10-4s-23w

Computer Inventoried

ORIGINAL

15-137-20406

RCC

JAN 13

CONFIDENTIAL

WELL NAME: Henry 1-10
COMPANY: Mull Drilling Co. Inc
LOCATION: 10-04S-~~24~~23W 23D
Norton County, Kansas
DATE: 11/24/97

CONFIDENTIAL

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : Mull Drilling Co. Inc. DATE 11/22/97
WELL NAME: Henry #1-10 KB 2356.00 ft TICKET NO: 10556 DST #1
LOCATION : 10-04s-23w Norton Co. KS GR 2351.00 ft FORMATION: Toronto /A
INTERVAL : 3410.00 To 3465.00 ft TD 3465.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	11084	11084	Alpine		
SI 45	Range(Psi)	4300.0	4300.0	4995.0	0.0	0.0
SF 10	Clock(hrs)	12hr	12hr	Elec		
FS 45	Depth(ft)	3428.0	3428.0	3411.0	0.0	0.0

TIME DATA----------
PF Fr. 0520 to 0550 hr
IS Fr. 0550 to 0635 hr
SF Fr. 0635 to 0645 hr
FS Fr. 0645 to 0730 hr

	Field	1	2	3	4
A. Init Hydro	1800.0	1694.0	1672.0	0.0	0.0
B. First Flow	77.0	39.0	0.0	0.0	0.0
B1. Final Flow	77.0	39.0	3.0	0.0	0.0
C. In Shut-in	340.0	283.0	288.0	0.0	0.0
D. Init Flow	77.0	31.0	3.0	0.0	0.0
E. Final Flow	77.0	31.0	4.0	0.0	0.0
F. Fl Shut-in	241.0	188.0	199.0	0.0	0.0
G. Final Hydro	1789.0	1654.0	1619.0	0.0	0.0
Inside/Outside	O	O	I	B	

T STARTED 0300 hr
T ON BOTM 0518 hr
T OPEN 0520 hr
T PULLED 0730 hr
T OUT 0847 hr

RECOVERY
Tot Fluid 2.00 ft of 2.00 ft in DC and 0.00 ft in DP
2.00 ft of 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
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2900.00 lbs
Wt Set On Packer	25000.00 lbs
Wt Pulled Loose	60000.00 lbs
Initial Str Wt	56000.00 lbs
Unseated Str Wt	56000.00 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	175.00 ft
D.P. Length	3226.00 ft
H.W. I.D	2.70 in

BLOW DESCRIPTION
Initial Flow-
weak surface blow died in 20 minutes

Initial Shutin-

Final Flow-
no blow

Final Shutin-

SAMPLES:
SENT TO:

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

Mud Type	Chemical
Weight	9.50 lb/cf
Vis.	42.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	92.00 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.	Bill Stout
Contr.	Pickrell
Rig #	10
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: Mull Drilling Co. Inc. DATE: 11/22/97
WELL NAME: Henry #1-10 KB Elev: 2356.00 ft TICKET #10556 DST #1
WELL LOCATION: 10-04s-23w Norton Co. KS GR Elev: 2351.00 ft FORMATION: Toronto /A
INTERVAL Fr.: 3410.00 To 3465.00 T.D.: 3465.00 ft TEST TYPE: CONV

GAS RECOVERY MEASURED WITH Merla

**** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.50	0	36	418000.0
10	1.50	0	48	482000.0
15	1.50	0	50	493000.0
25	1.50	0	50	493000.0
30	1.50	0	50	493000.0

**** 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: Henry #1-10

LOCATION : 10-04s-23w Norton Co. KS

TICKET No. 10556 D.S.T. No. 1 DATE 11/22/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 23 tool

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 25 perf

TOTAL TOOL 48

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 78

D.C. ABOVE TOOLS.Stands3 Single Total 175

D.P. ABOVE TOOLS.Stands Single Total 3226

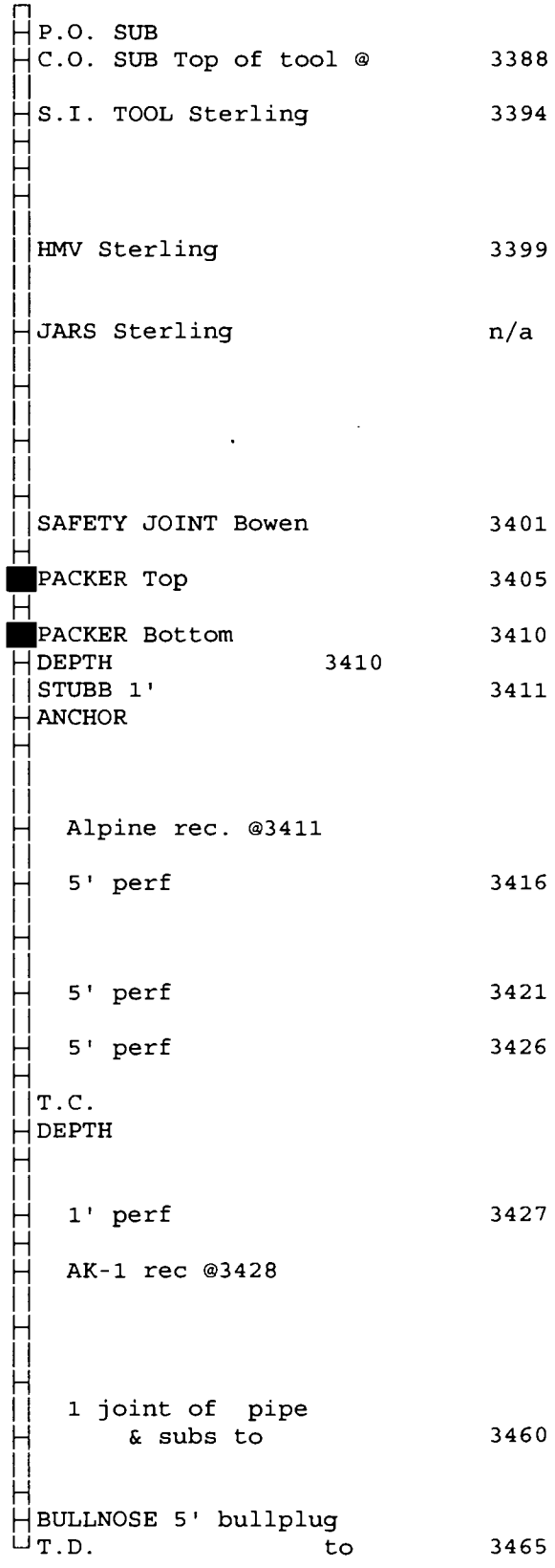
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3479

TOTAL DEPTH 3465

TOTAL DRILL PIPE ABOVE K.B. 14

REMARKS:

Sampler Data



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
TEST: 10556 Mull Drilling Co. Inc. Henry #1-10 DST#1
DATE: 11/22/97 TIME: 01:58:55

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	201.00	1672.1	0.0	90.44		
****** Start Flow 1	0.00	0.0	0.0	90.44		
	0.50	0.0	0.0	90.44		
	1.00	0.0	0.0	90.45		
	1.50	0.0	0.0	90.45		
	2.00	0.2	0.2	90.46		
	2.50	0.2	0.2	90.46		
	3.00	0.3	0.3	90.46		
	3.50	0.5	0.5	90.45		
	4.00	0.6	0.6	90.45		
	4.50	0.7	0.7	90.45		
	5.00	0.6	0.6	90.44		
	5.50	0.8	0.8	90.44		
	6.00	0.8	0.8	90.44		
	6.50	0.8	0.8	90.43		
	7.00	0.9	0.9	90.43		
	7.50	1.0	1.0	90.43		
	8.00	1.0	1.0	90.43		
	8.50	1.0	1.0	90.43		
	9.00	1.2	1.2	90.43		
	9.50	1.2	1.2	90.43		
	10.00	1.1	1.1	90.43		
	10.50	1.3	1.3	90.44		
	11.00	1.3	1.3	90.44		
	11.50	1.3	1.3	90.44		
	12.00	1.4	1.4	90.44		
	12.50	1.4	1.4	90.45		
	13.00	1.4	1.4	90.46		
	13.50	1.5	1.5	90.46		
	14.00	1.5	1.5	90.46		
	14.50	1.6	1.6	90.47		
	15.00	1.6	1.6	90.47		
	15.50	1.7	1.7	90.48		
	16.00	1.7	1.7	90.48		
	16.50	1.8	1.8	90.49		
	17.00	1.8	1.8	90.49		
	17.50	1.8	1.8	90.50		
	18.00	1.8	1.8	90.51		
	18.50	1.8	1.8	90.51		
	19.00	1.9	1.9	90.52		
	19.50	1.9	1.9	90.52		
	20.00	1.9	1.9	90.53		
	20.50	2.0	2.0	90.54		
	21.00	2.0	2.0	90.54		
	21.50	2.0	2.0	90.55		
	22.00	2.0	2.0	90.55		
	22.50	2.0	2.0	90.56		
	23.00	2.1	2.1	90.57		
	23.50	2.1	2.1	90.57		
	24.00	2.1	2.1	90.58		
	24.50	2.1	2.1	90.59		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10556 Mull Drilling Co. Inc. Henry #1-10 DST#1

DATE: 11/22/97 TIME: 01:58:55

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	2.1	2.1	90.59		
	25.50	2.2	2.2	90.60		
	26.00	2.2	2.2	90.61		
	26.50	2.3	2.3	90.62		
	27.00	2.3	2.3	90.62		
	27.50	2.3	2.3	90.63		
	28.00	2.3	2.3	90.64		
	28.50	2.3	2.3	90.64		
	29.00	2.3	2.3	90.65		
	29.50	2.3	2.3	90.66		
	30.00	2.5	2.5	90.67		
	30.50	2.5	2.5	90.68		
	31.00	2.5	2.5	90.68		
	31.50	2.4	2.4	90.70		
	32.00	2.3	2.3	90.70		
****** End Flow 1	32.50	3.1	3.1	90.70		
****** Start Shutin 1	0.00	3.1	0.0	90.70	0.0000	0.000
	0.50	4.3	1.2	90.71	66.0000	0.000
	1.00	5.2	2.1	90.72	33.5000	0.000
	1.50	6.5	3.4	90.72	22.6667	0.000
	2.00	7.6	4.5	90.74	17.2500	0.000
	2.50	8.9	5.8	90.74	14.0000	0.000
	3.00	10.2	7.1	90.75	11.8333	0.000
	3.50	11.7	8.6	90.76	10.2857	0.000
	4.00	13.0	9.9	90.77	9.1250	0.000
	4.50	14.4	11.3	90.77	8.2222	0.000
	5.00	15.9	12.8	90.78	7.5000	0.000
	5.50	17.5	14.4	90.79	6.9091	0.000
	6.00	19.2	16.1	90.80	6.4167	0.000
	6.50	20.9	17.8	90.81	6.0000	0.000
	7.00	22.7	19.6	90.82	5.6429	0.001
	7.50	24.5	21.4	90.82	5.3333	0.001
	8.00	26.3	23.2	90.84	5.0625	0.001
	8.50	28.5	25.4	90.84	4.8235	0.001
	9.00	30.5	27.4	90.85	4.6111	0.001
	9.50	32.7	29.6	90.86	4.4211	0.001
	10.00	34.9	31.8	90.87	4.2500	0.001
	10.50	37.2	34.1	90.87	4.0952	0.001
	11.00	39.5	36.4	90.89	3.9545	0.002
	11.50	42.0	38.9	90.89	3.8261	0.002
	12.00	44.6	41.5	90.91	3.7083	0.002
	12.50	47.2	44.1	90.91	3.6000	0.002
	13.00	50.0	46.9	90.92	3.5000	0.003
	13.50	52.7	49.6	90.93	3.4074	0.003
	14.00	55.6	52.5	90.93	3.3214	0.003
	14.50	58.6	55.5	90.94	3.2414	0.003
	15.00	61.6	58.5	90.95	3.1667	0.004
	15.50	64.6	61.5	90.96	3.0968	0.004
	16.00	67.9	64.8	90.98	3.0312	0.005
	16.50	71.1	68.0	90.98	2.9697	0.005
	17.00	74.4	71.3	90.99	2.9118	0.006

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 11/22/97 TIME: 01:58:55

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
17.50	77.8	74.7	91.00	2.8571	0.006
18.00	81.1	78.1	91.01	2.8056	0.007
18.50	84.8	81.7	91.02	2.7568	0.007
19.00	88.3	85.2	91.03	2.7105	0.008
19.50	92.1	89.0	91.04	2.6667	0.008
20.00	95.7	92.6	91.04	2.6250	0.009
20.50	99.4	96.3	91.06	2.5854	0.01
21.00	103.2	100.1	91.06	2.5476	0.011
21.50	107.1	104.0	91.07	2.5116	0.011
22.00	110.8	107.7	91.08	2.4773	0.012
22.50	114.7	111.6	91.09	2.4444	0.013
23.00	118.7	115.6	91.10	2.4130	0.014
23.50	122.7	119.6	91.11	2.3830	0.015
24.00	126.6	123.5	91.12	2.3542	0.016
24.50	130.8	127.7	91.13	2.3265	0.017
25.00	134.9	131.8	91.14	2.3000	0.018
25.50	139.1	136.0	91.15	2.2745	0.019
26.00	143.1	140.0	91.15	2.2500	0.020
26.50	147.3	144.2	91.16	2.2264	0.022
27.00	151.6	148.5	91.18	2.2037	0.023
27.50	155.7	152.6	91.18	2.1818	0.024
28.00	159.9	156.8	91.19	2.1607	0.026
28.50	164.2	161.1	91.20	2.1404	0.027
29.00	168.4	165.3	91.21	2.1207	0.028
29.50	172.6	169.5	91.22	2.1017	0.030
30.00	176.8	173.7	91.23	2.0833	0.031
30.50	181.0	177.9	91.24	2.0656	0.033
31.00	185.3	182.2	91.25	2.0484	0.034
31.50	189.5	186.4	91.25	2.0317	0.036
32.00	192.9	189.8	91.27	2.0156	0.037
32.50	197.4	194.3	91.27	2.0000	0.039
33.00	201.6	198.5	91.29	1.9848	0.041
33.50	205.9	202.8	91.29	1.9701	0.042
34.00	210.1	207.0	91.31	1.9559	0.044
34.50	214.3	211.2	91.32	1.9420	0.046
35.00	218.5	215.4	91.32	1.9286	0.048
35.50	222.8	219.7	91.33	1.9155	0.050
36.00	226.9	223.8	91.34	1.9028	0.051
36.50	231.0	227.9	91.35	1.8904	0.053
37.00	235.4	232.3	91.35	1.8784	0.055
37.50	239.4	236.3	91.37	1.8667	0.057
38.00	243.5	240.4	91.37	1.8553	0.059
38.50	247.6	244.5	91.39	1.8442	0.061
39.00	251.7	248.6	91.40	1.8333	0.063
39.50	255.7	252.6	91.41	1.8228	0.065
40.00	259.7	256.7	91.41	1.8125	0.067
40.50	263.7	260.6	91.43	1.8025	0.070
41.00	267.6	264.5	91.43	1.7927	0.072
41.50	271.7	268.7	91.44	1.7831	0.074
42.00	275.6	272.5	91.46	1.7738	0.076
42.50	279.6	276.5	91.47	1.7647	0.078

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10556 Mull Drilling Co. Inc. Henry #1-10 DST#1

DATE: 11/22/97 TIME: 01:58:55

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	43.00	283.3	280.2	91.47	1.7558	0.080
	43.50	286.6	283.5	91.47	1.7471	0.082
****** End Shut-in 1	44.00	288.5	285.4	91.49	1.7386	0.083
****** Start Flow 2	0.00	3.3	0.0	91.50		
	0.50	3.3	0.0	91.49		
	1.00	3.4	0.1	91.49		
	1.50	3.4	0.2	91.49		
	2.00	3.4	0.2	91.50		
	2.50	3.6	0.3	91.50		
	3.00	3.6	0.3	91.51		
	3.50	3.6	0.3	91.51		
	4.00	3.7	0.4	91.52		
	4.50	3.7	0.4	91.51		
	5.00	3.7	0.4	91.52		
	5.50	3.7	0.4	91.52		
	6.00	3.8	0.5	91.51		
	6.50	3.8	0.5	91.51		
	7.00	3.8	0.5	91.51		
	7.50	3.8	0.5	91.50		
****** End Flow 2	8.00	3.8	0.5	91.50		
****** Start Shutin 2	0.00	3.8	0.0	91.50	0.0000	0.000
	0.50	3.2	-0.6	91.50	82.0000	0.000
	1.00	4.3	0.5	91.50	41.5000	0.000
	1.50	5.4	1.7	91.51	28.0000	0.000
	2.00	6.5	2.7	91.51	21.2500	0.000
	2.50	7.5	3.8	91.51	17.2000	0.000
	3.00	8.7	4.9	91.51	14.5000	0.000
	3.50	9.8	6.0	91.52	12.5714	0.000
	4.00	10.8	7.0	91.52	11.1250	0.000
	4.50	12.1	8.3	91.52	10.0000	0.000
	5.00	13.2	9.4	91.54	9.1000	0.000
	5.50	14.3	10.5	91.54	8.3636	0.000
	6.00	15.6	11.8	91.55	7.7500	0.000
	6.50	16.7	12.9	91.55	7.2308	0.000
	7.00	18.0	14.3	91.56	6.7857	0.000
	7.50	19.2	15.4	91.57	6.4000	0.000
	8.00	20.6	16.8	91.58	6.0625	0.000
	8.50	21.7	18.0	91.59	5.7647	0.000
	9.00	23.2	19.5	91.60	5.5000	0.001
	9.50	24.6	20.8	91.60	5.2632	0.001
	10.00	25.9	22.1	91.62	5.0500	0.001
	10.50	27.4	23.7	91.63	4.8571	0.001
	11.00	28.8	25.0	91.63	4.6818	0.001
	11.50	30.4	26.6	91.64	4.5217	0.001
	12.00	31.8	28.0	91.65	4.3750	0.001
	12.50	33.4	29.6	91.66	4.2400	0.001
	13.00	34.9	31.1	91.67	4.1154	0.001
	13.50	36.5	32.7	91.68	4.0000	0.001
	14.00	38.2	34.4	91.69	3.8929	0.001
	14.50	39.9	36.1	91.70	3.7931	0.002
	15.00	41.4	37.6	91.70	3.7000	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10556 Mull Drilling Co. Inc. Henry #1-10 DST#1

DATE: 11/22/97 TIME: 01:58:55

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
15.50	43.1	39.4	91.72	3.6129	0.002
16.00	44.9	41.1	91.72	3.5312	0.002
16.50	46.7	42.9	91.73	3.4545	0.002
17.00	48.2	44.5	91.74	3.3824	0.002
17.50	50.0	46.2	91.76	3.3143	0.003
18.00	52.0	48.3	91.76	3.2500	0.003
18.50	53.9	50.1	91.77	3.1892	0.003
19.00	55.7	51.9	91.79	3.1316	0.003
19.50	57.8	54.0	91.79	3.0769	0.003
20.00	59.7	56.0	91.80	3.0250	0.004
20.50	61.8	58.1	91.81	2.9756	0.004
21.00	64.0	60.3	91.82	2.9286	0.004
21.50	66.0	62.3	91.83	2.8837	0.004
22.00	68.1	64.4	91.84	2.8409	0.005
22.50	70.3	66.5	91.85	2.8000	0.005
23.00	72.4	68.6	91.85	2.7609	0.005
23.50	74.8	71.0	91.86	2.7234	0.006
24.00	77.0	73.3	91.87	2.6875	0.006
24.50	79.3	75.5	91.88	2.6531	0.006
25.00	81.5	77.7	91.89	2.6200	0.007
25.50	83.8	80.1	91.90	2.5882	0.007
26.00	86.3	82.5	91.91	2.5577	0.007
26.50	88.7	84.9	91.92	2.5283	0.008
27.00	91.1	87.4	91.93	2.5000	0.008
27.50	93.6	89.8	91.93	2.4727	0.009
28.00	96.1	92.3	91.95	2.4464	0.009
28.50	98.6	94.8	91.96	2.4211	0.01
29.00	101.2	97.4	91.96	2.3966	0.010
29.50	103.7	100	91.97	2.3729	0.011
30.00	106.2	102.5	91.99	2.3500	0.011
30.50	108.8	105.0	91.99	2.3279	0.012
31.00	111.4	107.7	92.00	2.3065	0.012
31.50	114.0	110.2	92.00	2.2857	0.013
32.00	116.7	112.9	92.01	2.2656	0.014
32.50	119.4	115.6	92.02	2.2462	0.014
33.00	122.0	118.2	92.03	2.2273	0.015
33.50	124.8	121.0	92.04	2.2090	0.016
34.00	127.4	123.6	92.05	2.1912	0.016
34.50	130.2	126.5	92.05	2.1739	0.017
35.00	132.8	129.1	92.06	2.1571	0.018
35.50	135.6	131.8	92.07	2.1408	0.018
36.00	138.4	134.6	92.08	2.1250	0.019
36.50	141.2	137.4	92.09	2.1096	0.020
37.00	144.0	140.2	92.10	2.0946	0.021
37.50	146.8	143.0	92.10	2.0800	0.022
38.00	149.6	145.9	92.11	2.0658	0.022
38.50	152.5	148.7	92.12	2.0519	0.023
39.00	155.3	151.5	92.13	2.0385	0.024
39.50	158.2	154.4	92.13	2.0253	0.025
40.00	161.0	157.2	92.14	2.0125	0.026
40.50	163.8	160.0	92.15	2.0000	0.027

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10556 Mull Drilling Co. Inc. Henry #1-10 DST#1

DATE: 11/22/97 TIME: 01:58:55

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	41.00	166.8	163.0	92.16	1.9878	0.028
	41.50	169.7	165.9	92.17	1.9759	0.029
	42.00	172.7	168.9	92.17	1.9643	0.030
	42.50	175.5	171.7	92.18	1.9529	0.031
	43.00	178.4	174.6	92.19	1.9419	0.032
	43.50	181.3	177.5	92.20	1.9310	0.033
	44.00	184.3	180.5	92.21	1.9205	0.034
	44.50	187.1	183.3	92.22	1.9101	0.035
	45.00	190.2	186.4	92.22	1.9000	0.036
	45.50	193.1	189.3	92.22	1.8901	0.037
	46.00	196.0	192.3	92.23	1.8804	0.038
****** End Shut-in 2	46.50	199.0	195.2	92.24	1.8710	0.040
****** Final Hydro.	334.00	1619.5	0.0	92.28		

TEST HISTORY

10556 Mull Drilling Co. Inc. Henry #1-10 DST#1

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1672.09
B:	0.00	0.00
C:	32.50	3.10
D:	44.00	288.54
E:	0.00	3.27
F:	8.00	3.78
G:	46.50	198.98
Q:	0.00	1619.55

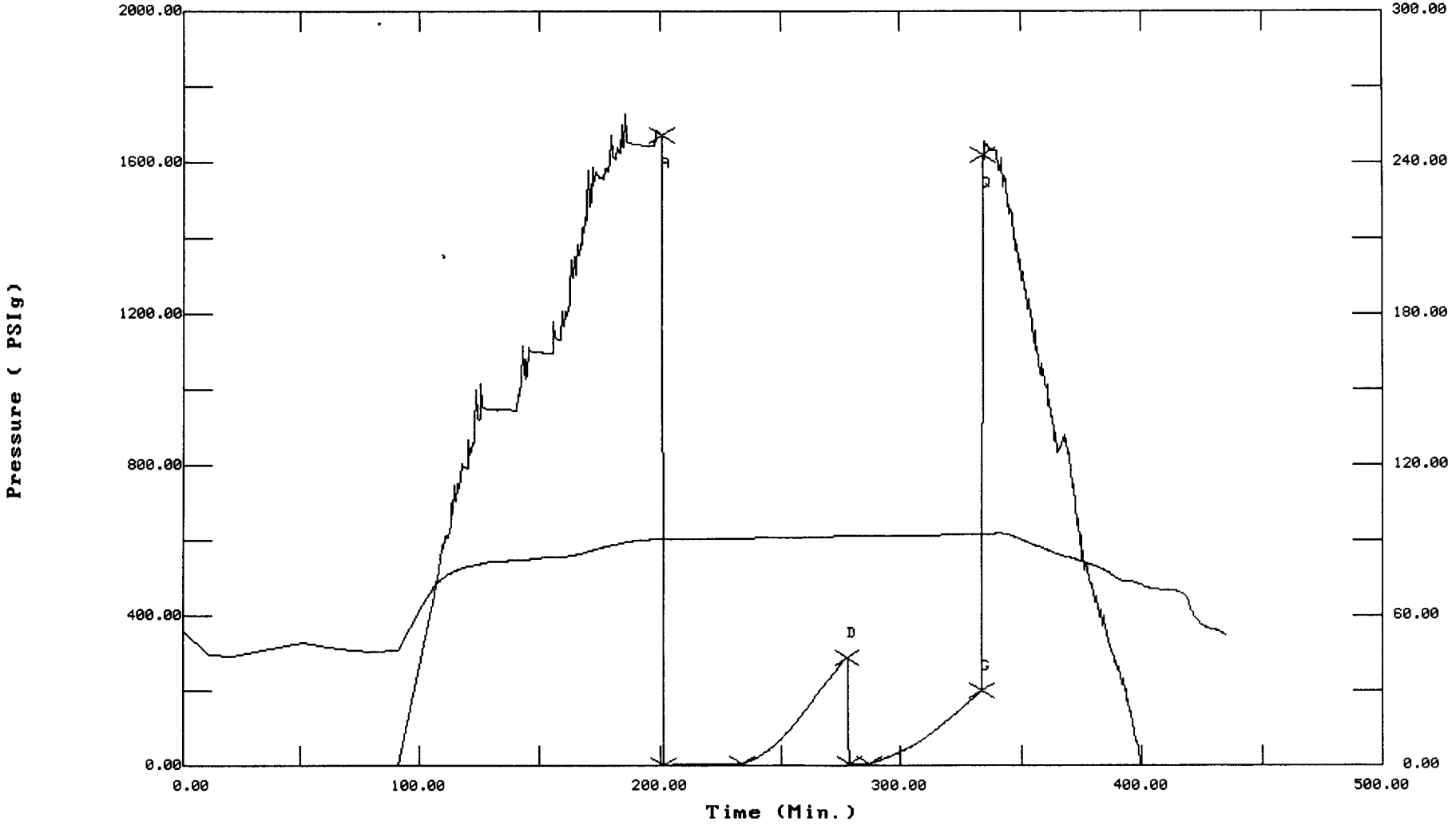
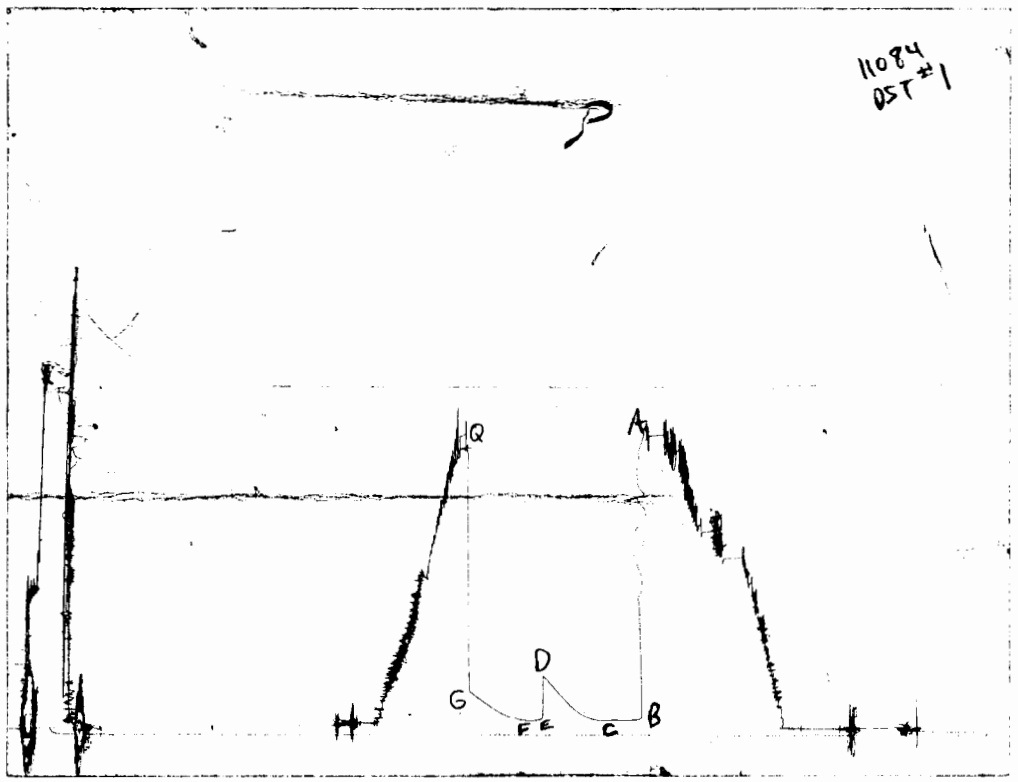


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 10556

Well Name & No. Henry #1-10 Test No. 1 Date 11-22-97

Company Mull Drilling Co, Inc Zone Tested Toronto - A

Address PO Box 2758 Wichita Elevation 2356 KB 2351 GL

Co. Rep / Geo. Bill Stout Cont. Rickrell #10 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 10 Twp. 4s Rge. 23w Co. Norton State Ks

No. of Copies 5 Distribution Sheet (Y, N) ____ Turnkey (Y, N) ____ Evaluation (Y, N) ____

Interval Tested 3410 - 3465 Initial Str Wt./Lbs. 56,000 Unseated Str Wt./Lbs. 56,000

Anchor Length 55 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000

Top Packer Depth 3405 Tool Weight 2900

Bottom Packer Depth 3410 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 3465 Wt. Pipe Run ____ Drill Collar Run 175

Mud Wt. 9.5 LCM ____ Vis. 42 WL ____ Drill Pipe Size 4½ XH Ft. Run 3226

Blow Description Weak surface blow died in 20 minutes

88 - no blow

Recovery — Total Feet 2 GIP ____ Ft. in DC 2 Ft. in DP ____

Rec. 2	Feet Of Mud	%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	1800	1672	PSI	Recorder No.	2341	T-Started	0300
(B) First Initial Flow Pressure	77	0	PSI	(depth)	3411	T-Open	0520
(C) First Final Flow Pressure	77	3	PSI	Recorder No.	11084	T-Pulled	0730
(D) Initial Shut-in Pressure	340	288	PSI	(depth)	3428	T-Out	0845
(E) Second Initial Flow Pressure	77	3	PSI	Recorder No.	____		
(F) Second Final Flow Pressure	77	4	PSI	(depth)	____		
(G) Final Shut-in Pressure	241	199	PSI	Initial Opening	30	Test	____
(H) Final Hydrostatic Mud	1789	1620	PSI	Initial Shut-in	45	Jars	____
	Ark	Alpine		Final Flow	10	Safety Joint	X
				Final Shut-in	45	Straddle	____
				51.5 steady		Circ. Sub	____
				____		Sampler	____
						Extra Packer	____
						Elect. Rec.	X
						Other	____
						TOTAL PRICE $	____

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 Bill Stout

Our Representative Paul Simpson

TRILOBITE TESTING L.L.C.

OPERATOR : Mull Drilling Co. Inc. DATE 11/23/97
WELL NAME: Henry #1-10 KB 2356.00 ft TICKET NO: 10557 DST #2
LOCATION : 10-04s-23w Norton Co. KS GR 2351.00 ft FORMATION: Reagan Sand
INTERVAL : 3635.00 To 3690.00 ft TD 3690.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 15	Rec.	11084	11084	Alpine		
SI 45	Range(Psi)	4300.0	4300.0	4995.0	0.0	0.0
SF 0	Clock(hrs)	12hr	12hr	Elec		
FS 45	Depth(ft)	3670.0	3670.0	3637.0	0.0	0.0

TIME DATA----------
PF Fr. 0328 to 0343 hr
IS Fr. 0343 to 0428 hr
SF Fr. 0428 to 0443 hr
FS Fr. 0443 to 0543 hr

	Field	1	2	3	4
A. Init Hydro	1875.0	1847.0	1802.0	0.0	0.0
B. First Flow	241.0	268.0	274.0	0.0	0.0
B1. Final Flow	504.0	502.0	504.0	0.0	0.0
C. In Shut-in	623.0	618.0	611.0	0.0	0.0
D. Init Flow	580.0	572.0	535.0	0.0	0.0
E. Final Flow	623.0	610.0	603.0	0.0	0.0
F. Fl Shut-in	623.0	628.0	621.0	0.0	0.0
G. Final Hydro	1832.0	1772.0	1777.0	0.0	0.0
Inside/Outside	O	O	I	B	

T STARTED 0155 hr
T ON BOTM 0326 hr
T OPEN 0328 hr
T PULLED 0543 hr
T OUT 0805 hr

RECOVERY
Tot Fluid 1230.00 ft of 175.00 ft in DC and 1055.00 ft in DP
180.00 ft of watery mud
0.00 ft of
1050.00 ft of gassy water
0.00 ft of
0.00 ft of reversed into pits
0.00 ft of
0.00 ft of
0.00 ft of Rw .18 @60
SALINITY 50000.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2900.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	72000.00 lbs
Initial Str Wt	58000.00 lbs
Unseated Str Wt	68000.00 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	175.00 ft
D.P. Length	3445.00 ft
H.W. I.D	2.70 in

BLOW DESCRIPTION
Initial Flow-
strong blow building to bottom of bucket in minute

Initial Shutin-
blow built to bottom of bucket in 25 minutes
Final Flow-
strong blow building to bottom of bucket in 3 minutes

Final Shutin-
weak 1/2" blow

SAMPLES:
SENT TO:

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

Mud Type	Chemical
Weight	9.40 lb/cf
Vis.	42.00 S/L
W.L.	10.60 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	102.00 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.	Bill Stout
Contr.	Pickrell
Rig #	10
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: Mull Drilling Co. Inc. DATE: 11/23/97
WELL NAME: Henry #1-10 KB Elev: 2356.00 ft TICKET #10557 DST #2
WELL LOCATION: 10-04s-23w Norton Co. KS GR Elev: 2351.00 ft FORMATION: Reagan Sand
INTERVAL Fr.: 3635.00 To 3690.00 T.D.: 3690.00 ft TEST TYPE: CONV

GAS RECOVERY MEASURED WITH Merla

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.50	0	36	418000.0
10	1.50	0	48	482000.0
15	1.50	0	50	493000.0
25	1.50	0	50	493000.0
30	1.50	0	50	493000.0

***** 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: Henry #1-10

LOCATION : 10-04s-23w Norton Co. KS

TICKET No. 10557 D.S.T. No. 2 DATE 11/23/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 23 tool

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 24 perf

TOTAL TOOL 47

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 78

D.C. ABOVE TOOLS.Stands3 Single Total 175

D.P. ABOVE TOOLS.Stands Single Total 3445

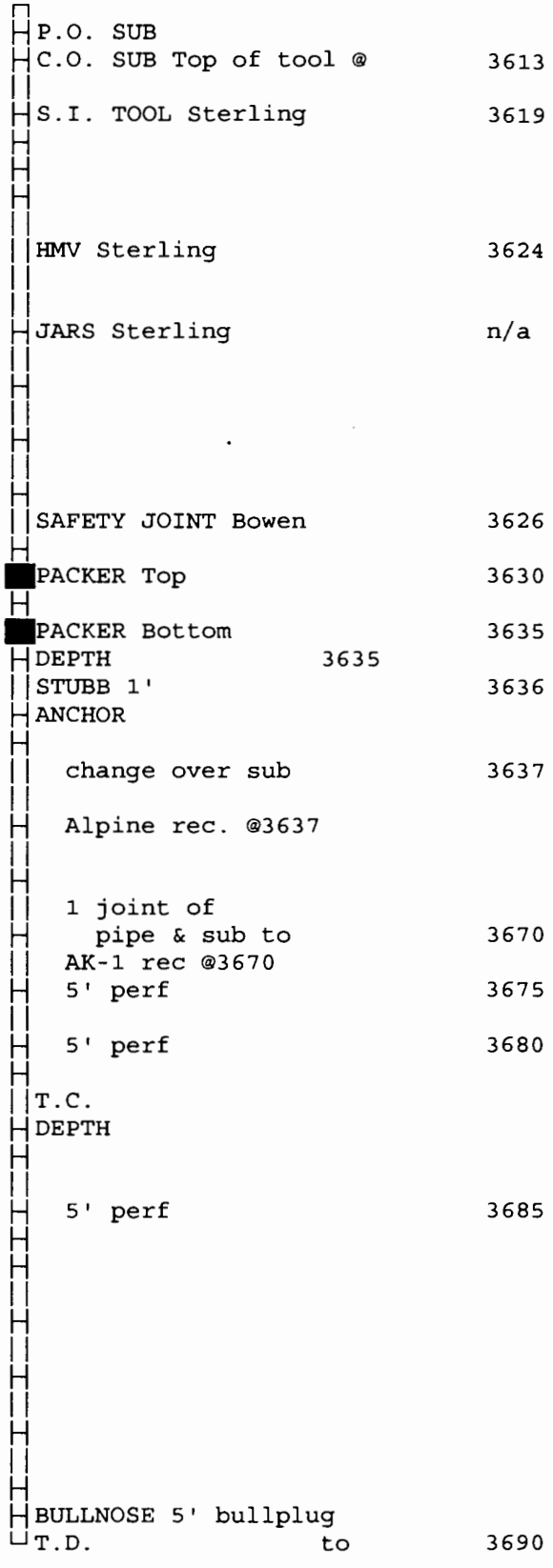
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3698

TOTAL DEPTH 3690

TOTAL DRILL PIPE ABOVE K.B. 9

REMARKS:

Sampler Data



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10557 Mull Drilling Co. Inc. Henry #1-10 DST#2

DATE: 11/23/97 TIME: 00:46:26

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	162.50	1802.3	0.0	91.27		
****** Start Flow 1	0.00	273.9	0.0	91.27		
	0.50	315.6	41.7	91.36		
	1.00	316.0	42.0	91.61		
	1.50	323.9	49.9	92.12		
	2.00	325.7	51.8	92.84		
	2.50	332.6	58.7	93.67		
	3.00	335.8	61.9	94.52		
	3.50	343.0	69.1	95.33		
	4.00	353.2	79.2	96.07		
	4.50	363.7	89.7	96.73		
	5.00	374.9	101.0	97.32		
	5.50	381.2	107.3	97.82		
	6.00	401.2	127.2	98.27		
	6.50	410.6	136.6	98.66		
	7.00	415.9	141.9	99.00		
	7.50	421.6	147.7	99.30		
	8.00	427.8	153.8	99.57		
	8.50	451.1	177.2	99.80		
	9.00	457.5	183.6	100.01		
	9.50	463.4	189.5	100.20		
	10.00	468.1	194.1	100.37		
	10.50	472.3	198.3	100.50		
	11.00	476.2	202.3	100.64		
	11.50	479.8	205.9	100.77		
	12.00	483.8	209.9	100.88		
	12.50	487.5	213.6	100.98		
	13.00	491.3	217.4	101.07		
	13.50	494.5	220.6	101.17		
	14.00	497.3	223.4	101.29		
****** End Flow 1	14.50	504.0	230.0	101.31		
****** Start Shutin 1	0.00	504.0	0.0	101.31	0.0000	0.254
	0.50	580.7	76.7	101.32	30.0000	0.337
	1.00	585.7	81.7	101.41	15.5000	0.343
	1.50	588.9	84.9	101.48	10.6667	0.347
	2.00	590.8	86.9	101.53	8.2500	0.349
	2.50	592.6	88.6	101.59	6.8000	0.351
	3.00	593.8	89.8	101.63	5.8333	0.353
	3.50	594.9	90.9	101.66	5.1429	0.354
	4.00	595.8	91.8	101.69	4.6250	0.355
	4.50	596.6	92.6	101.72	4.2222	0.356
	5.00	597.3	93.3	101.74	3.9000	0.357
	5.50	598.0	94.0	101.76	3.6364	0.358
	6.00	598.5	94.5	101.78	3.4167	0.358
	6.50	598.9	94.9	101.77	3.2308	0.359
	7.00	599.3	95.3	101.78	3.0714	0.359
	7.50	599.8	95.8	101.79	2.9333	0.360
	8.00	600.2	96.2	101.77	2.8125	0.360
	8.50	600.6	96.6	101.76	2.7059	0.361
	9.00	601.0	97.0	101.75	2.6111	0.361
	9.50	601.3	97.3	101.74	2.5263	0.362

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10557 Mull Drilling Co. Inc. Henry #1-10 DST#2

DATE: 11/23/97 TIME: 00:46:26

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
10.00	601.6	97.6	101.72	2.4500	0.362
10.50	601.9	97.9	101.70	2.3810	0.362
11.00	602.2	98.2	101.68	2.3182	0.363
11.50	602.5	98.5	101.65	2.2609	0.363
12.00	602.7	98.7	101.64	2.2083	0.363
12.50	603.1	99.1	101.61	2.1600	0.364
13.00	603.3	99.3	101.59	2.1154	0.364
13.50	603.4	99.5	101.58	2.0741	0.364
14.00	603.8	99.8	101.55	2.0357	0.365
14.50	603.9	100	101.53	2.0000	0.365
15.00	604.1	100.1	101.50	1.9667	0.365
15.50	604.4	100.4	101.48	1.9355	0.365
16.00	604.5	100.5	101.43	1.9062	0.365
16.50	604.9	100.9	101.39	1.8788	0.366
17.00	604.9	101.0	101.35	1.8529	0.366
17.50	605.2	101.2	101.32	1.8286	0.366
18.00	605.4	101.5	101.32	1.8056	0.367
18.50	605.7	101.7	101.31	1.7838	0.367
19.00	605.8	101.8	101.31	1.7632	0.367
19.50	606.1	102.1	101.31	1.7436	0.367
20.00	606.2	102.2	101.31	1.7250	0.367
20.50	606.3	102.3	101.30	1.7073	0.368
21.00	606.5	102.6	101.30	1.6905	0.368
21.50	606.6	102.6	101.28	1.6744	0.368
22.00	606.8	102.8	101.29	1.6591	0.368
22.50	607.0	103.0	101.24	1.6444	0.368
23.00	607.0	103.1	101.20	1.6304	0.368
23.50	607.2	103.2	101.19	1.6170	0.369
24.00	607.4	103.4	101.16	1.6042	0.369
24.50	607.5	103.5	101.16	1.5918	0.369
25.00	607.5	103.6	101.15	1.5800	0.369
25.50	607.8	103.8	101.14	1.5686	0.369
26.00	607.9	103.9	101.13	1.5577	0.370
26.50	608.0	104.1	101.11	1.5472	0.370
27.00	608.1	104.2	101.11	1.5370	0.370
27.50	608.3	104.3	101.10	1.5273	0.370
28.00	608.3	104.3	101.09	1.5179	0.370
28.50	608.6	104.6	101.08	1.5088	0.370
29.00	608.6	104.6	101.07	1.5000	0.370
29.50	608.8	104.8	101.06	1.4915	0.371
30.00	608.9	104.9	101.06	1.4833	0.371
30.50	608.9	104.9	101.06	1.4754	0.371
31.00	609.1	105.1	101.04	1.4677	0.371
31.50	609.2	105.2	101.03	1.4603	0.371
32.00	609.2	105.2	101.03	1.4531	0.371
32.50	609.4	105.5	101.02	1.4462	0.371
33.00	609.5	105.6	101.02	1.4394	0.372
33.50	609.5	105.6	101.01	1.4328	0.372
34.00	609.6	105.7	101.01	1.4265	0.372
34.50	609.7	105.7	101.00	1.4203	0.372
35.00	609.9	105.9	101.01	1.4143	0.372

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
TEST: 10557 Mull Drilling Co. Inc. Henry #1-10 DST#2
DATE: 11/23/97 TIME: 00:46:26

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	35.50	609.9	105.9	101.01	1.4085	0.372
	36.00	610.1	106.2	101.01	1.4028	0.372
	36.50	610.1	106.2	101.02	1.3973	0.372
	37.00	610.3	106.3	101.02	1.3919	0.372
	37.50	610.3	106.3	101.02	1.3867	0.372
	38.00	610.5	106.6	101.02	1.3816	0.373
	38.50	610.5	106.6	101.02	1.3766	0.373
	39.00	610.6	106.6	101.01	1.3718	0.373
	39.50	610.7	106.7	101.00	1.3671	0.373
	40.00	610.7	106.7	101.00	1.3625	0.373
	40.50	610.8	106.8	100.98	1.3580	0.373
	41.00	610.9	106.9	100.97	1.3537	0.373
	41.50	610.9	106.9	100.96	1.3494	0.373
	42.00	611.0	107.0	100.95	1.3452	0.373
	42.50	611.0	107.0	100.95	1.3412	0.373
	43.00	611.1	107.1	100.94	1.3372	0.373
	43.50	611.1	107.1	100.94	1.3333	0.373
	44.00	611.2	107.2	100.93	1.3295	0.374
****** End Shut-in 1	44.50	611.2	107.2	100.94	1.3258	0.374
****** Start Flow 2	0.00	535.4	0.0	100.93		
	0.50	539.7	4.4	100.95		
	1.00	544.2	8.8	100.99		
	1.50	548.1	12.8	101.06		
	2.00	551.9	16.5	101.16		
	2.50	555.8	20.4	101.30		
	3.00	559.2	23.8	101.32		
	3.50	562.5	27.1	101.38		
	4.00	565.6	30.2	101.49		
	4.50	568.5	33.2	101.56		
	5.00	571.2	35.8	101.63		
	5.50	573.8	38.4	101.69		
	6.00	576.3	41.0	101.75		
	6.50	578.8	43.5	101.79		
	7.00	581.1	45.7	101.84		
	7.50	583.1	47.8	101.87		
	8.00	585.1	49.8	101.90		
	8.50	587.0	51.6	101.93		
	9.00	588.7	53.4	101.96		
	9.50	590.3	55.0	101.97		
	10.00	592.0	56.7	101.99		
	10.50	593.7	58.3	102.00		
	11.00	595.0	59.7	102.02		
	11.50	596.3	60.9	102.03		
	12.00	597.6	62.2	102.04		
	12.50	598.7	63.4	102.05		
	13.00	599.7	64.4	102.06		
	13.50	600.8	65.5	102.06		
	14.00	601.8	66.5	102.05		
	14.50	602.7	67.3	102.07		
****** End Flow 2	15.00	603.3	67.9	102.07		
****** Start Shutin 2	0.00	603.3	0.0	102.07	0.0000	0.364

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10557 Mull Drilling Co. Inc. Henry #1-10 DST#2

DATE: 11/23/97 TIME: 00:46:26

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
0.50	614.8	11.5	102.07	60.0000	0.378
1.00	615.8	12.5	102.08	30.5000	0.379
1.50	616.4	13.1	102.08	20.6667	0.380
2.00	616.9	13.6	102.08	15.7500	0.381
2.50	617.1	13.8	102.08	12.8000	0.381
3.00	617.4	14.2	102.06	10.8333	0.381
3.50	617.6	14.4	102.06	9.4286	0.381
4.00	617.8	14.5	102.05	8.3750	0.382
4.50	618.0	14.8	102.05	7.5556	0.382
5.00	618.1	14.9	102.04	6.9000	0.382
5.50	618.3	15.0	102.02	6.3636	0.382
6.00	618.5	15.2	102.01	5.9167	0.382
6.50	618.5	15.3	101.99	5.5385	0.383
7.00	618.7	15.4	101.96	5.2143	0.383
7.50	618.8	15.5	101.95	4.9333	0.383
8.00	618.9	15.6	101.92	4.6875	0.383
8.50	619.0	15.7	101.91	4.4706	0.383
9.00	619.0	15.8	101.88	4.2778	0.383
9.50	619.1	15.9	101.86	4.1053	0.383
10.00	619.3	16.0	101.84	3.9500	0.383
10.50	619.3	16.1	101.82	3.8095	0.384
11.00	619.3	16.1	101.81	3.6818	0.384
11.50	619.3	16.1	101.78	3.5652	0.384
12.00	619.5	16.3	101.75	3.4583	0.384
12.50	619.5	16.3	101.73	3.3600	0.384
13.00	619.6	16.3	101.71	3.2692	0.384
13.50	619.6	16.3	101.69	3.1852	0.384
14.00	619.6	16.3	101.66	3.1071	0.384
14.50	619.8	16.5	101.65	3.0345	0.384
15.00	619.9	16.6	101.62	2.9667	0.384
15.50	619.9	16.6	101.60	2.9032	0.384
16.00	619.9	16.6	101.58	2.8438	0.384
16.50	619.9	16.7	101.56	2.7879	0.384
17.00	619.9	16.7	101.53	2.7353	0.384
17.50	619.9	16.7	101.51	2.6857	0.384
18.00	620.1	16.8	101.48	2.6389	0.385
18.50	620.1	16.8	101.46	2.5946	0.385
19.00	620.1	16.8	101.43	2.5526	0.385
19.50	620.0	16.8	101.40	2.5128	0.384
20.00	620.2	16.9	101.37	2.4750	0.385
20.50	620.2	16.9	101.33	2.4390	0.385
21.00	620.2	16.9	101.32	2.4048	0.385
21.50	620.1	16.8	101.32	2.3721	0.385
22.00	620.4	17.1	101.32	2.3409	0.385
22.50	620.4	17.1	101.31	2.3111	0.385
23.00	620.4	17.1	101.30	2.2826	0.385
23.50	620.4	17.1	101.30	2.2553	0.385
24.00	620.4	17.1	101.30	2.2292	0.385
24.50	620.4	17.1	101.30	2.2041	0.385
25.00	620.4	17.2	101.24	2.1800	0.385
25.50	620.4	17.2	101.21	2.1569	0.385

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10557 Mull Drilling Co. Inc. Henry #1-10 DST#2

DATE: 11/23/97 TIME: 00:46:26

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
26.00	620.5	17.3	101.18	2.1346	0.385
26.50	620.5	17.3	101.15	2.1132	0.385
27.00	620.5	17.3	101.14	2.0926	0.385
27.50	620.6	17.3	101.11	2.0727	0.385
28.00	620.6	17.3	101.10	2.0536	0.385
28.50	620.6	17.3	101.07	2.0351	0.385
29.00	620.6	17.3	101.06	2.0172	0.385
29.50	620.6	17.3	101.03	2.0000	0.385
30.00	620.7	17.4	101.02	1.9833	0.385
30.50	620.7	17.4	101.00	1.9672	0.385
31.00	620.7	17.4	100.99	1.9516	0.385
31.50	620.7	17.4	100.98	1.9365	0.385
32.00	620.7	17.4	100.96	1.9219	0.385
32.50	620.8	17.5	100.93	1.9077	0.385
33.00	620.8	17.5	100.93	1.8939	0.385
33.50	620.8	17.5	100.91	1.8806	0.385
34.00	620.7	17.4	100.89	1.8676	0.385
34.50	620.9	17.6	100.89	1.8551	0.385
35.00	620.9	17.6	100.87	1.8429	0.385
35.50	620.9	17.6	100.84	1.8310	0.385
36.00	620.9	17.6	100.84	1.8194	0.385
36.50	620.9	17.7	100.82	1.8082	0.386
37.00	620.9	17.7	100.81	1.7973	0.386
37.50	620.9	17.7	100.80	1.7867	0.386
38.00	620.9	17.7	100.78	1.7763	0.386
38.50	621.0	17.8	100.77	1.7662	0.386
39.00	621.0	17.8	100.75	1.7564	0.386
39.50	621.0	17.8	100.74	1.7468	0.386
40.00	620.9	17.7	100.72	1.7375	0.386
40.50	621.1	17.8	100.71	1.7284	0.386
41.00	621.1	17.8	100.70	1.7195	0.386
41.50	621.1	17.8	100.69	1.7108	0.386
42.00	621.1	17.8	100.68	1.7024	0.386
42.50	621.1	17.8	100.66	1.6941	0.386
43.00	621.1	17.8	100.65	1.6860	0.386
43.50	621.0	17.8	100.63	1.6782	0.386
44.00	621.0	17.8	100.62	1.6705	0.386
44.50	621.0	17.8	100.61	1.6629	0.386
45.00	621.0	17.8	100.60	1.6556	0.386
45.50	621.0	17.8	100.58	1.6484	0.386
46.00	621.2	17.9	100.57	1.6413	0.386
46.50	621.2	17.9	100.56	1.6344	0.386
47.00	621.2	17.9	100.55	1.6277	0.386
47.50	621.2	17.9	100.54	1.6211	0.386
48.00	621.2	17.9	100.52	1.6146	0.386
48.50	621.2	17.9	100.52	1.6082	0.386
49.00	621.2	17.9	100.50	1.6020	0.386
49.50	621.2	17.9	100.49	1.5960	0.386
50.00	621.3	18.0	100.48	1.5900	0.386
50.50	621.3	18.0	100.47	1.5842	0.386
51.00	621.3	18.0	100.46	1.5784	0.386

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10557 Mull Drilling Co. Inc. Henry #1-10 DST#2

DATE: 11/23/97 TIME: 00:46:26

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	51.50	621.4	18.1	100.45	1.5728	0.386
	52.00	621.3	18.0	100.44	1.5673	0.386
	52.50	621.3	18.0	100.43	1.5619	0.386
	53.00	621.3	18.0	100.42	1.5566	0.386
	53.50	621.2	17.9	100.41	1.5514	0.386
	54.00	621.2	17.9	100.40	1.5463	0.386
	54.50	621.3	18.0	100.39	1.5413	0.386
	55.00	621.3	18.0	100.37	1.5364	0.386
	55.50	621.3	18.0	100.36	1.5315	0.386
	56.00	621.3	18.0	100.35	1.5268	0.386
	56.50	621.3	18.0	100.35	1.5221	0.386
	57.00	621.4	18.1	100.33	1.5175	0.386
	57.50	621.4	18.1	100.32	1.5130	0.386
	58.00	621.4	18.1	100.31	1.5086	0.386
	58.50	621.3	18.0	100.31	1.5043	0.386
****** End Shut-in 2	59.00	621.3	18.0	100.30	1.5000	0.386
****** Final Hydro.	298.00	1777.4	0.0	100.32		

TEST HISTORY

10557 Mull Drilling Co. Inc. Henry #1-10 DST#2

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1802.26
B:	0.00	273.93
C:	14.50	503.98
D:	44.50	611.21
E:	0.00	535.37
F:	15.00	603.26
G:	59.00	621.28
Q:	0.00	1777.41

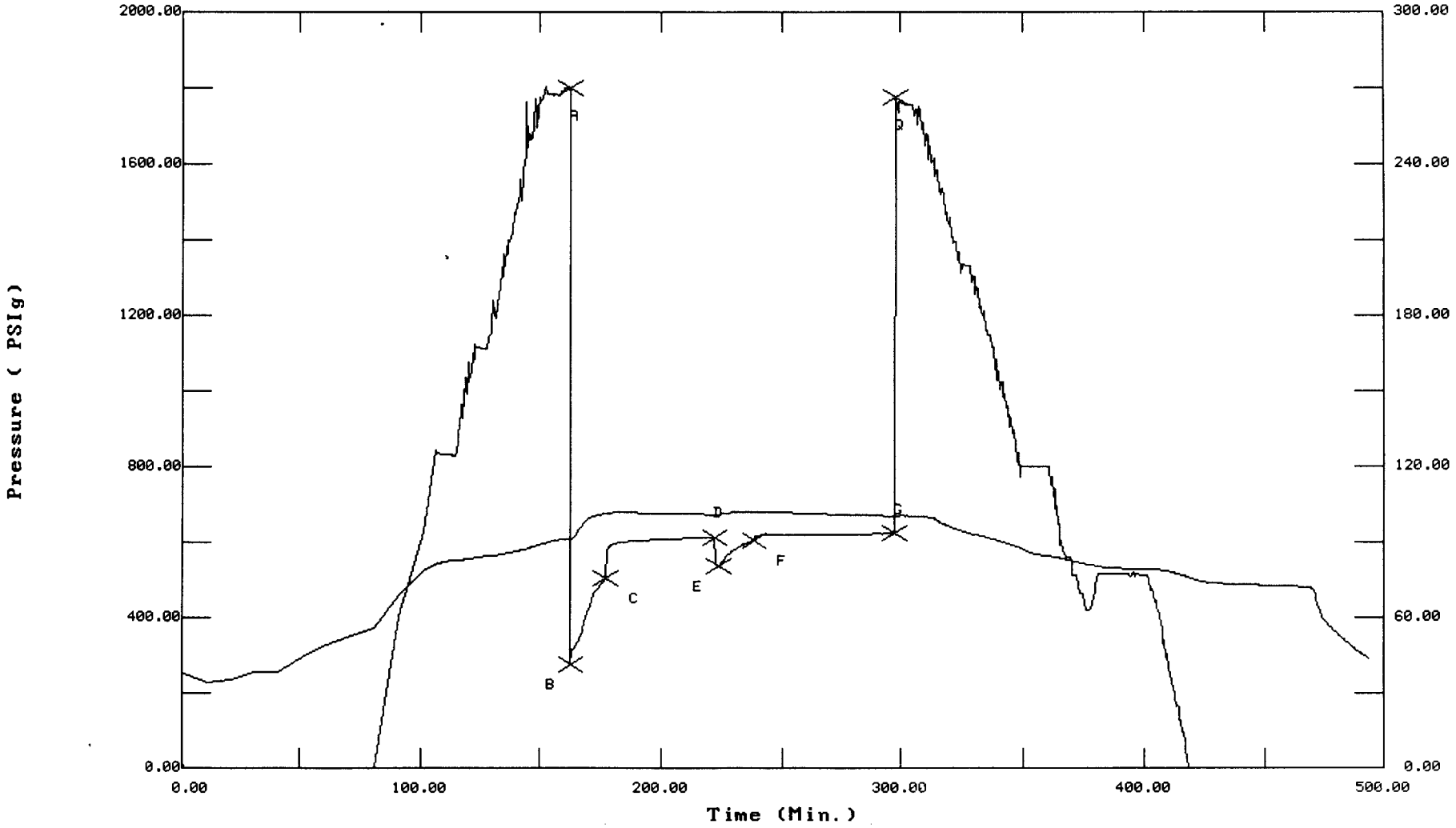
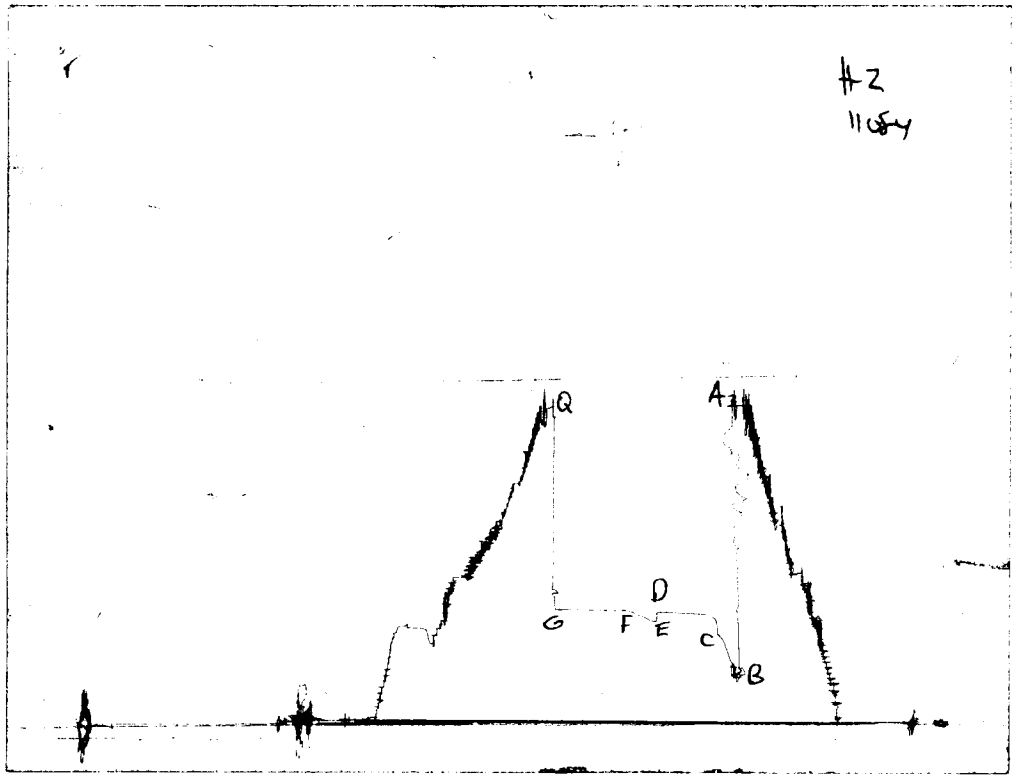


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 10557

Well Name & No. Henry 1-10 Test No. 2 Date 11-23-93

Company Mull Drlg Co Inc Zone Tested Kansas Sand

Address _____ Elevation 2356 KB 2361 GL

Co. Rep / Geo. Bill Stout Cont. Pickrell #10 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 10 Twp. 4s Rge. 23w Co. Norton State Ks

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

Interval Tested 3635 -3690 Initial Str Wt./Lbs. 58,000 Unseated Str Wt./Lbs. 68,000

Anchor Length 55 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 72,000

Top Packer Depth 3630 Tool Weight 2900

Bottom Packer Depth 3635 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____

Total Depth 3690 Wt. Pipe Run _____ Drill Collar Run 175

Mud Wt. 9.4 LCM _____ Vis. 42 WL 10.6 Drill Pipe Size 4½ XH Ft. Run 3445

Blow Description strong blow - bottom of bucket in 1 minute
ISI - blowback built to bottom of bucket in 25 minutes
FF - strong blow built to bottom of bucket in 3 minutes
FSI - surface blow building to ½"

Recovery — Total Feet 1230 GIP ? Ft. in DC 175 Ft. in DP 1055

Rec. 180	Feet Of	watery mud	%gas	%oil	%water	%mud
Rec. 1050.	Feet Of	~~sat~~ gassy water	%gas	%oil	%water	%mud
Rec. _____	Feet Of		%gas	%oil	%water	%mud
Rec. _____	Feet Of		%gas	%oil	%water	%mud
Rec. _____	Feet Of	reversed to pits	%gas	%oil	%water	%mud

BHT 102 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW .18 @ 60 °F Chlorides 50,000 ppm Recovery Chlorides 500 ppm System

(A) Initial Hydrostatic Mud	1875	1802	PSI	Recorder No.	2341	T-Started	0155
(B) First Initial Flow Pressure	241	274	PSI	(depth)	3637	T-Open	0328
(C) First Final Flow Pressure	504	504	PSI	Recorder No.	11084	T-Pulled	0543
(D) Initial Shut-in Pressure	623	611	PSI	(depth)	3670	T-Out	0805
(E) Second Initial Flow Pressure	580	535	PSI	Recorder No.			
(F) Second Final Flow Pressure	623	603	PSI	(depth)			
(G) Final Shut-in Pressure	623	621	PSI	Initial Opening	15	Test	
(H) Final Hydrostatic Mud	1832	1777	PSI	Initial Shut-in	45	Jars	
	Ak-1			Final Flow	15	Safety Joint	X
				Final Shut-in	60	Straddle	
					55 steady	Circ. Sub	X
						Sampler	
						Extra Packer	
						Elect. Rec.	X
						Other	

Approved By Bill Stout