

WELL NAME: #2-3 Todd
COMPANY: Midco Exploration Inc.
LOCATION: 3-33S-18W
Comanche County, Kansas
DATE: 4/9/98

TRILOBITE TESTING L.L.C.

OPERATOR : Midco Exploration, Inc.

DATE 4/2/98

WELL NAME: #2-3 Todd

KB 2016.00 ft

TICKET NO: 10776

DST #1

LOCATION : 3-33s-18w Comanche KS

GR 2003.00 ft

FORMATION: Douglas

INTERVAL : 4337.00 To 4352.00 ft

TD 4425.00 ft

TEST TYPE: CONV/STRADDLE

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10332	10332	2350			PF Fr. 0044 to 0114 hr
SI 45	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0114 to 0159 hr
SF 60	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0159 to 0259 hr
FS 90	Depth(ft)	4348.0	4348.0	4343.0	0.0	0.0	FS Fr. 0259 to 0429 hr

	Field	1	2	3	4	
A. Init Hydro	2158.0	2141.0	2147.0	0.0	0.0	T STARTED 2248 hr
B. First Flow	91.0	89.0	50.0	0.0	0.0	T ON BOTM 0042 hr
B1. Final Flow	263.0	264.0	280.0	0.0	0.0	T OPEN 0044 hr
C. In Shut-in	1529.0	1528.0	1540.0	0.0	0.0	T PULLED 0429 hr
D. Init Flow	334.0	314.0	287.0	0.0	0.0	T OUT 0645 hr
E. Final Flow	516.0	511.0	544.0	0.0	0.0	
F. Fl Shut-in	1508.0	1536.0	1540.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2058.0	2060.0	2045.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 84000.00 lbs
						Initial Str Wt 70000.00 lbs
						Unseated Str Wt 75000.00 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 297.00 ft
						D.P. Length 4023.00 ft

RECOVERY

Tot Fluid 1100.00 ft of 297.00 ft in DC and 803.00 ft in DP
 200.00 ft of Slight mud cut water 70% water 30% mud
 900.00 ft of Salty water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 115000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Fair blow, built to bottom of bucket
 in 8 mins.
 Initial Shut-in:
 Bled for 3 mins. no blow back
 Final Flow:
 Fair blow, built to bottom of bucket
 in 13 mins.
 Final Shut-in:
 Bled down for 3 mins. very slight
 blow back

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	48.00 S/L
W.L.	19.00 in3
F.C.	0.32 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	117.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	3
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out	-
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Tom Williams
Contr.	Duke
Rig #	7
Unit #	none
Pump T.	no

Test Successful: Y

*** TOOL DIAGRAM *** CONV/STRADDLE

WELL NAME: #2-3 Todd

LOCATION : 3-33s-18w Comanche KS

TICKET No. 10776 D.S.T. No. 1 DATE 4/2/98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 25

TOTAL TOOL 52

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 64

TOTAL ASSEMBLY 115

D.C. ABOVE TOOLS.Stands Single Total 297

D.P. ABOVE TOOLS.Stands68 Single 1 Total 4023

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4435

TOTAL DEPTH 4425

TOTAL DRILL PIPE ABOVE K.B. 10

REMARKS:

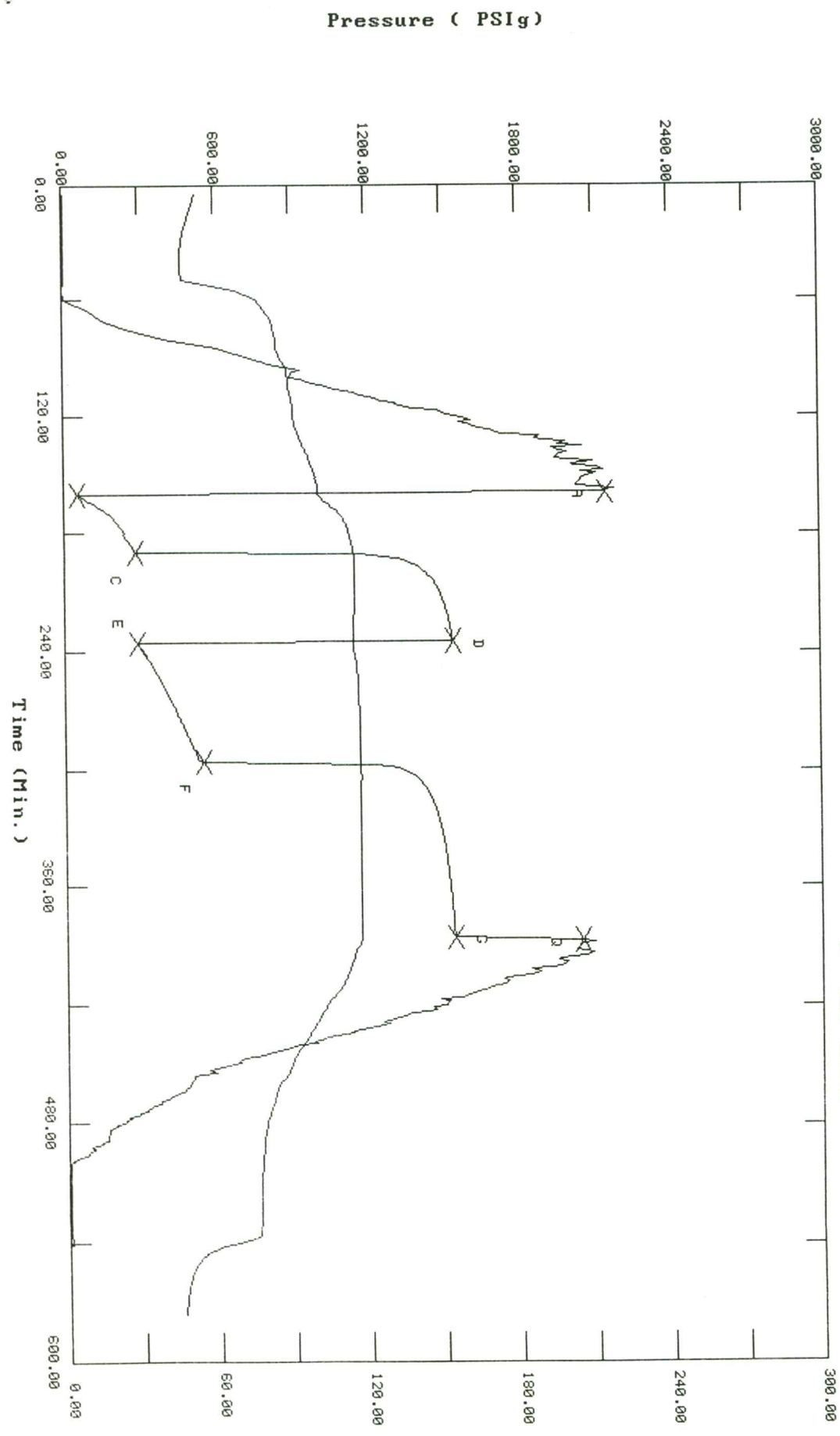
P.O. SUB top of tool @	4310
C.O. SUB	4311
S.I. TOOL	4316
HMV	4321
JARS	4326
SAFETY JOINT	4328
PACKER	4332
PACKER	4337
DEPTH	
STUBB 1'stubb to	4338
ANCHOR	
alpine rec.@ 4343	
ak-1 rec.@ 4347	
14'of perfs.to	4352
	4352
T.C.	
DEPTH	
PACKER	4352
1'stubb to.	4353
3'of perfs.to	4356
64'drill pipe to	4420
	4420
	4420
ak-1 rec.@ 4422	
BULLNOSE 5'bullnose to	4425
T.D.	

TEST HISTORY

TK#10776 DST#1 #2-3 Todd/Midco, Exp. Inc

Flag Points

t(Min.)	P(PSig)
A: 0.00	2147.37
B: 0.00	49.76
C: 30.00	279.81
D: 45.00	1539.73
E: 0.00	286.60
F: 60.00	544.01
G: 90.00	1539.65
H: 0.00	2045.40

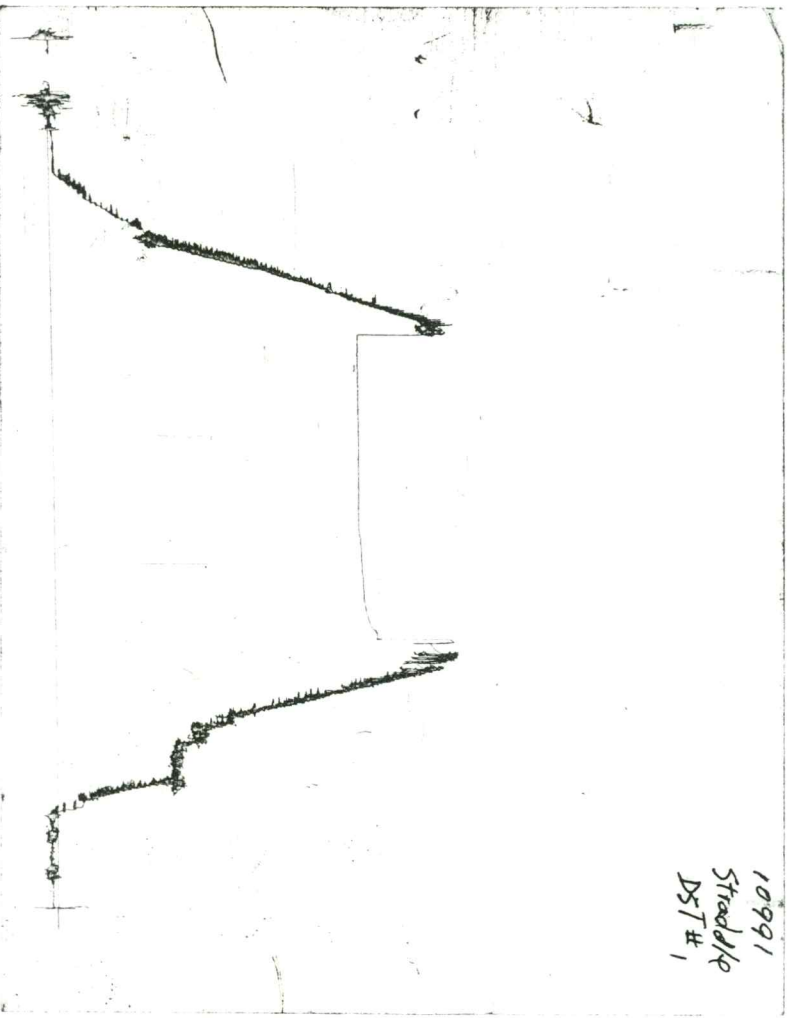


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10776 DST#1 #2-3 Todd/Midco, Exp. Inc

DATE: 03/19/98

TIME: 22:49:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	159.00	2147.4	0.0	100.80		
***** Start Flow 1	0.00	49.8	0.0	100.86		
	1.00	61.6	11.8	101.05		
	2.00	74.3	24.5	101.64		
	3.00	87.4	37.7	102.54		
	4.00	99.9	50.2	103.61		
	5.00	115.9	66.1	104.71		
	6.00	128.1	78.4	105.76		
	7.00	140.7	90.9	106.74		
	8.00	153.3	103.6	107.63		
	9.00	165.2	115.4	108.42		
	10.00	175.5	125.7	109.11		
	11.00	182.6	132.9	109.70		
	12.00	189.6	139.8	110.22		
	13.00	196.0	146.2	110.69		
	14.00	201.8	152.1	111.11		
	15.00	208.0	158.3	111.50		
	16.00	213.4	163.7	111.86		
	17.00	218.8	169.0	112.18		
	18.00	224.8	175.0	112.47		
	19.00	230.2	180.4	112.73		
	20.00	235.5	185.7	112.96		
	21.00	233.8	184.1	113.19		
	22.00	238.6	188.8	113.39		
	23.00	243.6	193.9	113.58		
	24.00	249.1	199.3	113.76		
	25.00	254.4	204.6	113.92		
	26.00	259.7	209.9	114.08		
	27.00	265.0	215.3	114.22		
	28.00	269.7	220.0	114.35		
	29.00	274.5	224.8	114.48		
***** End Flow 1	30.00	279.8	230.0	114.58		
***** Start Shutin 1	0.00	279.8	0.0	114.58	0.0000	0.078
	1.00	1173.6	893.8	114.73	31.0000	1.377
	2.00	1271.1	991.3	114.85	16.0000	1.616
	3.00	1316.9	1037.1	114.97	11.0000	1.734
	4.00	1346.8	1067.0	115.05	8.5000	1.814
	5.00	1369.1	1089.3	115.12	7.0000	1.874
	6.00	1386.7	1106.9	115.18	6.0000	1.923
	7.00	1401.3	1121.5	115.22	5.2857	1.964
	8.00	1413.3	1133.4	115.24	4.7500	1.997
	9.00	1424.3	1144.5	115.26	4.3333	2.029
	10.00	1433.6	1153.8	115.25	4.0000	2.055
	11.00	1442.0	1162.1	115.22	3.7273	2.079
	12.00	1449.2	1169.4	115.19	3.5000	2.100
	13.00	1455.9	1176.1	115.19	3.3077	2.120
	14.00	1462.0	1182.2	115.16	3.1429	2.137
	15.00	1467.5	1187.7	115.14	3.0000	2.153
	16.00	1472.3	1192.5	115.11	2.8750	2.168
	17.00	1477.2	1197.4	115.07	2.7647	2.182
	18.00	1481.5	1201.7	115.04	2.6667	2.195

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10776 DST#1 #2-3 Todd/Midco, Exp. Inc

DATE: 03/19/98

TIME: 22:49:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	19.00	1485.5	1205.7	115.03	2.5789	2.207
	20.00	1489.4	1209.6	115.00	2.5000	2.218
	21.00	1492.8	1213.0	115.00	2.4286	2.228
	22.00	1496.2	1216.4	114.95	2.3636	2.239
	23.00	1499.2	1219.4	114.95	2.3043	2.248
	24.00	1502.1	1222.3	114.92	2.2500	2.256
	25.00	1505.0	1225.2	114.92	2.2000	2.265
	26.00	1507.4	1227.6	114.90	2.1538	2.272
	27.00	1510.1	1230.3	114.88	2.1111	2.280
	28.00	1512.3	1232.5	114.84	2.0714	2.287
	29.00	1514.6	1234.7	114.84	2.0345	2.294
	30.00	1516.7	1236.9	114.81	2.0000	2.300
	31.00	1518.7	1238.9	114.82	1.9677	2.307
	32.00	1520.7	1240.9	114.80	1.9375	2.312
	33.00	1522.5	1242.7	114.79	1.9091	2.318
	34.00	1524.3	1244.5	114.77	1.8824	2.323
	35.00	1526.0	1246.2	114.77	1.8571	2.329
	36.00	1527.6	1247.8	114.75	1.8333	2.334
	37.00	1529.2	1249.3	114.74	1.8108	2.338
	38.00	1530.7	1250.9	114.74	1.7895	2.343
	39.00	1532.2	1252.4	114.73	1.7692	2.348
	40.00	1533.5	1253.7	114.73	1.7500	2.352
	41.00	1534.9	1255.1	114.72	1.7317	2.356
	42.00	1536.2	1256.4	114.69	1.7143	2.360
	43.00	1537.5	1257.7	114.69	1.6977	2.364
	44.00	1538.7	1258.9	114.69	1.6818	2.368
***** End Shut-in 1	45.00	1539.7	1259.9	114.68	1.6667	2.371
***** Start Flow 2	0.00	286.6	0.0	114.65		
	1.00	293.2	6.6	114.60		
	2.00	299.0	12.4	114.62		
	3.00	304.1	17.5	114.68		
	4.00	309.5	22.9	114.81		
	5.00	314.4	27.8	114.93		
	6.00	319.3	32.7	115.08		
	7.00	324.5	37.9	115.23		
	8.00	329.2	42.6	115.37		
	9.00	333.7	47.1	115.48		
	10.00	338.1	51.5	115.59		
	11.00	343.1	56.5	115.69		
	12.00	347.5	60.8	115.79		
	13.00	351.7	65.1	115.86		
	14.00	356.5	69.9	115.94		
	15.00	360.7	74.1	116.01		
	16.00	364.9	78.3	116.07		
	17.00	369.0	82.4	116.12		
	18.00	373.9	87.3	116.17		
	19.00	378.0	91.4	116.22		
	20.00	382.4	95.8	116.27		
	21.00	386.9	100.3	116.32		
	22.00	390.9	104.3	116.35		
	23.00	394.8	108.2	116.39		

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TEST: Tk#10776 DST#1 #2-3 Todd/Midco,Exp.Inc

DATE: 03/19/98

TIME: 22:49:56

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	24.00	398.8	112.2	116.41		
	25.00	403.0	116.4	116.46		
	26.00	406.9	120.3	116.48		
	27.00	410.6	124.0	116.52		
	28.00	414.3	127.7	116.55		
	29.00	418.5	131.9	116.57		
	30.00	422.4	135.8	116.59		
	31.00	426.3	139.7	116.61		
	32.00	430.0	143.4	116.62		
	33.00	434.2	147.6	116.63		
	34.00	437.8	151.2	116.64		
	35.00	441.4	154.8	116.66		
	36.00	444.8	158.2	116.66		
	37.00	448.7	162.1	116.68		
	38.00	452.4	165.8	116.72		
	39.00	455.7	169.1	116.73		
	40.00	459.2	172.6	116.75		
	41.00	463.3	176.7	116.78		
	42.00	466.6	180.0	116.80		
	43.00	470.0	183.4	116.82		
	44.00	473.4	186.8	116.84		
	45.00	477.1	190.5	116.86		
	46.00	480.6	194.0	116.87		
	47.00	484.1	197.5	116.87		
	48.00	487.6	201.0	116.88		
	49.00	491.0	204.4	116.89		
	50.00	494.7	208.1	116.91		
	51.00	498.3	211.7	116.92		
	52.00	501.7	215.1	116.93		
	53.00	505.2	218.6	116.93		
	54.00	509.1	222.5	116.95		
	55.00	512.5	225.8	116.95		
	56.00	515.6	229.0	116.96		
	57.00	518.7	232.1	116.98		
	58.00	521.9	235.3	116.98		
	59.00	525.6	239.0	116.99		
***** End Flow 2	60.00	544.0	257.4	117.00		
***** Start Shutin 2	0.00	544.0	0.0	117.00	0.0000	0.296
	1.00	1225.6	681.6	117.05	91.0000	1.502
	2.00	1292.0	748.0	117.08	46.0000	1.669
	3.00	1324.0	779.9	117.12	31.0000	1.753
	4.00	1345.4	801.3	117.16	23.5000	1.810
	5.00	1361.7	817.7	117.18	19.0000	1.854
	6.00	1374.8	830.8	117.21	16.0000	1.890
	7.00	1385.7	841.7	117.23	13.8571	1.920
	8.00	1395.0	850.9	117.25	12.2500	1.946
	9.00	1403.3	859.3	117.24	11.0000	1.969
	10.00	1410.6	866.6	117.21	10.0000	1.990
	11.00	1417.0	873.0	117.19	9.1818	2.008
	12.00	1423.0	879.0	117.17	8.5000	2.025
	13.00	1428.5	884.5	117.13	7.9231	2.041

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10776 DST#1 #2-3 Todd/Midco, Exp. Inc

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TIME: 22:49:56

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
14.00	1433.4	889.4	117.11	7.4286	2.055
15.00	1437.9	893.9	117.08	7.0000	2.068
16.00	1442.3	898.3	117.08	6.6250	2.080
17.00	1446.3	902.3	117.05	6.2941	2.092
18.00	1449.9	905.9	117.01	6.0000	2.102
19.00	1453.5	909.4	117.00	5.7368	2.113
20.00	1456.7	912.7	117.00	5.5000	2.122
21.00	1459.8	915.8	116.98	5.2857	2.131
22.00	1462.9	918.8	116.97	5.0909	2.140
23.00	1465.6	921.6	116.96	4.9130	2.148
24.00	1468.2	924.2	116.95	4.7500	2.156
25.00	1470.9	926.9	116.93	4.6000	2.164
26.00	1473.2	929.2	116.92	4.4615	2.170
27.00	1475.5	931.5	116.90	4.3333	2.177
28.00	1477.8	933.8	116.91	4.2143	2.184
29.00	1479.9	935.9	116.90	4.1034	2.190
30.00	1482.0	938.0	116.89	4.0000	2.196
31.00	1483.9	939.9	116.88	3.9032	2.202
32.00	1485.9	941.9	116.89	3.8125	2.208
33.00	1487.6	943.6	116.86	3.7273	2.213
34.00	1489.5	945.4	116.86	3.6471	2.218
35.00	1491.1	947.0	116.85	3.5714	2.223
36.00	1492.7	948.7	116.84	3.5000	2.228
37.00	1494.3	950.3	116.84	3.4324	2.233
38.00	1495.8	951.8	116.84	3.3684	2.238
39.00	1497.4	953.4	116.83	3.3077	2.242
40.00	1498.8	954.8	116.82	3.2500	2.246
41.00	1500.2	956.2	116.83	3.1951	2.251
42.00	1501.6	957.6	116.82	3.1429	2.255
43.00	1503.0	959.0	116.79	3.0930	2.259
44.00	1504.1	960.1	116.79	3.0455	2.262
45.00	1505.4	961.4	116.79	3.0000	2.266
46.00	1506.7	962.7	116.80	2.9565	2.270
47.00	1507.8	963.7	116.78	2.9149	2.273
48.00	1508.9	964.9	116.79	2.8750	2.277
49.00	1510.1	966.1	116.77	2.8367	2.280
50.00	1511.2	967.2	116.76	2.8000	2.284
51.00	1512.1	968.1	116.75	2.7647	2.287
52.00	1513.2	969.2	116.76	2.7308	2.290
53.00	1514.2	970.2	116.75	2.6981	2.293
54.00	1515.2	971.2	116.74	2.6667	2.296
55.00	1516.1	972.1	116.73	2.6364	2.299
56.00	1517.1	973.1	116.73	2.6071	2.302
57.00	1517.9	973.9	116.72	2.5789	2.304
58.00	1518.8	974.8	116.70	2.5517	2.307
59.00	1519.7	975.7	116.71	2.5254	2.309
60.00	1520.6	976.6	116.71	2.5000	2.312
61.00	1521.4	977.4	116.71	2.4754	2.315
62.00	1522.2	978.2	116.70	2.4516	2.317
63.00	1523.1	979.1	116.70	2.4286	2.320
64.00	1523.9	979.9	116.70	2.4062	2.322

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10776 DST#1 #2-3 Todd/Midco,Exp.Inc

DATE: 03/19/98 TIME: 22:49:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	65.00	1524.6	980.6	116.67	2.3846	2.324
	66.00	1525.4	981.4	116.67	2.3636	2.327
	67.00	1526.1	982.0	116.70	2.3433	2.329
	68.00	1526.7	982.7	116.68	2.3235	2.331
	69.00	1527.5	983.5	116.69	2.3043	2.333
	70.00	1528.2	984.2	116.70	2.2857	2.335
	71.00	1528.9	984.9	116.68	2.2676	2.338
	72.00	1529.6	985.6	116.68	2.2500	2.340
	73.00	1530.2	986.2	116.68	2.2329	2.342
	74.00	1530.9	986.9	116.67	2.2162	2.344
	75.00	1531.5	987.5	116.68	2.2000	2.346
	76.00	1532.1	988.1	116.67	2.1842	2.347
	77.00	1532.7	988.7	116.68	2.1688	2.349
	78.00	1533.3	989.3	116.68	2.1538	2.351
	79.00	1533.9	989.8	116.67	2.1392	2.353
	80.00	1534.4	990.3	116.67	2.1250	2.354
	81.00	1535.0	991.0	116.66	2.1111	2.356
	82.00	1535.6	991.6	116.67	2.0976	2.358
	83.00	1536.1	992.1	116.66	2.0843	2.360
	84.00	1536.6	992.6	116.66	2.0714	2.361
	85.00	1537.1	993.1	116.67	2.0588	2.363
	86.00	1537.6	993.6	116.66	2.0465	2.364
	87.00	1538.1	994.0	116.66	2.0345	2.366
	88.00	1538.7	994.7	116.66	2.0227	2.368
	89.00	1539.2	995.2	116.65	2.0112	2.369
***** End Shut-in 2	90.00	1539.6	995.6	116.66	2.0000	2.371
***** Final Hydro.	387.00	2045.4	0.0	116.66		

TRILOBITE TESTING L.L.C.

OPERATOR : Midco Exploration, Inc.
WELL NAME: #2-3 Todd
LOCATION : 3-33s-18w Comanche KS
INTERVAL : 5139.00 To 5170.00 ft

DATE 4/4/98
KB 2016.00 ft TICKET NO: 10777 DST #2
GR 2003.00 ft FORMATION: Miss.
TD 5170.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	2350			PF Fr. 1650 to 1720 hr
SI 60 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1720 to 1820 hr
SF 60 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1820 to 1920 hr
FS 90 Depth(ft)	5167.0	5167.0	5145.0	0.0	0.0	FS Fr. 1920 to 2050 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2472.0	0.0	0.0	T STARTED 1439 hr
B. First Flow	0.0	0.0	88.0	0.0	0.0	T ON BOTM 1647 hr
B1. Final Flow	0.0	0.0	76.0	0.0	0.0	T OPEN 1650 hr
C. In Shut-in	0.0	0.0	1444.0	0.0	0.0	T PULLED 2050 hr
D. Init Flow	0.0	0.0	79.0	0.0	0.0	T OUT 2300 hr
E. Final Flow	0.0	0.0	75.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1395.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2231.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 90000.00 lbs
						Initial Str Wt 82000.00 lbs
						Unseated Str Wt 82000.00 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 297.00 ft
						D.P. Length 4840.00 ft

RECOVERY

Tot Fluid 150.00 ft of 150.00 ft in DC and 0.00 ft in DP
150.00 ft of Slight gas cut mud 10%gas 90%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

BLOW DESCRIPTION

Initial Flow:
Strong blow bottom of bucket in
15 secs. Gas to surface in 5 mins.
Initial Shut-in:
Bled down for 10 mins. no blow back
Final Flow:
Strong blow bottom of bucket in
15 secs.
Final Shut-in:
Bled down for 10 mins. no blow back

SAMPLES:
SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	46.00 S/L
W.L.	8.00 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out--	
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Tom Williams
Contr.	Duke
Rig #	7
Unit #	none
Pump T.	no

Test Successful: Y

GAS RECOVERY

COMPANY: Midco Exploration, Inc.

DATE: 4/4/98

WELL NAME: #2-3 Todd

KB Elev: 2016.00 ft TICKET #10777 DST #2

WELL LOCATION: 3-33s-18w Comanche KS

GR Elev: 2003.00 ft FORMATION: Miss.

INTERVAL Fr.: 5139.00 To 5170.00 T.D.: 5170.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adj.Choke

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.38	12	0	72600.0
20	0.38	1	0	63400.0
30	0.38	6	0	46400.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.38	14	0	79700.0
20	0.38	4	0	39000.0
30	0.25	5	0	20700.0
40	0.25	4	0	18500.0
50	0.25	4	0	17100.0
60	0.25	3	0	15700.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: #2-3 Todd

LOCATION : 3-33s-18w Comanche KS

TICKET No. 10777 D.S.T. No. 2 DATE 4/4/98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 31

TOTAL TOOL 58

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands 5 Single Total 297

D.P. ABOVE TOOLS.Stands 79 Single 1 Total 4840

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5195

TOTAL DEPTH 5170

TOTAL DRILL PIPE ABOVE K.B. 25'

REMARKS:

P.O. SUB top of tool @	5111
C.O. SUB	5112
S.I. TOOL	5117
HMV	5123
JARS	5128
SAFETY JOINT	5130
PACKER	5134
PACKER	5139
DEPTH	
STUBB 1'stubb to	5140
ANCHOR	
alpine rec.@ 5145	
25'of perfs.to	5165
	5165
T.C.	
DEPTH	
	5165
	5165
ak-1 rec.@ 5167	
BULLNOSE 5'bullnose to	5170
T.D.	

TEST HISTORY

TK#10777 DST#2 #2-3 Todd Midco Exp, Inc.

Flag Points

t(Min.) P(PSig)

A:	0.00	2471.83
S:	0.00	88.12
C:	27.00	75.86
D:	61.00	1443.72
E:	0.00	78.88
F:	58.00	75.44
G:	90.00	1395.46
O:	0.00	2230.71

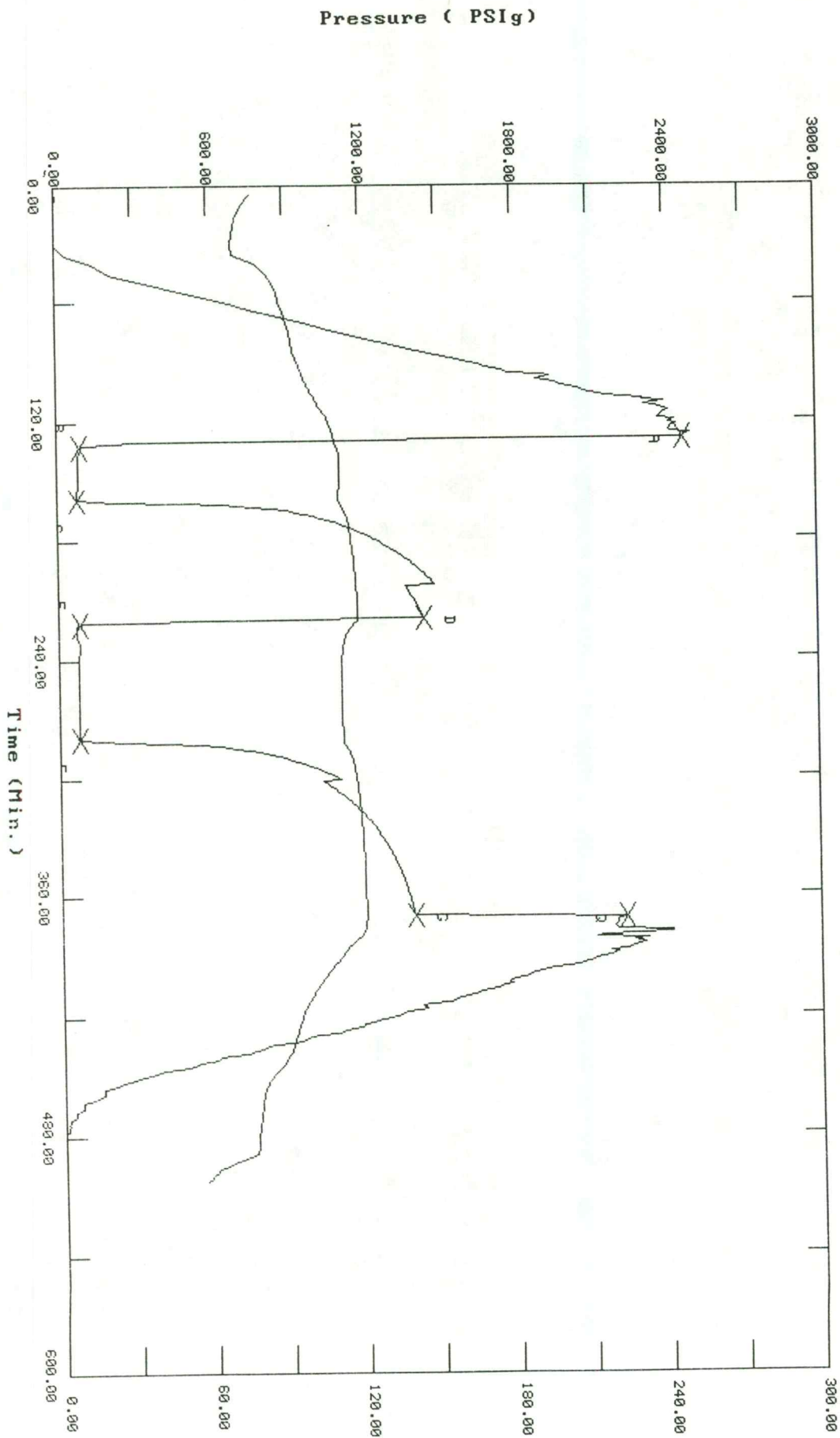
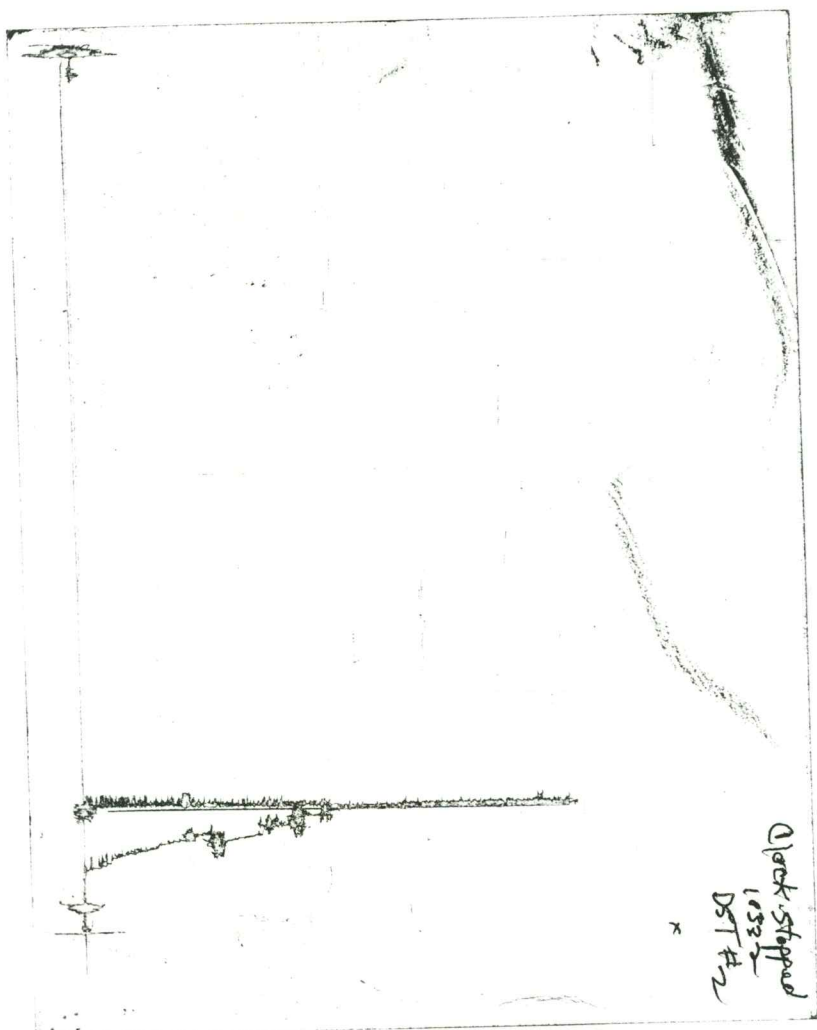


CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10777 DST#2 #2-3 Todd Midco Exp, Inc.

DATE: 04/04/98

TIME: 14:39:38

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	129.00	2471.8	0.0	109.54		
***** Start Flow 1	0.00	88.1	0.0	110.23		
	1.00	93.0	4.9	110.57		
	2.00	86.4	-1.7	110.89		
	3.00	86.3	-1.8	111.15		
	4.00	84.0	-4.1	111.35		
	5.00	84.2	-3.9	111.50		
	6.00	83.6	-4.5	111.56		
	7.00	83.8	-4.3	111.60		
	8.00	84.1	-4.0	111.61		
	9.00	84.1	-4.0	111.60		
	10.00	84.2	-4.0	111.57		
	11.00	83.9	-4.2	111.53		
	12.00	83.7	-4.4	111.50		
	13.00	83.2	-5.0	111.47		
	14.00	82.7	-5.5	111.43		
	15.00	82.5	-5.6	111.39		
	16.00	82.0	-6.1	111.35		
	17.00	81.3	-6.8	111.32		
	18.00	80.7	-7.4	111.30		
	19.00	80.2	-7.9	111.28		
	20.00	79.6	-8.5	111.25		
	21.00	79.0	-9.1	111.24		
	22.00	78.6	-9.5	111.22		
	23.00	78.0	-10.1	111.20		
	24.00	77.1	-11.0	111.19		
	25.00	76.7	-11.4	111.18		
	26.00	76.1	-12.0	111.17		
***** End Flow 1	27.00	75.9	-12.3	111.18		
***** Start Shutin 1	0.00	75.9	0.0	111.18	0.0000	0.006
	1.00	225.8	150.0	111.17	28.0000	0.051
	2.00	477.3	401.4	111.24	14.5000	0.228
	3.00	652.7	576.8	111.52	10.0000	0.426
	4.00	768.9	693.0	111.95	7.7500	0.591
	5.00	847.3	771.5	112.47	6.4000	0.718
	6.00	904.5	828.6	112.96	5.5000	0.818
	7.00	941.7	865.9	113.42	4.8571	0.887
	8.00	978.8	902.9	113.78	4.3750	0.958
	9.00	1010.7	934.9	114.09	4.0000	1.022
	10.00	1039.4	963.5	114.33	3.7000	1.080
	11.00	1065.3	989.4	114.51	3.4545	1.135
	12.00	1089.2	1013.3	114.70	3.2500	1.186
	13.00	1111.4	1035.6	114.85	3.0769	1.235
	14.00	1132.4	1056.6	115.01	2.9286	1.282
	15.00	1152.3	1076.5	115.13	2.8000	1.328
	16.00	1171.2	1095.3	115.26	2.6875	1.372
	17.00	1189.2	1113.3	115.37	2.5882	1.414
	18.00	1206.3	1130.4	115.49	2.5000	1.455
	19.00	1222.8	1147.0	115.61	2.4211	1.495
	20.00	1238.8	1162.9	115.70	2.3500	1.535
	21.00	1253.9	1178.0	115.82	2.2857	1.572

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: TK#10777 DST#2 #2-3 Todd Midco Exp, Inc.
 DATE: 04/04/98 TIME: 14:39:38

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	22.00	1268.6	1192.8	115.89	2.2273	1.609
	23.00	1282.8	1207.0	115.99	2.1739	1.646
	24.00	1296.3	1220.5	116.09	2.1250	1.680
	25.00	1309.5	1233.7	116.19	2.0800	1.715
	26.00	1322.2	1246.3	116.27	2.0385	1.748
	27.00	1334.4	1258.6	116.38	2.0000	1.781
	28.00	1346.2	1270.3	116.46	1.9643	1.812
	29.00	1357.7	1281.8	116.54	1.9310	1.843
	30.00	1368.6	1292.7	116.64	1.9000	1.873
	31.00	1379.1	1303.2	116.71	1.8710	1.902
	32.00	1389.4	1313.6	116.81	1.8438	1.930
	33.00	1399.2	1323.3	116.90	1.8182	1.958
	34.00	1408.8	1332.9	116.98	1.7941	1.985
	35.00	1418.0	1342.1	117.05	1.7714	2.011
	36.00	1427.0	1351.2	117.09	1.7500	2.036
	37.00	1435.5	1359.6	117.21	1.7297	2.061
	38.00	1443.7	1367.9	117.27	1.7105	2.084
	39.00	1451.9	1376.0	117.37	1.6923	2.108
	40.00	1459.6	1383.7	117.42	1.6750	2.130
	41.00	1467.0	1391.1	117.50	1.6585	2.152
	42.00	1474.2	1398.3	117.56	1.6429	2.173
	43.00	1481.1	1405.2	117.63	1.6279	2.194
	44.00	1487.9	1412.0	117.69	1.6136	2.214
	45.00	1372.5	1296.6	117.74	1.6000	1.884
	46.00	1377.3	1301.5	117.76	1.5870	1.897
	47.00	1382.9	1307.0	117.80	1.5745	1.912
	48.00	1388.2	1312.4	117.85	1.5625	1.927
	49.00	1393.4	1317.5	117.92	1.5510	1.941
	50.00	1398.5	1322.6	117.96	1.5400	1.956
	51.00	1403.3	1327.5	118.00	1.5294	1.969
	52.00	1408.0	1332.2	118.04	1.5192	1.983
	53.00	1412.6	1336.7	118.10	1.5094	1.995
	54.00	1417.1	1341.3	118.12	1.5000	2.008
	55.00	1421.4	1345.5	118.17	1.4909	2.020
	56.00	1425.5	1349.6	118.21	1.4821	2.032
	57.00	1429.5	1353.7	118.24	1.4737	2.044
	58.00	1433.3	1357.4	118.28	1.4655	2.054
	59.00	1437.0	1361.1	118.31	1.4576	2.065
	60.00	1440.8	1364.9	118.35	1.4500	2.076
***** End Shut-in 1	61.00	1443.7	1367.9	118.37	1.4426	2.084
***** Start Flow 2	0.00	78.9	0.0	117.31		
	1.00	70.8	-8.1	116.44		
	2.00	69.3	-9.6	115.62		
	3.00	69.2	-9.7	114.93		
	4.00	68.7	-10.2	114.34		
	5.00	69.4	-9.5	113.83		
	6.00	70.5	-8.4	113.41		
	7.00	71.0	-7.9	113.06		
	8.00	78.5	-0.4	112.80		
	9.00	79.5	0.6	112.60		
	10.00	81.7	2.9	112.44		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10777 DST#2 #2-3 Todd Midco Exp, Inc.

DATE: 04/04/98

TIME: 14:39:38

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	11.00	81.7	2.8	112.32		
	12.00	80.7	1.8	112.21		
	13.00	79.7	0.8	112.11		
	14.00	78.8	-0.1	112.04		
	15.00	78.0	-0.8	111.95		
	16.00	77.2	-1.7	111.88		
	17.00	76.4	-2.4	111.81		
	18.00	75.8	-3.1	111.74		
	19.00	74.9	-3.9	111.69		
	20.00	74.4	-4.4	111.65		
	21.00	73.7	-5.2	111.61		
	22.00	73.3	-5.6	111.59		
	23.00	73.2	-5.7	111.56		
	24.00	73.7	-5.2	111.54		
	25.00	73.8	-5.0	111.53		
	26.00	74.1	-4.8	111.53		
	27.00	74.3	-4.6	111.52		
	28.00	74.5	-4.4	111.53		
	29.00	74.8	-4.1	111.52		
	30.00	74.9	-4.0	111.53		
	31.00	75.1	-3.8	111.52		
	32.00	75.0	-3.9	111.54		
	33.00	75.2	-3.7	111.54		
	34.00	75.3	-3.6	111.55		
	35.00	75.4	-3.5	111.56		
	36.00	75.4	-3.4	111.58		
	37.00	75.1	-3.8	111.59		
	38.00	75.6	-3.3	111.60		
	39.00	75.7	-3.2	111.61		
	40.00	75.5	-3.4	111.63		
	41.00	75.3	-3.6	111.64		
	42.00	75.6	-3.3	111.65		
	43.00	75.6	-3.3	111.67		
	44.00	75.6	-3.3	111.68		
	45.00	75.5	-3.4	111.69		
	46.00	75.4	-3.4	111.71		
	47.00	75.8	-3.1	111.72		
	48.00	75.5	-3.4	111.74		
	49.00	75.4	-3.4	111.75		
	50.00	75.4	-3.5	111.77		
	51.00	75.6	-3.3	111.78		
	52.00	75.6	-3.3	111.81		
	53.00	75.5	-3.4	111.82		
	54.00	75.4	-3.5	111.84		
	55.00	75.8	-3.1	111.85		
	56.00	75.8	-3.1	111.86		
	57.00	75.7	-3.2	111.88		
***** End Flow 2	58.00	75.4	-3.4	111.89		
***** Start Shutin 2	0.00	75.4	0.0	111.89	0.0000	0.006
	1.00	253.5	178.1	111.92	86.0000	0.064
	2.00	419.9	344.4	112.06	43.5000	0.176

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: TK#10777 DST#2 #2-3 Todd Midco Exp, Inc.
 DATE: 04/04/98 TIME: 14:39:38

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
3.00	545.3	469.8	112.38	29.3333	0.297
4.00	636.8	561.3	112.84	22.2500	0.405
5.00	697.3	621.8	113.36	18.0000	0.486
6.00	750.0	674.5	113.86	15.1667	0.562
7.00	793.2	717.8	114.31	13.1429	0.629
8.00	830.1	754.7	114.70	11.6250	0.689
9.00	862.9	787.4	115.05	10.4444	0.745
10.00	892.2	816.8	115.35	9.5000	0.796
11.00	918.9	843.5	115.59	8.7273	0.844
12.00	943.4	868.0	115.81	8.0833	0.890
13.00	966.3	890.8	116.01	7.5385	0.934
14.00	987.7	912.2	116.17	7.0714	0.975
15.00	1007.9	932.4	116.32	6.6667	1.016
16.00	1026.8	951.3	116.47	6.3125	1.054
17.00	1044.9	969.5	116.61	6.0000	1.092
18.00	1062.0	986.6	116.75	5.7222	1.128
19.00	1078.5	1003.1	116.86	5.4737	1.163
20.00	1094.3	1018.9	116.97	5.2500	1.198
21.00	1109.4	1034.0	117.09	5.0476	1.231
22.00	1035.9	960.5	117.18	4.8636	1.073
23.00	1047.5	972.1	117.27	4.6957	1.097
24.00	1059.7	984.3	117.37	4.5417	1.123
25.00	1071.7	996.2	117.47	4.4000	1.148
26.00	1082.9	1007.5	117.57	4.2692	1.173
27.00	1094.0	1018.5	117.67	4.1481	1.197
28.00	1104.6	1029.1	117.76	4.0357	1.220
29.00	1114.7	1039.3	117.84	3.9310	1.243
30.00	1124.7	1049.3	117.93	3.8333	1.265
31.00	1134.2	1058.7	118.03	3.7419	1.286
32.00	1143.4	1068.0	118.10	3.6562	1.307
33.00	1152.3	1076.9	118.19	3.5758	1.328
34.00	1160.9	1085.4	118.27	3.5000	1.348
35.00	1169.2	1093.7	118.34	3.4286	1.367
36.00	1177.2	1101.7	118.43	3.3611	1.386
37.00	1184.9	1109.4	118.49	3.2973	1.404
38.00	1192.4	1116.9	118.55	3.2368	1.422
39.00	1199.7	1124.2	118.64	3.1795	1.439
40.00	1206.9	1131.4	118.69	3.1250	1.457
41.00	1213.8	1138.3	118.75	3.0732	1.473
42.00	1220.4	1144.9	118.81	3.0238	1.489
43.00	1226.8	1151.3	118.97	2.9767	1.505
44.00	1233.1	1157.7	118.94	2.9318	1.521
45.00	1239.3	1163.8	119.01	2.8889	1.536
46.00	1245.3	1169.9	119.05	2.8478	1.551
47.00	1251.0	1175.6	119.10	2.8085	1.565
48.00	1256.8	1181.4	119.16	2.7708	1.580
49.00	1262.1	1186.7	119.21	2.7347	1.593
50.00	1267.5	1192.0	119.27	2.7000	1.606
51.00	1272.6	1197.1	119.31	2.6667	1.619
52.00	1277.7	1202.3	119.34	2.6346	1.633
53.00	1282.6	1207.1	119.40	2.6038	1.645

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10777 DST#2 #2-3 Todd Midco Exp, Inc.

DATE: 04/04/98

TIME: 14:39:38

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	54.00	1287.3	1211.8	119.45	2.5741	1.657
	55.00	1291.8	1216.4	119.49	2.5455	1.669
	56.00	1296.4	1221.0	119.51	2.5179	1.681
	57.00	1300.8	1225.3	119.56	2.4912	1.692
	58.00	1305.0	1229.5	119.60	2.4655	1.703
	59.00	1309.1	1233.7	119.65	2.4407	1.714
	60.00	1313.0	1237.6	119.67	2.4167	1.724
	61.00	1317.0	1241.5	119.71	2.3934	1.734
	62.00	1320.8	1245.4	119.73	2.3710	1.745
	63.00	1324.6	1249.2	119.78	2.3492	1.755
	64.00	1328.1	1252.7	119.81	2.3281	1.764
	65.00	1331.7	1256.2	119.83	2.3077	1.773
	66.00	1335.1	1259.7	119.87	2.2879	1.783
	67.00	1338.4	1262.9	119.88	2.2687	1.791
	68.00	1341.6	1266.1	119.94	2.2500	1.800
	69.00	1344.8	1269.3	119.94	2.2319	1.808
	70.00	1347.9	1272.4	119.95	2.2143	1.817
	71.00	1350.9	1275.5	120.00	2.1972	1.825
	72.00	1353.7	1278.2	120.03	2.1806	1.832
	73.00	1356.5	1281.1	120.05	2.1644	1.840
	74.00	1359.3	1283.8	120.07	2.1486	1.848
	75.00	1362.1	1286.6	120.12	2.1333	1.855
	76.00	1364.7	1289.3	120.10	2.1184	1.863
	77.00	1367.2	1291.7	120.12	2.1039	1.869
	78.00	1369.8	1294.3	120.15	2.0897	1.876
	79.00	1372.2	1296.8	120.16	2.0759	1.883
	80.00	1374.6	1299.2	120.18	2.0625	1.890
	81.00	1376.9	1301.5	120.19	2.0494	1.896
	82.00	1379.2	1303.7	120.22	2.0366	1.902
	83.00	1381.3	1305.8	120.23	2.0241	1.908
	84.00	1383.5	1308.0	120.25	2.0119	1.914
	85.00	1385.6	1310.1	120.26	2.0000	1.920
	86.00	1387.7	1312.3	120.28	1.9884	1.926
	87.00	1389.8	1314.3	120.29	1.9770	1.931
	88.00	1391.7	1316.2	120.28	1.9659	1.937
	89.00	1393.7	1318.3	120.33	1.9551	1.942
***** End Shut-in 2	90.00	1395.5	1320.0	120.34	1.9444	1.947
***** Final Hydro.	371.00	2230.7	0.0	120.39		



4/4/88

GAS VOLUME REPORT

Nicks Exploration Inc.
OPERATOR

#2-3 Todd

WELL NAME AND NO

D. M.SS. Formations DST

DST NO

Tool open @ 16:50

GTS in 5 mins $\frac{3}{8}$ @ 12. 72,600

[illegible]

Remarks:

TRILOBITE TESTING L.L.C.

OPERATOR : Midco Exp, inc. DATE 4/7/98
WELL NAME: #2-3 Todd KB 2016.00 ft TICKET NO: 10778 DST #3
LOCATION : 3-33s-18w Comanche KS GR 2003.00 ft FORMATION: Viola
INTERVAL : 5689.00 To 5701.00 ft TD 5701.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	2350			PF Fr. 1330 to 1400 hr
SI 30 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 1400 to 1430 hr
SF 30 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1430 to 1500 hr
FS 60 Depth(ft)	5698.0	5698.0	5695.0	0.0	0.0	FS Fr. 1500 to 1600 hr

	Field	1	2	3	4	
A. Init Hydro	2753.0	2758.0	2769.0	0.0	0.0	T STARTED 1132 hr
B. First Flow	32.0	36.0	39.0	0.0	0.0	T ON BOTM 1327 hr
Bl. Final Flow	170.0	172.0	204.0	0.0	0.0	T OPEN 1330 hr
C. In Shut-in	2019.0	2009.0	1879.0	0.0	0.0	T PULLED 1600 hr
D. Init Flow	245.0	232.0	204.0	0.0	0.0	T OUT 1900 hr
E. Final Flow	287.0	289.0	283.0	0.0	0.0	
F. Fl Shut-in	1998.0	2012.0	1881.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2732.0	2697.0	2626.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 92000.00 lbs
						Initial Str Wt 82000.00 lbs
						Unseated Str Wt 88000.00 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 297.00 ft
						D.P. Length 5395.00 ft

RECOVERY

Tot Fluid 650.00 ft of 297.00 ft in DC and 353.00 ft in DP
600.00 ft of Slight mud cut water 5% mud 95% water
50.00 ft of Mud cut water 40% mud 60% water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

SALINITY 80000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Fair blow bottom of bucket in 14 mins
Initial Shut-in:
Bled down for 4 mins. blow back to 1/4"
Final Flow:
Fair blot bottom of bucket in 22 mins
Final Shut-in:
Bled down for 4 mins. no blow back

SAMPLES:
SENT TO:

Test Successful: Y

MUD DATA-----
Mud Type Chemical
Weight 9.10 lb/c
Vis. 58.00 S/L
W.L. 12.00 in3
F.C. 0.32 in
Mud Drop N
Amt. of fill 0.00 ft
Btm. H. Temp. 140.00 F
Hole Condition good
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00 n
Cushion Type none
Reversed Out- N
Tool Chased N
Tester Darren Amerine
Co. Rep. Tom Williams
Contr. Duke
Rig # 7
Unit # none
Pump T. 000

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: #2-3 Todd

LOCATION : 3-33s-18w Comanche KS

TICKET No. 10778 D.S.T. No. 3 DATE 4/7/98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 12

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands 5 Single Total 297

D.P. ABOVE TOOLS.Stands90 Single 1 Total 5395

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5734

TOTAL DEPTH 5701

TOTAL DRILL PIPE ABOVE K.B. 33

REMARKS:

P.O. SUB Top of tool @ 5662
C.O. SUB 5663

S.I. TOOL 5668

HMV 5673

JARS 5678

SAFETY JOINT 5680

PACKER 5684

PACKER 5689

DEPTH 5690

STUBB 1'stubb to 5690

ANCHOR 8'of perfs.to 5698

Alpine rec.@ 5695

T.C.
DEPTH

5698

Ak-1 rec.@5698

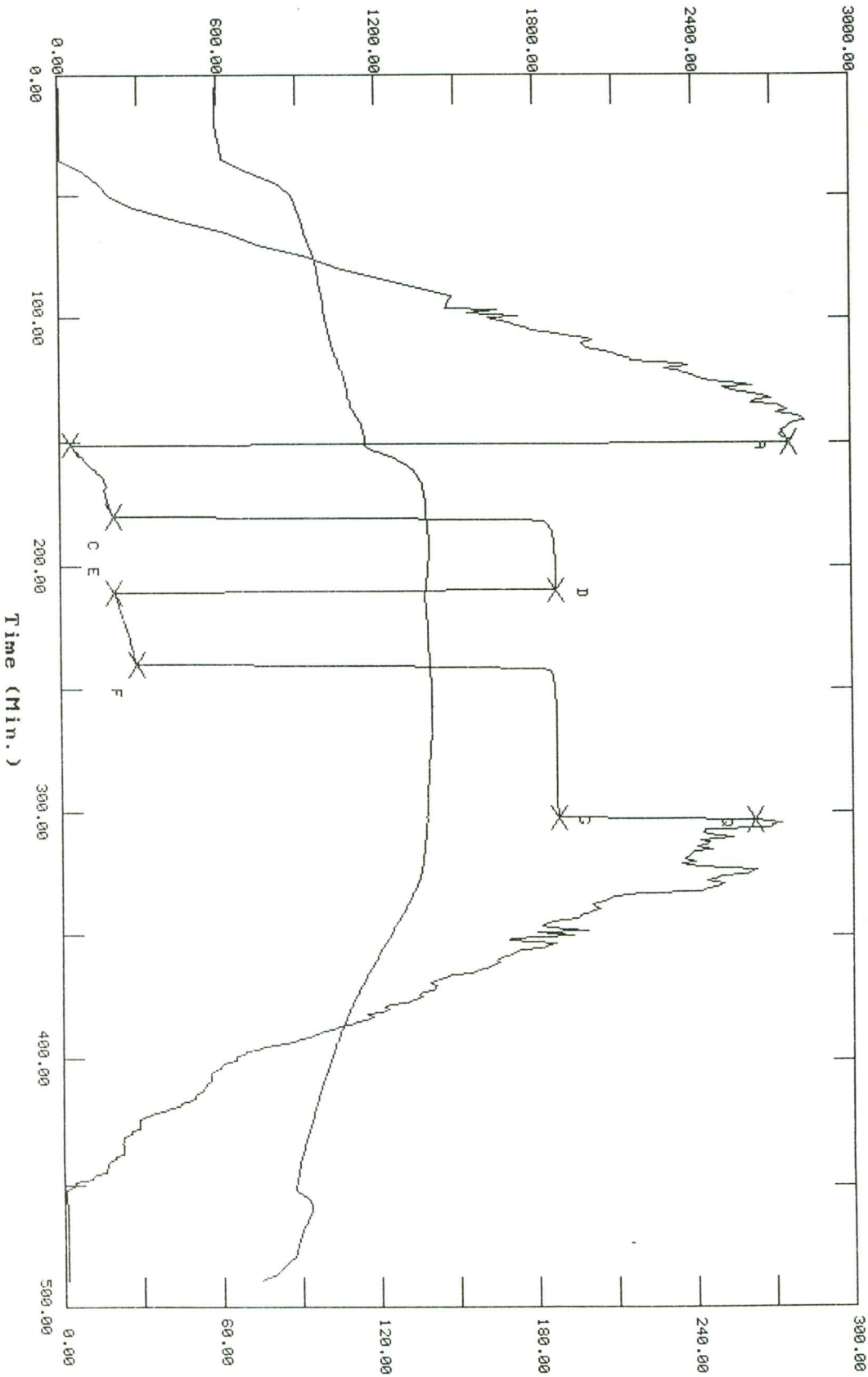
BULLNOSE 3'bullnose to 5701
T.D.

TEST HISTORY

TK#10778 DST#3 #2-3 Todd Nidco Exp, Inc.

Flag Points

t(min.)	P (PSig)
A: 0.00	2768.60
B: 0.00	39.02
C: 29.00	204.44
D: 30.00	1878.88
E: 0.00	204.27
F: 29.00	283.33
G: 62.00	1881.21
Q: 0.00	2626.18



 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: Tk#10778 DST#3 #2-3 Todd Midco Exp, Inc.
 DATE: 04/05/98 TIME: 10:34:59

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	150.00	2768.6	0.0	115.85		
***** Start Flow 1	0.00	39.0	0.0	115.89		
	1.00	45.8	6.8	116.57		
	2.00	53.5	14.4	118.30		
	3.00	61.4	22.4	120.76		
	4.00	69.7	30.7	123.42		
	5.00	79.9	40.9	125.89		
	6.00	89.7	50.7	128.00		
	7.00	98.7	59.7	129.77		
	8.00	108.3	69.3	131.26		
	9.00	116.7	77.6	132.49		
	10.00	127.9	88.9	133.50		
	11.00	137.6	98.6	134.37		
	12.00	146.4	107.4	135.09		
	13.00	157.8	118.8	135.73		
	14.00	164.2	125.2	136.25		
	15.00	168.1	129.1	136.68		
	16.00	172.0	132.9	137.06		
	17.00	175.7	136.7	137.38		
	18.00	163.1	124.1	137.61		
	19.00	166.6	127.6	137.84		
	20.00	169.9	130.9	138.05		
	21.00	173.1	134.0	138.23		
	22.00	176.7	137.7	138.38		
	23.00	179.8	140.8	138.48		
	24.00	182.8	143.8	138.56		
	25.00	185.9	146.9	138.64		
	26.00	189.4	150.4	138.69		
	27.00	192.4	153.3	138.72		
	28.00	195.1	156.1	138.75		
***** End Flow 1	29.00	204.4	165.4	138.76		
***** Start Shutin 1	0.00	204.4	0.0	138.76	0.0000	0.042
	1.00	1745.4	1541.0	138.83	30.0000	3.047
	2.00	1834.6	1630.1	138.93	15.5000	3.366
	3.00	1849.5	1645.1	139.07	10.6667	3.421
	4.00	1857.1	1652.6	139.15	8.2500	3.449
	5.00	1861.8	1657.3	139.27	6.8000	3.466
	6.00	1865.0	1660.5	139.36	5.8333	3.478
	7.00	1867.1	1662.7	139.43	5.1429	3.486
	8.00	1868.8	1664.4	139.49	4.6250	3.492
	9.00	1870.2	1665.8	139.53	4.2222	3.498
	10.00	1871.2	1666.8	139.55	3.9000	3.502
	11.00	1872.1	1667.6	139.59	3.6364	3.505
	12.00	1872.8	1668.4	139.56	3.4167	3.508
	13.00	1873.5	1669.1	139.58	3.2308	3.510
	14.00	1874.2	1669.7	139.57	3.0714	3.513
	15.00	1874.6	1670.2	139.54	2.9333	3.514
	16.00	1875.1	1670.7	139.50	2.8125	3.516
	17.00	1875.6	1671.2	139.46	2.7059	3.518
	18.00	1875.9	1671.5	139.41	2.6111	3.519
	19.00	1876.4	1671.9	139.36	2.5263	3.521

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10778 DST#3 #2-3 Todd Midco Exp, Inc.

DATE: 04/05/98

TIME: 10:34:59

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	20.00	1876.7	1672.3	139.29	2.4500	3.522
	21.00	1876.9	1672.4	139.22	2.3810	3.523
	22.00	1877.1	1672.7	139.13	2.3182	3.524
	23.00	1877.4	1672.9	139.03	2.2609	3.525
	24.00	1877.7	1673.3	138.93	2.2083	3.526
	25.00	1877.9	1673.4	138.81	2.1600	3.526
	26.00	1878.1	1673.7	138.70	2.1154	3.527
	27.00	1878.3	1673.9	138.59	2.0741	3.528
	28.00	1878.3	1673.9	138.49	2.0357	3.528
	29.00	1878.5	1674.0	138.44	2.0000	3.529
***** End Shut-in 1	30.00	1878.9	1674.4	138.34	1.9667	3.530
***** Start Flow 2	0.00	204.3	0.0	138.19		
	1.00	207.0	2.8	138.10		
	2.00	209.8	5.5	138.07		
	3.00	212.5	8.2	138.10		
	4.00	215.2	10.9	138.17		
	5.00	218.5	14.2	138.26		
	6.00	221.5	17.2	138.36		
	7.00	224.5	20.2	138.47		
	8.00	227.7	23.4	138.55		
	9.00	231.0	26.8	138.65		
	10.00	233.9	29.6	138.74		
	11.00	236.4	32.1	138.82		
	12.00	239.4	35.1	138.91		
	13.00	242.0	37.7	138.97		
	14.00	245.4	41.1	139.03		
	15.00	248.1	43.8	139.08		
	16.00	250.9	46.7	139.14		
	17.00	253.7	49.4	139.19		
	18.00	256.4	52.1	139.22		
	19.00	259.6	55.3	139.26		
	20.00	261.8	57.5	139.31		
	21.00	264.2	59.9	139.35		
	22.00	266.5	62.3	139.38		
	23.00	269.0	64.7	139.42		
	24.00	271.2	67.0	139.44		
	25.00	274.0	69.7	139.46		
	26.00	276.4	72.2	139.49		
	27.00	278.8	74.5	139.49		
	28.00	281.0	76.7	139.51		
***** End Flow 2	29.00	283.3	79.1	139.52		
***** Start Shutin 2	0.00	283.3	0.0	139.52	0.0000	0.080
	1.00	1172.4	889.0	139.56	59.0000	1.374
	2.00	1832.5	1549.1	139.64	30.0000	3.358
	3.00	1851.9	1568.6	139.74	20.3333	3.430
	4.00	1859.7	1576.3	139.86	15.5000	3.458
	5.00	1864.2	1580.9	139.97	12.6000	3.475
	6.00	1867.0	1583.6	140.06	10.6667	3.486
	7.00	1869.0	1585.6	140.14	9.2857	3.493
	8.00	1870.7	1587.3	140.19	8.2500	3.499
	9.00	1871.7	1588.3	140.25	7.4444	3.503

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10778 DST#3 #2-3 Todd Midco Exp, Inc.

DATE: 04/05/98

TIME: 10:34:59

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
10.00	1872.6	1589.3	140.30	6.8000	3.507
11.00	1873.3	1589.9	140.34	6.2727	3.509
12.00	1874.0	1590.7	140.38	5.8333	3.512
13.00	1874.5	1591.2	140.42	5.4615	3.514
14.00	1875.0	1591.7	140.43	5.1429	3.516
15.00	1875.5	1592.2	140.45	4.8667	3.518
16.00	1875.9	1592.6	140.48	4.6250	3.519
17.00	1876.3	1593.0	140.48	4.4118	3.520
18.00	1876.6	1593.3	140.50	4.2222	3.522
19.00	1876.9	1593.5	140.47	4.0526	3.523
20.00	1877.1	1593.8	140.45	3.9000	3.524
21.00	1877.4	1594.0	140.45	3.7619	3.525
22.00	1877.5	1594.2	140.43	3.6364	3.525
23.00	1877.7	1594.4	140.40	3.5217	3.526
24.00	1878.0	1594.7	140.37	3.4167	3.527
25.00	1878.2	1594.9	140.33	3.3200	3.528
26.00	1878.4	1595.0	140.28	3.2308	3.528
27.00	1878.6	1595.3	140.23	3.1481	3.529
28.00	1878.7	1595.4	140.16	3.0714	3.530
29.00	1878.9	1595.6	140.09	3.0000	3.530
30.00	1879.0	1595.6	140.06	2.9333	3.531
31.00	1879.1	1595.7	139.97	2.8710	3.531
32.00	1879.3	1596.0	139.91	2.8125	3.532
33.00	1879.4	1596.1	139.83	2.7576	3.532
34.00	1879.5	1596.1	139.75	2.7059	3.532
35.00	1879.6	1596.2	139.68	2.6571	3.533
36.00	1879.6	1596.3	139.61	2.6111	3.533
37.00	1879.8	1596.5	139.53	2.5676	3.534
38.00	1879.8	1596.5	139.45	2.5263	3.534
39.00	1880.0	1596.7	139.40	2.4872	3.535
40.00	1880.0	1596.7	139.37	2.4500	3.535
41.00	1880.1	1596.8	139.29	2.4146	3.535
42.00	1880.1	1596.8	139.21	2.3810	3.535
43.00	1880.2	1596.9	139.16	2.3488	3.535
44.00	1880.3	1597.0	139.10	2.3182	3.536
45.00	1880.4	1597.1	139.04	2.2889	3.536
46.00	1880.5	1597.1	138.98	2.2609	3.536
47.00	1880.6	1597.3	138.92	2.2340	3.537
48.00	1880.6	1597.3	138.86	2.2083	3.537
49.00	1880.7	1597.4	138.82	2.1837	3.537
50.00	1880.8	1597.5	138.78	2.1600	3.537
51.00	1880.8	1597.5	138.72	2.1373	3.537
52.00	1880.8	1597.5	138.67	2.1154	3.537
53.00	1880.9	1597.5	138.60	2.0943	3.538
54.00	1881.0	1597.6	138.58	2.0741	3.538
55.00	1881.0	1597.6	138.54	2.0545	3.538
56.00	1881.0	1597.6	138.48	2.0357	3.538
57.00	1881.1	1597.7	138.44	2.0175	3.538
58.00	1881.1	1597.7	138.39	2.0000	3.538
59.00	1881.3	1598.0	138.34	1.9831	3.539
60.00	1881.2	1597.9	138.31	1.9667	3.539

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10778 DST#3 #2-3 Todd Midco Exp, Inc.

DATE: 04/05/98

TIME: 10:34:59

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** End Shut-in 2	61.00	1881.2	1597.9	138.28	1.9508	3.539
	62.00	1881.2	1597.9	138.24	1.9355	3.539
***** Final Hydro.	303.00	2626.2	0.0	138.25		