

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

API NO. 15- 039-20901 -00-00
County Deatur
NW -NW - SE - Sec. 14 Twp. 2S Rge 27 X W
2310 Feet from S (circle one) Line of Section
2310 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, S, NW or SW (circle one)

Operator: License # 30606
Name: Murfin Drilling Co., Inc.
Address 250 N. Water, Suite 300
City/State/Zip Wichita, KS 67202

Lease Name Long Well # 1-14
Field Name Unknown
Producing Formation _____

Purchaser: _____
Operator Contact Person: Larry M. Jack
Phone (316) 267 - 3241

Elevation: Ground 2611 KB 2616

Contractor: Name: Murfin Drilling Co., Inc.
License: 30606

Total Depth 3740 PBTB _____

Wellsite Geologist: Roger Welty

Amount of Surface Pipe Set and Cemented at 278 Feet

Designate Type of completion
 New Well _____ Re-Entry _____ Workover _____

Multiple Stage Cementing Collar Used? _____ Yes No

___ Oil ___ SWD ___ SIOW ___ Temp. Abd.
___ Gas ___ ENHR ___ SIGW
 Dry ___ Other (Core, WSW, Expl., Cathodic, etc)

If yes, show depth set _____ Feet

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

If Alternate II completion, cement circulated from _____

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. _____
1/28/97 2/04/97
Spud Date Date Reached TD Completion Date

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan D & A JK 8-6-98
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume 2500 bbls

Dewatering method used _____ Evaporation _____

Location of fluid disposal if hauled offsite: 2-19-97

Operator Name _____

Lease Name _____ License No. _____

Quarter 7 Sec. 7 Twp. _____ S Rng. E W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market, Room 2078, 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 Larry M. Jack

Title Larry M. Jack, Production Manager Date 2/18/97

Subscribed and sworn to before me this 18 day of February 19 97.

Notary Public Kerran Redington

Date Commission Expires 2/6/98

KERRAN REDINGTON
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 2-6-98

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

SIDE TWO

Operator name Murfin Drilling Co., Inc.

Lease Name Long Well # 1-14

Sec. 14 Twp. 2 S Rge. 27

East
 West

County Decatur

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.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample Name Top Datum Anhydrite 2146' + 470 B/Anhydrite 2178' + 438 Topeka 3285' - 669 Oread 3431' - 815 Heebner 3541' - 835 Toronto 3482' - 866 Lansing 3492' - 877 Pollnow 3518' - 902 K Zone 3658' - 1042 BKC 3691' - 1075
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
List all E.Log		

DUAL INDUCTION
COMPENSATED POROSITY
SONIC POROSITY

CASING RECORD <u> </u> New <u> </u> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
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
Surface	12 1/4"	8 5/8"	24#	278	60/40 Poz	165	3% cc, 2% gel
Production							

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top/Btm	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Csg				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner	<input type="checkbox"/> Yes <input type="checkbox"/> No
---------------	------	--------	-----------	-------	--

Date of First, Resumed Production, SWD or Inj.	D&A	Producing Method	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other
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Estimated Production Per 24 Hours	Oil $\frac{N}{A}$ Bbls	Gas $\frac{N}{A}$ Mcf	Water $\frac{N}{A}$ Bbls	Gas-Oil Ratio	Gravity
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Disposition of Gas: **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If vented, submit ACO-18.) Other (Specify) _____

ALLIED CEMENTING CO., INC. - 8981

Federal Tax I.D.#

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

SERVICE POINT

Oakley

ORIGINAL

CONFIDENTIAL

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
2-4-97	14	25	27		9:00 AM	9:30 AM	11:45 AM
LEASE	WELL #	LOCATION		COUNTY	STATE		
Long	1-14	Oberlin 12E-4N-3E-3S		Decatur	Kan		

CONTRACTOR MurFin Dels Co #3
 TYPE OF JOB PTA
 HOLE SIZE 7 1/2 T.D. 3740
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 XH DEPTH 2160'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER Same
 CEMENT AMOUNT ORDERED 190 SKS 60/40 per
6% Gel, 1/4" #10 Seal
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Walt
 # 102 HELPER Walt
 BULK TRUCK # 218 DRIVER Lannie
 BULK TRUCK # _____ DRIVER _____

HANDLING MILEAGE _____
 TOTAL _____

REMARKS:

SERVICE

25 SKS @ 2160'
 100 SKS @ 1420'
 40 SKS @ 330'
 10 SKS @ 40'
 15 SKS in P.H.

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 550
 EXTRA FOOTAGE @ _____
 MILEAGE _____ miles @ 2.50
 PLUG 9 1/2 D.H. @ _____ 2300

CHARGE TO: MurFin Dels Co.
 STREET _____
 CITY _____ STATE _____ ZIP _____

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.

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Kurt Van Duse

PRINTED NAME

RELEASED

SEP 16 1998

FROM CONFIDENTIAL

KCC

FEB 17,

CONFIDENTIAL

RECEIVED
 KANSAS CORP COMM
 1997 FEB 19 P 1-59

ALLIED CEMENTING CO., INC. - 5273

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

SERVICE POINT: Oakley

ORIGINAL
CONFIDENTIAL

DATE <u>1-27-97</u>	SEC. <u>14</u>	TWP. <u>2</u>	RANGE <u>27</u>	CALLED OUT	ON LOCATION <u>10:45 AM</u>	JOB START <u>12:30 PM</u>	JOB FINISH <u>1:00 PM</u>
LEASE <u>Long</u>	WELL# <u>1-14</u>	LOCATION <u>Oberlin 12E-4N-6W-7S</u>	COUNTY <u>Decatur</u>	STATE <u>Kan</u>			

OLD OR NEW (Circle one)

CONTRACTOR MurFin Drlg Co #3

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 279'

CASING SIZE 8 5/8 DEPTH 278'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

OWNER Same

CEMENT

AMOUNT ORDERED 180 sks @ 69.40 per

3% cc = 2.06 gal

EQUIPMENT

PUMP TRUCK CEMENTER Walt

191 HELPER Walt

BULK TRUCK

218 DRIVER Lennie

BULK TRUCK

DRIVER

COMMON @

POZMIX @

GEL @

CHLORIDE @

HANDLING @

MILEAGE @

RELEASED
SEP 16 1998

FROM CONFIDENTIAL

REMARKS:

Cement Did Cure

12 1/4

SERVICE

DEPTH OF JOB 278'

PUMP TRUCK CHARGE 445.00

EXTRA FOOTAGE @

MILEAGE miles @ 2.55

PLUG 8 5/8 Surface @ 45.00

TOTAL

KCC
FEB 17
CONFIDENTIAL

CHARGE TO: MurFin Drlg Co, Inc

STREET

CITY STATE ZIP

FLOAT EQUIPMENT

None

TOTAL

RECEIVED
KANSAS CORP COMM
1997 FEB 19 P 1:59

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.

TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

CONFIDENTIAL

ORIGINAL

EXTRA COPY

WELL NAME: Long 1-14
COMPANY: Murfin Drilling Co. Inc
LOCATION: Sec. 14 Twp. 2S Rge. 14W
Decatur County Kansas
DATE: 02/05/97

15-039-20901

RELEASED

SEP 16 1998

FROM CONFIDENTIAL

KCC

FEB 17

CONFIDENTIAL

RECEIVED
KANSAS CORP COMM
1997 FEB 19 P 2 00

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Murfin Drlg. Co, Inc.

DATE 1-31-97

WELL NAME: Long 1-14

KB 2616.00 ft

TICKET NO: 9762 DST #1

LOCATION : 14-2-27 Decatur-Co-Ks.

GR 2611.00 ft

FORMATION: Oread/Toronto

INTERVAL : 3428.00 To 3505.00 ft

TD 3505.00 ft

TEST TYPE: CONV

15-039-20901

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	2357			PF Fr. 2108 to 2138 hr
SI 45 Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 2138 to 2223 hr
SF 45 Clock(hrs)	12	12	Elec			SF Fr. 2223 to 2308 hr
FS 60 Depth(ft)	3502.0	3502.0	3433.0	0.0	0.0	FS Fr. 2308 to 2408 hr

	Field	1	2	3	4
A. Init Hydro	1866.0	1871.0	1785.0	0.0	0.0
B. First Flow	49.0	77.0	30.0	0.0	0.0
B1. Final Flow	68.0	77.0	42.0	0.0	0.0
C. In Shut-in	1116.0	1124.0	1118.0	0.0	0.0
D. Init Flow	78.0	96.0	46.0	0.0	0.0
E. Final Flow	88.0	96.0	62.0	0.0	0.0
F. Fl Shut-in	1096.0	1104.0	1103.0	0.0	0.0
G. Final Hydro	1736.0	1811.0	1708.0	0.0	0.0
Inside/Outside	0	0	I		

T STARTED	1940	hr
T ON BOTM	2103	hr
T OPEN	2108	hr
T PULLED	2408	hr
T OUT	0300	hr

TOOL DATA-----

Tool Wt.	1000.00	lbs
Wt Set On Packer	20000.00	lbs
Wt Pulled Loose	65000.00	lbs
Initial Str Wt	60000.00	lbs
Unseated Str Wt	60000.00	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	505.00	ft
D.P. Length	2924.00	ft

RECOVERY

Tot Fluid	60.00	ft of	60.00	ft in DC and	0.00	ft in DP
60.00	ft of	Drilling 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

BLOW DESCRIPTION

Initial Flow:
Weak blow, built to 1"

Initial Shut In:

Final Flow:
No blow

Final Shut In:

SAMPLES:
SENT TO:

FROM CONFIDENTIAL

Test Successful: Y

KCC
FEB 17
CONFIDENTIAL

RELEASED

SEP 16 1998

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	52.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00	ft
Btm. H. Temp.	100.00	F
Hole Condition	Good	
% Porosity	0.00	
Packer Size	6.75	in
No. of Packers	2	
Cushion Amt.	0.00	
Cushion Type		
Reversed Out N		
Tool Chased N		
Tester	Dan Bangle	
Co. Rep.	Roger Welty	
Contr.	Murfin	
Rig #	3	
Unit #		
Pump T.		

ORIGINAL

ORIGINAL

*** TOOL DIAGRAM *** CONV

WELL NAME: Long 1-14

LOCATION : 14-2-27 Decatur-Co-Ks.

TICKET No. 9762 D.S.T. No. 1 DATE 1-31-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 25

INTERVAL TOOL

TOTAL PACKERS AND ANCHOR 77

TOTAL TOOL 102

DRILL COLLAR ANCHOR IN INTERVAL

.C. ANCHOR STND.	Stands	Single	Total
.P. ANCHOR STND.	1	Single	Total 62
TOTAL ASSEMBLY 164		
.C. ABOVE TOOLS.	8	Single 1	Total 505
.P. ABOVE TOOLS.	40	Single 1	Total 2862
TOTAL DRILL COLLARS DRILL PIPE & TOOLS	.. 3531		
TOTAL DEPTH 3505		
TOTAL DRILL PIPE ABOVE K.B. 26		

REMARKS:

P.O. SUB	
C.O. SUB	3403
S.I. TOOL Sterling	3409
HMV Sterling	3414
JARS Sterling	3419
SAFETY JOINT na	
PACKER Top	3423
PACKER Bottom	3428
DEPTH 3428	
STUBB 1'	3429
ANCHOR 2' Perfs	3431
1' co	3432
Alpine Rec @	3432
1 Std dp 62'	3494
T.C.	
DEPTH	
1' co	3495
5' Perfs	3500
AK-1 Rec @ 3502	
BULLNOSE 5' Bullplug	3505
T.D.	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #9762 DST #1 Long 1-14 Murfin Drlg Co Inc

DATE: 01/31/97

TIME: 19:36:04

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	94.00	1784.9	0.0	96.01		
***** Start Flow 1	0.00	30.0	0.0	96.27		
	1.00	32.2	2.3	96.38		
	2.00	30.5	0.5	96.45		
	3.00	30.9	0.9	96.50		
	4.00	31.7	1.8	96.55		
	5.00	32.2	2.3	96.58		
	6.00	32.6	2.7	96.62		
	7.00	33.2	3.3	96.64		
	8.00	33.9	3.9	96.66		
	9.00	34.1	4.1	96.68		
	10.00	34.6	4.6	96.70		
	11.00	35.2	5.3	96.72		
	12.00	35.9	6.0	96.74		
	13.00	36.5	6.5	96.75		
	14.00	36.7	6.7	96.76		
	15.00	37.6	7.6	96.78		
	16.00	39.6	9.7	96.80		
	17.00	38.4	8.5	96.82		
	18.00	38.6	8.6	96.83		
	19.00	39.2	9.2	96.85		
	20.00	39.4	9.5	96.87		
	21.00	43.0	13.1	96.89		
	22.00	39.9	10	96.91		
	23.00	40.4	10.4	96.93		
	24.00	40.6	10.7	96.96		
	25.00	40.9	11.0	96.98		
	26.00	40.9	11.0	96.99		
	27.00	41.5	11.5	97.03		
	28.00	41.9	11.9	97.05		
***** End Flow 1	29.00	42.2	12.3	97.07		
***** Start Shutin 1	0.00	42.2	0.0	97.07	0.0000	0.002
	1.00	82.4	40.2	97.09	30.0000	0.007
	2.00	204.7	162.5	97.12	15.5000	0.042
	3.00	337.0	294.8	97.15	10.6667	0.114
	4.00	448.5	406.3	97.18	8.2500	0.201
	5.00	538.6	496.4	97.23	6.8000	0.290
	6.00	612.2	570.0	97.27	5.8333	0.375
	7.00	673.0	630.8	97.32	5.1429	0.453
	8.00	723.9	681.7	97.36	4.6250	0.524
	9.00	767.0	724.8	97.40	4.2222	0.588
	10.00	803.2	761.0	97.45	3.9000	0.645
	11.00	834.7	792.5	97.49	3.6364	0.697
	12.00	862.8	820.6	97.53	3.4167	0.744
	13.00	887.3	845.1	97.57	3.2308	0.787
	14.00	908.8	866.6	97.62	3.0714	0.826
	15.00	927.9	885.7	97.66	2.9333	0.861
	16.00	944.9	902.6	97.68	2.8125	0.893
	17.00	960.2	918.0	97.73	2.7059	0.922
	18.00	973.8	931.6	97.77	2.6111	0.948
	19.00	986.2	944.0	97.80	2.5263	0.973

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #9762 DST #1 Long 1-14 Murfin Drlg Co Inc

DATE: 01/31/97 TIME: 19:36:04

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	20.00	997.4	955.2	97.83	2.4500	0.995
	21.00	1007.6	965.4	97.86	2.3810	1.015
	22.00	1016.9	974.7	97.89	2.3182	1.034
	23.00	1025.6	983.4	97.92	2.2609	1.052
	24.00	1033.5	991.3	97.95	2.2083	1.068
	25.00	1040.7	998.5	97.99	2.1600	1.083
	26.00	1047.5	1005.3	98.01	2.1154	1.097
	27.00	1053.6	1011.4	98.04	2.0741	1.110
	28.00	1059.4	1017.2	98.06	2.0357	1.122
	29.00	1064.8	1022.6	98.08	2.0000	1.134
	30.00	1069.8	1027.6	98.10	1.9667	1.145
	31.00	1074.4	1032.2	98.13	1.9355	1.154
	32.00	1078.9	1036.7	98.16	1.9062	1.164
	33.00	1083.1	1040.9	98.18	1.8788	1.173
	34.00	1087.0	1044.8	98.21	1.8529	1.182
	35.00	1090.7	1048.5	98.23	1.8286	1.190
	36.00	1094.2	1052.0	98.25	1.8056	1.197
	37.00	1097.5	1055.3	98.27	1.7838	1.205
	38.00	1100.6	1058.4	98.29	1.7632	1.211
	39.00	1103.5	1061.3	98.32	1.7436	1.218
	40.00	1106.3	1064.1	98.34	1.7250	1.224
	41.00	1108.9	1066.7	98.35	1.7073	1.230
	42.00	1111.4	1069.2	98.37	1.6905	1.235
	43.00	1113.9	1071.7	98.40	1.6744	1.241
	44.00	1116.1	1073.9	98.43	1.6591	1.246
***** End Shut-in 1	45.00	1118.4	1076.2	98.43	1.6444	1.251
***** Start Flow 2	0.00	45.7	0.0	98.44		
	1.00	46.7	0.9	98.45		
	2.00	46.8	1.1	98.43		
	3.00	46.8	1.1	98.41		
	4.00	47.5	1.8	98.39		
	5.00	47.9	2.2	98.38		
	6.00	48.4	2.7	98.37		
	7.00	48.8	3.1	98.36		
	8.00	49.3	3.5	98.36		
	9.00	49.5	3.8	98.36		
	10.00	50.0	4.3	98.36		
	11.00	50.4	4.7	98.37		
	12.00	50.9	5.2	98.37		
	13.00	51.1	5.4	98.39		
	14.00	51.6	5.9	98.40		
	15.00	51.9	6.1	98.41		
	16.00	52.3	6.5	98.42		
	17.00	52.6	6.9	98.44		
	18.00	52.9	7.2	98.46		
	19.00	53.4	7.6	98.47		
	20.00	53.8	8.1	98.49		
	21.00	54.1	8.4	98.51		
	22.00	54.5	8.7	98.52		
	23.00	55.0	9.2	98.54		
	24.00	55.2	9.5	98.56		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #9762 DST #1 Long 1-14 Murfin Drlg Co Inc

DATE: 01/31/97

TIME: 19:36:04

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
25.00	55.4	9.7	98.58			
26.00	55.6	9.8	98.60			
27.00	55.8	10.1	98.62			
28.00	56.1	10.4	98.64			
29.00	56.5	10.7	98.65			
30.00	56.8	11.1	98.68			
31.00	57.1	11.3	98.69			
32.00	57.4	11.7	98.71			
33.00	57.7	12.0	98.73			
34.00	58.2	12.4	98.75			
35.00	58.5	12.8	98.78			
36.00	58.8	13.1	98.80			
37.00	59.1	13.3	98.81			
38.00	59.5	13.8	98.83			
39.00	59.8	14.1	98.85			
40.00	60.2	14.4	98.86			
41.00	60.5	14.8	98.89			
42.00	60.8	15.0	98.91			
43.00	61.1	15.4	98.93			
44.00	61.5	15.8	98.95			
***** End Flow 2						
***** Start Shutin 2	0.00	61.5	0.0	98.95	0.0000	0.004
	1.00	76.7	15.2	98.97	74.0000	0.006
	2.00	153.1	91.6	98.99	37.5000	0.023
	3.00	257.4	195.9	99.01	25.3333	0.066
	4.00	360.4	298.9	99.04	19.2500	0.130
	5.00	449.9	388.4	99.07	15.6000	0.202
	6.00	525.3	463.8	99.10	13.1667	0.276
	7.00	588.6	527.1	99.15	11.4286	0.346
	8.00	641.9	580.4	99.18	10.1250	0.412
	9.00	687.2	625.7	99.23	9.1111	0.472
	10.00	726.2	664.7	99.26	8.3000	0.527
	11.00	760.0	698.4	99.30	7.6364	0.578
	12.00	789.5	728.0	99.33	7.0833	0.623
	13.00	815.4	753.8	99.38	6.6154	0.665
	14.00	838.2	776.7	99.41	6.2143	0.703
	15.00	858.6	797.1	99.45	5.8667	0.737
	16.00	876.7	815.2	99.48	5.5625	0.769
	17.00	893.2	831.6	99.51	5.2941	0.798
	18.00	907.8	846.3	99.54	5.0556	0.824
	19.00	921.3	859.8	99.58	4.8421	0.849
	20.00	933.3	871.8	99.60	4.6500	0.871
	21.00	944.4	882.9	99.55	4.4762	0.892
	22.00	954.8	893.3	99.67	4.3182	0.912
	23.00	964.2	902.7	99.69	4.1739	0.930
	24.00	972.9	911.4	99.71	4.0417	0.947
	25.00	981.0	919.5	99.74	3.9200	0.962
	26.00	988.5	927.0	99.74	3.8077	0.977
	27.00	995.5	933.9	99.79	3.7037	0.991
	28.00	1001.9	940.4	99.81	3.6071	1.004
	29.00	1008.0	946.5	99.84	3.5172	1.016
	30.00	1013.6	952.1	99.87	3.4333	1.027

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #9762 DST #1 Long 1-14 Murfin Drlg Co Inc

DATE: 01/31/97 TIME: 19:36:04

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	31.00	1019.0	957.5	99.89	3.3548	1.038
	32.00	1024.2	962.7	99.91	3.2812	1.049
	33.00	1028.9	967.4	99.94	3.2121	1.059
	34.00	1033.4	971.9	99.95	3.1471	1.068
	35.00	1037.8	976.2	99.99	3.0857	1.077
	36.00	1041.9	980.4	100.02	3.0278	1.085
	37.00	1045.6	984.1	100.03	2.9730	1.093
	38.00	1049.3	987.8	100.05	2.9211	1.101
	39.00	1052.9	991.4	100.07	2.8718	1.109
	40.00	1056.1	994.6	100.09	2.8250	1.115
	41.00	1059.3	997.8	100.11	2.7805	1.122
	42.00	1062.3	1000.8	100.12	2.7381	1.129
	43.00	1065.3	1003.8	100.14	2.6977	1.135
	44.00	1068.1	1006.6	100.17	2.6591	1.141
	45.00	1070.8	1009.3	100.18	2.6222	1.147
	46.00	1073.4	1011.9	100.21	2.5870	1.152
	47.00	1075.9	1014.4	100.22	2.5532	1.157
	48.00	1078.3	1016.8	100.24	2.5208	1.163
	49.00	1080.6	1019.1	100.26	2.4898	1.168
	50.00	1082.6	1021.1	100.15	2.4600	1.172
	51.00	1084.8	1023.3	100.29	2.4314	1.177
	52.00	1086.9	1025.4	100.31	2.4038	1.181
	53.00	1089.0	1027.4	100.33	2.3774	1.186
	54.00	1090.8	1029.3	100.34	2.3519	1.190
	55.00	1092.6	1031.1	100.36	2.3273	1.194
	56.00	1094.5	1033.0	100.38	2.3036	1.198
	57.00	1096.2	1034.7	100.39	2.2807	1.202
	58.00	1097.9	1036.3	100.41	2.2586	1.205
	59.00	1099.4	1037.9	100.43	2.2373	1.209
	60.00	1101.0	1039.5	100.43	2.2167	1.212
***** End Shut-in 2	61.00	1102.6	1041.1	100.44	2.1967	1.216
***** Final Hydro.	277.00	1707.6	0.0	100.47		

TEST HISTORY

Tk #9762 DST #1 Long 1-14 Murfin Drlg Co Inc

Flag Points
t(Min.) P(PSig)

A:	0.00	1784.88
B:	0.00	29.95
C:	29.00	42.21
D:	45.00	1118.41
E:	0.00	45.73
F:	44.00	61.51
G:	61.00	1102.64
Q:	0.00	1707.59

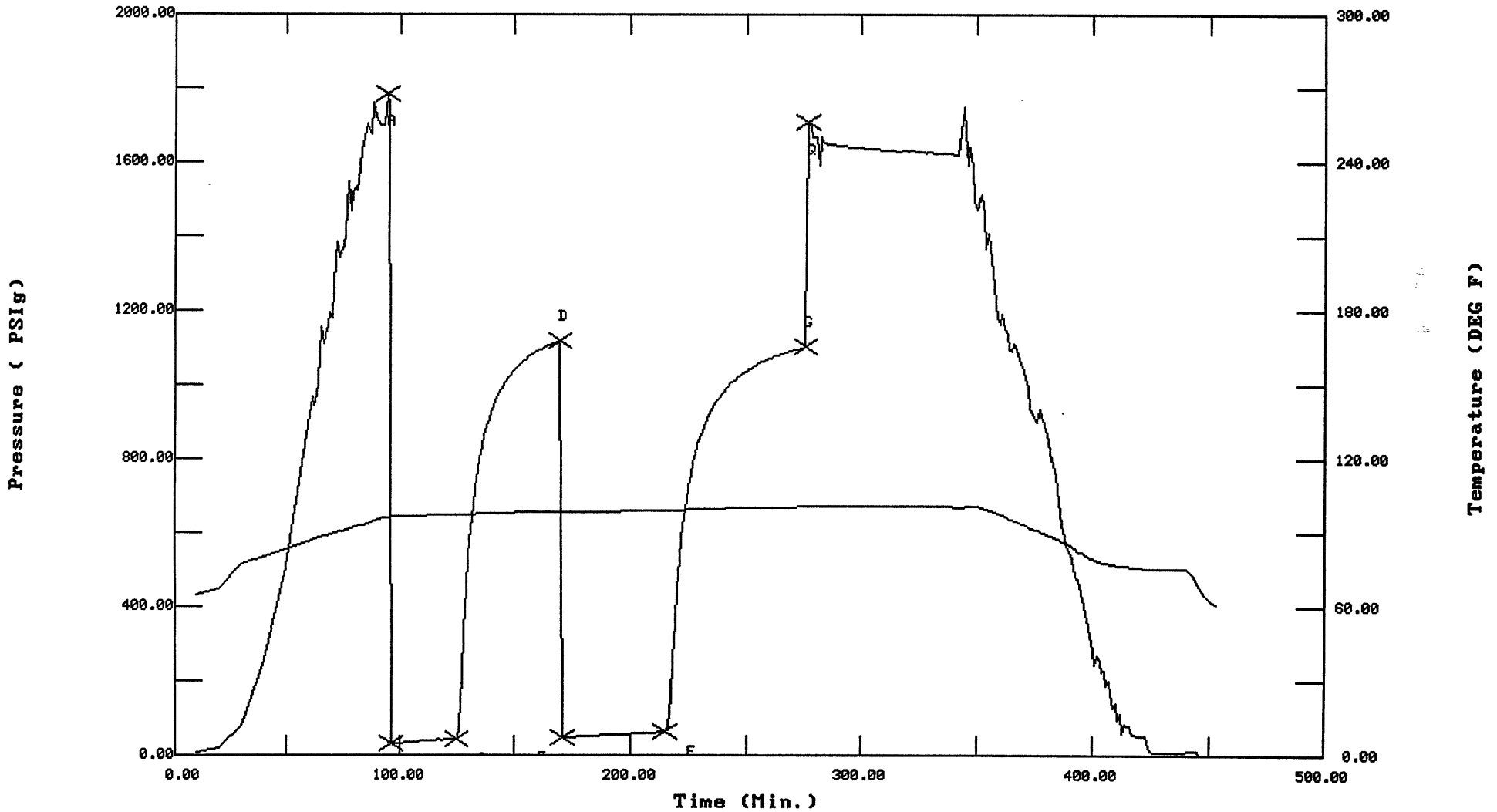
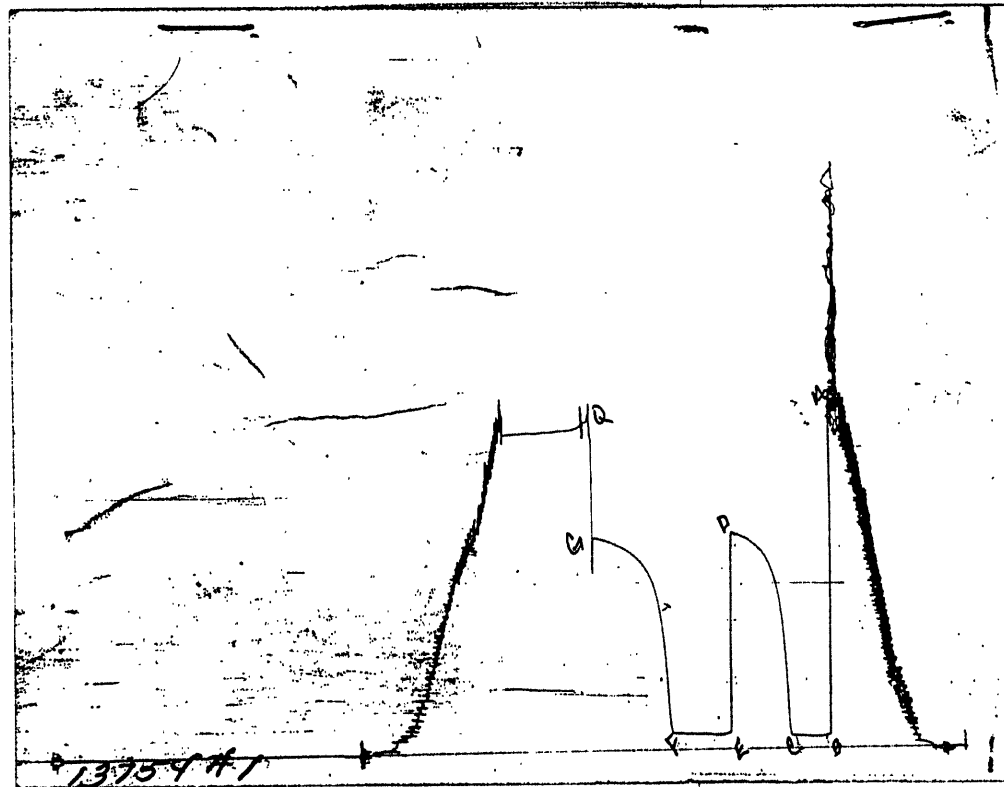


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Murfin Drlg. Co, Inc.

DATE 2-1-97

WELL NAME: Long 1-14

KB 2616.00 ft

TICKET NO: 9763

DST #2

LOCATION : 14-2-27 Decatur-Co-Ks

GR 2611.00 ft

FORMATION: Lansing KC "B"

INTERVAL : 3507.00 To 3528.00 ft

TD 3528.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	2357			PF Fr. 1810 to 1840 hr
SI 45 Range (Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 1840 to 1925 hr
SF 60 Clock (hrs)	12	12	Elec			SF Fr. 1925 to 2025 hr
FS 90 Depth(ft)	3525.0	3525.0	3508.0	0.0	0.0	FS Fr. 2025 to 2155 hr

	Field	1	2	3	4	
A. Init Hydro	1916.0	1880.0	1830.0	0.0	0.0	T STARTED 1654 hr
B. First Flow	19.0	25.0	26.0	0.0	0.0	T ON BOTM 1805 hr
B1. Final Flow	29.0	35.0	38.0	0.0	0.0	T OPEN 1810 hr
C. In Shut-in	1086.0	1113.0	1133.0	0.0	0.0	T PULLED 2155 hr
D. Init Flow	49.0	60.0	39.0	0.0	0.0	T OUT 2330 hr
E. Final Flow	68.0	65.0	66.0	0.0	0.0	
F. Fl Shut-in	1096.0	1109.0	1121.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1826.0	1835.0	1789.0	0.0	0.0	Tool Wt. 1000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 60000.00 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 505.00 ft
						D.P. Length 2980.00 ft

RECOVERY

Tot Fluid 105.00 ft of 105.00 ft in DC and 0.00 ft in DP
 325.00 ft of Gas in pipe
 45.00 ft of Clean gassy oil 20%g 80%o
 60.00 ft of Mud cut Gassy oil 10%g 60%o 30%m
 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 30.00

BLOW DESCRIPTION

Initial Flow:
 Weak blow, built to 4"

Initial Shut In:

Final Flow:
 Weak blow, built to 3"

Final Shut In:

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	55.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	101.00 F
Hole Condition	Good
% Porosity	8.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00

Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Dan Bangle
 Co. Rep. Roger Welty
 Contr. Murfin
 Rig # 3
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Long 1-14
 LOCATION : 14-2-27 Decatur-Co-Ks
 TICKET No. 9763 D.S.T. No. 2 DATE 2-1-97
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 25
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 21
 TOTAL TOOL 46
 DRILL COLLAR ANCHOR IN INTERVAL
 O.C. ANCHOR STND.Stands Single Total
 O.P. ANCHOR STND.Stands Single Total
 TOTAL ASSEMBLY 46
 O.C. ABOVE TOOLS.Stands8 Single 1 Total 505
 O.P. ABOVE TOOLS.Stands48 Single 1 Total 2980
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3531
 TOTAL DEPTH 3528
 TOTAL DRILL PIPE ABOVE K.B. 3
 REMARKS:

P.O. SUB	
C.O. SUB	3482
S.I. TOOL Sterling	3488
HMV Sterling	3493
JARS Sterling	3498
SAFETY JOINT na	
PACKER Top	3502
PACKER Bottom	3507
DEPTH 3507	
STUBB 1'	3508
ANCHOR Alpine Rec @ 3509	
T.C.	
DEPTH	
5' Perfs	3513
5' Perfs	3518
5' Perfs	3523
AK-1 Rec @ 3525	3525
BULLNOSE 5' Bullplug	3528
T.D.	

Operator.....: Murfin Drilling Co Inc
Well Name.....: Long 1-14
DST Number.....: 2

Location.: 14-2-27 Decatur Cty KS Recorder No...: 2357
Test Type: Conv Recorder Depth: 3508
Formation: Lansing KC B Test Interval.: 3507-3528

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....: 4.00 ft
Porosity.....: 8.00 %
Bottom Hole Temp.....: 101.00 F
Specific Gravity.....: 0.036
API Gravity.....: 30.00
Compressibility.....: 0.000002 /psi
Viscosity.....: 20.0655 cp
Total Recovery.....: 105.00 ft
Total Flowing Time.....: 90.00 min.
Flow Rate.....: 16.38 bbls/d
Final Flowing Pressure.....: 66.00 psi
Horner Slope.....: 92.9597 psi/cycle
Extrapolated Pressure.....: 1149.37 psi
Formation Volume Factor.....: 1.03 Reservoir/Surface
Well Bore Radius.....: 3.94 in

RESULTS:

Effective Permeability.....: 148.292869 md
Flow Capacity.....: 593.1715 md.ft
Transmissibility.....: 29.5618 md.ft/cp
Skin Factor.....: 7.4984
Radius of Investigation.....: 225.09708 ft
Damage Ratio.....: 2.2676
Productivity Index.....: 0.0151 bbls/psi.d
Productivity Index W/O Damage.: 0.0343 bbls/psi.d

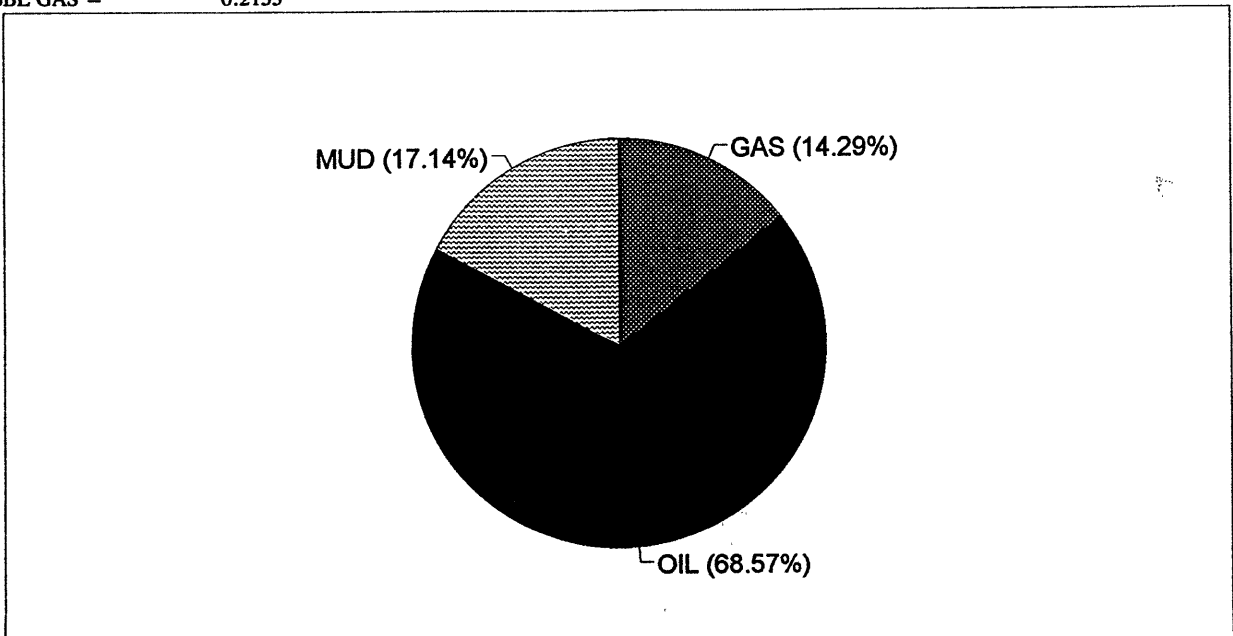
CALCULATED RECOVERY ANALYSIS

DST 2

TICKET 9763

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	45	20	9	80	36	0		0	
PIPE 2	60	10	6	60	36	0	30	18	
3			0		0	0		0	
4			0		0	0		0	
5			0		0	0		0	
6			0		0	0		0	
WEIGHT 1			0		0	0		0	
PIPE 2			0		0	0		0	
3			0		0	0		0	
4			0		0	0		0	
DRILL 1			0		0	0		0	
COLLARS 2			0		0	0		0	
3			0		0	0		0	
4			0		0	0		0	
5			0		0	0		0	
TOTAL	105		15		72		0		18

		HRS OPEN		BBL/DAY
BBL OIL=	1.02384	*	1.5	= 16.38144
BBL WATER=	0	*		= 0
BBL MUD=	0.25596			
BBL GAS =	0.2133			



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9763 DST#2 Long 1-14 Murfin Drlg Co Inc

DATE: 02/01/97

TIME: 16:55:24

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	75.00	1830.4	0.0	91.79		
***** Start Flow 1	0.00	25.8	0.0	91.96		
	1.00	26.8	1.0	92.11		
	2.00	23.9	-1.8	92.24		
	3.00	23.5	-2.3	92.38		
	4.00	24.0	-1.8	92.52		
	5.00	24.8	-0.9	92.65		
	6.00	25.7	-0.1	92.77		
	7.00	26.3	0.6	92.87		
	8.00	27.2	1.4	92.95		
	9.00	27.8	2.0	93.00		
	10.00	28.4	2.6	93.07		
	11.00	28.9	3.1	93.13		
	12.00	29.3	3.5	93.18		
	13.00	30.4	4.6	93.27		
	14.00	30.6	4.9	93.39		
	15.00	31.0	5.3	93.50		
	16.00	31.4	5.6	93.61		
	17.00	32.0	6.2	93.71		
	18.00	32.7	7.0	93.79		
	19.00	33.1	7.3	93.86		
	20.00	33.3	7.6	93.92		
	21.00	33.8	8.1	93.98		
	22.00	34.1	8.3	94.02		
	23.00	34.5	8.7	94.06		
	24.00	34.9	9.1	94.10		
	25.00	35.3	9.6	94.14		
	26.00	35.5	9.7	94.18		
	27.00	36.0	10.2	94.22		
	28.00	36.2	10.5	94.26		
	29.00	36.3	10.6	94.31		
	30.00	37.2	11.4	94.36		
	31.00	37.8	12.1	94.41		
***** End Flow 1	32.00	37.8	12.1	94.46		
***** Start Shutin 1	0.00	37.8	0.0	94.46	0.0000	0.001
	1.00	45.7	7.9	94.52	33.0000	0.002
	2.00	61.4	23.6	94.58	17.0000	0.004
	3.00	82.5	44.6	94.64	11.6667	0.007
	4.00	113.0	75.1	94.70	9.0000	0.013
	5.00	161.3	123.5	94.76	7.4000	0.026
	6.00	250.4	212.6	94.83	6.3333	0.063
	7.00	412.1	374.2	94.90	5.5714	0.170
	8.00	643.5	605.7	94.97	5.0000	0.414
	9.00	853.2	815.4	95.05	4.5556	0.728
	10.00	981.2	943.3	95.14	4.2000	0.963
	11.00	1045.2	1007.4	95.22	3.9091	1.093
	12.00	1076.0	1038.2	95.32	3.6667	1.158
	13.00	1091.6	1053.8	95.40	3.4615	1.192
	14.00	1100.3	1062.4	95.48	3.2857	1.211
	15.00	1105.6	1067.7	95.55	3.1333	1.222
	16.00	1109.3	1071.4	95.63	3.0000	1.230

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9763 DST#2 Long 1-14 Murfin Drlg Co Inc

DATE: 02/01/97

TIME: 16:55:24

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	17.00	1112.0	1074.2	95.69	2.8824	1.237
	18.00	1114.1	1076.3	95.75	2.7778	1.241
	19.00	1116.0	1078.1	95.82	2.6842	1.245
	20.00	1117.5	1079.6	95.88	2.6000	1.249
	21.00	1118.7	1080.9	95.92	2.5238	1.252
	22.00	1120.0	1082.2	95.97	2.4545	1.254
	23.00	1121.1	1083.3	96.02	2.3913	1.257
	24.00	1122.0	1084.2	96.06	2.3333	1.259
	25.00	1122.9	1085.1	96.11	2.2800	1.261
	26.00	1123.8	1085.9	96.15	2.2308	1.263
	27.00	1124.5	1086.7	96.19	2.1852	1.265
	28.00	1125.1	1087.3	96.23	2.1429	1.266
	29.00	1125.8	1088.0	96.27	2.1034	1.267
	30.00	1126.6	1088.7	96.31	2.0667	1.269
	31.00	1127.2	1089.4	96.35	2.0323	1.271
	32.00	1127.8	1090.0	96.39	2.0000	1.272
	33.00	1128.4	1090.6	96.43	1.9697	1.273
	34.00	1129.0	1091.1	96.47	1.9412	1.275
	35.00	1129.4	1091.6	96.51	1.9143	1.276
	36.00	1130.0	1092.2	96.54	1.8889	1.277
	37.00	1130.2	1092.4	96.57	1.8649	1.277
	38.00	1130.8	1093.0	96.61	1.8421	1.279
	39.00	1131.3	1093.4	96.64	1.8205	1.280
	40.00	1131.7	1093.8	96.67	1.8000	1.281
	41.00	1132.2	1094.3	96.71	1.7805	1.282
	42.00	1132.6	1094.8	96.75	1.7619	1.283
	43.00	1133.0	1095.2	96.78	1.7442	1.284
***** End Shut-in 1	44.00	1133.4	1095.5	96.81	1.7273	1.284
***** Start Flow 2	0.00	39.3	0.0	96.82		
	1.00	40.7	1.4	96.83		
	2.00	41.6	2.3	96.81		
	3.00	42.2	2.9	96.80		
	4.00	42.8	3.5	96.80		
	5.00	43.1	3.9	96.81		
	6.00	43.7	4.4	96.81		
	7.00	44.1	4.8	96.83		
	8.00	44.7	5.5	96.85		
	9.00	45.1	5.8	96.88		
	10.00	45.9	6.6	96.91		
	11.00	46.2	7.0	96.94		
	12.00	46.9	7.6	96.99		
	13.00	47.4	8.1	97.02		
	14.00	48.0	8.7	97.06		
	15.00	48.8	9.5	97.11		
	16.00	49.5	10.2	97.15		
	17.00	50.1	10.8	97.20		
	18.00	50.5	11.2	97.24		
	19.00	50.7	11.4	97.28		
	20.00	51.2	11.9	97.33		
	21.00	51.4	12.2	97.38		
	22.00	51.8	12.5	97.43		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9763 DST#2 Long 1-14 Murfin Drlg Co Inc

DATE: 02/01/97

TIME: 16:55:24

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
23.00	52.4	13.1	97.47			
24.00	52.9	13.6	97.52			
25.00	53.4	14.1	97.56			
26.00	54.0	14.7	97.61			
27.00	54.3	15.0	97.64			
28.00	54.5	15.2	97.69			
29.00	54.8	15.5	97.74			
30.00	55.3	16.0	97.78			
31.00	55.6	16.3	97.83			
32.00	56.1	16.9	97.87			
33.00	56.9	17.6	97.91			
34.00	57.1	17.8	97.95			
35.00	57.1	17.9	98.00			
36.00	57.6	18.3	98.03			
37.00	58.2	19.0	98.08			
38.00	58.6	19.3	98.12			
39.00	59.2	20.0	98.16			
40.00	59.4	20.1	98.20			
41.00	59.8	20.6	98.24			
42.00	60.2	20.9	98.27			
43.00	60.8	21.5	98.31			
44.00	61.3	22.1	98.35			
45.00	61.6	22.3	98.39			
46.00	61.8	22.5	98.43			
47.00	62.1	22.8	98.46			
48.00	63.0	23.8	98.50			
49.00	63.4	24.1	98.54			
50.00	63.4	24.2	98.58			
51.00	63.8	24.5	98.61			
52.00	64.3	25.0	98.65			
53.00	64.9	25.6	98.68			
54.00	64.8	25.5	98.72			
55.00	64.8	25.5	98.75			
56.00	65.1	25.8	98.79			
57.00	65.4	26.1	98.83			
58.00	65.9	26.6	98.86			
59.00	66.2	26.9	98.89			
60.00	66.4	27.1	98.92			
***** End Flow 2						
***** Start Shutin 2	0.00	66.4	0.0	98.92	0.0000	0.004
	1.00	71.8	5.5	98.96	93.0000	0.005
	2.00	93.7	27.3	99.00	47.0000	0.009
	3.00	123.7	57.3	99.04	31.6667	0.015
	4.00	167.2	100.8	99.07	24.0000	0.028
	5.00	234.2	167.9	99.11	19.4000	0.055
	6.00	343.7	277.3	99.15	16.3333	0.118
	7.00	510.3	443.9	99.20	14.1429	0.260
	8.00	703.4	637.0	99.24	12.5000	0.495
	9.00	860.3	794.0	99.31	11.2222	0.740
	10.00	957.5	891.1	99.36	10.2000	0.917
	11.00	1010.7	944.4	99.43	9.3636	1.022
	12.00	1038.9	972.6	99.47	8.6667	1.079

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9763 DST#2 Long 1-14 Murfin Drlg Co Inc

DATE: 02/01/97

TIME: 16:55:24

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
13.00	1054.5	988.1	99.54	8.0769	1.112
14.00	1063.4	997.1	99.59	7.5714	1.131
15.00	1069.2	1002.9	99.63	7.1333	1.143
16.00	1073.4	1007.1	99.68	6.7500	1.152
17.00	1076.4	1010.1	99.72	6.4118	1.159
18.00	1079.1	1012.7	99.77	6.1111	1.164
19.00	1081.3	1014.9	99.80	5.8421	1.169
20.00	1083.2	1016.8	99.85	5.6000	1.173
21.00	1084.8	1018.5	99.87	5.3810	1.177
22.00	1086.3	1019.9	99.91	5.1818	1.180
23.00	1087.7	1021.3	99.95	5.0000	1.183
24.00	1088.9	1022.5	99.98	4.8333	1.186
25.00	1090.0	1023.7	100.01	4.6800	1.188
26.00	1091.2	1024.8	100.04	4.5385	1.191
27.00	1092.1	1025.8	100.07	4.4074	1.193
28.00	1093.1	1026.7	100.10	4.2857	1.195
29.00	1093.9	1027.5	100.13	4.1724	1.197
30.00	1094.7	1028.4	100.15	4.0667	1.198
31.00	1095.7	1029.3	100.17	3.9677	1.200
32.00	1096.4	1030.0	100.21	3.8750	1.202
33.00	1097.1	1030.7	100.23	3.7879	1.204
34.00	1097.9	1031.6	100.26	3.7059	1.205
35.00	1098.7	1032.3	100.29	3.6286	1.207
36.00	1099.3	1032.9	100.31	3.5556	1.208
37.00	1100.0	1033.7	100.33	3.4865	1.210
38.00	1100.7	1034.3	100.36	3.4211	1.212
39.00	1101.3	1034.9	100.39	3.3590	1.213
40.00	1102.0	1035.6	100.41	3.3000	1.214
41.00	1102.6	1036.2	100.44	3.2439	1.216
42.00	1103.1	1036.8	100.46	3.1905	1.217
43.00	1103.7	1037.3	100.48	3.1395	1.218
44.00	1104.5	1038.1	100.50	3.0909	1.220
45.00	1105.0	1038.6	100.52	3.0444	1.221
46.00	1105.4	1039.0	100.55	3.0000	1.222
47.00	1106.0	1039.6	100.57	2.9574	1.223
48.00	1106.3	1039.9	100.59	2.9167	1.224
49.00	1106.9	1040.5	100.60	2.8776	1.225
50.00	1107.3	1041.0	100.63	2.8400	1.226
51.00	1107.8	1041.5	100.65	2.8039	1.227
52.00	1108.3	1041.9	100.68	2.7692	1.228
53.00	1108.8	1042.4	100.70	2.7358	1.229
54.00	1109.3	1042.9	100.72	2.7037	1.230
55.00	1109.7	1043.3	100.74	2.6727	1.231
56.00	1110.1	1043.7	100.76	2.6429	1.232
57.00	1110.4	1044.0	100.77	2.6140	1.233
58.00	1110.9	1044.5	100.79	2.5862	1.234
59.00	1111.2	1044.8	100.81	2.5593	1.235
60.00	1111.7	1045.3	100.83	2.5333	1.236
61.00	1112.0	1045.7	100.85	2.5082	1.237
62.00	1112.5	1046.1	100.88	2.4839	1.238
63.00	1112.9	1046.5	100.89	2.4603	1.238

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9763 DST#2 Long 1-14 Murfin Drlg Co Inc

DATE: 02/01/97

TIME: 16:55:24

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
64.00	1113.2	1046.8	100.91	2.4375	1.239	
65.00	1113.6	1047.3	100.92	2.4154	1.240	
66.00	1114.0	1047.7	100.95	2.3939	1.241	
67.00	1114.3	1047.9	100.97	2.3731	1.242	
68.00	1114.7	1048.3	100.98	2.3529	1.243	
69.00	1115.1	1048.7	101.00	2.3333	1.243	
70.00	1115.3	1048.9	101.02	2.3143	1.244	
71.00	1115.6	1049.3	101.04	2.2958	1.245	
72.00	1116.1	1049.7	101.05	2.2778	1.246	
73.00	1116.3	1049.9	101.07	2.2603	1.246	
74.00	1116.6	1050.2	101.09	2.2432	1.247	
75.00	1117.0	1050.6	101.10	2.2267	1.248	
76.00	1117.3	1050.9	101.12	2.2105	1.248	
77.00	1117.7	1051.3	101.14	2.1948	1.249	
78.00	1117.8	1051.4	101.17	2.1795	1.250	
79.00	1118.2	1051.8	101.17	2.1646	1.250	
80.00	1118.4	1052.0	101.19	2.1500	1.251	
81.00	1118.8	1052.5	101.21	2.1358	1.252	
82.00	1119.0	1052.6	101.22	2.1220	1.252	
83.00	1119.4	1053.0	101.24	2.1084	1.253	
84.00	1119.7	1053.3	101.26	2.0952	1.254	
85.00	1120.0	1053.6	101.28	2.0824	1.254	
86.00	1120.3	1053.9	101.28	2.0698	1.255	
87.00	1120.5	1054.1	101.30	2.0575	1.256	
88.00	1120.8	1054.4	101.31	2.0455	1.256	
***** End Shut-in 2	89.00	1121.0	1054.6	101.34	2.0337	1.257
***** Final Hydro.	304.00	1789.8	0.0	101.39		

TEST HISTORY

Tk#9763 DST#2 Long 1-14 Murfin Drlg Co Inc

Flag Points
t(Min.) P(PSig)

A:	0.00	1830.37
B:	0.00	25.76
C:	32.00	37.84
D:	44.00	1133.35
E:	0.00	39.27
F:	60.00	66.38
G:	89.00	1121.02
Q:	0.00	1789.84

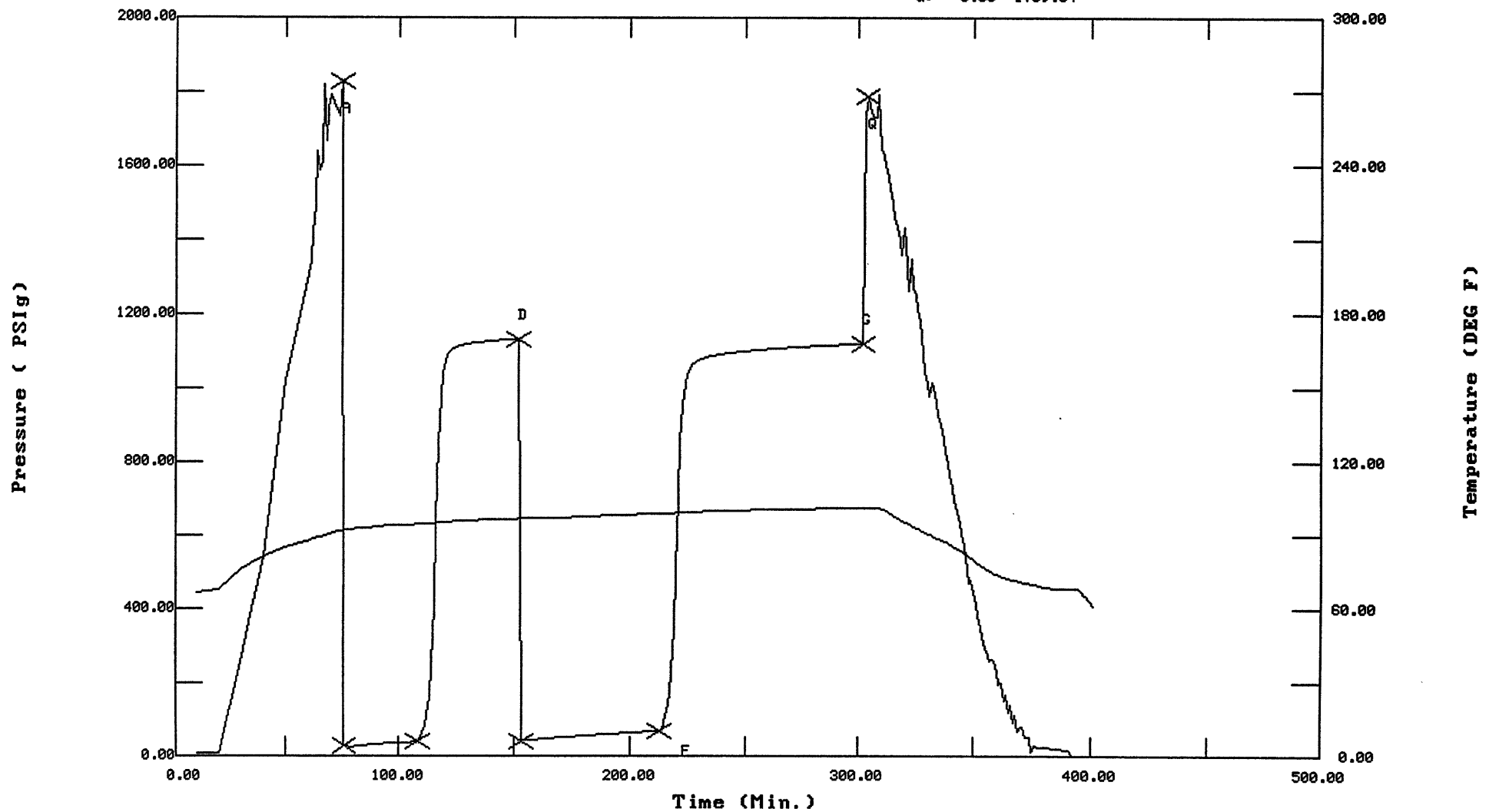
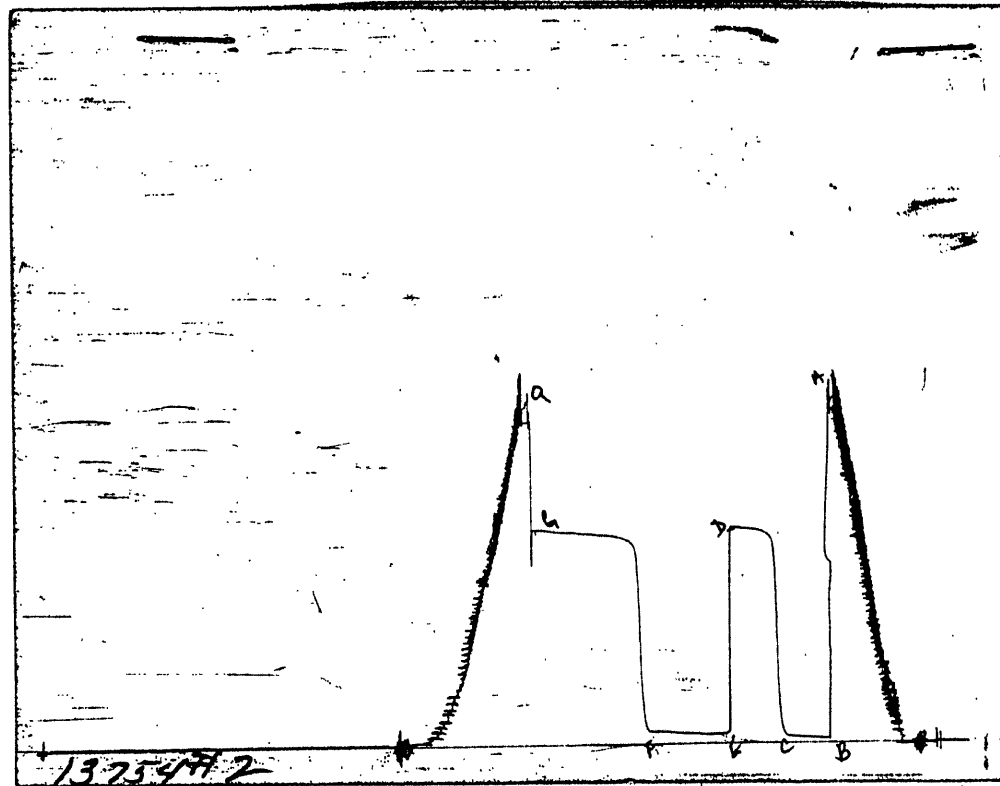


CHART PAGE



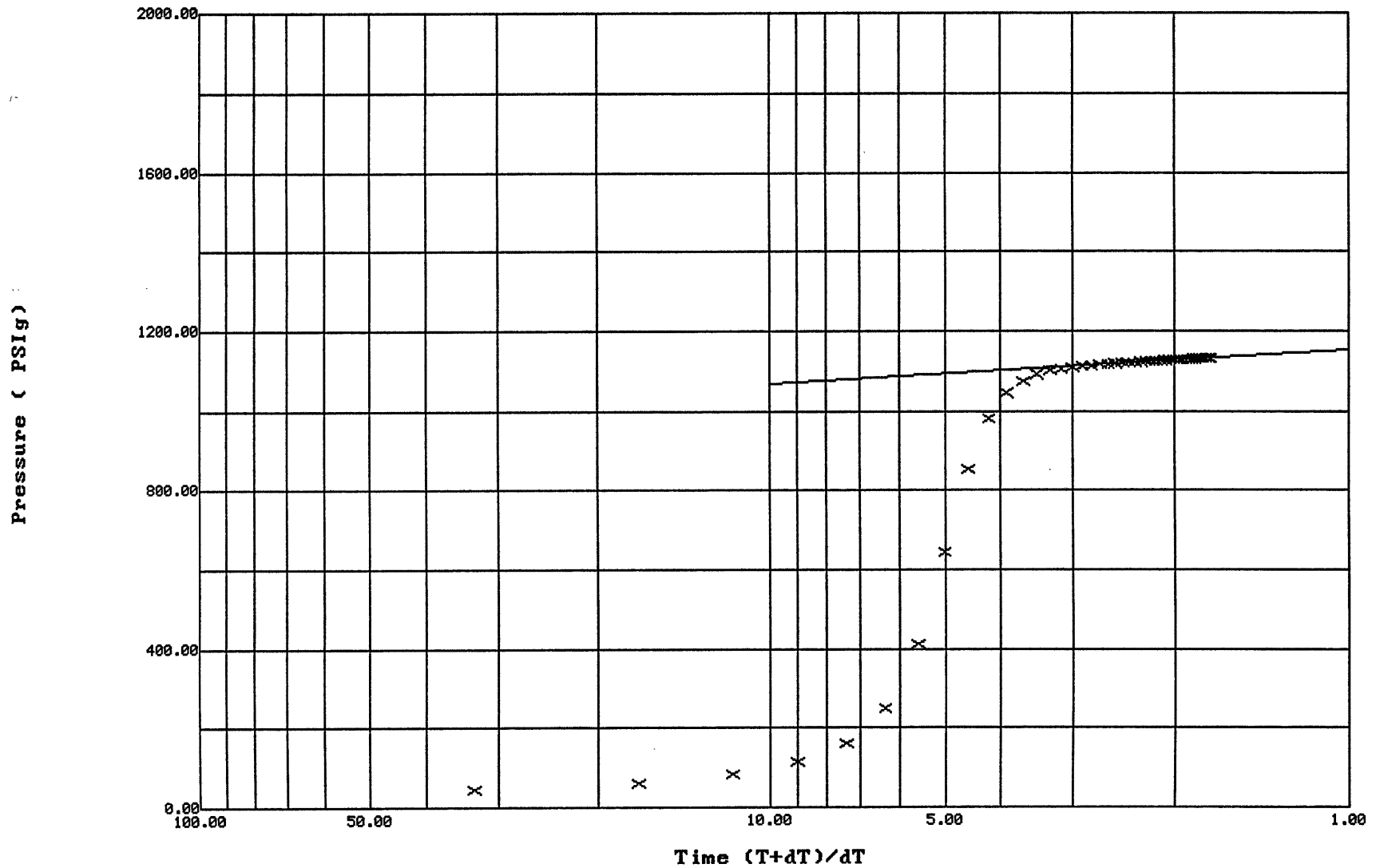
This is a photocopy of the actual AK-1 recorder chart

Horner Plot: shut-in #1

Tk#9763 DST#2 Long 1-14 Murfin Drilg Co Inc

Slope: 86.2399 PSig/cycle

Ext. Pressure: 1153.7605 PSig

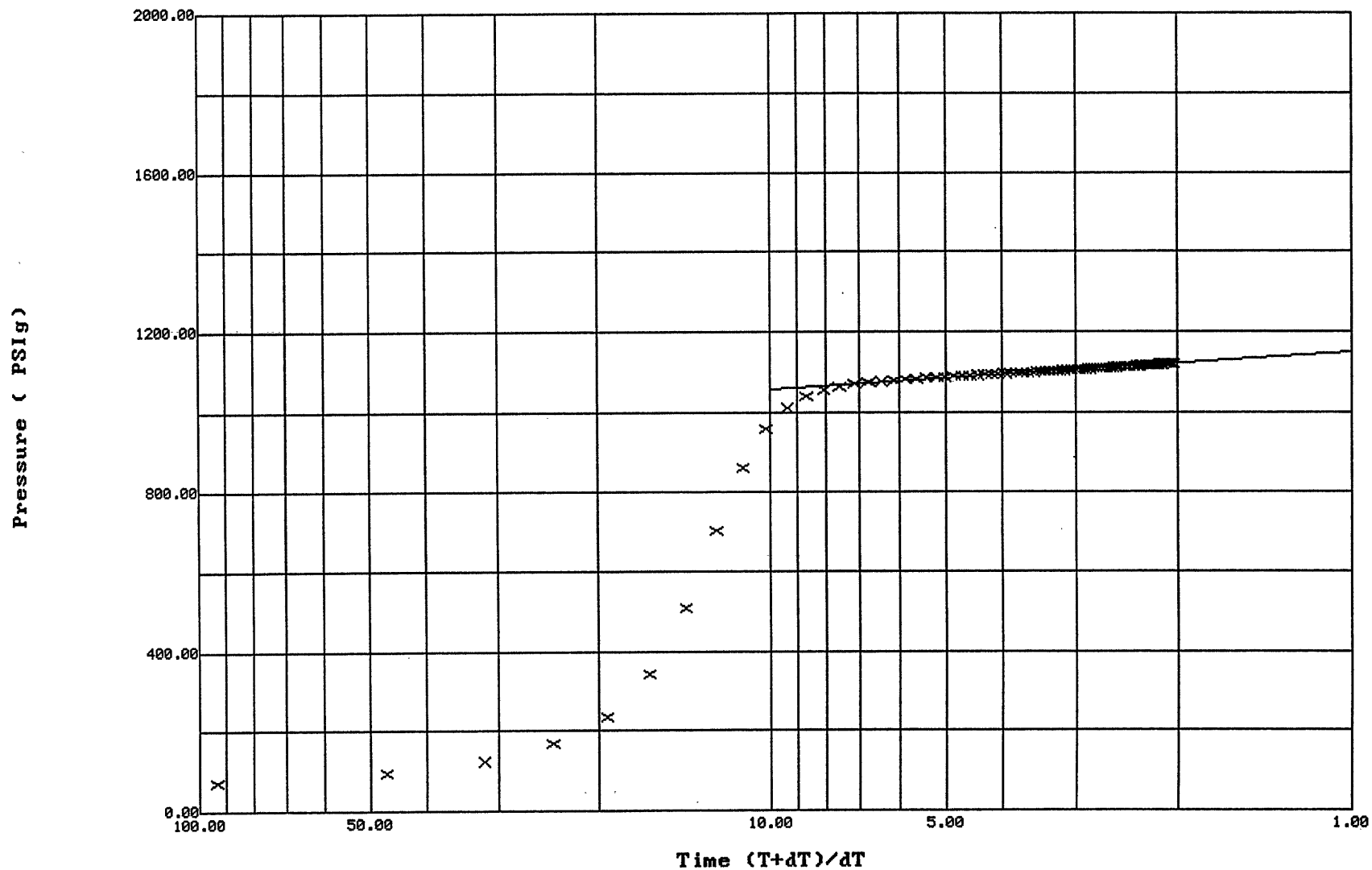


Horner Plot: shut-in #2

Tk#9763 DST#2 Long 1-14 Murfin Drlg Co Inc

Slope: 92.9597 PSig/cycle

Ext. Pressure: 1149.3734 PSig



TRILOBITE TESTING L.L.C.

OPERATOR : Murfin Drlg. Co, Inc.

DATE 2-2-97

WELL NAME: Long 1-14

KB 2616.00 ft

TICKET NO: 9764

DST #3

LOCATION : 14-2-27 Decatur-Co-Ks

GR 2611.00 ft

FORMATION: Lansing KC "C"

INTERVAL : 3523.00 To 3552.00 ft

TD 3552.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	2357			PF Fr. 1005 to 1035 hr
SI 45 Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 1035 to 1120 hr
SF 60 Clock(hrs)	12	12	Elec			SF Fr. 1120 to 1220 hr
FS 60 Depth(ft)	3549.0	3549.0	3527.0	0.0	0.0	FS Fr. 1220 to 1320 hr

	Field	1	2	3	4	
A. Init Hydro	1896.0	1854.0	1836.0	0.0	0.0	T STARTED 0808 hr
B. First Flow	39.0	53.0	28.0	0.0	0.0	T ON BOTM 1000 hr
B1. Final Flow	68.0	76.0	80.0	0.0	0.0	T OPEN 1005 hr
C. In Shut-in	1126.0	1126.0	1146.0	0.0	0.0	T PULLED 1320 hr
D. Init Flow	98.0	103.0	83.0	0.0	0.0	T OUT 1445 hr
E. Final Flow	137.0	148.0	149.0	0.0	0.0	
F. Fl Shut-in	1106.0	1105.0	1127.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1836.0	1767.0	1785.0	0.0	0.0	Tool Wt. 1000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 61000.00 lbs
						Unseated Str Wt 61000.00 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 505.00 ft
						D.P. Length 3002.00 ft

RECOVERY

Tot Fluid 270.00 ft of 270.00 ft in DC and 0.00 ft in DP
 270.00 ft of Muddy 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 18000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak blow, built to 4"

Initial Shut In:

Final Flow:
 Weak blow, built to 1"

Final Shut In:

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	51.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	108.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00

Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Dan Bangle
 Co. Rep. Roger Welty
 Contr. Murfin
 Rig # 3
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Long 1-14

LOCATION : 14-2-27 Decatur-Co-Ks

TICKET No. 9764 D.S.T. No. 3 DATE 2-2-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 25

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 29

TOTAL TOOL 54

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 54

D.C. ABOVE TOOLS.Stands8 Single 1 Total 505

D.P. ABOVE TOOLS.Stands49 Single Total 3002

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3561

TOTAL DEPTH 3552

TOTAL DRILL PIPE ABOVE K.B. 9

REMARKS:

P.O. SUB	
C.O. SUB	3498
S.I. TOOL Sterling	3504
HMV Sterling	3509
JARS Sterling	3514
SAFETY JOINT na	
PACKER Top	3518
PACKER Bottom	3523
DEPTH 2523	
STUBB 1'	3524
ANCHOR 3' Perfs	3527
Alpine Rec @ 3527	
T.C. DEPTH	
20' Perfs	3547
AK-1 Rec @ 3549	
BULLNOSE 5' Bullplug	3552
T.D.	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9764 DST#3 Long 1-14 Murfin Drlg Co Inc

DATE: 02/02/97

TIME: 08:08:56

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	118.00	1836.5	0.0	91.30		
***** Start Flow 1	0.00	28.2	0.0	91.35		
	1.00	31.3	3.1	91.46		
	2.00	33.6	5.5	91.79		
	3.00	35.9	7.7	92.18		
	4.00	38.1	9.9	92.54		
	5.00	42.9	14.7	92.86		
	6.00	42.9	14.7	93.18		
	7.00	44.7	16.5	93.53		
	8.00	45.1	16.9	93.88		
	9.00	46.7	18.5	94.19		
	10.00	48.1	19.9	94.47		
	11.00	49.8	21.6	94.71		
	12.00	51.3	23.1	94.93		
	13.00	52.9	24.7	95.13		
	14.00	54.5	26.3	95.33		
	15.00	55.8	27.6	95.50		
	16.00	57.4	29.2	95.67		
	17.00	58.9	30.7	95.83		
	18.00	60.5	32.3	96.00		
	19.00	62.0	33.8	96.16		
	20.00	63.5	35.3	96.33		
	21.00	65.0	36.8	96.50		
	22.00	66.5	38.4	96.67		
	23.00	68.1	39.9	96.84		
	24.00	69.2	41.0	97.00		
	25.00	70.6	42.4	97.19		
	26.00	72.0	43.8	97.37		
	27.00	73.3	45.2	97.57		
	28.00	74.8	46.6	97.78		
	29.00	76.2	48.0	97.99		
	30.00	77.5	49.3	98.19		
	31.00	78.8	50.6	98.40		
***** End Flow 1	32.00	80.1	51.9	98.59		
***** Start Shutin 1	0.00	80.1	0.0	98.59	0.0000	0.006
	1.00	322.8	242.7	98.79	33.0000	0.104
	2.00	886.4	806.3	98.99	17.0000	0.786
	3.00	980.1	900.0	99.18	11.6667	0.961
	4.00	1011.1	931.0	99.35	9.0000	1.022
	5.00	1029.0	949.0	99.51	7.4000	1.059
	6.00	1041.9	961.8	99.67	6.3333	1.085
	7.00	1052.0	972.0	99.79	5.5714	1.107
	8.00	1060.3	980.3	99.92	5.0000	1.124
	9.00	1067.6	987.6	100.04	4.5556	1.140
	10.00	1073.9	993.9	100.16	4.2000	1.153
	11.00	1079.4	999.3	100.26	3.9091	1.165
	12.00	1084.4	1004.4	100.37	3.6667	1.176
	13.00	1089.0	1009.0	100.47	3.4615	1.186
	14.00	1093.1	1013.0	100.56	3.2857	1.195
	15.00	1096.9	1016.9	100.67	3.1333	1.203
	16.00	1100.5	1020.5	100.75	3.0000	1.211

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9764 DST#3 Long 1-14 Murfin Drlg Co Inc

DATE: 02/02/97

TIME: 08:08:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	17.00	1103.7	1023.7	100.83	2.8824	1.218
	18.00	1106.7	1026.6	100.92	2.7778	1.225
	19.00	1109.6	1029.5	100.99	2.6842	1.231
	20.00	1112.2	1032.1	101.06	2.6000	1.237
	21.00	1114.6	1034.6	101.13	2.5238	1.242
	22.00	1116.9	1036.8	101.18	2.4545	1.247
	23.00	1119.1	1039.0	101.25	2.3913	1.252
	24.00	1121.1	1041.0	101.29	2.3333	1.257
	25.00	1123.0	1043.0	101.34	2.2800	1.261
	26.00	1125.0	1044.9	101.40	2.2308	1.266
	27.00	1126.6	1046.6	101.45	2.1852	1.269
	28.00	1128.3	1048.3	101.48	2.1429	1.273
	29.00	1129.9	1049.9	101.53	2.1034	1.277
	30.00	1131.4	1051.4	101.55	2.0667	1.280
	31.00	1132.8	1052.8	101.58	2.0323	1.283
	32.00	1134.2	1054.1	101.61	2.0000	1.286
	33.00	1135.6	1055.6	101.65	1.9697	1.290
	34.00	1136.9	1056.8	101.67	1.9412	1.292
	35.00	1138.1	1058.0	101.69	1.9143	1.295
	36.00	1139.2	1059.2	101.71	1.8889	1.298
	37.00	1140.2	1060.2	101.73	1.8649	1.300
	38.00	1141.5	1061.4	101.77	1.8421	1.303
	39.00	1142.5	1062.4	101.78	1.8205	1.305
	40.00	1143.4	1063.4	101.79	1.8000	1.307
	41.00	1144.3	1064.3	101.81	1.7805	1.310
	42.00	1145.4	1065.3	101.83	1.7619	1.312
***** End Shut-in 1	43.00	1146.2	1066.1	101.84	1.7442	1.314
***** Start Flow 2	0.00	83.6	0.0	101.84		
	1.00	84.5	0.9	101.89		
	2.00	85.3	1.7	102.02		
	3.00	86.3	2.7	102.22		
	4.00	87.2	3.6	102.46		
	5.00	88.0	4.4	102.72		
	6.00	89.0	5.4	103.00		
	7.00	89.8	6.2	103.30		
	8.00	90.7	7.1	103.60		
	9.00	91.7	8.1	103.91		
	10.00	92.8	9.2	104.19		
	11.00	94.2	10.7	104.48		
	12.00	95.6	12.0	104.76		
	13.00	96.9	13.3	105.03		
	14.00	98.4	14.8	105.29		
	15.00	99.9	16.3	105.56		
	16.00	101.5	17.9	105.81		
	17.00	102.8	19.2	106.05		
	18.00	104.3	20.7	106.29		
	19.00	105.7	22.2	106.51		
	20.00	107.1	23.5	106.73		
	21.00	108.3	24.8	106.94		
	22.00	109.3	25.7	107.12		
	23.00	110.6	27.0	107.30		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9764 DST#3 Long 1-14 Murfin Drlg Co Inc

DATE: 02/02/97

TIME: 08:08:56

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
24.00	112.0	28.4	107.46		
25.00	113.0	29.5	107.59		
26.00	114.2	30.6	107.71		
27.00	115.4	31.8	107.82		
28.00	116.7	33.1	107.92		
29.00	117.9	34.3	108.01		
30.00	119.1	35.5	108.10		
31.00	120.3	36.7	108.17		
32.00	121.4	37.8	108.24		
33.00	122.4	38.8	108.30		
34.00	123.3	39.7	108.37		
35.00	124.1	40.5	108.43		
36.00	125.0	41.4	108.49		
37.00	125.8	42.2	108.55		
38.00	126.6	43.1	108.59		
39.00	127.4	43.8	108.65		
40.00	128.3	44.7	108.69		
41.00	129.2	45.6	108.74		
42.00	130.0	46.4	108.78		
43.00	130.8	47.3	108.82		
44.00	131.6	48.0	108.86		
45.00	132.7	49.1	108.89		
46.00	133.5	49.9	108.92		
47.00	134.5	50.9	108.96		
48.00	135.9	52.3	108.98		
49.00	136.9	53.3	109.01		
50.00	138.1	54.6	109.03		
51.00	139.4	55.8	109.06		
52.00	140.6	57.0	109.08		
53.00	141.7	58.2	109.10		
54.00	142.8	59.3	109.12		
55.00	144.1	60.5	109.14		
56.00	145.3	61.7	109.16		
57.00	146.4	62.8	109.18		
58.00	147.5	64.0	109.20		
59.00	148.7	65.1	109.23		
***** End Flow 2					
***** Start Shutin 2	0.00	148.7	0.0	109.23	0.0000 0.022
	1.00	239.9	91.2	109.25	92.0000 0.058
	2.00	627.3	478.6	109.27	46.5000 0.393
	3.00	896.8	748.1	109.31	31.3333 0.804
	4.00	956.3	807.6	109.35	23.7500 0.915
	5.00	980.4	831.6	109.39	19.2000 0.961
	6.00	995.2	846.5	109.42	16.1667 0.990
	7.00	1006.3	857.6	109.45	14.0000 1.013
	8.00	1015.3	866.6	109.46	12.3750 1.031
	9.00	1022.8	874.1	109.47	11.1111 1.046
	10.00	1029.4	880.7	109.47	10.1000 1.060
	11.00	1035.3	886.6	109.46	9.2727 1.072
	12.00	1040.7	892.0	109.46	8.5833 1.083
	13.00	1045.6	896.9	109.46	8.0000 1.093
	14.00	1050.0	901.3	109.44	7.5000 1.103

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9764 DST#3 Long 1-14 Murfin Drlg Co Inc

DATE: 02/02/97

TIME: 08:08:56

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
15.00	1054.0	905.3	109.44	7.0667	1.111	
16.00	1057.9	909.2	109.42	6.6875	1.119	
17.00	1061.3	912.6	109.41	6.3529	1.126	
18.00	1064.7	916.0	109.41	6.0556	1.134	
19.00	1068.0	919.3	109.38	5.7895	1.141	
20.00	1070.7	922.0	109.37	5.5500	1.146	
21.00	1073.5	924.8	109.36	5.3333	1.152	
22.00	1076.1	927.4	109.34	5.1364	1.158	
23.00	1078.5	929.8	109.32	4.9565	1.163	
24.00	1081.0	932.3	109.31	4.7917	1.169	
25.00	1083.2	934.5	109.28	4.6400	1.173	
26.00	1085.3	936.6	109.27	4.5000	1.178	
27.00	1087.4	938.7	109.25	4.3704	1.183	
28.00	1089.4	940.7	109.23	4.2500	1.187	
29.00	1091.3	942.6	109.21	4.1379	1.191	
30.00	1093.0	944.3	109.19	4.0333	1.195	
31.00	1094.7	946.0	109.18	3.9355	1.198	
32.00	1096.5	947.8	109.15	3.8438	1.202	
33.00	1098.1	949.4	109.14	3.7576	1.206	
34.00	1099.6	950.9	109.11	3.6765	1.209	
35.00	1101.0	952.3	109.10	3.6000	1.212	
36.00	1102.5	953.8	109.07	3.5278	1.215	
37.00	1103.9	955.2	109.06	3.4595	1.219	
38.00	1105.2	956.4	109.03	3.3947	1.221	
39.00	1106.5	957.8	109.01	3.3333	1.224	
40.00	1107.8	959.0	109.00	3.2750	1.227	
41.00	1108.9	960.2	108.97	3.2195	1.230	
42.00	1110.2	961.5	108.96	3.1667	1.233	
43.00	1111.3	962.6	108.93	3.1163	1.235	
44.00	1112.5	963.7	108.91	3.0682	1.238	
45.00	1113.5	964.8	108.89	3.0222	1.240	
46.00	1114.6	965.8	108.88	2.9783	1.242	
47.00	1115.6	966.9	108.86	2.9362	1.245	
48.00	1116.6	967.9	108.84	2.8958	1.247	
49.00	1117.6	968.9	108.82	2.8571	1.249	
50.00	1118.5	969.8	108.80	2.8200	1.251	
51.00	1119.4	970.7	108.79	2.7843	1.253	
52.00	1120.3	971.6	108.77	2.7500	1.255	
53.00	1121.2	972.5	108.75	2.7170	1.257	
54.00	1121.9	973.2	108.73	2.6852	1.259	
55.00	1122.8	974.1	108.72	2.6545	1.261	
56.00	1123.7	975.0	108.70	2.6250	1.263	
57.00	1124.5	975.7	108.68	2.5965	1.264	
58.00	1125.2	976.5	108.67	2.5690	1.266	
59.00	1126.0	977.3	108.65	2.5424	1.268	
***** End Shut-in 2	60.00	1126.7	978.0	108.63	2.5167	1.270
***** Final Hydro.	315.00	1785.1	0.0	108.62		

TEST HISTORY

Tk# 9764 DST#3 Long 1-14 Murfin Drig Co Inc

Flag Points

t(Min.) P(PSig)

A:	0.00	1836.50
B:	0.00	28.19
C:	32.00	80.06
D:	43.00	1146.19
E:	0.00	83.58
F:	59.00	148.71
G:	60.00	1126.72
Q:	0.00	1785.14

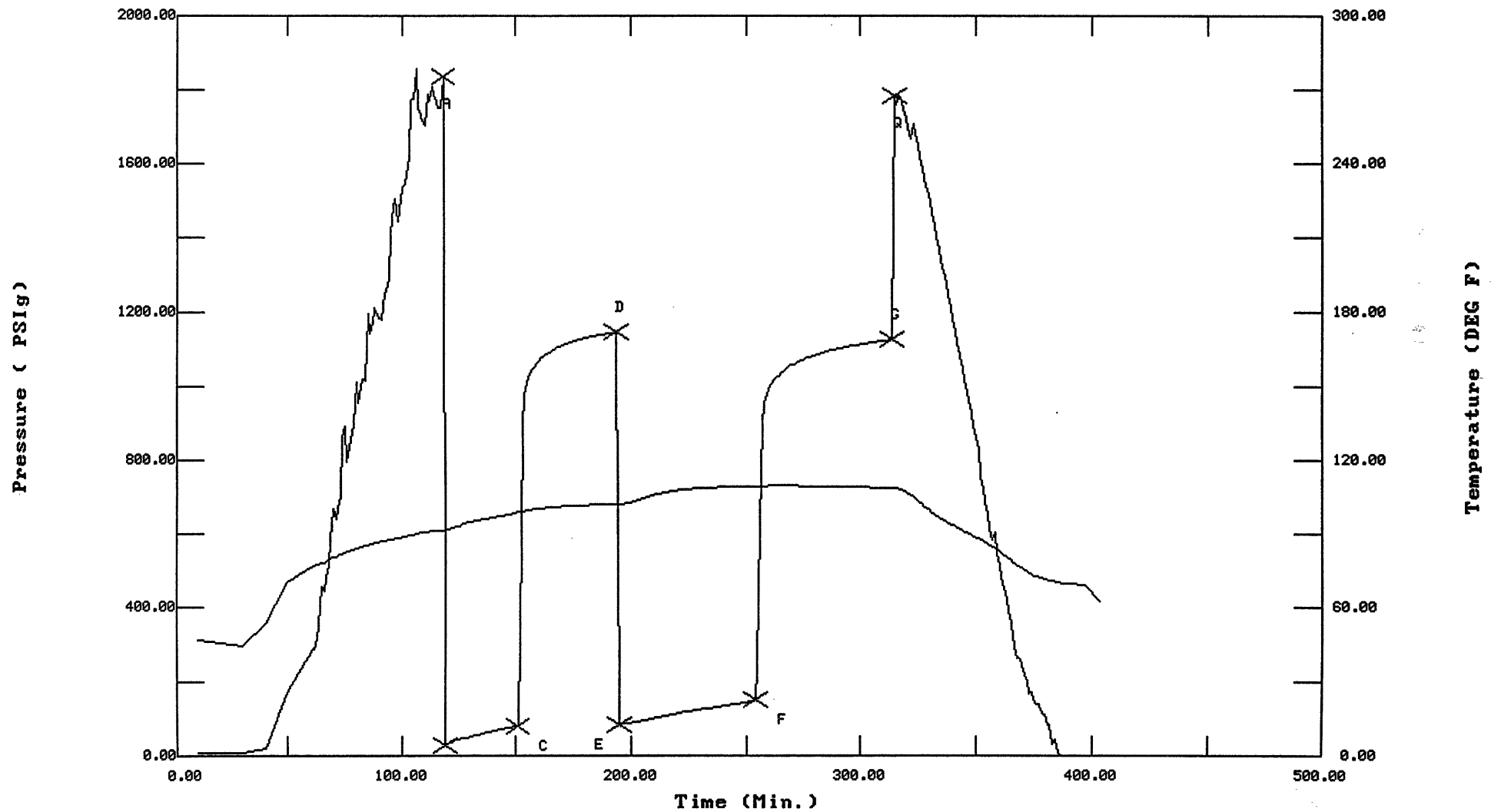
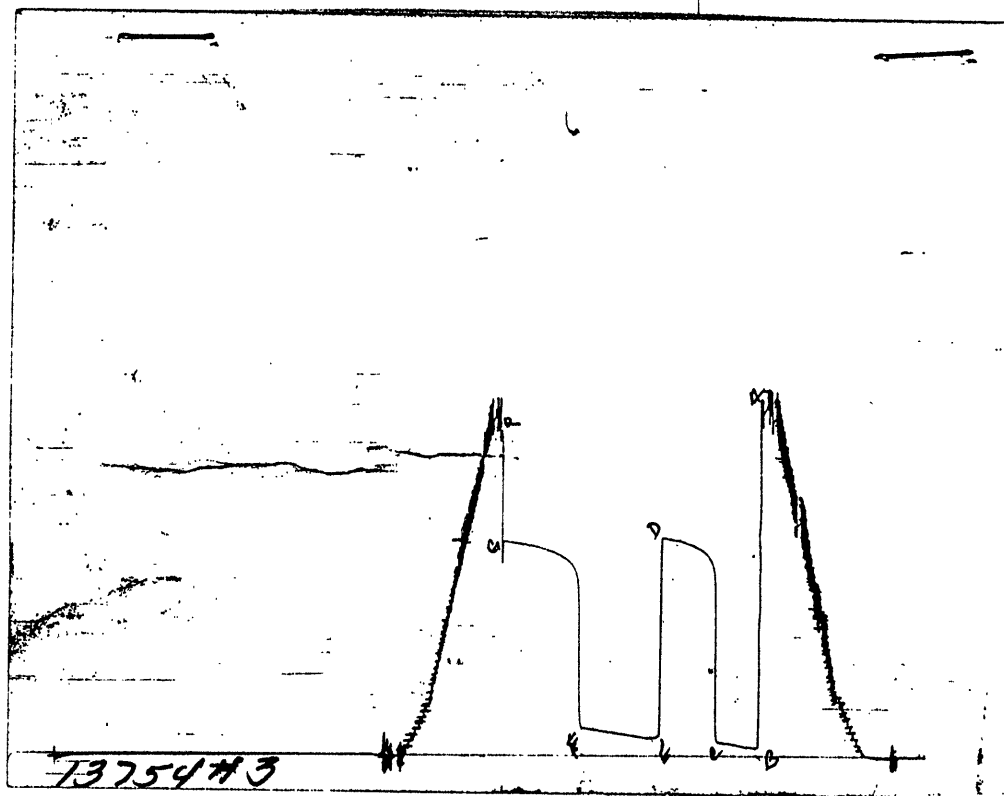


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Murfin Drlg Co, Inc.

DATE 2-3-97

WELL NAME: Long 1-14

KB 2616.00 ft

TICKET NO: 9765 DST #4

LOCATION : 14-2-27 Decatur-Co-Ks

GR 2611.00 ft

FORMATION: Lansing KC

INTERVAL : 3642.00 To 3670.00 ft

TD 3670.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	2357			PF Fr. 0725 to 0755 hr
SI 45 Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 0755 to 0840 hr
SF 45 Clock(hrs)	12	12	Elec			SF Fr. 0840 to 0925 hr
FS 45 Depth(ft)	3667.0	3667.0	3646.0	0.0	0.0	FS Fr. 0925 to 1010 hr

	Field	1	2	3	4	
A. Init Hydro	1986.0	1963.0	1970.0	0.0	0.0	T STARTED 0534 hr
B. First Flow	29.0	39.0	26.0	0.0	0.0	T ON BOTM 0720 hr
B1. Final Flow	29.0	41.0	32.0	0.0	0.0	T OPEN 0725 hr
C. In Shut-in	423.0	431.0	454.0	0.0	0.0	T PULLED 1010 hr
D. Init Flow	29.0	47.0	31.0	0.0	0.0	T OUT 1150 hr
E. Final Flow	29.0	40.0	37.0	0.0	0.0	
F. Fl Shut-in	108.0	121.0	142.0	0.0	0.0	
G. Final Hydro	1886.0	1941.0	1864.0	0.0	0.0	
Inside/Outside	O	O	I			

RECOVERY

Tot Fluid 17.00 ft of 17.00 ft in DC and 0.00 ft in DP
 100.00 ft of Gas in pipe
 2.00 ft of Clean Oil
 15.00 ft of Heavy Mud cut Oil 70% oil 30% mud
 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:
 Weak blow, Built to 1.5"

Initial Shut In:

Final Flow:
 Weak blow, died in 16 mins

Final Shut In:

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type Chemical
 Weight 9.20 lb/cf
 Vis. 53.00 S/L
 W.L. 7.60 in3
 F.C. 0.00 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 101.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00

Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Dan Bangle
 Co. Rep. Roger Welty
 Contr. Murfin
 Rig # 3
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Long 1-14

LOCATION : 14-2-27 Decatur-Co-Ks

TICKET No. 9765 D.S.T. No. 4 DATE 2-3-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 28

TOTAL TOOL 48

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 48

D.C. ABOVE TOOLS.Stands8 Single 1 Total 505

D.P. ABOVE TOOLS.Stands50 Single 1 Total 3132

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3685

TOTAL DEPTH 3670

TOTAL DRILL PIPE ABOVE K.B. 15

REMARKS:

P.O. SUB	
C.O. SUB	3622
S.I. TOOL Sterling	3628
HMV Sterling	3633
JARS na	
SAFETY JOINT na	
PACKER	3637
PACKER	3642
DEPTH 3642	
STUBB 1'	3643
ANCHOR 2' Perfs	3645
Alpine Recorder	3646
T.C.	
DEPTH	
5' Perfs	3650
5' Perfs	3655
5' Perfs	3660
5' Perfs	3665
AK-1 Recorder	3667
BULLNOSE 5' Bullplug	3670
T.D.	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9765 DST#4 Long 1-14 Murfin Drlg Co Inc

DATE: 02/03/97

TIME: 05:35:00

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	112.00	1914.5	0.0	94.94		
***** Start Flow 1	0.00	25.8	0.0	95.18		
	1.00	23.7	-2.1	95.38		
	2.00	24.3	-1.5	95.55		
	3.00	25.8	-0.1	95.68		
	4.00	26.3	0.5	95.78		
	5.00	25.8	-0.1	95.87		
	6.00	25.8	-0.1	95.94		
	7.00	26.0	0.2	96.01		
	8.00	26.4	0.6	96.06		
	9.00	26.9	1.1	96.12		
	10.00	27.1	1.3	96.17		
	11.00	27.0	1.2	96.22		
	12.00	27.3	1.4	96.27		
	13.00	27.5	1.7	96.32		
	14.00	27.6	1.8	96.37		
	15.00	27.9	2.1	96.41		
	16.00	28.1	2.3	96.46		
	17.00	28.5	2.7	96.51		
	18.00	28.9	3.0	96.55		
	19.00	28.9	3.1	96.60		
	20.00	29.0	3.2	96.65		
	21.00	29.0	3.2	96.70		
	22.00	29.4	3.5	96.74		
	23.00	29.5	3.7	96.79		
	24.00	29.6	3.8	96.85		
	25.00	29.7	3.9	96.89		
	26.00	30.0	4.1	96.94		
	27.00	30.0	4.2	96.99		
	28.00	30.4	4.5	97.04		
	29.00	30.5	4.7	97.10		
	30.00	30.6	4.8	97.14		
***** End Flow 1	31.00	31.7	5.9	97.19		
***** Start Shutin 1	0.00	31.7	0.0	97.19	0.0000	0.001
	1.00	35.2	3.4	97.23	32.0000	0.001
	2.00	38.7	7.0	97.28	16.5000	0.001
	3.00	42.5	10.7	97.33	11.3333	0.002
	4.00	46.3	14.6	97.38	8.7500	0.002
	5.00	50.6	18.9	97.43	7.2000	0.003
	6.00	55.0	23.3	97.49	6.1667	0.003
	7.00	60.0	28.3	97.53	5.4286	0.004
	8.00	65.2	33.5	97.58	4.8750	0.004
	9.00	70.7	39.0	97.63	4.4444	0.005
	10.00	76.8	45.1	97.68	4.1000	0.006
	11.00	83.1	51.4	97.73	3.8182	0.007
	12.00	90.0	58.3	97.78	3.5833	0.008
	13.00	97.7	66.0	97.83	3.3846	0.01
	14.00	105.7	73.9	97.89	3.2143	0.011
	15.00	114.4	82.7	97.93	3.0667	0.013
	16.00	124.0	92.3	97.98	2.9375	0.015
	17.00	134.5	102.8	98.03	2.8235	0.018

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9765 DST#4 Long 1-14 Murfin Drlg Co Inc

DATE: 02/03/97

TIME: 05:35:00

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
18.00	145.9	114.1	98.08	2.7222	0.021
19.00	158.2	126.5	98.12	2.6316	0.025
20.00	171.4	139.7	98.17	2.5500	0.029
21.00	185.8	154.1	98.22	2.4762	0.035
22.00	200.3	168.6	98.27	2.4091	0.040
23.00	215.9	184.1	98.32	2.3478	0.047
24.00	231.9	200.2	98.37	2.2917	0.054
25.00	248.1	216.4	98.41	2.2400	0.062
26.00	264.4	232.7	98.46	2.1923	0.070
27.00	280.6	248.8	98.51	2.1481	0.079
28.00	296.4	264.7	98.56	2.1071	0.088
29.00	311.6	279.9	98.61	2.0690	0.097
30.00	326.1	294.3	98.65	2.0333	0.106
31.00	339.8	308.1	98.69	2.0000	0.115
32.00	352.7	321.0	98.74	1.9688	0.124
33.00	364.7	333.0	98.79	1.9394	0.133
34.00	375.9	344.2	98.84	1.9118	0.141
35.00	386.1	354.4	98.88	1.8857	0.149
36.00	395.9	364.2	98.93	1.8611	0.157
37.00	404.8	373.1	98.97	1.8378	0.164
38.00	413.3	381.5	99.01	1.8158	0.171
39.00	421.2	389.5	99.06	1.7949	0.177
40.00	428.4	396.7	99.10	1.7750	0.184
41.00	435.4	403.7	99.15	1.7561	0.190
42.00	441.8	410.1	99.19	1.7381	0.195
43.00	448.1	416.4	99.23	1.7209	0.201
44.00	454.0	422.2	99.27	1.7045	0.206
***** End Shut-in 1					
***** Start Flow 2					
0.00	31.0	0.0	99.31		
1.00	32.8	1.8	99.34		
2.00	32.8	1.8	99.36		
3.00	32.8	1.8	99.39		
4.00	32.6	1.6	99.42		
5.00	34.4	3.4	99.46		
6.00	34.0	3.0	99.51		
7.00	34.0	3.0	99.55		
8.00	33.4	2.4	99.58		
9.00	33.9	2.9	99.62		
10.00	34.2	3.3	99.67		
11.00	33.6	2.7	99.70		
12.00	34.2	3.2	99.73		
13.00	34.2	3.3	99.77		
14.00	34.1	3.1	99.80		
15.00	34.2	3.3	99.83		
16.00	34.2	3.3	99.86		
17.00	34.1	3.2	99.89		
18.00	34.3	3.4	99.92		
19.00	34.5	3.5	99.96		
20.00	34.7	3.7	99.99		
21.00	34.8	3.9	100.01		
22.00	34.7	3.7	100.05		
23.00	34.8	3.9	100.07		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9765 DST#4 Long 1-14 Murfin Drlg Co Inc

DATE: 02/03/97

TIME: 05:35:00

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	24.00	35.6	4.6	100.11		
	25.00	35.4	4.4	100.14		
	26.00	34.9	3.9	100.17		
	27.00	35.7	4.7	100.20		
	28.00	35.7	4.8	100.23		
	29.00	35.2	4.3	100.25		
	30.00	35.3	4.4	100.28		
	31.00	35.7	4.8	100.31		
	32.00	35.8	4.9	100.34		
	33.00	35.5	4.5	100.37		
	34.00	35.9	5.0	100.40		
	35.00	35.9	5.0	100.43		
	36.00	35.7	4.7	100.46		
	37.00	36.1	5.1	100.48		
	38.00	36.4	5.5	100.51		
	39.00	36.3	5.4	100.55		
	40.00	36.2	5.2	100.58		
	41.00	36.4	5.5	100.60		
	42.00	36.6	5.6	100.64		
	43.00	36.6	5.6	100.67		
	44.00	36.6	5.6	100.69		
***** End Flow 2	45.00	36.5	5.5	100.72		
***** Start Shutin 2	0.00	36.5	0.0	100.72	0.0000	0.001
	1.00	38.0	1.5	100.75	77.0000	0.001
	2.00	39.4	2.9	100.79	39.0000	0.002
	3.00	40.9	4.5	100.81	26.3333	0.002
	4.00	42.5	6.0	100.85	20.0000	0.002
	5.00	43.9	7.4	100.87	16.2000	0.002
	6.00	45.4	8.9	100.90	13.6667	0.002
	7.00	47.0	10.5	100.92	11.8571	0.002
	8.00	48.6	12.1	100.95	10.5000	0.002
	9.00	50.0	13.5	100.98	9.4444	0.003
	10.00	51.7	15.2	101.01	8.6000	0.003
	11.00	53.3	16.8	101.04	7.9091	0.003
	12.00	55.0	18.6	101.07	7.3333	0.003
	13.00	56.8	20.3	101.10	6.8462	0.003
	14.00	58.6	22.1	101.13	6.4286	0.003
	15.00	60.4	23.9	101.15	6.0667	0.004
	16.00	62.3	25.9	101.19	5.7500	0.004
	17.00	64.4	27.9	101.21	5.4706	0.004
	18.00	66.4	29.9	101.24	5.2222	0.004
	19.00	68.3	31.8	101.27	5.0000	0.005
	20.00	70.5	34.0	101.30	4.8000	0.005
	21.00	72.6	36.1	101.33	4.6190	0.005
	22.00	74.9	38.4	101.35	4.4545	0.006
	23.00	77.1	40.6	101.39	4.3043	0.006
	24.00	79.5	43.0	101.41	4.1667	0.006
	25.00	81.8	45.3	101.44	4.0400	0.007
	26.00	84.3	47.8	101.47	3.9231	0.007
	27.00	86.8	50.3	101.50	3.8148	0.008
	28.00	89.5	53.0	101.54	3.7143	0.008

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9765 DST#4 Long 1-14 Murfin Drlg Co Inc

DATE: 02/03/97

TIME: 05:35:00

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	29.00	92.1	55.6	101.56	3.6207	0.008
	30.00	94.8	58.3	101.58	3.5333	0.009
	31.00	97.7	61.2	101.61	3.4516	0.01
	32.00	100.5	64.0	101.65	3.3750	0.010
	33.00	103.5	67.0	101.67	3.3030	0.011
	34.00	106.5	70.0	101.70	3.2353	0.011
	35.00	109.7	73.2	101.73	3.1714	0.012
	36.00	112.8	76.3	101.75	3.1111	0.013
	37.00	116.2	79.7	101.78	3.0541	0.014
	38.00	119.6	83.1	101.81	3.0000	0.014
	39.00	123.0	86.5	101.84	2.9487	0.015
	40.00	126.6	90.1	101.86	2.9000	0.016
	41.00	130.3	93.8	101.89	2.8537	0.017
	42.00	134.0	97.5	101.92	2.8095	0.018
	43.00	137.9	101.4	101.94	2.7674	0.019
***** End Shut-in 2	44.00	141.8	105.3	101.97	2.7273	0.020
***** Final Hydro.	279.00	1864.0	0.0	102.02		

TEST HISTORY

Tk# 9765 DST#4 Long 1-14 Murfin Drlg Co Inc

Flag Points
t(Min.) PC PSig)

R:	0.00	1914.47
B:	0.00	25.84
C:	31.00	31.72
D:	44.00	453.96
E:	0.00	30.96
F:	45.00	36.50
G:	44.00	141.83
Q:	0.00	1864.03

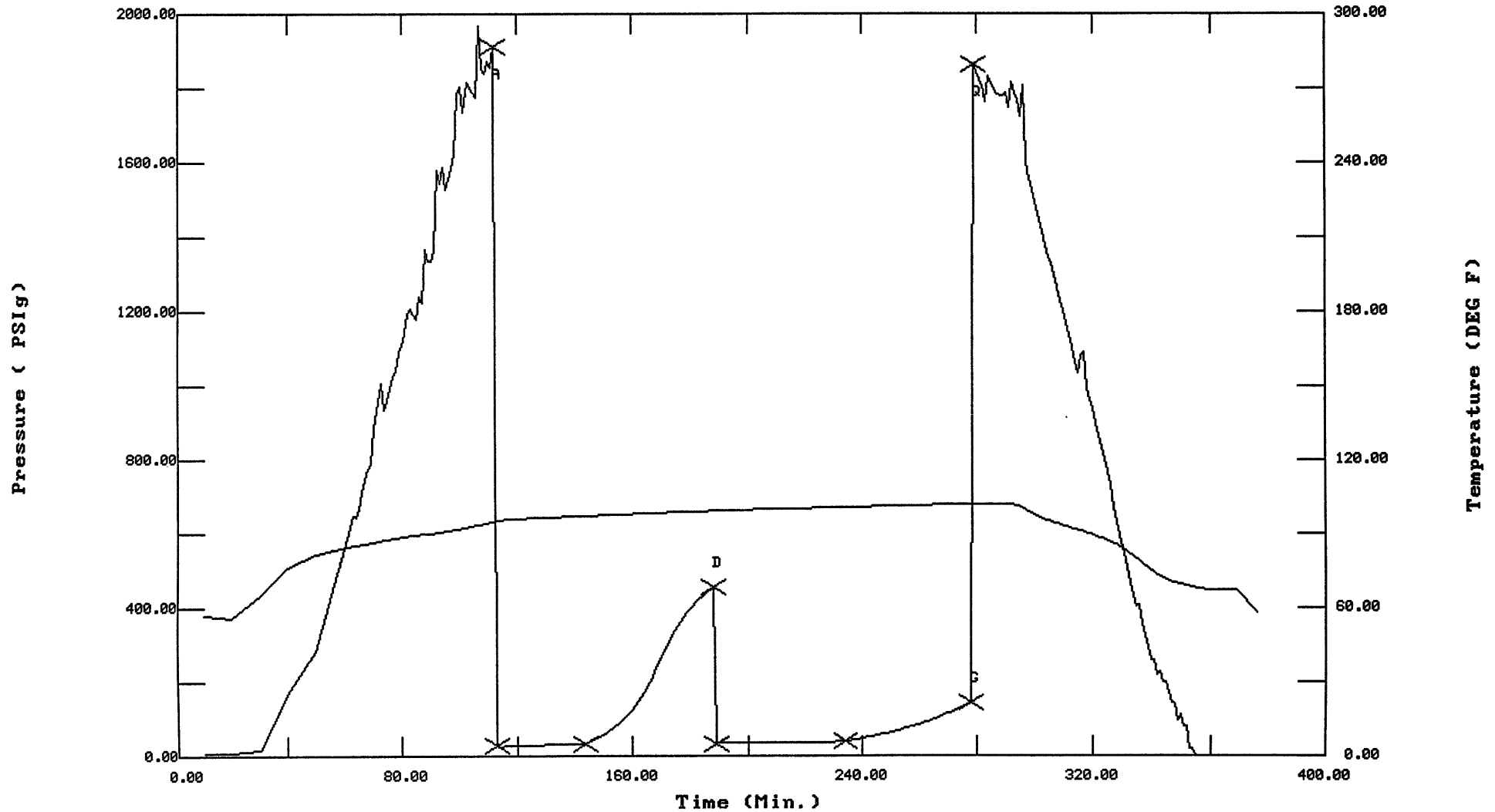
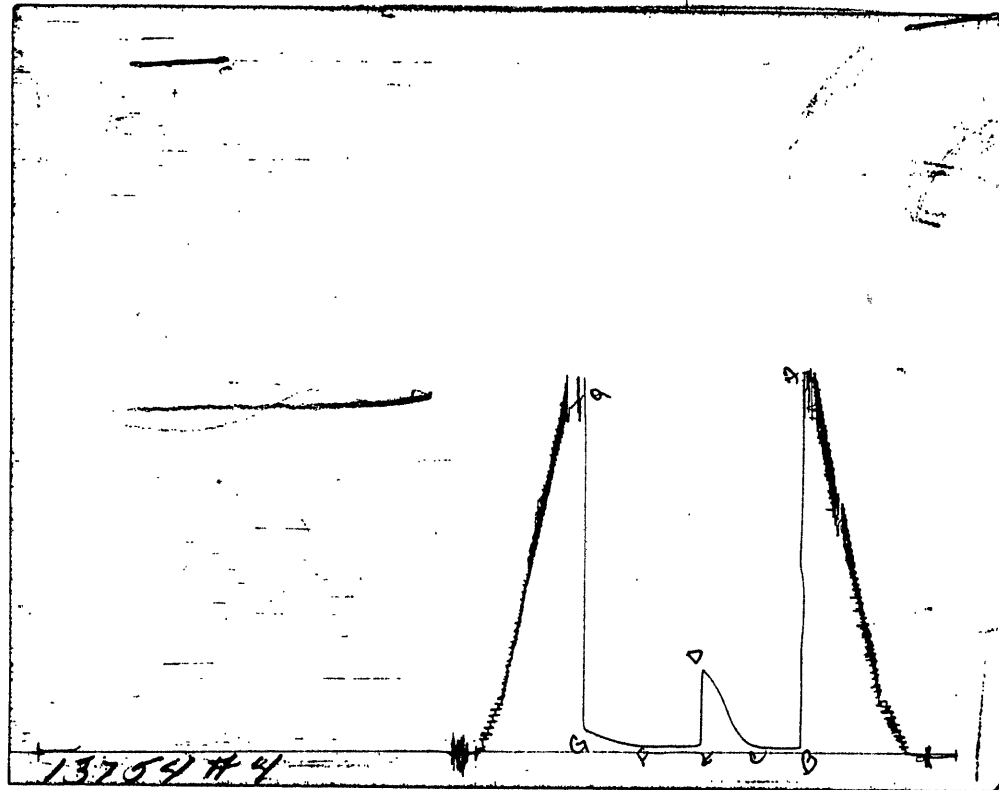


CHART PAGE



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