	Ks
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	
				Evaluation (Y, N)	

Interval Tested	4886-4946	Initial Str Wt./Lbs.	100,000	Unseated Str Wt./Lbs.	
Anchor Length	60	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	
Top Packer Depth	4881	Tool Weight	4900		
Bottom Packer Depth	4886	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	4946	Wt. Pipe Run		Drill Collar Run	515
Mud Wt.	9.2 LCM	Drill Pipe Size	4 1/2	Ft. Run	4349
Vis.	58				
WL	8.0				
Blow Description	strong blow GTS in 4 minutes see report				
	TST - blow back built to bottom of bucket in 12 minutes				

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP		
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
Rec.	Feet Of	%gas	%oil	%water	%mud
BHT	°F Gravity	°API D@	°F Corrected Gravity	°API	
RW	@	°F Chlorides	ppm Recovery	Chlorides	ppm System
(A) Initial Hydrostatic Mud	PSI	Recorder No.	11084	T-Started	1500
(B) First Initial Flow Pressure	PSI	(depth)	4889	T-Open	1855-1755
(C) First Final Flow Pressure	PSI	Recorder No.	2341	T-Pulled	
(D) Initial Shut-in Pressure	PSI	(depth)	4909	T-Out	
(E) Second Initial Flow Pressure	PSI	Recorder No.			
(F) Second Final Flow Pressure	PSI	(depth)			
(G) Final Shut-in Pressure	PSI	Initial Opening	30	Test	
(H) Final Hydrostatic Mud	PSI	Initial Shut-in	60	Jars	X
		Final Flow	60	Safety Joint	X
		Final Shut-in	120	Straddle	
			70 stands	Circ. Sub	
				Sampler	
				Extra Packer	
				Elect. Rec.	X
				Other	
				TOTAL PRICE \$	

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Approved By _____
Our Representative Paul Simpson