

FORM MUST BE TYPED

ORIGINAL

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND CASE

CONFIDENTIAL

Operator: License # 5144

Name: Mull Drilling Company, Inc.

Address P.O. Box 2758

City/State/Zip Wichita KS 67201

Purchaser: N/A

Operator Contact Person: Scott Hampel

Phone (316) 264-6366 ext. 12

Contractor: Name: Pickrell Drilling Co., Inc.

License: 5123

Wellsite Geologist: William M. Stout

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBTB

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

11/25/97 12/2/97 12/2/97

Spud Date 11/25/97 Date Reached TD 12/2/97 Completion Date 12/2/97

API NO. 15- 137-20405-00-00

County Norton plugged 12/2/97

255' South of _____

N2 - NW - NW Sec. 5 Twp. 3S Rge. 25 X E

585 Feet from S (circle one) Line of Section

660 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, N or SW (circle one)

Lease Name Kennedy Well # 1-5

Field Name Wildcat

Producing Formation N/A

Elevation: Ground 2558' KB 2563'

Total Depth 3967' PBTB _____

Amount of Surface Pipe Set and Cemented at 344 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 344

feet depth to Surface w/ 225 sx cmt.

Drilling Fluid Management Plan D&A JK 8-24-98
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name JAN 13

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

CONFIDENTIAL

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Scott Hampel

Title VP-Production & Engineering Date 1/12/98

Subscribed and sworn to before me this 12th day of January 1998

Notary Public Tannis L. Tritt

Date Commission Expires March 26, 1999

TANNIS L. TRITT
Notary Public - State of Kansas
My Appt. Expires 3-26-99

RECEIVED
01-14-98
JAN 14 1998

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Geologist Report Received

Distribution

KCC SWD/Rep NGPA

KGS Plug Other (Specify)

ORIGINAL Kennedy

Operator Name Mull Drilling Company, Inc.

Lease Name

Well #

East West

County Norton

Sec. 5 Twp. 3S Rge. 25

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)
Samples Sent to Geological Survey
Cores Taken
Electric Log Run (Submit Copy.)
List All E.Logs Run:

Table with columns: Log, Formation (Top), Depth and Datums, Sample. Rows include Anhydrite, Topeka, Heebner, Toronto, Lansing, B/KC, Arbuckle, Reagan, LTD.

ELI WIRELINE SERVICES:
Compensated Density Neutron Log and
Dual Induction Log

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Table with columns: Purpose of String, Size Hole Drilled, Size Casing Set (In O.D.), Weight Lbs./Ft., Setting Depth, Type of Cement, # Sacks Used, Type and Percent Additives.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Table with columns: Purpose: P&A, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives.

Table with columns: Shots Per Foot, PERFORATION RECORD - Bridge Plugs Set/Type, Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used), Depth.

Table with columns: TUBING RECORD, Size, Set At, Packer At, Liner Run Yes No.

Table with columns: Date of First, Resumed Production, SWD or Inj., Producing Method, Flowing, Pumping, Gas Lift, Other (Explain).

Table with columns: Estimated Production Per 24 Hours, Oil, Bbls., Gas, Mcf, Water, Bbls., Gas-Oil Ratio, Gravity.

Disposition of Gas: Vented, Sold, Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole, Perf., Dually Comp., Commingled, Other (Specify)

Production Interval

CONFIDENTIAL

WILLIAM M. STOUT
101 SOUTH STAR STREET
EL DORADO, KANSAS 67042
(316) 321-1270

ORIGINAL

GEOLOGICAL REPORT

15-137-20405-00-00

Kennedy #1-5
585' FNL & 660' FWL Sec. 5-T3S-R25W
Norton County, Kansas
2558 G.L. 2563 K.B.

OPERATOR:	Mull Drilling Company	KCC
CONTRACTOR:	Pickrell Drilling Company	JAN 13
COMMENCED:	November 24, 1997	CONFIDENTIAL
COMPLETED:	December 2, 1997	
SURFACE CASING:	8 5/8" casing @ 344' with 225 sacks cement.	
PRODUCTION CASING:	None	
SAMPLE DEPTHS:	10' samples were examined from 3000' to 3967' R.T.D.	
DRILLING TIME:	1' drilling time kept from 3000' to 3967' R.T.D.	

FORMATION LOG TOPS
(Kelly Bushing Elevation)

Anhydrite	2111 +452
Topeka	3307 -744
Heebner	3477 -914
Toronto	3510 -947
Lansing	3522 -959
Base Kansas City	3721 -1158
Arbuckle	3910 -1347
Reagan	3921 -1358
Total Depth	3967 -1404

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JAN 29 1999

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATE COMMISSION

JAN 14 1998

COMMISSIONER'S OFFICE

SAMPLE DESCRIPTIONS

(Depths are drilling time measurements)

Oread 3448' (-885)

3453' - 3458'

Limestone, light brown to white, fine crystalline, fossiliferous, chalky, no odor, scattered vugular porosity with heavy dark stain, no show free oil, no fluorescence.

Toronto 3510' (-947)

3511' - 3512'

Limestone, light brown, fine crystalline, fossiliferous, trace oolitic, chalky, no odor, trace poor intercrystalline porosity, 2 - 3 pieces with dark brown to black stain, no other shows.

Lansing 3522' (-959)

3526' - 3530'

Limestone, light brown to light gray to white, fine crystalline, fossiliferous, dense, chalky, faint odor, slight show free oil - dark brown, scattered poor intercrystalline porosity and vugular porosity with dark stain, no fluorescence. Covered by DST #1.

3550' - 3554'

Limestone, light gray, fine crystalline, fossiliferous, fair odor, fair show free oil - dark brown, scattered fair to good intercrystalline porosity, some vugular porosity, with dark brown saturated stain, no fluorescence. Covered by DST #1.

3570' - 3572'

Limestone, light brown, fine crystalline, fossiliferous, dense, no odor, slight show free oil - brown, trace scattered intercrystalline porosity and vugular porosity with brown stain, dull fluorescence. Covered by DST #1.

DST #1 3513' - 3575'

Open tool 30 min. with weak blow building to 1 1/2 inches. Close tool 45 min. Open tool 45 min. with weak blow building to 1/4 inch. Close tool 90 min. Recovered 2' clean oil, 63' slightly oil cut mud (10% oil, 90% mud).

IFP 44 - 44#

FFP 44 - 44#

ISIP 296#

FSIP 121#

HP 1800 - 1778#

Temperature 96 degrees

3644' - 3648'

Limestone, light brown, fine crystalline, fossiliferous, dense, cherty, no odor, 1 piece with poor intercrystalline porosity bleeding oil - dark brown to black, no fluorescence.

Gorham 3870' (-1307)

3872' - 3878'

Sandstone, light gray to clear, fine grained quartz clusters, some with calcite cement, fair sort, sub-angular, no odor, scattered flaky black dead oil stain, trace black oil, poor intergranular porosity.

STATE COPY
JAN 14 1958

COPIES OF THIS REPORT
AVAILABLE FROM

15-137-20405-00-00

SUMMARY

Upon the conclusion of drilling an open hole log suite was ran from 3967' RTD to 3000'. All zones indicating oil shows that were not drill stem tested were indicated to be tight or wet and not capable of commercial production. The hole was plugged as dry and abandoned.

Respectfully Submitted,

Bill Stout

William M. Stout
Geologist

RECEIVED
STATE COMMISSION

JAN 14 1998

STATE COMMISSION

ALLIED CEMENTING CO., INC.

8664

Federal Tax I.D.#

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT:

OAKLEY

DATE <u>11-24-97</u>	SEC. <u>5</u>	TWP. <u>3S</u>	RANGE <u>25W</u>	CALLED OUT	ON LOCATION <u>9:45 PM</u>	JOB START <u>11:30 AM</u>	JOB FINISH <u>12:00 AM</u>
LEASE <u>KENNEDY</u>	WELL# <u>1-5</u>	LOCATION <u>NORCATUR TE-5E140</u>			COUNTY <u>NORTON</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR PICKRELL DRUG. OWNER JAME

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 347' CEMENT

CASING SIZE 8 7/8" DEPTH 347' AMOUNT ORDERED 225 SKS 60/40 10238 @ 2866L

TUBING SIZE DEPTH

DRILL PIPE DEPTH **CONFIDENTIAL**

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15' **RELEASED**

PERFS. **JAN 29 1999**

DISPLACEMENT 2 1/4 BAL.

EQUIPMENT

PUMP TRUCK CEMENTER FERRY FROM CONFIDENTIAL

300 HELPER WAYNE

BULK TRUCK

212 DRIVER LONNIE

BULK TRUCK

DRIVER

COMMON 135 SKS @ 755 1,019 25

POZMIX 90 SKS @ 325 292 50

DEL 4 SKS @ 950 38 00

CHLORIDE 7 SKS @ 28 00 196 00

@

@

@

@

HANDLING 225 SKS @ 105 236 25

MILEAGE 4¢ per SK/mile 684 00

NCC

TOTAL 2,466 00

JAN 13

REMARKS:

CONFIDENTIAL

SERVICE

DEPTH OF JOB 347'

PUMP TRUCK CHARGE 470 00

EXTRA FOOTAGE 47' @ 43¢ 20 21

MILEAGE 76 miles @ 2 25 216 60

PLUG 8 7/8 SURFACE @ 45 00

@

@

TOTAL 751 81

CHARGE TO: Mull DRUG CO, INC.

STREET P.O. Box 421

CITY Ness City STATE Kan ZIP 67560

FLOAT EQUIPMENT

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Boyle J. Pratt

RECEIVED
STATE OF KANSAS
TAXATION

JAN 14 1998

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME

ALLIED CEMENTING CO., INC.

4646

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT:

Neosho City

DATE <u>12-1-97</u>	SEC. <u>5</u>	TWP. <u>3</u>	RANGE <u>25</u>	CALLED OUT <u>11:00AM</u>	ON LOCATION <u>3:00AM</u>	JOB START <u>6:30AM</u>	JOB FINISH <u>9:45AM</u>
LEASE <u>Kennedy</u>		WELL # <u>1-5</u>	LOCATION <u>Norcaten 1 E. 5 S.</u>		COUNTY <u>Newton</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one)

CONTRACTOR <u>Richard D. Dalg</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Rotary Plus</u>	CEMENT
HOLE SIZE <u>7 7/8 T.D.</u>	<u>3967</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	

AMOUNT ORDERED	<u>190 6 3/4 6 total</u>
COMMON	<u>114 @ 7.55 = 860.70</u>
POZMIX	<u>76 @ 3.25 = 247.00</u>
GEL	<u>10 @ 9.50 = 95.00</u>
CHLORIDE	@
	@
	@
	@
	@
HANDLING	<u>190 @ 1.20 = 228.00</u>
MILEAGE	<u>76 @ = 577.60</u>

CONFIDENTIAL

JAN 29 1999

EQUIPMENT	FROM CONFIDENTIAL
PUMP TRUCK # <u>224</u>	CEMENTER <u>J. Weathers</u>
BULK TRUCK # <u>311</u>	HELPER <u>B. White</u>
BULK TRUCK #	DRIVER <u>B. Norton</u>
BULK TRUCK #	DRIVER

JAN 13

TOTAL \$ 2008.30

CONFIDENTIAL

REMARKS:

SERVICE

<u>25 x e</u>	<u>2150</u>
<u>100 x e</u>	<u>1480</u>
<u>40 x e</u>	<u>400</u>
<u>10 x e</u>	<u>40</u>
<u>15 x RH</u>	

DEPTH OF JOB	<u>2150</u>
PUMP TRUCK CHARGE	<u>685.00</u>
EXTRA FOOTAGE	@
MILEAGE	<u>76 @ 2.85 = 216.60</u>
PLUG	<u>Top Wood @ 23.00 = 23.00</u>
	@
	@

TOTAL \$ 924.60

Thanks

CHARGE TO: Mull Dalg Co. Inc.
 STREET PO Box 2758
 CITY Wichita STATE Ko ZIP 67201

FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

STATE

JAN 14 1999

TAX	<u>-0-</u>
TOTAL CHARGE	<u>\$ 2932.90</u>
DISCOUNT	<u>\$ 439.83</u> IF PAID IN 30 DAYS

Net \$ 2493.07

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Richard F...

15-137 - 20405-00-00

CONFIDENTIAL

WELL NAME: Kennedy #1-5
COMPANY: Mull Drilling Co., Inc.
LOCATION: 5-3S-25W
Norton County, Kansas
DATE: 12/2/97

15-137-20405

JAN 13

ORIGINAL

CONFIDENTIAL

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

15-137-20405-00-00

TRILOBITE TESTING L.L.C.

OPERATOR : Mull Drilling Co. Inc.

DATE 11/29/97

WELL NAME: Kennedy #1-5

KB 2563.00 ft

TICKET NO: 10560

DST #1

LOCATION : 05-03S-25W Norton Co. KS

GR 2558.00 ft

FORMATION: Lansing "A-B"

INTERVAL : 3513.00 To 3575.00 ft

TD 3575.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	Alpine			PF Fr. 1610 to 1640 hr
SI 45 Range(Psi)	4300.0	4300.0	4995.0	0.0	0.0	IS Fr. 1640 to 1725 hr
SF 45 Clock(hrs)	12hr	12hr	Elec			SF Fr. 1725 to 1810 hr
FS 90 Depth(ft)	3517.0	3517.0	3550.0	0.0	0.0	FS Fr. 1810 to 1940 hr

	Field	1	2	3	4	
A. Init Hydro	1800.0	1756.0	1767.0	0.0	0.0	T STARTED 1415 hr
B. First Flow	44.0	27.0	26.0	0.0	0.0	T ON BOTM 1608 hr
B1. Final Flow	44.0	27.0	39.0	0.0	0.0	T OPEN 1610 hr
C. In Shut-in	296.0	296.0	335.0	0.0	0.0	T PULLED 1940 hr
D. Init Flow	44.0	38.0	48.0	0.0	0.0	T OUT 2151 hr
E. Final Flow	44.0	42.0	56.0	0.0	0.0	
F. Fl Shut-in	121.0	124.0	167.0	0.0	0.0	
G. Final Hydro	1778.0	1724.0	1716.0	0.0	0.0	
Inside/Outside	O	O	I	B		

TOOL DATA-----

Tool Wt.	2900.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	95000.00 lbs
Initial Str Wt	58000.00 lbs
Unseated Str Wt	58000.00 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	173.00 ft
D.P. Length	3320.00 ft
H.W. I.D	2.70 in

RECOVERY

Tot Fluid 65.00 ft of 65.00 ft in DC and 0.00 ft in DP
 2.00 ft of clean oil
 63.00 ft of slighty oil cut mud 10% oil 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

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

MUD DATA-----

Mud Type	Chemical
Weight	9.50 lb/c
Vis.	47.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	

BLOW DESCRIPTION

Initial Flow-
 tool slid 2' when opening--weak
 1" blow building to 1 1/2"
 Initial Shutin-
 no blow
 Final Flow-
 weak surface blow building to 1/4"

Final Shutin-
 no blow
 picked tool to high on initial shut-in

SAMPLES:

SENT TO:

Amt. of fill	0.00 ft
Btm. H. Temp.	96.00 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

15-137-20405-00-00

*** TOOL DIAGRAM *** CONV

WELL NAME: Kennedy #1-5

LOCATION : 05-03S-25W Norton Co. KS

TICKET No. 10560 D.S.T. No. 1 DATE 11/29/97

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 Total

D.P. ANCHOR STND.Stands Single 1 Total 32

TOTAL ASSEMBLY 89

D.C. ABOVE TOOLS.Stands3 Single Total 173

D.P. ABOVE TOOLS.Stands Single Total 3320

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3582

TOTAL DEPTH 3575

TOTAL DRILL PIPE ABOVE K.B. 7

REMARKS:
Sampler Data

P.O. SUB	
C.O. SUB Top of tool @	3487
S.I. TOOL Sterling	3493
HMV Sterling	3498
JARS Sterling	3502
SAFETY JOINT Bowen	3504
PACKER Top	3508
PACKER Bottom	3513
DEPTH 3513	
STUBB 1'	3514
ANCHOR	
2' perf	3516
Alpine rec. @3517	
1 joint of pipe & sub to	3550
Alpine rec@ 3550	
5' perf	3555
5' perf	3560
T.C. DEPTH	
5' perf	3565
5' perf	3570
BULLNOSE 5' bullplug	
T.D. to	3575

15-137-20405-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97 TIME: 13:19:34

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	170.50	1766.5	0.0	89.53		
***** Start Flow 1	0.00	26.3	0.0	89.50		
	0.50	27.9	1.6	89.49		
	1.00	28.8	2.5	89.45		
	1.50	29.6	3.2	89.42		
	2.00	30.2	3.9	89.39		
	2.50	30.7	4.4	89.36		
	3.00	31.1	4.8	89.33		
	3.50	31.5	5.1	89.30		
	4.00	31.9	5.6	89.28		
	4.50	32.0	5.7	89.26		
	5.00	32.3	5.9	89.24		
	5.50	32.6	6.3	89.22		
	6.00	32.9	6.6	89.22		
	6.50	33.0	6.6	89.20		
	7.00	33.2	6.8	89.19		
	7.50	33.3	7.0	89.19		
	8.00	33.5	7.2	89.19		
	8.50	33.6	7.3	89.18		
	9.00	33.8	7.4	89.18		
	9.50	34.0	7.7	89.18		
	10.00	34.1	7.8	89.19		
	10.50	34.2	7.8	89.19		
	11.00	34.2	7.8	89.19		
	11.50	34.1	7.7	89.20		
	12.00	34.1	7.8	89.21		
	12.50	34.1	7.8	89.20		
	13.00	34.2	7.8	89.21		
	13.50	34.2	7.8	89.22		
	14.00	34.3	7.9	89.23		
	14.50	34.3	7.9	89.23		
	15.00	34.5	8.1	89.24		
	15.50	34.6	8.3	89.25		
	16.00	34.7	8.4	89.25		
	16.50	34.8	8.4	89.26		
	17.00	34.9	8.6	89.27		
	17.50	35.0	8.7	89.27		
	18.00	35.2	8.8	89.28		
	18.50	35.4	9.1	89.29		
	19.00	35.5	9.2	89.30		
	19.50	35.5	9.2	89.32		
	20.00	35.6	9.3	89.32		
	20.50	35.7	9.4	89.33		
	21.00	35.8	9.4	89.34		
	21.50	35.8	9.5	89.35		
	22.00	36.0	9.7	89.36		
	22.50	36.1	9.7	89.37		
	23.00	36.1	9.8	89.38		
	23.50	36.3	10.0	89.39		
	24.00	36.5	10.1	89.39		
	24.50	36.8	10.5	89.40		

15-137-20405-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97 TIME: 13:19:34

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	25.00	36.9	10.6	89.41		
	25.50	37.1	10.7	89.43		
	26.00	37.1	10.8	89.43		
	26.50	37.2	10.8	89.44		
	27.00	37.0	10.7	89.45		
	27.50	36.6	10.3	89.46		
	28.00	36.6	10.2	89.47		
	28.50	37.3	10.9	89.48		
	29.00	37.8	11.4	89.49		
	29.50	38.0	11.7	89.50		
	30.00	38.1	11.8	89.51		
	30.50	37.8	11.4	89.52		
	31.00	38.1	11.8	89.52		
	31.50	38.5	12.2	89.53		
***** End Flow 1	32.00	39.3	13.0	89.54		
***** Start Shutin 1	0.00	39.3	0.0	89.54	0.0000	0.002
	0.50	155.8	116.5	89.55	65.0000	0.024
	1.00	153.1	113.8	89.57	33.0000	0.023
	1.50	152.3	112.9	89.58	22.3333	0.023
	2.00	152.1	112.8	89.59	17.0000	0.023
	2.50	152.2	112.9	89.60	13.8000	0.023
	3.00	152.6	113.3	89.61	11.6667	0.023
	3.50	153.0	113.6	89.63	10.1429	0.023
	4.00	153.8	114.5	89.64	9.0000	0.024
	4.50	154.6	115.3	89.65	8.1111	0.024
	5.00	155.7	116.4	89.66	7.4000	0.024
	5.50	156.7	117.4	89.67	6.8182	0.025
	6.00	157.9	118.6	89.69	6.3333	0.025
	6.50	159.3	120.0	89.70	5.9231	0.025
	7.00	160.6	121.3	89.71	5.5714	0.026
	7.50	161.9	122.6	89.71	5.2667	0.026
	8.00	163.4	124.1	89.73	5.0000	0.027
	8.50	164.8	125.4	89.74	4.7647	0.027
	9.00	166.6	127.3	89.74	4.5556	0.028
	9.50	168.1	128.8	89.75	4.3684	0.028
	10.00	169.8	130.4	89.76	4.2000	0.029
	10.50	171.3	132.0	89.77	4.0476	0.029
	11.00	173.1	133.7	89.78	3.9091	0.030
	11.50	174.8	135.4	89.79	3.7826	0.031
	12.00	176.6	137.3	89.80	3.6667	0.031
	12.50	178.3	138.9	89.81	3.5600	0.032
	13.00	180.0	140.7	89.82	3.4615	0.032
	13.50	182.0	142.6	89.83	3.3704	0.033
	14.00	183.7	144.4	89.84	3.2857	0.034
	14.50	185.7	146.4	89.84	3.2069	0.034
	15.00	187.7	148.3	89.85	3.1333	0.035
	15.50	189.6	150.3	89.85	3.0645	0.036
	16.00	191.5	152.2	89.87	3.0000	0.037
	16.50	193.5	154.2	89.87	2.9394	0.037
	17.00	195.5	156.1	89.89	2.8824	0.038
	17.50	197.6	158.3	89.90	2.8286	0.039

15-137-20 405-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
18.00	199.6	160.3	89.91	2.7778	0.040
18.50	201.7	162.4	89.91	2.7297	0.041
19.00	203.7	164.4	89.92	2.6842	0.042
19.50	205.9	166.6	89.93	2.6410	0.042
20.00	208.1	168.8	89.94	2.6000	0.043
20.50	210.2	170.9	89.95	2.5610	0.044
21.00	212.3	173.0	89.96	2.5238	0.045
21.50	214.4	175.1	89.97	2.4884	0.046
22.00	216.8	177.4	89.98	2.4545	0.047
22.50	219.0	179.7	89.99	2.4222	0.048
23.00	221.1	181.8	90.00	2.3913	0.049
23.50	223.5	184.1	90.01	2.3617	0.050
24.00	225.8	186.4	90.00	2.3333	0.051
24.50	228.1	188.8	90.02	2.3061	0.052
25.00	230.4	191.0	90.03	2.2800	0.053
25.50	232.7	193.4	90.04	2.2549	0.054
26.00	235.1	195.8	90.05	2.2308	0.055
26.50	237.6	198.3	90.06	2.2075	0.056
27.00	240.0	200.6	90.07	2.1852	0.058
27.50	242.5	203.2	90.08	2.1636	0.059
28.00	245.0	205.7	90.09	2.1429	0.060
28.50	247.7	208.3	90.09	2.1228	0.061
29.00	250.2	210.9	90.10	2.1034	0.063
29.50	252.9	213.6	90.11	2.0847	0.064
30.00	255.7	216.3	90.12	2.0667	0.065
30.50	258.3	219.0	90.13	2.0492	0.067
31.00	261.1	221.7	90.13	2.0323	0.068
31.50	263.9	224.6	90.14	2.0159	0.070
32.00	266.6	227.2	90.15	2.0000	0.071
32.50	269.3	230.0	90.16	1.9846	0.073
33.00	272.1	232.8	90.18	1.9697	0.074
33.50	274.9	235.6	90.17	1.9552	0.076
34.00	277.7	238.4	90.19	1.9412	0.077
34.50	280.6	241.3	90.20	1.9275	0.079
35.00	283.5	244.2	90.21	1.9143	0.080
35.50	286.4	247.1	90.22	1.9014	0.082
36.00	289.3	250.0	90.23	1.8889	0.084
36.50	292.1	252.8	90.24	1.8767	0.085
37.00	295.2	255.8	90.24	1.8649	0.087
37.50	298.2	258.9	90.25	1.8533	0.089
38.00	301.1	261.8	90.26	1.8421	0.091
38.50	304.2	264.8	90.27	1.8312	0.093
39.00	307.2	267.9	90.28	1.8205	0.094
39.50	311.1	271.8	90.28	1.8101	0.097
40.00	314.8	275.5	90.30	1.8000	0.099
40.50	317.8	278.5	90.31	1.7901	0.101
41.00	320.9	281.6	90.31	1.7805	0.103
41.50	324.2	284.8	90.33	1.7711	0.105
42.00	327.3	288.0	90.33	1.7619	0.107
42.50	330.4	291.1	90.34	1.7529	0.109
43.00	333.6	294.3	90.35	1.7442	0.111

15-137-20405-60-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

11/29/97

TIME: 13:19:34

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
*** End Shut-in 1	43.50	334.5	295.2	90.36	1.7356	0.112
*** Start Flow 2	0.00	47.5	0.0	90.37		
	0.50	1774.2	1726.7	90.41		
	1.00	1766.9	1719.4	90.45		
	1.50	49.5	2.0	90.46		
	2.00	49.9	2.4	90.46		
	2.50	50.1	2.6	90.46		
	3.00	50.5	2.9	90.46		
	3.50	50.7	3.1	90.46		
	4.00	50.8	3.3	90.47		
	4.50	50.9	3.4	90.48		
	5.00	51.1	3.6	90.49		
	5.50	51.2	3.6	90.50		
	6.00	51.1	3.6	90.50		
	6.50	51.2	3.6	90.51		
	7.00	51.2	3.7	90.51		
	7.50	51.2	3.7	90.52		
	8.00	51.1	3.6	90.53		
	8.50	51.2	3.7	90.53		
	9.00	51.1	3.6	90.54		
	9.50	51.4	3.9	90.54		
	10.00	51.5	3.9	90.55		
	10.50	51.7	4.2	90.55		
	11.00	51.7	4.2	90.56		
	11.50	51.7	4.2	90.56		
	12.00	51.9	4.3	90.57		
	12.50	51.8	4.3	90.57		
	13.00	52.0	4.4	90.58		
	13.50	51.9	4.4	90.58		
	14.00	52.1	4.6	90.59		
	14.50	52.1	4.6	90.59		
	15.00	52.1	4.6	90.60		
	15.50	52.3	4.7	90.60		
	16.00	52.4	4.8	90.61		
	16.50	52.4	4.8	90.61		
	17.00	52.4	4.8	90.62		
	17.50	52.5	5.0	90.63		
	18.00	52.6	5.1	90.63		
	18.50	52.6	5.1	90.64		
	19.00	52.8	5.3	90.63		
	19.50	52.8	5.2	90.64		
	20.00	52.9	5.4	90.65		
	20.50	52.9	5.4	90.66		
	21.00	53.0	5.5	90.66		
	21.50	53.0	5.5	90.67		
	22.00	53.2	5.6	90.67		
	22.50	53.2	5.7	90.67		
	23.00	53.4	5.9	90.68		
	23.50	53.4	5.9	90.69		
	24.00	53.5	5.9	90.69		
	24.50	53.5	6.0	90.70		

15-137-20405-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97 TIME: 13:19:34

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
25.00	53.5	6.0	90.70			
25.50	53.5	6.0	90.71			
26.00	53.5	6.0	90.72			
26.50	53.5	6.0	90.72			
27.00	53.6	6.1	90.72			
27.50	53.7	6.2	90.72			
28.00	53.7	6.2	90.73			
28.50	53.7	6.2	90.74			
29.00	53.8	6.3	90.74			
29.50	53.9	6.4	90.75			
30.00	53.8	6.3	90.76			
30.50	53.9	6.4	90.76			
31.00	53.9	6.4	90.77			
31.50	54.0	6.5	90.77			
32.00	54.0	6.5	90.79			
32.50	54.1	6.6	90.79			
33.00	54.2	6.7	90.79			
33.50	54.2	6.7	90.80			
34.00	54.3	6.8	90.81			
34.50	54.4	6.9	90.81			
35.00	54.4	6.9	90.82			
35.50	54.3	6.8	90.82			
36.00	54.4	6.9	90.83			
36.50	54.5	7.0	90.84			
37.00	54.6	7.0	90.85			
37.50	54.6	7.1	90.85			
38.00	54.6	7.1	90.85			
38.50	54.7	7.2	90.86			
39.00	54.7	7.2	90.87			
39.50	54.7	7.2	90.88			
40.00	54.8	7.3	90.88			
40.50	54.9	7.3	90.89			
41.00	54.9	7.3	90.90			
41.50	54.9	7.4	90.90			
42.00	55.0	7.5	90.91			
42.50	55.1	7.5	90.92			
43.00	55.1	7.6	90.92			
43.50	55.2	7.7	90.93			
44.00	55.2	7.7	90.94			
44.50	55.3	7.8	90.94			
45.00	55.4	7.9	90.95			
45.50	55.4	7.8	90.95			
46.00	55.7	8.2	90.96			
46.50	56.3	8.8	90.96			
***** End Flow 2						
***** Start Shutin 2	0.00	56.3	0.0	90.96	0.0000	0.003
	0.50	56.8	0.5	90.97	158.0000	0.003
	1.00	57.4	1.0	90.98	79.5000	0.003
	1.50	57.9	1.6	90.99	53.3333	0.003
	2.00	58.4	2.1	90.99	40.2500	0.003
	2.50	58.9	2.6	91.00	32.4000	0.003
	3.00	59.5	3.1	91.01	27.1667	0.004

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1
DATE: 11/29/97 TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
3.50	59.9	3.6	91.02	23.4286	0.004
4.00	60.4	4.1	91.03	20.6250	0.004
4.50	60.9	4.6	91.03	18.4444	0.004
5.00	61.4	5.1	91.04	16.7000	0.004
5.50	61.8	5.5	91.04	15.2727	0.004
6.00	62.3	6.0	91.06	14.0833	0.004
6.50	62.7	6.4	91.06	13.0769	0.004
7.00	63.2	6.9	91.07	12.2143	0.004
7.50	63.7	7.4	91.08	11.4667	0.004
8.00	64.1	7.7	91.09	10.8125	0.004
8.50	64.6	8.3	91.09	10.2353	0.004
9.00	64.9	8.6	91.10	9.7222	0.004
9.50	65.3	9.0	91.11	9.2632	0.004
10.00	65.7	9.4	91.12	8.8500	0.004
10.50	66.1	9.8	91.12	8.4762	0.004
11.00	66.6	10.3	91.13	8.1364	0.004
11.50	67.0	10.6	91.14	7.8261	0.004
12.00	67.3	11.0	91.15	7.5417	0.005
12.50	67.7	11.4	91.16	7.2800	0.005
13.00	68.2	11.8	91.16	7.0385	0.005
13.50	68.4	12.1	91.17	6.8148	0.005
14.00	68.8	12.5	91.17	6.6071	0.005
14.50	69.1	12.8	91.19	6.4138	0.005
15.00	69.6	13.3	91.19	6.2333	0.005
15.50	69.9	13.6	91.20	6.0645	0.005
16.00	70.5	14.1	91.20	5.9062	0.005
16.50	70.7	14.4	91.21	5.7576	0.005
17.00	71.1	14.8	91.22	5.6176	0.005
17.50	71.5	15.1	91.23	5.4857	0.005
18.00	71.8	15.5	91.24	5.3611	0.005
18.50	72.2	15.9	91.24	5.2432	0.005
19.00	72.6	16.3	91.26	5.1316	0.005
19.50	72.9	16.6	91.26	5.0256	0.005
20.00	73.4	17.1	91.27	4.9250	0.005
20.50	73.7	17.3	91.28	4.8293	0.005
21.00	74.0	17.7	91.29	4.7381	0.005
21.50	74.5	18.2	91.29	4.6512	0.006
22.00	74.7	18.4	91.30	4.5682	0.006
22.50	75.3	19.0	91.31	4.4889	0.006
23.00	75.7	19.3	91.31	4.4130	0.006
23.50	76.1	19.8	91.32	4.3404	0.006
24.00	76.6	20.3	91.33	4.2708	0.006
24.50	77.0	20.7	91.33	4.2041	0.006
25.00	77.5	21.2	91.34	4.1400	0.006
25.50	78.1	21.8	91.35	4.0784	0.006
26.00	78.7	22.4	91.36	4.0192	0.006
26.50	79.1	22.8	91.37	3.9623	0.006
27.00	79.7	23.4	91.37	3.9074	0.006
27.50	80.1	23.8	91.38	3.8545	0.006
28.00	80.7	24.3	91.39	3.8036	0.007
28.50	81.1	24.8	91.40	3.7544	0.007

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1
 DATE: 11/29/97 TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
29.00	81.4	25.1	91.40	3.7069	0.007
29.50	81.9	25.6	91.41	3.6610	0.007
30.00	82.4	26.1	91.42	3.6167	0.007
30.50	82.9	26.6	91.43	3.5738	0.007
31.00	83.3	27.0	91.44	3.5323	0.007
31.50	83.8	27.5	91.44	3.4921	0.007
32.00	84.3	27.9	91.45	3.4531	0.007
32.50	84.8	28.5	91.46	3.4154	0.007
33.00	85.3	29.0	91.47	3.3788	0.007
33.50	85.8	29.5	91.47	3.3433	0.007
34.00	86.4	30.1	91.48	3.3088	0.007
34.50	87.0	30.7	91.49	3.2754	0.008
35.00	87.6	31.2	91.49	3.2429	0.008
35.50	88.0	31.7	91.50	3.2113	0.008
36.00	88.5	32.2	91.51	3.1806	0.008
36.50	89.3	32.9	91.52	3.1507	0.008
37.00	89.7	33.4	91.52	3.1216	0.008
37.50	90.3	33.9	91.53	3.0933	0.008
38.00	90.8	34.4	91.53	3.0658	0.008
38.50	91.3	35.0	91.54	3.0390	0.008
39.00	91.9	35.5	91.55	3.0128	0.008
39.50	92.3	36.0	91.56	2.9873	0.009
40.00	92.9	36.6	91.56	2.9625	0.009
40.50	93.5	37.2	91.57	2.9383	0.009
41.00	94.1	37.8	91.58	2.9146	0.009
41.50	94.6	38.3	91.58	2.8916	0.009
42.00	95.1	38.8	91.59	2.8690	0.009
42.50	95.8	39.4	91.61	2.8471	0.009
43.00	96.3	39.9	91.61	2.8256	0.009
43.50	96.9	40.6	91.62	2.8046	0.009
44.00	97.4	41.1	91.62	2.7841	0.009
44.50	98.0	41.6	91.63	2.7640	0.01
45.00	98.6	42.3	91.64	2.7444	0.01
45.50	99.2	42.8	91.65	2.7253	0.01
46.00	99.8	43.5	91.65	2.7065	0.01
46.50	100.4	44.1	91.66	2.6882	0.010
47.00	100.9	44.6	91.67	2.6702	0.010
47.50	101.5	45.2	91.67	2.6526	0.010
48.00	102.2	45.9	91.68	2.6354	0.010
48.50	102.8	46.4	91.69	2.6186	0.011
49.00	103.4	47.1	91.70	2.6020	0.011
49.50	104.0	47.7	91.70	2.5859	0.011
50.00	104.7	48.4	91.71	2.5700	0.011
50.50	105.3	49.0	91.72	2.5545	0.011
51.00	105.9	49.6	91.72	2.5392	0.011
51.50	106.6	50.3	91.73	2.5243	0.011
52.03	107.2	50.9	91.76	2.5086	0.011
52.07	107.2	50.8	91.79	2.5077	0.011
52.10	107.2	50.9	91.81	2.5067	0.011
52.13	107.2	50.9	91.83	2.5058	0.011
52.17	107.2	50.9	91.85	2.5048	0.011

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97 TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
52.20	107.2	50.9	91.86	2.5038	0.011
52.23	107.2	50.9	91.89	2.5029	0.012
52.27	107.3	51.0	91.90	2.5019	0.012
52.30	107.3	51.0	91.91	2.5010	0.012
52.33	107.4	51.1	91.93	2.5000	0.012
52.37	107.3	51.0	91.94	2.4990	0.012
52.40	107.4	51.1	91.96	2.4981	0.012
52.43	107.5	51.2	91.97	2.4971	0.012
52.47	107.5	51.2	91.99	2.4962	0.012
52.50	107.5	51.2	92.00	2.4952	0.012
52.53	107.6	51.3	92.01	2.4943	0.012
52.57	107.5	51.2	92.02	2.4933	0.012
52.60	107.6	51.2	92.03	2.4924	0.012
52.63	107.6	51.3	92.04	2.4915	0.012
52.67	107.6	51.3	92.05	2.4905	0.012
52.70	107.7	51.4	92.06	2.4896	0.012
52.73	107.7	51.4	92.07	2.4886	0.012
52.77	107.8	51.5	92.08	2.4877	0.012
52.80	107.8	51.5	92.09	2.4867	0.012
52.83	107.9	51.6	92.09	2.4858	0.012
52.87	107.9	51.6	92.10	2.4849	0.012
52.90	108.0	51.6	92.12	2.4839	0.012
52.93	107.9	51.6	92.12	2.4830	0.012
52.97	108.1	51.7	92.13	2.4821	0.012
53.00	108.0	51.7	92.13	2.4811	0.012
53.03	108.1	51.8	92.13	2.4802	0.012
53.07	108.2	51.8	92.14	2.4793	0.012
53.10	108.2	51.8	92.14	2.4783	0.012
53.13	108.2	51.9	92.15	2.4774	0.012
53.17	108.3	52.0	92.15	2.4765	0.012
53.20	108.3	52.0	92.16	2.4756	0.012
53.23	108.4	52.1	92.17	2.4746	0.012
53.27	108.5	52.1	92.17	2.4737	0.012
53.30	108.5	52.2	92.18	2.4728	0.012
53.33	108.4	52.1	92.18	2.4719	0.012
53.37	108.5	52.2	92.18	2.4710	0.012
53.40	108.6	52.3	92.19	2.4700	0.012
53.43	108.7	52.3	92.20	2.4691	0.012
53.47	108.7	52.4	92.20	2.4682	0.012
53.50	108.7	52.4	92.20	2.4673	0.012
53.53	108.8	52.5	92.20	2.4664	0.012
53.57	108.8	52.4	92.21	2.4655	0.012
53.60	108.8	52.5	92.21	2.4646	0.012
53.63	108.8	52.5	92.21	2.4636	0.012
53.67	108.9	52.6	92.22	2.4627	0.012
53.70	109.0	52.7	92.22	2.4618	0.012
53.73	109.1	52.8	92.22	2.4609	0.012
53.77	109.1	52.8	92.22	2.4600	0.012
53.80	109.2	52.9	92.22	2.4591	0.012
53.83	109.2	52.9	92.23	2.4582	0.012
53.87	109.2	52.9	92.23	2.4573	0.012

15-137-20 405-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
53.90	109.3	53.0	92.24	2.4564	0.012
53.93	109.4	53.1	92.23	2.4555	0.012
53.97	109.4	53.1	92.24	2.4546	0.012
54.00	109.4	53.1	92.25	2.4537	0.012
54.03	109.5	53.2	92.25	2.4528	0.012
54.07	109.4	53.1	92.25	2.4519	0.012
54.10	109.5	53.2	92.25	2.4510	0.012
54.13	109.6	53.3	92.25	2.4501	0.012
54.17	109.6	53.3	92.25	2.4492	0.012
54.20	109.7	53.4	92.26	2.4483	0.012
54.23	109.7	53.4	92.26	2.4474	0.012
54.27	109.8	53.4	92.26	2.4466	0.012
54.30	109.9	53.5	92.26	2.4457	0.012
54.33	109.9	53.6	92.27	2.4448	0.012
54.37	109.9	53.5	92.27	2.4439	0.012
54.40	110.0	53.6	92.27	2.4430	0.012
54.43	109.9	53.6	92.27	2.4421	0.012
54.47	110.1	53.8	92.27	2.4412	0.012
54.50	110.0	53.7	92.27	2.4404	0.012
54.53	110.1	53.8	92.28	2.4395	0.012
54.57	110.2	53.9	92.28	2.4386	0.012
54.60	110.2	53.9	92.28	2.4377	0.012
54.63	110.3	54.0	92.29	2.4369	0.012
54.67	110.4	54.0	92.28	2.4360	0.012
54.70	110.4	54.1	92.29	2.4351	0.012
54.73	110.5	54.1	92.29	2.4342	0.012
54.77	110.4	54.1	92.29	2.4334	0.012
54.80	110.6	54.3	92.29	2.4325	0.012
54.83	110.6	54.3	92.29	2.4316	0.012
54.87	110.6	54.3	92.29	2.4307	0.012
54.90	110.7	54.4	92.29	2.4299	0.012
54.93	110.7	54.4	92.30	2.4290	0.012
54.97	110.7	54.4	92.30	2.4281	0.012
55.00	110.9	54.6	92.29	2.4273	0.012
55.03	110.9	54.6	92.30	2.4264	0.012
55.07	110.9	54.6	92.30	2.4255	0.012
55.10	110.8	54.5	92.31	2.4247	0.012
55.13	111.0	54.7	92.30	2.4238	0.012
55.17	111.0	54.6	92.31	2.4230	0.012
55.20	111.1	54.8	92.31	2.4221	0.012
55.23	111.1	54.8	92.31	2.4212	0.012
55.27	111.1	54.8	92.31	2.4204	0.012
55.30	111.3	54.9	92.31	2.4195	0.012
55.33	111.2	54.9	92.32	2.4187	0.012
55.37	111.3	55.0	92.32	2.4178	0.012
55.40	111.3	54.9	92.32	2.4170	0.012
55.43	111.3	55.0	92.32	2.4161	0.012
55.47	111.4	55.0	92.33	2.4153	0.012
55.50	111.4	55.1	92.32	2.4144	0.012
55.53	111.5	55.2	92.32	2.4136	0.012
55.57	111.6	55.3	92.32	2.4127	0.012

15-137-20405-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97 TIME: 13:19:34

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
55.60	111.6	55.3	92.32	2.4119	0.012
55.63	111.6	55.3	92.32	2.4110	0.012
55.67	111.7	55.3	92.33	2.4102	0.012
55.70	111.7	55.4	92.32	2.4093	0.012
55.73	111.7	55.4	92.33	2.4085	0.012
55.77	111.8	55.5	92.33	2.4077	0.013
55.80	111.8	55.5	92.33	2.4068	0.013
55.83	111.9	55.6	92.34	2.4060	0.013
55.87	112.0	55.7	92.33	2.4051	0.013
55.90	112.0	55.6	92.33	2.4043	0.013
55.93	112.0	55.7	92.34	2.4035	0.013
55.97	112.1	55.8	92.34	2.4026	0.013
56.00	112.2	55.9	92.34	2.4018	0.013
56.03	112.2	55.9	92.34	2.4010	0.013
56.07	112.3	56.0	92.34	2.4001	0.013
56.10	112.3	56.0	92.35	2.3993	0.013
56.13	112.4	56.0	92.34	2.3985	0.013
56.17	112.4	56.1	92.34	2.3976	0.013
56.20	112.4	56.1	92.35	2.3968	0.013
56.23	112.5	56.2	92.35	2.3960	0.013
56.27	112.4	56.1	92.35	2.3951	0.013
56.30	112.5	56.2	92.35	2.3943	0.013
56.33	112.6	56.3	92.35	2.3935	0.013
56.37	112.6	56.3	92.35	2.3927	0.013
56.40	112.7	56.4	92.35	2.3918	0.013
56.43	112.7	56.4	92.35	2.3910	0.013
56.47	112.8	56.5	92.35	2.3902	0.013
56.50	112.8	56.5	92.36	2.3894	0.013
56.53	112.9	56.6	92.35	2.3886	0.013
56.57	112.8	56.5	92.36	2.3877	0.013
56.60	112.9	56.6	92.36	2.3869	0.013
56.63	113.1	56.7	92.36	2.3861	0.013
56.67	113.1	56.8	92.37	2.3853	0.013
56.70	113.1	56.8	92.37	2.3845	0.013
56.73	113.3	57.0	92.36	2.3837	0.013
56.77	113.3	57.0	92.37	2.3829	0.013
56.80	113.2	56.9	92.37	2.3820	0.013
56.83	113.3	57.0	92.37	2.3812	0.013
56.87	113.4	57.1	92.37	2.3804	0.013
56.90	113.4	57.0	92.37	2.3796	0.013
56.93	113.5	57.2	92.37	2.3788	0.013
56.97	113.5	57.1	92.37	2.3780	0.013
57.00	113.5	57.2	92.37	2.3772	0.013
57.03	113.5	57.2	92.37	2.3764	0.013
57.07	113.6	57.3	92.38	2.3756	0.013
57.10	113.6	57.3	92.37	2.3748	0.013
57.13	113.6	57.3	92.37	2.3740	0.013
57.17	113.8	57.5	92.38	2.3732	0.013
57.20	113.8	57.5	92.38	2.3724	0.013
57.23	113.8	57.5	92.38	2.3716	0.013
57.27	113.9	57.6	92.38	2.3708	0.013

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
57.30	114.0	57.6	92.38	2.3700	0.013
57.33	114.0	57.7	92.38	2.3692	0.013
57.37	114.0	57.7	92.38	2.3684	0.013
57.40	114.0	57.7	92.38	2.3676	0.013
57.43	114.1	57.8	92.38	2.3668	0.013
57.47	114.2	57.9	92.38	2.3660	0.013
57.50	114.3	58.0	92.39	2.3652	0.013
57.53	114.3	58.0	92.39	2.3644	0.013
57.57	114.4	58.0	92.39	2.3636	0.013
57.60	114.3	58.0	92.39	2.3628	0.013
57.63	114.4	58.1	92.39	2.3621	0.013
57.67	114.5	58.2	92.39	2.3613	0.013
57.70	114.5	58.1	92.39	2.3605	0.013
57.73	114.6	58.3	92.39	2.3597	0.013
57.77	114.6	58.3	92.40	2.3589	0.013
57.80	114.7	58.4	92.39	2.3581	0.013
57.83	114.7	58.4	92.40	2.3573	0.013
57.87	114.7	58.4	92.39	2.3566	0.013
57.90	114.8	58.5	92.39	2.3558	0.013
57.93	114.8	58.5	92.40	2.3550	0.013
57.97	114.9	58.6	92.39	2.3542	0.013
58.00	115.0	58.6	92.40	2.3534	0.013
58.03	114.9	58.6	92.40	2.3527	0.013
58.07	115.0	58.6	92.41	2.3519	0.013
58.10	115.0	58.7	92.41	2.3511	0.013
58.13	115.1	58.8	92.40	2.3503	0.013
58.17	115.1	58.8	92.40	2.3496	0.013
58.20	115.1	58.8	92.40	2.3488	0.013
58.23	115.2	58.9	92.41	2.3480	0.013
58.27	115.3	59.0	92.41	2.3473	0.013
58.30	115.3	59.0	92.41	2.3465	0.013
58.33	115.4	59.1	92.41	2.3457	0.013
58.37	115.4	59.1	92.41	2.3449	0.013
58.40	115.5	59.2	92.41	2.3442	0.013
58.43	115.5	59.2	92.41	2.3434	0.013
58.47	115.6	59.2	92.41	2.3426	0.013
58.50	115.7	59.3	92.41	2.3419	0.013
58.53	115.7	59.4	92.41	2.3411	0.013
58.57	115.7	59.4	92.41	2.3404	0.013
58.60	115.7	59.4	92.41	2.3396	0.013
58.63	115.9	59.5	92.42	2.3388	0.013
58.67	115.9	59.5	92.41	2.3381	0.013
58.70	116.0	59.7	92.42	2.3373	0.013
58.73	115.9	59.6	92.42	2.3365	0.013
58.77	116.0	59.7	92.42	2.3358	0.013
58.80	116.1	59.8	92.42	2.3350	0.013
58.83	116.2	59.9	92.42	2.3343	0.013
58.87	116.2	59.9	92.42	2.3335	0.014
58.90	116.3	60.0	92.42	2.3328	0.014
58.93	116.3	60.0	92.42	2.3320	0.014
58.97	116.3	60.0	92.42	2.3313	0.014

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97 TIME: 13:19:34

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
59.00	116.4	60.1	92.42	2.3305	0.014
59.03	116.5	60.1	92.42	2.3298	0.014
59.07	116.4	60.1	92.43	2.3290	0.014
59.10	116.6	60.2	92.43	2.3283	0.014
59.13	116.5	60.2	92.42	2.3275	0.014
59.17	116.7	60.3	92.43	2.3268	0.014
59.20	116.7	60.4	92.43	2.3260	0.014
59.23	116.7	60.4	92.43	2.3253	0.014
59.27	116.8	60.5	92.43	2.3245	0.014
59.30	116.8	60.5	92.43	2.3238	0.014
59.33	116.8	60.5	92.43	2.3230	0.014
59.37	116.9	60.6	92.43	2.3223	0.014
59.40	117.0	60.7	92.43	2.3215	0.014
59.43	117.1	60.8	92.43	2.3208	0.014
59.47	117.0	60.7	92.44	2.3201	0.014
59.50	117.2	60.9	92.44	2.3193	0.014
59.53	117.2	60.9	92.44	2.3186	0.014
59.57	117.2	60.9	92.43	2.3179	0.014
59.60	117.3	61.0	92.44	2.3171	0.014
59.63	117.3	61.0	92.44	2.3164	0.014
59.67	117.4	61.1	92.44	2.3156	0.014
59.70	117.5	61.2	92.44	2.3149	0.014
59.73	117.5	61.2	92.44	2.3142	0.014
59.77	117.6	61.2	92.45	2.3134	0.014
59.80	117.6	61.3	92.45	2.3127	0.014
59.83	117.7	61.4	92.44	2.3120	0.014
59.87	117.6	61.3	92.44	2.3112	0.014
59.90	117.7	61.4	92.45	2.3105	0.014
59.93	117.8	61.5	92.45	2.3098	0.014
59.97	117.9	61.5	92.45	2.3091	0.014
60.00	117.8	61.5	92.45	2.3083	0.014
60.03	117.9	61.6	92.45	2.3076	0.014
60.07	117.9	61.6	92.45	2.3069	0.014
60.10	118.0	61.7	92.45	2.3062	0.014
60.13	118.1	61.8	92.45	2.3054	0.014
60.17	118.2	61.8	92.45	2.3047	0.014
60.20	118.1	61.8	92.45	2.3040	0.014
60.23	118.2	61.9	92.46	2.3033	0.014
60.27	118.2	61.9	92.46	2.3025	0.014
60.30	118.3	62.0	92.45	2.3018	0.014
60.33	118.3	62.0	92.46	2.3011	0.014
60.37	118.4	62.1	92.46	2.3004	0.014
60.40	118.5	62.1	92.46	2.2997	0.014
60.43	118.5	62.2	92.46	2.2990	0.014
60.47	118.5	62.2	92.46	2.2982	0.014
60.50	118.6	62.3	92.46	2.2975	0.014
60.53	118.7	62.3	92.45	2.2968	0.014
60.57	118.7	62.4	92.46	2.2961	0.014
60.60	118.8	62.5	92.47	2.2954	0.014
60.63	118.8	62.5	92.46	2.2947	0.014
60.67	118.9	62.5	92.46	2.2940	0.014

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
60.70	118.9	62.6	92.46	2.2932	0.014
60.73	118.9	62.6	92.46	2.2925	0.014
60.77	119.0	62.7	92.46	2.2918	0.014
60.80	119.0	62.7	92.46	2.2911	0.014
60.83	119.1	62.8	92.46	2.2904	0.014
60.87	119.1	62.8	92.47	2.2897	0.014
60.90	119.2	62.8	92.47	2.2890	0.014
60.93	119.2	62.9	92.47	2.2883	0.014
60.97	119.3	63.0	92.47	2.2876	0.014
61.00	119.3	63.0	92.46	2.2869	0.014
61.03	119.4	63.1	92.47	2.2862	0.014
61.07	119.4	63.1	92.46	2.2855	0.014
61.10	119.4	63.1	92.47	2.2848	0.014
61.13	119.5	63.2	92.47	2.2841	0.014
61.17	119.6	63.2	92.47	2.2834	0.014
61.20	119.7	63.4	92.47	2.2827	0.014
61.23	119.8	63.5	92.47	2.2820	0.014
61.27	119.7	63.4	92.47	2.2813	0.014
61.30	119.9	63.6	92.47	2.2806	0.014
61.33	119.8	63.5	92.48	2.2799	0.014
61.37	119.9	63.6	92.48	2.2792	0.014
61.40	120.0	63.6	92.48	2.2785	0.014
61.43	120.0	63.7	92.48	2.2778	0.014
61.47	120.1	63.8	92.48	2.2771	0.014
61.50	120.1	63.8	92.48	2.2764	0.014
61.53	120.2	63.8	92.48	2.2757	0.014
61.57	120.2	63.9	92.48	2.2750	0.014
61.60	120.3	63.9	92.49	2.2744	0.014
61.63	120.3	64.0	92.48	2.2737	0.014
61.67	120.4	64.1	92.48	2.2730	0.015
61.70	120.5	64.2	92.49	2.2723	0.015
61.73	120.5	64.2	92.48	2.2716	0.015
61.77	120.5	64.2	92.48	2.2709	0.015
61.80	120.6	64.3	92.48	2.2702	0.015
61.83	120.7	64.4	92.48	2.2695	0.015
61.87	120.6	64.3	92.48	2.2689	0.015
61.90	120.8	64.4	92.48	2.2682	0.015
61.93	120.8	64.5	92.48	2.2675	0.015
61.97	120.8	64.5	92.49	2.2668	0.015
62.00	120.9	64.6	92.48	2.2661	0.015
62.03	121.0	64.6	92.49	2.2654	0.015
62.07	120.9	64.6	92.49	2.2648	0.015
62.10	121.1	64.8	92.49	2.2641	0.015
62.13	121.1	64.8	92.49	2.2634	0.015
62.17	121.2	64.9	92.49	2.2627	0.015
62.20	121.3	65.0	92.49	2.2621	0.015
62.23	121.4	65.1	92.49	2.2614	0.015
62.27	121.4	65.0	92.49	2.2607	0.015
62.30	121.4	65.1	92.49	2.2600	0.015
62.33	121.5	65.2	92.50	2.2594	0.015
62.37	121.6	65.3	92.50	2.2587	0.015

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
62.40	121.5	65.2	92.50	2.2580	0.015
62.43	121.6	65.3	92.50	2.2573	0.015
62.47	121.7	65.3	92.50	2.2567	0.015
62.50	121.6	65.3	92.50	2.2560	0.015
62.53	121.8	65.5	92.50	2.2553	0.015
62.57	121.8	65.5	92.50	2.2547	0.015
62.60	121.9	65.6	92.50	2.2540	0.015
62.63	121.9	65.6	92.50	2.2533	0.015
62.67	122.0	65.7	92.50	2.2527	0.015
62.70	122.0	65.6	92.50	2.2520	0.015
62.73	122.0	65.7	92.50	2.2513	0.015
62.77	122.1	65.8	92.50	2.2507	0.015
62.80	122.2	65.9	92.51	2.2500	0.015
62.83	122.2	65.9	92.51	2.2493	0.015
62.87	122.3	65.9	92.51	2.2487	0.015
62.90	122.4	66.1	92.51	2.2480	0.015
62.93	122.4	66.1	92.51	2.2474	0.015
62.97	122.5	66.2	92.51	2.2467	0.015
63.00	122.5	66.2	92.51	2.2460	0.015
63.03	122.6	66.3	92.51	2.2454	0.015
63.07	122.5	66.2	92.51	2.2447	0.015
63.10	122.7	66.4	92.51	2.2441	0.015
63.13	122.7	66.4	92.52	2.2434	0.015
63.17	122.8	66.5	92.51	2.2427	0.015
63.20	122.9	66.6	92.51	2.2421	0.015
63.23	122.9	66.6	92.52	2.2414	0.015
63.27	123.0	66.7	92.51	2.2408	0.015
63.30	123.0	66.7	92.52	2.2401	0.015
63.33	123.1	66.8	92.51	2.2395	0.015
63.37	123.1	66.8	92.52	2.2388	0.015
63.40	123.2	66.8	92.51	2.2382	0.015
63.43	123.3	66.9	92.51	2.2375	0.015
63.47	123.3	66.9	92.52	2.2369	0.015
63.50	123.3	67.0	92.52	2.2362	0.015
63.53	123.3	67.0	92.52	2.2356	0.015
63.57	123.4	67.1	92.52	2.2349	0.015
63.60	123.5	67.1	92.52	2.2343	0.015
63.63	123.5	67.1	92.52	2.2336	0.015
63.67	123.5	67.1	92.52	2.2330	0.015
63.70	123.6	67.3	92.52	2.2323	0.015
63.73	123.6	67.3	92.52	2.2317	0.015
63.77	123.7	67.4	92.52	2.2311	0.015
63.80	123.7	67.4	92.52	2.2304	0.015
63.83	123.8	67.5	92.53	2.2298	0.015
63.87	123.9	67.6	92.53	2.2291	0.015
63.90	123.9	67.6	92.52	2.2285	0.015
63.93	123.9	67.6	92.53	2.2278	0.015
63.97	124.1	67.7	92.53	2.2272	0.015
64.00	124.1	67.8	92.53	2.2266	0.015
64.03	124.1	67.8	92.53	2.2259	0.015
64.07	124.1	67.8	92.53	2.2253	0.015

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
64.10	124.2	67.9	92.53	2.2246	0.015
64.13	124.3	67.9	92.53	2.2240	0.015
64.17	124.3	68.0	92.53	2.2234	0.015
64.20	124.4	68.1	92.53	2.2227	0.015
64.23	124.5	68.1	92.53	2.2221	0.015
64.27	124.4	68.1	92.53	2.2215	0.015
64.30	124.6	68.3	92.53	2.2208	0.016
64.33	124.6	68.3	92.54	2.2202	0.016
64.37	124.7	68.4	92.53	2.2196	0.016
64.40	124.7	68.4	92.53	2.2189	0.016
64.43	124.7	68.4	92.54	2.2183	0.016
64.47	124.7	68.4	92.54	2.2177	0.016
64.50	124.8	68.5	92.54	2.2171	0.016
64.53	124.8	68.5	92.54	2.2164	0.016
64.57	124.9	68.6	92.54	2.2158	0.016
64.60	124.9	68.6	92.54	2.2152	0.016
64.63	125.1	68.7	92.54	2.2145	0.016
64.67	125.0	68.7	92.54	2.2139	0.016
64.70	125.1	68.8	92.54	2.2133	0.016
64.73	125.2	68.8	92.54	2.2127	0.016
64.77	125.2	68.9	92.54	2.2120	0.016
64.80	125.3	68.9	92.55	2.2114	0.016
64.83	125.4	69.1	92.54	2.2108	0.016
64.87	125.4	69.1	92.54	2.2102	0.016
64.90	125.4	69.1	92.55	2.2096	0.016
64.93	125.6	69.2	92.55	2.2089	0.016
64.97	125.6	69.3	92.54	2.2083	0.016
65.00	125.7	69.3	92.54	2.2077	0.016
65.03	125.7	69.4	92.55	2.2071	0.016
65.07	125.8	69.5	92.55	2.2065	0.016
65.10	125.8	69.5	92.55	2.2058	0.016
65.13	125.8	69.5	92.56	2.2052	0.016
65.17	125.9	69.6	92.56	2.2046	0.016
65.20	125.9	69.6	92.55	2.2040	0.016
65.23	126.0	69.7	92.55	2.2034	0.016
65.27	126.1	69.7	92.55	2.2028	0.016
65.30	126.2	69.8	92.55	2.2021	0.016
65.33	126.1	69.8	92.56	2.2015	0.016
65.37	126.2	69.9	92.55	2.2009	0.016
65.40	126.3	69.9	92.56	2.2003	0.016
65.43	126.3	70.0	92.56	2.1997	0.016
65.47	126.4	70.1	92.56	2.1991	0.016
65.50	126.4	70.1	92.56	2.1985	0.016
65.53	126.6	70.2	92.56	2.1979	0.016
65.57	126.6	70.3	92.56	2.1973	0.016
65.60	126.7	70.4	92.56	2.1966	0.016
65.63	126.7	70.4	92.56	2.1960	0.016
65.67	126.8	70.4	92.57	2.1954	0.016
65.70	126.8	70.5	92.56	2.1948	0.016
65.73	126.9	70.6	92.56	2.1942	0.016
65.77	127.0	70.6	92.56	2.1936	0.016

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
65.80	127.0	70.7	92.56	2.1930	0.016
65.83	127.0	70.7	92.56	2.1924	0.016
65.87	127.1	70.7	92.56	2.1918	0.016
65.90	127.2	70.9	92.56	2.1912	0.016
65.93	127.2	70.9	92.56	2.1906	0.016
65.97	127.2	70.9	92.57	2.1900	0.016
66.00	127.3	71.0	92.56	2.1894	0.016
66.03	127.4	71.1	92.57	2.1888	0.016
66.07	127.4	71.0	92.56	2.1882	0.016
66.10	127.5	71.2	92.57	2.1876	0.016
66.13	127.5	71.2	92.56	2.1870	0.016
66.17	127.6	71.2	92.57	2.1864	0.016
66.20	127.7	71.4	92.57	2.1858	0.016
66.23	127.7	71.4	92.57	2.1852	0.016
66.27	127.8	71.5	92.57	2.1846	0.016
66.30	127.8	71.5	92.57	2.1840	0.016
66.33	127.9	71.5	92.57	2.1834	0.016
66.37	128.0	71.7	92.57	2.1828	0.016
66.40	128.1	71.7	92.57	2.1822	0.016
66.43	128.1	71.7	92.58	2.1816	0.016
66.47	128.0	71.7	92.57	2.1810	0.016
66.50	128.2	71.9	92.57	2.1805	0.016
66.53	128.2	71.9	92.57	2.1799	0.016
66.57	128.3	72.0	92.57	2.1793	0.016
66.60	128.3	71.9	92.58	2.1787	0.016
66.63	128.3	72.0	92.58	2.1781	0.016
66.67	128.4	72.1	92.58	2.1775	0.016
66.70	128.5	72.2	92.58	2.1769	0.017
66.73	128.6	72.3	92.58	2.1763	0.017
66.77	128.6	72.2	92.57	2.1757	0.017
66.80	128.7	72.3	92.58	2.1751	0.017
66.83	128.7	72.4	92.58	2.1746	0.017
66.87	128.8	72.5	92.58	2.1740	0.017
66.90	128.7	72.4	92.58	2.1734	0.017
66.93	128.8	72.5	92.58	2.1728	0.017
66.97	128.9	72.6	92.58	2.1722	0.017
67.00	129.0	72.7	92.58	2.1716	0.017
67.03	129.0	72.6	92.58	2.1711	0.017
67.07	129.0	72.7	92.58	2.1705	0.017
67.10	129.2	72.9	92.59	2.1699	0.017
67.13	129.2	72.9	92.59	2.1693	0.017
67.17	129.3	73.0	92.58	2.1687	0.017
67.20	129.2	72.9	92.58	2.1682	0.017
67.23	129.4	73.1	92.59	2.1676	0.017
67.27	129.5	73.1	92.59	2.1670	0.017
67.30	129.4	73.1	92.59	2.1664	0.017
67.33	129.6	73.3	92.59	2.1658	0.017
67.37	129.7	73.3	92.60	2.1653	0.017
67.40	129.6	73.3	92.59	2.1647	0.017
67.43	129.7	73.4	92.59	2.1641	0.017
67.47	129.8	73.4	92.59	2.1635	0.017

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
67.50	129.8	73.4	92.60	2.1630	0.017
67.53	129.9	73.6	92.59	2.1624	0.017
67.57	129.9	73.6	92.59	2.1618	0.017
67.60	130.0	73.7	92.59	2.1612	0.017
67.63	130.0	73.7	92.61	2.1607	0.017
67.67	130.0	73.7	92.60	2.1601	0.017
67.70	130.2	73.9	92.59	2.1595	0.017
67.73	130.2	73.9	92.59	2.1590	0.017
67.77	130.3	74.0	92.59	2.1584	0.017
67.80	130.3	74.0	92.60	2.1578	0.017
67.83	130.4	74.1	92.59	2.1572	0.017
67.87	130.4	74.1	92.60	2.1567	0.017
67.90	130.5	74.2	92.60	2.1561	0.017
67.93	130.7	74.4	92.60	2.1555	0.017
67.97	130.7	74.3	92.60	2.1550	0.017
68.00	130.7	74.4	92.60	2.1544	0.017
68.03	130.8	74.5	92.60	2.1538	0.017
68.07	130.9	74.5	92.60	2.1533	0.017
68.10	130.9	74.6	92.60	2.1527	0.017
68.13	131.0	74.7	92.60	2.1522	0.017
68.17	131.1	74.7	92.60	2.1516	0.017
68.20	131.1	74.8	92.60	2.1510	0.017
68.23	131.1	74.8	92.60	2.1505	0.017
68.27	131.1	74.8	92.60	2.1499	0.017
68.30	131.3	74.9	92.61	2.1493	0.017
68.33	131.3	75.0	92.60	2.1488	0.017
68.37	131.3	75.0	92.61	2.1482	0.017
68.40	131.4	75.1	92.61	2.1477	0.017
68.43	131.4	75.1	92.61	2.1471	0.017
68.47	131.5	75.2	92.61	2.1465	0.017
68.50	131.5	75.2	92.61	2.1460	0.017
68.53	131.6	75.3	92.60	2.1454	0.017
68.57	131.6	75.3	92.61	2.1449	0.017
68.60	131.7	75.4	92.61	2.1443	0.017
68.63	131.8	75.5	92.61	2.1438	0.017
68.67	131.9	75.6	92.61	2.1432	0.017
68.70	131.9	75.6	92.62	2.1426	0.017
68.73	132.0	75.7	92.61	2.1421	0.017
68.77	131.9	75.6	92.61	2.1415	0.017
68.80	132.1	75.8	92.62	2.1410	0.017
68.83	132.2	75.9	92.61	2.1404	0.017
68.87	132.1	75.8	92.61	2.1399	0.017
68.90	132.3	75.9	92.61	2.1393	0.017
68.93	132.3	76.0	92.61	2.1388	0.018
68.97	132.3	76.0	92.62	2.1382	0.018
69.00	132.4	76.1	92.62	2.1377	0.018
69.03	132.4	76.1	92.62	2.1371	0.018
69.07	132.5	76.2	92.62	2.1366	0.018
69.10	132.6	76.3	92.62	2.1360	0.018
69.13	132.6	76.3	92.62	2.1355	0.018
69.17	132.7	76.4	92.62	2.1349	0.018

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97 TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
69.20	132.8	76.5	92.62	2.1344	0.018
69.23	132.9	76.5	92.62	2.1338	0.018
69.27	132.9	76.6	92.62	2.1333	0.018
69.30	132.9	76.5	92.63	2.1328	0.018
69.33	132.9	76.6	92.62	2.1322	0.018
69.37	133.0	76.7	92.63	2.1317	0.018
69.40	133.0	76.7	92.62	2.1311	0.018
69.43	133.2	76.8	92.62	2.1306	0.018
69.47	133.2	76.9	92.62	2.1300	0.018
69.50	133.2	76.9	92.63	2.1295	0.018
69.53	133.3	77.0	92.63	2.1290	0.018
69.57	133.3	77.0	92.62	2.1284	0.018
69.60	133.4	77.1	92.62	2.1279	0.018
69.63	133.4	77.1	92.63	2.1273	0.018
69.67	133.5	77.2	92.63	2.1268	0.018
69.70	133.5	77.2	92.63	2.1263	0.018
69.73	133.6	77.3	92.63	2.1257	0.018
69.77	133.6	77.3	92.63	2.1252	0.018
69.80	133.8	77.4	92.63	2.1246	0.018
69.83	133.8	77.5	92.63	2.1241	0.018
69.87	133.9	77.6	92.63	2.1236	0.018
69.90	133.9	77.5	92.63	2.1230	0.018
69.93	134.0	77.7	92.63	2.1225	0.018
69.97	134.0	77.7	92.64	2.1220	0.018
70.00	134.1	77.7	92.63	2.1214	0.018
70.03	134.1	77.8	92.64	2.1209	0.018
70.07	134.2	77.9	92.64	2.1204	0.018
70.10	134.3	78.0	92.64	2.1198	0.018
70.13	134.3	78.0	92.64	2.1193	0.018
70.17	134.4	78.1	92.64	2.1188	0.018
70.20	134.5	78.1	92.63	2.1182	0.018
70.23	134.5	78.2	92.64	2.1177	0.018
70.27	134.5	78.2	92.64	2.1172	0.018
70.30	134.6	78.3	92.63	2.1166	0.018
70.33	134.6	78.3	92.64	2.1161	0.018
70.37	134.6	78.3	92.64	2.1156	0.018
70.40	134.8	78.5	92.64	2.1151	0.018
70.43	134.9	78.5	92.64	2.1145	0.018
70.47	134.8	78.5	92.64	2.1140	0.018
70.50	135.0	78.7	92.65	2.1135	0.018
70.53	135.0	78.7	92.64	2.1129	0.018
70.57	135.1	78.8	92.65	2.1124	0.018
70.60	135.1	78.8	92.65	2.1119	0.018
70.63	135.2	78.9	92.64	2.1114	0.018
70.67	135.2	78.9	92.65	2.1108	0.018
70.70	135.3	78.9	92.65	2.1103	0.018
70.73	135.4	79.1	92.65	2.1098	0.018
70.77	135.3	79.0	92.65	2.1093	0.018
70.80	135.4	79.1	92.64	2.1088	0.018
70.83	135.5	79.2	92.65	2.1082	0.018
70.87	135.6	79.2	92.65	2.1077	0.018

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
70.90	135.6	79.3	92.65	2.1072	0.018
70.93	135.7	79.4	92.65	2.1067	0.018
70.97	135.7	79.4	92.65	2.1062	0.018
71.00	135.8	79.5	92.66	2.1056	0.018
71.03	135.9	79.5	92.65	2.1051	0.018
71.07	135.9	79.6	92.65	2.1046	0.018
71.10	135.9	79.6	92.66	2.1041	0.018
71.13	136.1	79.7	92.65	2.1036	0.019
71.17	136.1	79.7	92.66	2.1030	0.019
71.20	136.2	79.8	92.65	2.1025	0.019
71.23	136.2	79.9	92.65	2.1020	0.019
71.27	136.3	80.0	92.66	2.1015	0.019
71.30	136.3	80.0	92.65	2.1010	0.019
71.33	136.4	80.1	92.66	2.1005	0.019
71.37	136.6	80.2	92.66	2.1000	0.019
71.40	136.6	80.3	92.65	2.0994	0.019
71.43	136.6	80.3	92.66	2.0989	0.019
71.47	136.7	80.3	92.66	2.0984	0.019
71.50	136.8	80.4	92.66	2.0979	0.019
71.53	136.7	80.4	92.66	2.0974	0.019
71.57	136.9	80.5	92.66	2.0969	0.019
71.60	136.9	80.6	92.66	2.0964	0.019
71.63	137.0	80.6	92.66	2.0959	0.019
71.67	137.0	80.6	92.67	2.0953	0.019
71.70	137.1	80.8	92.66	2.0948	0.019
71.73	137.1	80.8	92.66	2.0943	0.019
71.77	137.2	80.9	92.66	2.0938	0.019
71.80	137.3	80.9	92.67	2.0933	0.019
71.83	137.3	81.0	92.67	2.0928	0.019
71.87	137.3	81.0	92.67	2.0923	0.019
71.90	137.4	81.1	92.67	2.0918	0.019
71.93	137.5	81.2	92.67	2.0913	0.019
71.97	137.6	81.3	92.67	2.0908	0.019
72.00	137.7	81.3	92.68	2.0903	0.019
72.03	137.6	81.3	92.67	2.0898	0.019
72.07	137.7	81.4	92.67	2.0893	0.019
72.10	137.8	81.5	92.67	2.0888	0.019
72.13	137.8	81.5	92.67	2.0883	0.019
72.17	137.9	81.6	92.67	2.0878	0.019
72.20	138.0	81.7	92.67	2.0873	0.019
72.23	138.0	81.7	92.67	2.0868	0.019
72.27	138.1	81.8	92.67	2.0863	0.019
72.30	138.1	81.7	92.67	2.0858	0.019
72.33	138.1	81.8	92.67	2.0853	0.019
72.37	138.2	81.9	92.67	2.0848	0.019
72.40	138.3	81.9	92.67	2.0843	0.019
72.43	138.4	82.0	92.67	2.0838	0.019
72.47	138.4	82.1	92.67	2.0833	0.019
72.50	138.4	82.1	92.68	2.0828	0.019
72.53	138.5	82.2	92.68	2.0823	0.019
72.57	138.5	82.2	92.68	2.0818	0.019

15-137-20405-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
72.60	138.6	82.2	92.68	2.0813	0.019
72.63	138.7	82.4	92.68	2.0808	0.019
72.67	138.7	82.3	92.68	2.0803	0.019
72.70	138.8	82.4	92.68	2.0798	0.019
72.73	138.9	82.6	92.68	2.0793	0.019
72.77	138.9	82.6	92.68	2.0788	0.019
72.80	139.0	82.7	92.68	2.0783	0.019
72.83	139.1	82.8	92.68	2.0778	0.019
72.87	139.1	82.8	92.68	2.0773	0.019
72.90	139.1	82.8	92.68	2.0768	0.019
72.93	139.3	82.9	92.68	2.0763	0.019
72.97	139.3	83.0	92.68	2.0758	0.019
73.00	139.4	83.1	92.68	2.0753	0.019
73.03	139.3	83.0	92.68	2.0749	0.019
73.07	139.5	83.2	92.68	2.0744	0.019
73.10	139.5	83.2	92.68	2.0739	0.019
73.13	139.6	83.3	92.69	2.0734	0.019
73.17	139.7	83.4	92.69	2.0729	0.020
73.20	139.8	83.5	92.69	2.0724	0.020
73.23	139.8	83.5	92.69	2.0719	0.020
73.27	139.9	83.6	92.69	2.0714	0.020
73.30	139.9	83.5	92.69	2.0709	0.020
73.33	140.0	83.7	92.70	2.0705	0.020
73.37	140.0	83.7	92.70	2.0700	0.020
73.40	140.1	83.8	92.69	2.0695	0.020
73.43	140.2	83.9	92.70	2.0690	0.020
73.47	140.2	83.9	92.69	2.0685	0.020
73.50	140.3	83.9	92.69	2.0680	0.020
73.53	140.3	84.0	92.69	2.0675	0.020
73.57	140.6	84.3	92.69	2.0671	0.020
73.60	140.7	84.3	92.69	2.0666	0.020
73.63	140.7	84.3	92.70	2.0661	0.020
73.67	140.8	84.5	92.69	2.0656	0.020
73.70	140.8	84.5	92.69	2.0651	0.020
73.73	140.9	84.6	92.70	2.0646	0.020
73.77	141.0	84.6	92.70	2.0642	0.020
73.80	141.0	84.7	92.70	2.0637	0.020
73.83	141.1	84.8	92.70	2.0632	0.020
73.87	141.1	84.7	92.70	2.0627	0.020
73.90	141.1	84.8	92.70	2.0622	0.020
73.93	141.2	84.9	92.70	2.0618	0.020
73.97	141.3	85.0	92.70	2.0613	0.020
74.00	141.4	85.1	92.70	2.0608	0.020
74.03	141.4	85.1	92.70	2.0603	0.020
74.07	141.5	85.2	92.70	2.0599	0.020
74.10	141.6	85.3	92.70	2.0594	0.020
74.13	141.5	85.2	92.71	2.0589	0.020
74.17	141.7	85.4	92.70	2.0584	0.020
74.20	141.7	85.4	92.71	2.0580	0.020
74.23	141.7	85.4	92.70	2.0575	0.020
74.27	141.8	85.5	92.71	2.0570	0.020

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1
DATE: 11/29/97 TIME: 13:19:34

Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
74.30	141.9	85.5	92.70	2.0565	0.020
74.33	141.9	85.6	92.71	2.0561	0.020
74.37	142.0	85.7	92.71	2.0556	0.020
74.40	142.1	85.8	92.70	2.0551	0.020
74.43	142.1	85.8	92.71	2.0546	0.020
74.47	142.3	85.9	92.71	2.0542	0.020
74.50	142.3	86.0	92.71	2.0537	0.020
74.53	142.4	86.1	92.71	2.0532	0.020
74.57	142.5	86.1	92.72	2.0527	0.020
74.60	142.5	86.2	92.71	2.0523	0.020
74.63	142.5	86.2	92.71	2.0518	0.020
74.67	142.7	86.3	92.71	2.0513	0.020
74.70	142.7	86.4	92.71	2.0509	0.020
74.73	142.8	86.5	92.71	2.0504	0.020
74.77	142.8	86.5	92.72	2.0499	0.020
74.80	143.0	86.6	92.71	2.0495	0.020
74.83	143.0	86.7	92.71	2.0490	0.020
74.87	143.1	86.8	92.72	2.0485	0.020
74.90	143.2	86.8	92.71	2.0481	0.020
74.93	143.1	86.8	92.71	2.0476	0.020
74.97	143.2	86.8	92.71	2.0471	0.020
75.00	143.2	86.9	92.72	2.0467	0.021
75.03	143.3	87.0	92.72	2.0462	0.021
75.07	143.3	87.0	92.72	2.0457	0.021
75.10	143.4	87.1	92.72	2.0453	0.021
75.13	143.5	87.2	92.72	2.0448	0.021
75.17	143.5	87.2	92.72	2.0443	0.021
75.20	143.6	87.3	92.72	2.0439	0.021
75.23	143.7	87.3	92.72	2.0434	0.021
75.27	143.7	87.4	92.72	2.0430	0.021
75.30	143.8	87.5	92.72	2.0425	0.021
75.33	143.9	87.6	92.72	2.0420	0.021
75.37	143.9	87.6	92.72	2.0416	0.021
75.40	144.0	87.7	92.72	2.0411	0.021
75.43	144.1	87.8	92.72	2.0407	0.021
75.47	144.1	87.8	92.72	2.0402	0.021
75.50	144.2	87.9	92.73	2.0397	0.021
75.53	144.3	88.0	92.73	2.0393	0.021
75.57	144.4	88.0	92.72	2.0388	0.021
75.60	144.3	88.0	92.72	2.0384	0.021
75.63	144.5	88.2	92.72	2.0379	0.021
75.67	144.6	88.3	92.72	2.0374	0.021
75.70	144.6	88.3	92.73	2.0370	0.021
75.73	144.6	88.3	92.73	2.0365	0.021
75.77	144.7	88.4	92.73	2.0361	0.021
75.80	144.7	88.4	92.72	2.0356	0.021
75.83	144.8	88.5	92.73	2.0352	0.021
75.87	144.9	88.6	92.73	2.0347	0.021
75.90	145.0	88.7	92.73	2.0343	0.021
75.93	145.1	88.8	92.73	2.0338	0.021
75.97	145.1	88.8	92.73	2.0333	0.021

15-137-20405-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
76.00	145.2	88.9	92.73	2.0329	0.021
76.03	145.2	88.9	92.73	2.0324	0.021
76.07	145.3	89.0	92.73	2.0320	0.021
76.10	145.4	89.0	92.73	2.0315	0.021
76.13	145.5	89.2	92.74	2.0311	0.021
76.17	145.5	89.2	92.73	2.0306	0.021
76.20	145.6	89.3	92.74	2.0302	0.021
76.23	145.6	89.3	92.73	2.0297	0.021
76.27	145.7	89.3	92.74	2.0293	0.021
76.30	145.8	89.5	92.74	2.0288	0.021
76.33	145.9	89.5	92.74	2.0284	0.021
76.37	145.9	89.6	92.74	2.0279	0.021
76.40	146.0	89.7	92.74	2.0275	0.021
76.43	145.9	89.6	92.73	2.0270	0.021
76.47	146.0	89.7	92.73	2.0266	0.021
76.50	146.1	89.8	92.73	2.0261	0.021
76.53	146.1	89.8	92.74	2.0257	0.021
76.57	146.3	90.0	92.74	2.0253	0.021
76.60	146.4	90.1	92.74	2.0248	0.021
76.63	146.4	90.0	92.74	2.0244	0.021
76.67	146.4	90.1	92.74	2.0239	0.021
76.70	146.5	90.2	92.74	2.0235	0.021
76.73	146.5	90.2	92.74	2.0230	0.021
76.77	146.7	90.4	92.74	2.0226	0.022
76.80	146.7	90.4	92.74	2.0221	0.022
76.83	146.8	90.5	92.74	2.0217	0.022
76.87	146.9	90.6	92.75	2.0212	0.022
76.90	146.9	90.5	92.75	2.0208	0.022
76.93	147.1	90.7	92.74	2.0204	0.022
76.97	147.1	90.8	92.75	2.0199	0.022
77.00	147.1	90.8	92.75	2.0195	0.022
77.03	147.2	90.9	92.75	2.0190	0.022
77.07	147.2	90.9	92.75	2.0186	0.022
77.10	147.4	91.0	92.75	2.0182	0.022
77.13	147.4	91.0	92.74	2.0177	0.022
77.17	147.5	91.1	92.75	2.0173	0.022
77.20	147.6	91.3	92.75	2.0168	0.022
77.23	147.6	91.3	92.75	2.0164	0.022
77.27	147.7	91.4	92.74	2.0160	0.022
77.30	147.8	91.5	92.75	2.0155	0.022
77.33	147.8	91.5	92.75	2.0151	0.022
77.37	147.8	91.5	92.75	2.0146	0.022
77.40	147.9	91.6	92.76	2.0142	0.022
77.43	147.9	91.6	92.76	2.0138	0.022
77.47	148.1	91.7	92.75	2.0133	0.022
77.50	148.1	91.8	92.76	2.0129	0.022
77.53	148.1	91.8	92.76	2.0125	0.022
77.57	148.2	91.9	92.76	2.0120	0.022
77.60	148.4	92.0	92.76	2.0116	0.022
77.63	148.3	92.0	92.76	2.0112	0.022
77.67	148.5	92.2	92.76	2.0107	0.022

15-137-20405-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1
DATE: 11/29/97 TIME: 13:19:34

Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
77.70	148.4	92.1	92.76	2.0103	0.022
77.73	148.5	92.2	92.76	2.0099	0.022
77.77	148.7	92.3	92.76	2.0094	0.022
77.80	148.7	92.4	92.76	2.0090	0.022
77.83	148.7	92.4	92.76	2.0086	0.022
77.87	148.8	92.5	92.76	2.0081	0.022
77.90	148.8	92.5	92.76	2.0077	0.022
77.93	148.8	92.5	92.76	2.0073	0.022
77.97	149.0	92.7	92.76	2.0068	0.022
78.00	149.0	92.7	92.76	2.0064	0.022
78.03	149.1	92.7	92.76	2.0060	0.022
78.07	149.2	92.9	92.76	2.0056	0.022
78.10	149.3	93.0	92.76	2.0051	0.022
78.13	149.3	93.0	92.76	2.0047	0.022
78.17	149.3	93.0	92.76	2.0043	0.022
78.20	149.5	93.2	92.76	2.0038	0.022
78.23	149.6	93.3	92.76	2.0034	0.022
78.27	149.6	93.2	92.77	2.0030	0.022
78.30	149.7	93.4	92.76	2.0026	0.022
78.33	149.7	93.4	92.77	2.0021	0.022
78.37	149.8	93.5	92.77	2.0017	0.022
78.40	149.9	93.6	92.77	2.0013	0.022
78.43	150.0	93.7	92.77	2.0009	0.023
78.47	150.0	93.6	92.77	2.0004	0.022
78.50	150.0	93.7	92.77	2.0000	0.023
78.53	150.2	93.9	92.77	1.9996	0.023
78.57	150.2	93.8	92.77	1.9992	0.023
78.60	150.2	93.9	92.77	1.9987	0.023
78.63	150.4	94.0	92.78	1.9983	0.023
78.67	150.4	94.1	92.78	1.9979	0.023
78.70	150.4	94.1	92.77	1.9975	0.023
78.73	150.5	94.2	92.78	1.9970	0.023
78.77	150.6	94.3	92.78	1.9966	0.023
78.80	150.7	94.4	92.78	1.9962	0.023
78.83	150.7	94.4	92.78	1.9958	0.023
78.87	150.8	94.5	92.78	1.9954	0.023
78.90	150.9	94.6	92.78	1.9949	0.023
78.93	151.0	94.7	92.78	1.9945	0.023
78.97	151.1	94.8	92.78	1.9941	0.023
79.00	151.2	94.9	92.78	1.9937	0.023
79.03	151.2	94.8	92.78	1.9933	0.023
79.07	151.2	94.9	92.78	1.9928	0.023
79.10	151.3	95.0	92.78	1.9924	0.023
79.13	151.4	95.1	92.78	1.9920	0.023
79.17	151.4	95.1	92.79	1.9916	0.023
79.20	151.5	95.2	92.78	1.9912	0.023
79.23	151.6	95.3	92.79	1.9907	0.023
79.27	151.7	95.4	92.78	1.9903	0.023
79.30	151.8	95.5	92.79	1.9899	0.023
79.33	151.9	95.6	92.78	1.9895	0.023
79.37	152.0	95.6	92.79	1.9891	0.023

15-137-20405-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97 TIME: 13:19:34

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
79.40	152.0	95.7	92.78	1.9887	0.023
79.43	152.1	95.8	92.79	1.9883	0.023
79.47	152.2	95.8	92.79	1.9878	0.023
79.50	152.2	95.9	92.79	1.9874	0.023
79.53	152.3	96.0	92.80	1.9870	0.023
79.57	152.3	96.0	92.79	1.9866	0.023
79.60	152.4	96.0	92.79	1.9862	0.023
79.63	152.5	96.1	92.79	1.9858	0.023
79.67	152.6	96.2	92.79	1.9854	0.023
79.70	152.6	96.3	92.79	1.9849	0.023
79.73	152.6	96.3	92.79	1.9845	0.023
79.77	152.8	96.5	92.79	1.9841	0.023
79.80	152.9	96.6	92.79	1.9837	0.023
79.83	152.9	96.5	92.80	1.9833	0.023
79.87	153.0	96.7	92.79	1.9829	0.023
79.90	153.0	96.7	92.80	1.9825	0.023
79.93	153.1	96.8	92.80	1.9821	0.023
79.97	153.2	96.9	92.79	1.9817	0.023
80.00	153.3	97.0	92.79	1.9812	0.024
80.03	153.4	97.1	92.80	1.9808	0.024
80.07	153.4	97.1	92.80	1.9804	0.024
80.10	153.5	97.2	92.80	1.9800	0.024
80.13	153.5	97.2	92.79	1.9796	0.024
80.17	153.6	97.3	92.80	1.9792	0.024
80.20	153.7	97.4	92.79	1.9788	0.024
80.23	153.8	97.5	92.80	1.9784	0.024
80.27	153.8	97.5	92.79	1.9780	0.024
80.30	153.8	97.5	92.80	1.9776	0.024
80.33	153.9	97.6	92.80	1.9772	0.024
80.37	153.9	97.6	92.80	1.9768	0.024
80.40	154.1	97.8	92.80	1.9764	0.024
80.43	154.2	97.8	92.80	1.9760	0.024
80.47	154.2	97.9	92.80	1.9756	0.024
80.50	154.3	97.9	92.80	1.9752	0.024
80.53	154.3	98.0	92.80	1.9748	0.024
80.57	154.4	98.1	92.80	1.9743	0.024
80.60	154.5	98.2	92.80	1.9739	0.024
80.63	154.6	98.2	92.80	1.9735	0.024
80.67	154.7	98.4	92.81	1.9731	0.024
80.70	154.7	98.4	92.81	1.9727	0.024
80.73	154.8	98.5	92.81	1.9723	0.024
80.77	154.8	98.5	92.80	1.9719	0.024
80.80	154.9	98.6	92.81	1.9715	0.024
80.83	155.0	98.6	92.80	1.9711	0.024
80.87	155.1	98.8	92.81	1.9707	0.024
80.90	155.2	98.9	92.81	1.9703	0.024
80.93	155.3	99.0	92.81	1.9699	0.024
80.97	155.4	99.0	92.81	1.9695	0.024
81.00	155.3	99.0	92.81	1.9691	0.024
81.03	155.4	99.0	92.81	1.9687	0.024
81.07	155.4	99.1	92.81	1.9683	0.024

15-137-20405-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1
 DATE: 11/29/97 TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
81.10	155.6	99.3	92.81	1.9679	0.024
81.13	155.6	99.3	92.81	1.9675	0.024
81.17	155.7	99.4	92.81	1.9671	0.024
81.20	155.8	99.5	92.81	1.9667	0.024
81.23	155.8	99.5	92.81	1.9664	0.024
81.27	155.9	99.6	92.81	1.9660	0.024
81.30	155.9	99.6	92.82	1.9656	0.024
81.33	156.1	99.8	92.81	1.9652	0.024
81.37	156.1	99.8	92.82	1.9648	0.024
81.40	156.2	99.8	92.82	1.9644	0.024
81.43	156.3	100.0	92.81	1.9640	0.024
81.47	156.4	100.0	92.82	1.9636	0.024
81.50	156.4	100.0	92.81	1.9632	0.024
81.53	156.4	100.1	92.81	1.9628	0.024
81.57	156.5	100.2	92.82	1.9624	0.024
81.60	156.6	100.3	92.81	1.9620	0.025
81.63	156.6	100.3	92.82	1.9616	0.025
81.67	156.7	100.4	92.81	1.9612	0.025
81.70	156.8	100.5	92.82	1.9608	0.025
81.73	156.9	100.6	92.82	1.9604	0.025
81.77	157.0	100.7	92.82	1.9600	0.025
81.80	157.1	100.8	92.82	1.9597	0.025
81.83	157.1	100.8	92.82	1.9593	0.025
81.87	157.2	100.9	92.82	1.9589	0.025
81.90	157.3	100.9	92.82	1.9585	0.025
81.93	157.3	100.9	92.83	1.9581	0.025
81.97	157.3	101.0	92.82	1.9577	0.025
82.00	157.5	101.1	92.82	1.9573	0.025
82.03	157.5	101.2	92.83	1.9569	0.025
82.07	157.6	101.3	92.82	1.9565	0.025
82.10	157.5	101.2	92.82	1.9562	0.025
82.13	157.6	101.3	92.83	1.9558	0.025
82.17	157.7	101.4	92.83	1.9554	0.025
82.20	157.7	101.4	92.82	1.9550	0.025
82.23	157.8	101.5	92.82	1.9546	0.025
82.27	158.0	101.7	92.83	1.9542	0.025
82.30	158.0	101.7	92.83	1.9538	0.025
82.33	158.0	101.7	92.82	1.9534	0.025
82.37	158.1	101.8	92.83	1.9531	0.025
82.40	158.2	101.9	92.82	1.9527	0.025
82.43	158.2	101.9	92.83	1.9523	0.025
82.47	158.3	102.0	92.83	1.9519	0.025
82.50	158.4	102.1	92.83	1.9515	0.025
82.53	158.6	102.2	92.83	1.9511	0.025
82.57	158.6	102.3	92.83	1.9507	0.025
82.60	158.7	102.3	92.83	1.9504	0.025
82.63	158.8	102.4	92.83	1.9500	0.025
82.67	158.8	102.4	92.83	1.9496	0.025
82.70	158.9	102.6	92.83	1.9492	0.025
82.73	159.0	102.7	92.83	1.9488	0.025
82.77	159.1	102.8	92.84	1.9484	0.025

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
82.80	159.1	102.8	92.84	1.9481	0.025
82.83	159.3	102.9	92.83	1.9477	0.025
82.87	159.3	103.0	92.84	1.9473	0.025
82.90	159.5	103.1	92.84	1.9469	0.025
82.93	159.5	103.2	92.84	1.9465	0.025
82.97	159.5	103.2	92.84	1.9462	0.025
83.00	159.7	103.3	92.84	1.9458	0.025
83.03	159.7	103.4	92.84	1.9454	0.026
83.07	159.7	103.4	92.84	1.9450	0.026
83.10	159.8	103.5	92.84	1.9446	0.026
83.13	159.8	103.5	92.84	1.9443	0.026
83.17	159.9	103.6	92.84	1.9439	0.026
83.20	160.0	103.7	92.85	1.9435	0.026
83.23	160.1	103.8	92.85	1.9431	0.026
83.27	160.2	103.9	92.84	1.9428	0.026
83.30	160.2	103.9	92.85	1.9424	0.026
83.33	160.3	104.0	92.85	1.9420	0.026
83.37	160.4	104.0	92.88	1.9416	0.026
83.40	160.5	104.1	92.85	1.9412	0.026
83.43	160.5	104.2	92.89	1.9409	0.026
83.47	160.6	104.3	92.85	1.9405	0.026
83.50	160.7	104.4	92.85	1.9401	0.026
83.53	160.8	104.5	92.83	1.9397	0.026
83.57	160.8	104.5	92.81	1.9394	0.026
83.60	160.9	104.6	92.84	1.9390	0.026
83.63	160.9	104.6	92.85	1.9386	0.026
83.67	161.0	104.7	92.85	1.9382	0.026
83.70	161.1	104.8	92.84	1.9379	0.026
83.73	161.2	104.9	92.85	1.9375	0.026
83.77	161.3	105.0	92.85	1.9371	0.026
83.80	161.4	105.1	92.85	1.9368	0.026
83.83	161.4	105.1	92.85	1.9364	0.026
83.87	161.5	105.1	92.85	1.9360	0.026
83.90	161.6	105.3	92.85	1.9356	0.026
83.93	161.6	105.3	92.85	1.9353	0.026
83.97	161.7	105.4	92.85	1.9349	0.026
84.00	161.9	105.5	92.85	1.9345	0.026
84.03	161.9	105.5	92.85	1.9342	0.026
84.07	162.0	105.7	92.85	1.9338	0.026
84.10	162.0	105.7	92.85	1.9334	0.026
84.13	162.1	105.8	92.85	1.9330	0.026
84.17	162.2	105.8	92.85	1.9327	0.026
84.20	162.2	105.9	92.86	1.9323	0.026
84.23	162.4	106.0	92.85	1.9319	0.026
84.27	162.4	106.1	92.86	1.9316	0.026
84.30	162.5	106.2	92.86	1.9312	0.026
84.33	162.6	106.3	92.86	1.9308	0.026
84.37	162.6	106.3	92.86	1.9305	0.026
84.40	162.8	106.4	92.86	1.9301	0.026
84.43	162.7	106.4	92.86	1.9297	0.026
84.47	162.9	106.6	92.86	1.9294	0.027

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1
DATE: 11/29/97 TIME: 13:19:34

Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
84.50	162.9	106.6	92.86	1.9290	0.027
84.53	163.1	106.7	92.86	1.9286	0.027
84.57	163.1	106.7	92.86	1.9283	0.027
84.60	163.2	106.9	92.86	1.9279	0.027
84.63	163.2	106.9	92.86	1.9275	0.027
84.67	163.3	107.0	92.87	1.9272	0.027
84.70	163.3	107.0	92.86	1.9268	0.027
84.73	163.4	107.1	92.87	1.9264	0.027
84.77	163.5	107.2	92.86	1.9261	0.027
84.80	163.7	107.4	92.87	1.9257	0.027
84.83	163.8	107.5	92.87	1.9253	0.027
84.87	163.8	107.5	92.87	1.9250	0.027
84.90	163.9	107.6	92.87	1.9246	0.027
84.93	164.1	107.8	92.87	1.9243	0.027
84.97	164.2	107.9	92.87	1.9239	0.027
85.00	164.2	107.9	92.87	1.9235	0.027
85.03	164.3	108.0	92.87	1.9232	0.027
85.07	164.4	108.1	92.87	1.9228	0.027
85.10	164.4	108.1	92.87	1.9224	0.027
85.13	164.5	108.2	92.87	1.9221	0.027
85.17	164.5	108.2	92.87	1.9217	0.027
85.20	164.7	108.3	92.87	1.9214	0.027
85.23	164.7	108.4	92.87	1.9210	0.027
85.27	164.8	108.5	92.87	1.9206	0.027
85.30	165.0	108.6	92.87	1.9203	0.027
85.33	165.0	108.6	92.87	1.9199	0.027
85.37	165.1	108.7	92.87	1.9196	0.027
85.40	165.1	108.8	92.88	1.9192	0.027
85.43	165.2	108.9	92.87	1.9188	0.027
85.47	165.3	108.9	92.87	1.9185	0.027
85.50	165.4	109.1	92.87	1.9181	0.027
85.53	165.5	109.2	92.87	1.9178	0.027
85.57	165.5	109.2	92.88	1.9174	0.027
85.60	165.7	109.3	92.87	1.9171	0.027
85.63	165.7	109.4	92.88	1.9167	0.027
85.67	165.8	109.5	92.88	1.9163	0.027
85.70	165.9	109.6	92.88	1.9160	0.028
85.73	166.0	109.7	92.88	1.9156	0.028
85.77	166.1	109.7	92.88	1.9153	0.028
85.80	166.1	109.8	92.88	1.9149	0.028
85.83	166.2	109.8	92.88	1.9146	0.028
85.87	166.3	110.0	92.88	1.9142	0.028
85.90	166.3	110.0	92.88	1.9139	0.028
85.93	166.4	110.1	92.88	1.9135	0.028
85.97	166.5	110.2	92.88	1.9131	0.028
86.00	166.6	110.3	92.88	1.9128	0.028
86.03	166.7	110.4	92.89	1.9124	0.028
86.07	166.8	110.5	92.89	1.9121	0.028
86.10	166.9	110.5	92.89	1.9117	0.028
86.13	166.9	110.6	92.88	1.9114	0.028
86.17	167.0	110.7	92.88	1.9110	0.028

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10560 Mull Drilling Co. Inc. Kennedy #1-5 DST #1

DATE: 11/29/97

TIME: 13:19:34

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	86.20	167.1	110.8	92.89	1.9107	0.028
	86.23	167.1	110.7	92.88	1.9103	0.028
	86.27	167.2	110.9	92.89	1.9100	0.028
	86.30	167.2	110.9	92.88	1.9096	0.028
	86.33	167.3	111.0	92.89	1.9093	0.028
	86.37	167.4	111.1	92.88	1.9089	0.028
	86.40	167.5	111.1	92.88	1.9086	0.028
	86.43	167.7	111.3	92.89	1.9082	0.028
	86.47	167.7	111.4	92.89	1.9079	0.028
***** End Shut-in 2	86.50	167.8	111.5	92.88	1.9075	0.028
***** Final Hydro.	380.57	1716.1	0.0	92.92		

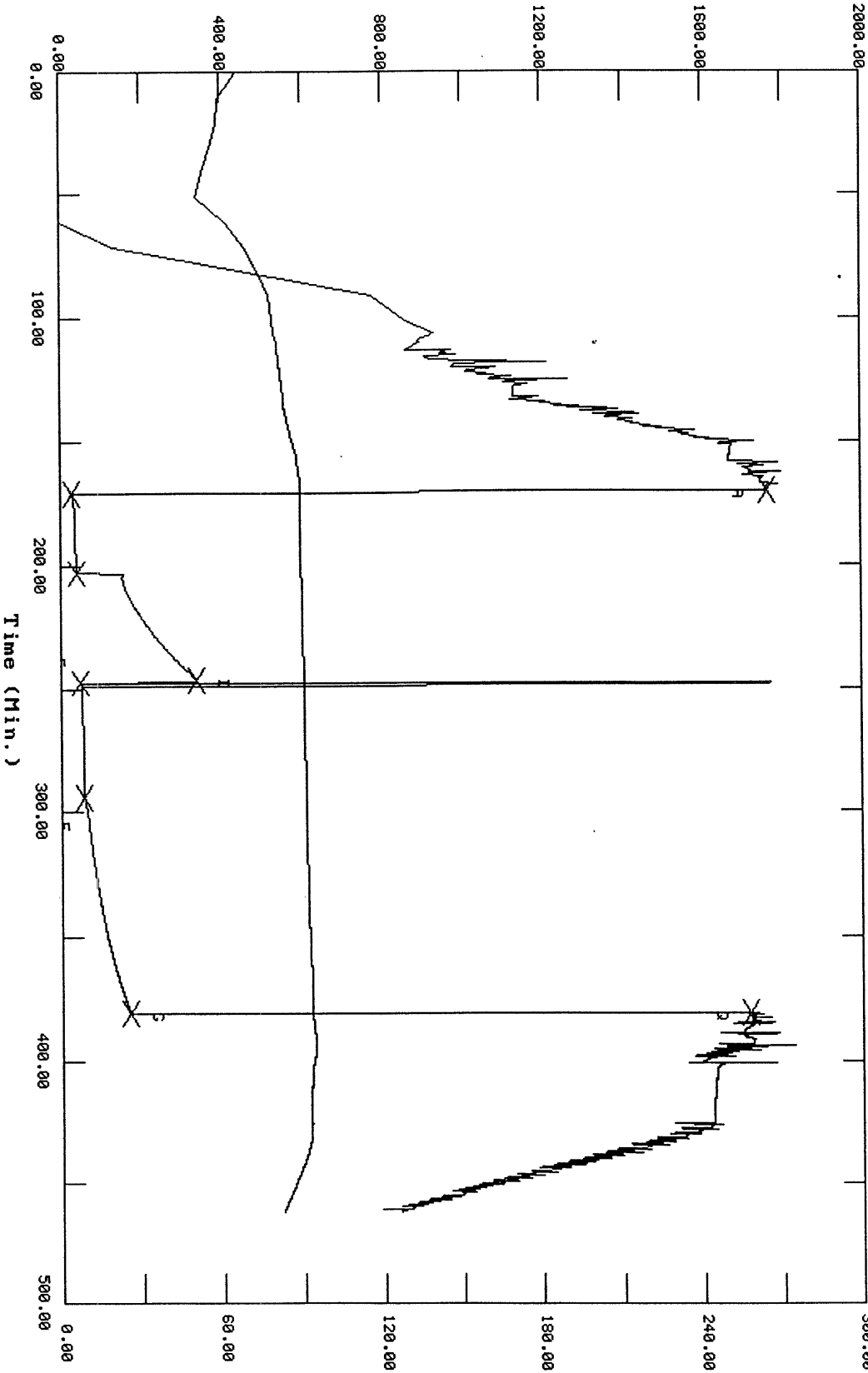
15-137-00405-00-00

10560 Mu11 Drilling Co. Inc. Kennedy #1-5 DST #1

TEST HISTORY

Flag Points
t (Min.) P (PSig)

A:	0.00	1766.52
B:	0.00	26.34
C:	32.00	39.33
D:	43.50	334.54
E:	0.00	47.52
F:	46.50	56.32
G:	86.50	167.80
Q:	0.00	1716.13

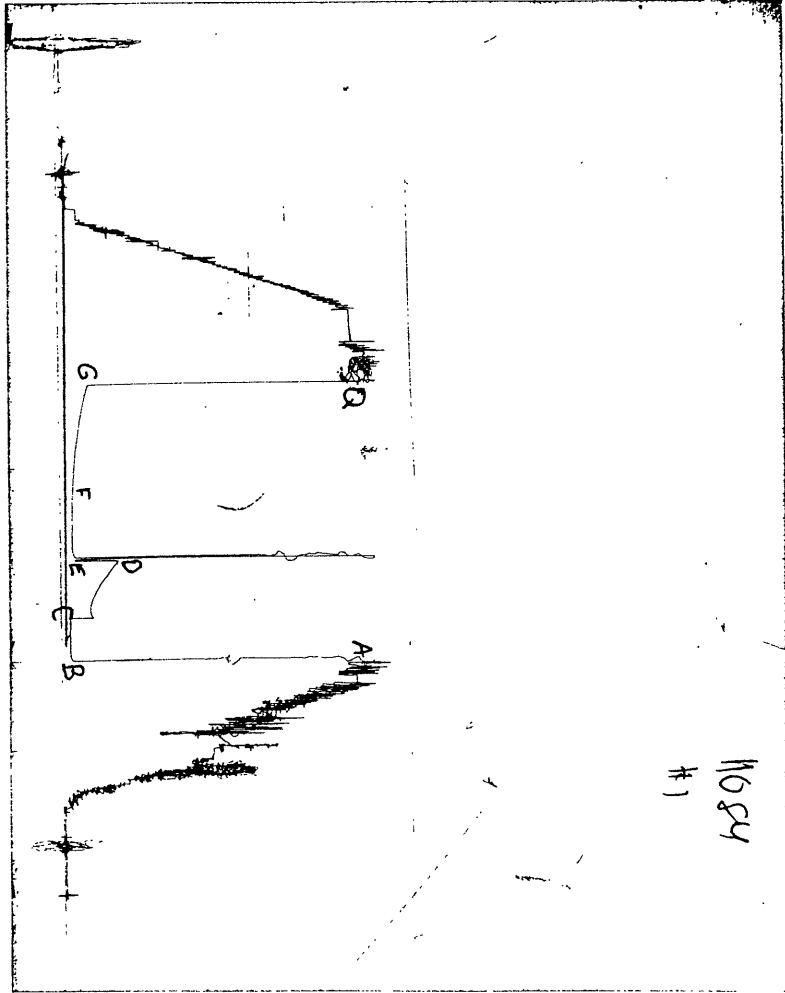


Temperature (DEG F)

Pressure (PSig)

Time (Min.)

15-137-20405-00-00



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

CHART PAGE

15-137-20405-00-00

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10560

Well Name & No. Keokuk # 1-5 Test No. 1 Date 11-29-97
 Company Mull Drilling Co. Inc Zone Tested LKC A-B
 Address Box 2758 Wichita KS 67207-2758 Elevation 2563 KB 2558 GL
 Co. Rep / Geo. Bill Stout Cont. Pickrell #10 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. S Twp. 3s Rge. 25w Co. Norton State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3513-3575 Initial Str Wt./Lbs. 58,000 Unseated Str Wt./Lbs. 58,000
 Anchor Length 62 Wt. Set Lbs. 40,000 Wt. Pulled Loose/Lbs. 95,000
 Top Packer Depth 3508 Tool Weight 2900
 Bottom Packer Depth 3513 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3575 Wt. Pipe Run _____ Drill Collar Run 173
 Mud Wt. 9.5 LCM _____ Vis. 47 WL 8.0 Drill Pipe Size 4 1/4" Ft. Run 3320
 Blow Description slid 2' to bottom - weak 1" blow building to 1 1/2"

SS - weak surface blow building to 1/2"

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
2	clean oil	65					
63	SOCM			10		90	

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

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud	<u>1767</u>	<u>1800</u>	PSI	Recorder No. <u>11084</u>	T-Started <u>14:15</u>
(B) First Initial Flow Pressure	<u>26</u>	<u>44</u>	PSI	(depth) <u>3517</u>	T-Open <u>14:17</u>
(C) First Final Flow Pressure	<u>39</u>	<u>44</u>	PSI	Recorder No. <u>2341</u>	T-Pulled <u>19:40</u>
(D) Initial Shut-in Pressure	<u>335</u>	<u>296</u>	PSI	(depth) <u>3550</u>	T-Out <u>2:51</u>
(E) Second Initial Flow Pressure	<u>48</u>	<u>44</u>	PSI	Recorder No. _____	
(F) Second Final Flow Pressure	<u>56</u>	<u>44</u>	PSI	(depth) _____	
(G) Final Shut-in Pressure	<u>167</u>	<u>121</u>	PSI	Initial Opening <u>30</u>	Test _____
(H) Final Hydrostatic Mud	<u>1716</u>	<u>1778</u>	PSI	Initial Shut-in <u>45</u>	Jars <u>✓</u>
		<u>AK1</u>		Final Flow <u>45</u>	Safety Joint _____
				Final Shut-in <u>90</u>	Straddle _____

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Approved By _____

Our Representative _____

TOTAL PRICE \$ _____