

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

API NO. 15- 145-214410000

County PAWNEE

NW/4 NE/4 NE/4 Sec. 1 Twp. 20S Rge. 16 EW

330 Feet from S/N (circle one) Line of Section

2310 Feet from E/W (circle one) Line of Section

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

Lease Name M. GROSS Well # 1-1

Field Name WILDCAT

Producing Formation N/A

Elevation: Ground 1978' KB 1983'

Total Depth 3800' PBSD

Amount of Surface Pipe Set and Cemented at 26 JTS @ 1012' Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan D+A, 8-17-98 U.C.,  
(Data must be collected from the Reserve Pit)

Chloride content 70,000 ppm Fluid volume 500 bbls

Dewatering method used ALLOW TO DRY THEN BACKFILL.

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name License No.

Quarter Sec. Twp. S Rng. E/W

County Docket No.

Operator: License # 4243

Name: CROSS BAR PETROLEUM, INC./L. D. DRILLING, INC.

Address 151 N. MAIN, SUITE 630

City/State/Zip WICHITA, KS 67202-1407

Purchaser:

Operator Contact Person: ALBERT BRENSING

Phone (316) 265-2279

Contractor: Name: L. D. DRILLING, INC.

License: 6039

Wellsite Geologist: STEVE DAVIS

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

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

If Workover:

Operator:

Well Name:

Comp. Date Old Total Depth

Deepening Re-perf. PBSD

Plug Back Docket No.

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

10-18-96 10-26-96 10-26-96

Spud Date Date Reached TD Completion Date

RELEASED

SEP 25 1998

FROM CONFIDENTIAL

CONFIDENTIAL  
SEP 18 1998

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 *Albert Brensing*

Title ALBERT BRENSING, PRESIDENT Date 12-18-96

Subscribed and sworn to before me this 18TH day of DECEMBER 19 96.

Notary Public *Jo Ann Thaden*

Date Commission Expires 04-17-97

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)

JO ANN THADEN  
NOTARY PUBLIC  
STATE OF KANSAS  
My Compl. Exp. 4-17-97

Operator Name CROSS BAR/L.D. DRILLING, INC.

Lease Name M. GROSS

Well # 1-1

Sec. 1 Twp. 20S Rge. 16 [X] West

County PAWNEE

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 [X] Yes [ ] No
Samples Sent to Geological Survey [X] Yes [ ] No
Cores Taken [ ] Yes [X] No
Electric Log Run [X] Yes [ ] No

[X] Log Formation (Top), Depth and Datums [ ] Sample
Name Top Datum

List All E.Logs Run: GEOL. REPORT, DUAL INDUCTION, COMPENSATED Z-DENSILOG

SEE EXHIBIT 'A' ATTACHED HERETO FOR FORMATION TOPS

PLEASE KEEP THIS INFORMATION CONFIDENTIAL!!

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CASING RECORD

[ ] New [X] Used

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

Table with 8 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. Row 1: SURFACE, 12-1/4", 8-5/8", 23#, 1012', 60/40 POZMIX, 400, 2% GEL & 3% CC.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Table with 5 columns: Purpose: PLUGGING, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives. Row 1: Perforate, 0-3800', 60/40 POZMIX, 165, 6% GEL & 1/4# floseal per sack.

Table with 3 columns: N/A 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 Run [ ] Yes [ ] No

Date of First, Resumed Production, SWD or Inj. N/A Producing Method [ ] Flowing [ ] Pumping [ ] Gas Lift [ ] Other (Explain)

Estimated Production Per 24 Hours Oil Bbls: N/A Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

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)

ORIGINAL

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M. GROSS #1-1  
API # 15-145-21,441-0000  
NW NW SE 1-20S-16W  
PAWNEE CO., KS

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RESULTS OF DST'S

DST #1 - 3608-90' - Arbuckle, 45-60-30-60, 1st op - off bottom in 15 sc., decreased to 6", 2nd op - built to 5". Rec. 200' WM w/specks of oil (18% w, 82% m), 770' SGCMW (5% g, 13% m, 82% w) chl 24,000 ppm. IHP 1824, IFP 281-384, ISIP 688, FFP 387-412, FSIP 703, FHP 1759, BHT 116°F.

DST #2 - 3708-20' - Arbuckle, 45-60-37-90, 1st op - GTS 12 min, GA 17.2 MCFG/20 min, 14.1, MCFG/30 min, 11.9 MCFG/40 min, (1/2" ck). 2nd op - OB in 5 min. GA TSTM/10 min, 3.19 MCFG 20 min, 3.19 MCFG/30 min., 3.58 MCFG/40 min., (1/4" ck), gas would burn. Rec. 5' CO, 130' HO&GCM (10% g, 28% o, 62% m), 120' OCMW (5% , 20% m, 75% w), 1190' SW, chl 37,000 ppm. IHP 1853, IFP 116-422, ISIP 1053, FFP 436-628 FSIP 1054, FHP 1799, BHT 122°F.

DST #3 - 3730-44' - Arbuckle, 45-60-45-60, 1st op - OB 5 min, 2nd op - OB 15 min. Rec 435' GIP, 1' FO, 29' OCWM (18% o, 18% w, 64% m), 120' SOCMW (2% o, 10% m, 88% w), 120' SW, chl 44,000 ppm. IHP 1844, IFP 56-89, ISIP 1068, FFP 94-139, FSIP 1066, FHP 1827, BHT 121°F.

LOG TOPS

CBP/LDD #1-1 M. Gross  
KB 1983

	DEPTH	SUBSEA
STONE CORAL	1008	975
KRIDER	1900	83
WABAUNSEE	2654	-671
TARKIO	2828	-845
HEEBNER	3297	-1314
LANSING	3376	-1393
B/ KANSAS CITY	3611	-1628
B/ MARMATON	3642	-1659
PENN SD/CONGL	Abst	
ARBUCKLE	3648	-1665
REAGAN	NP	
BASEMENT	NP	
RTD	3800	-1817

KCC

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KANSAS CORP  
DEC 19 4 11 PM '98

TELEPHONE:

AREA CODE 913 483-2627  
AREA CODE 913 483-3867

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31  
RUSSELL, KANSAS 67665

15.145.21441.0000

ORIGINAL

TO: Cross Bar Petroleum, Inc  
151 N. Main, #630  
Wichita, KS 67207-1407

INVOICE NO. 73643  
PURCHASE ORDER NO. \_\_\_\_\_  
LEASE NAME M. Gross 1-1  
DATE 10-19-96

RECEIVED OCT 31 1996

SERVICE AND MATERIALS AS FOLLOWS:

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Common 240 sks @\$6.10	\$1,464.00	
Pozmix 160 sks @\$3.15	504.00	
Gel 7 sks @\$9.50	66.50	
Chloride 12 sks @\$28.00	336.00	
		<b>RELEASED</b>

\$2,370.50

SEP 25 1996

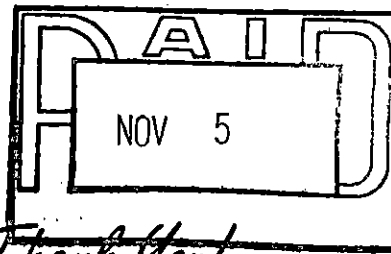
Handling 400 sks @\$1.05	420.00	
Mielage (15) @\$.04¢ per ft per mi	240.00	
Surface	45.00	
Extra Footage 713' @\$.41¢	292.33	
Mi @\$2.85 pmp trk chg	42.75	
1 plug	45.00	

1,485.08

Ttotal

\$3,855.58

If Account CURRENT a  
Discount of \$ 578.34  
will be Allowed ONLY if  
Paid Within 30 Days from  
Date of Invoice.



Thank You!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

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CONFIDENTIAL

NOV 19 1996  
ALLIED CEMENTING COMPANY  
RUSSELL, KANSAS 67665

# ALLIED CEMENTING CO., INC. 4971

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

ORIGINAL SERVICE POINT: At Bend

DATE <u>10-19-96</u>	SEC. <u>1</u>	TWP. <u>20</u>	RANGE <u>16</u>	CALLED OUT <u>11:30AM</u>	ON LOCATION <u>3:15AM</u>	JOB START <u>8:25AM</u>	JOB FINISH <u>9:00AM</u>
LEASE <u>M. Cross</u>		WELL# <u>1-1</u>	LOCATION <u>10<sup>th</sup> St Rd + Allert Hwy - 2w, 15 1/2 mi SW of</u>		COUNTY <u>Lincoln</u>	STATE <u>Ks</u>	

OLD OR NEW (Circle one)

CONTRACTOR <u>L. D. Dalg</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE _____ T.D. <u>1013</u>	<b>CONFIDENTIAL</b>
CASING SIZE <u>8 5/8 in</u>	AMOUNT ORDERED <u>400 lbs 60/40 3% CC,</u>
TUBING SIZE _____ DEPTH _____	<u>2% Mel,</u>
DRILL PIPE _____ DEPTH _____	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	
MEAS. LINE _____ SHOE JOINT _____	
CEMENT LEFT IN CSG. <u>15'</u>	

REMARKS: Displacement: 623 bbls,

RELEASED  
SEP 25 1996

COMMON	<u>240</u>	@	<u>6.10</u>	<u>1464.00</u>
POZ MIX	<u>160</u>	@	<u>3.15</u>	<u>504.00</u>
GEL	<u>7</u>	@	<u>9.50</u>	<u>66.50</u>
CHLORIDE	<u>12</u>	@	<u>28.00</u>	<u>336.00</u>
		@		
		@		
		@		
		@		
HANDLING	<u>400</u>	@	<u>1.05</u>	<u>420.00</u>
MILEAGE	<u>15</u>	@		<u>240.00</u>

FROM CONFIDENTIAL

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Tim D</u>
# <u>181</u>	HELPER <u>Bob B</u>
BULK TRUCK	
# <u>261</u>	DRIVER <u>Jim W</u>
BULK TRUCK	
# _____	DRIVER _____

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CONFIDENTIAL SERVICE

TOTAL \$ 3030.50

REMARKS:

Run 1013' of 8 5/8" cas. Mixed 400 lbs 60/40 3% CC. Pumped Plug with fresh water.

Cement did circulate

J. Danks

DEPTH OF JOB	<u>1013'</u>		
PUMP TRUCK CHARGE	<u>0-300'</u>		<u>445.00</u>
EXTRA FOOTAGE	<u>713'</u>	@	<u>.41</u> <u>292.33</u>
MILEAGE	<u>15</u>	@	<u>2.85</u> <u>42.75</u>
PLUG	<u>1-8 5/8 Rubber</u>	@	<u>45.00</u> <u>45.00</u>
		@	
		@	

TOTAL \$ 825.08

CHARGE TO: Cross Bar Petroleum, Inc.  
STREET 151 N. Main Suite 630  
CITY Wichita STATE Ks ZIP 67207-1407

FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
TOTAL			

TELEPHONE:

AREA CODE 913 483-2627  
AREA CODE 913 483-3887

**ALLIED CEMENTING COMPANY, INC.**

P. O. BOX 31

RUSSELL, KANSAS 67665

ORIGINAL

RECEIVED OCT 31 1996

TO: Cross Bar Petroleum, Inc.  
151 N. Main, #630  
Wichita, KS 67202-1407

INVOICE NO. 73645  
PURCHASE ORDER NO. \_\_\_\_\_  
LEASE NAME M. Gross 1-1  
DATE 10-25-96

SERVICE AND MATERIALS AS FOLLOWS:

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SEP 25 1998

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Common 99 sks @\$6.10  
Pozmix 66 dsks @\$3.15  
Gel 9 sks @\$9.50

\$603.90  
207.90  
811.80

FROM CONFIDENTIAL

\$ 897.30

Handling 165 sks @\$1.05  
Mileage (15) @ \$.04¢ per sk per mi  
Rotary Plug  
Mi @\$2.85 pmp trk chg  
1 plug

173.25  
99.00  
550.00  
42.75  
23.00

888.00

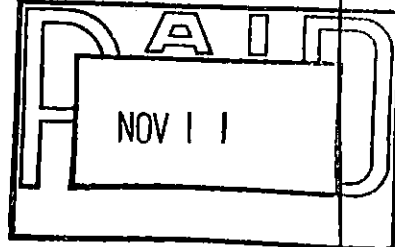
Total

\$1,785.30

If Account CURRENT a  
Discount of \$ 267.80  
will be Allowed ONLY if  
Paid Within 30 Days from  
Date of Invoice.

*Thank You!*

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.



REC  
DEC 1 8  
CONFIDENTIAL

RECEIVED  
ALLIED CEMENTING CO. INC.  
RUSSELL, KANSAS 67665  
FOR PER 19 A 1:46

# ALLIED CEMENTING CO., INC.

1502

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

ORIGINAL

SERVICE POINT:

At Bend

DATE <u>10-25-96</u>	SEC. <u>1</u>	TWP. <u>20</u>	RANGE <u>16</u>	CALLED OUT <u>8:30 PM</u>	ON LOCATION <u>9:50 PM</u>	JOB START <u>10:15 PM</u>	JOB FINISH <u>4:15 AM</u>
LEASE <u>M. Berry</u>	WELL # <u>1-1</u>	LOCATION <u>10<sup>th</sup> St Rd + Allentown Bldg - 2nd, 15, 1/2 E, 5/2 S</u>			COUNTY <u>Powder</u>	STATE <u>Ks</u>	

OLD OR NEW (Circle one)

CONTRACTOR L. D. Dally

TYPE OF JOB Rotary Plug

HOLE SIZE 7 1/2" T.D. 3800'

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2" DEPTH 3640'

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

OWNER Same

CEMENT \_\_\_\_\_

AMOUNT ORDERED 116.5 lbs 60/40, 60/60, 60/80

COMMON	<u>99</u>	@	<u>6.10</u>	<u>603.90</u>
POZMIX	<u>66</u>	@	<u>3.15</u>	<u>207.90</u>
GEL	<u>9</u>	@	<u>9.50</u>	<u>85.50</u>
CHLORIDE		@		
		@		
		@		
		@		
		@		
HANDLING	<u>165</u>	@	<u>1.05</u>	<u>173.25</u>
MILEAGE	<u>15</u>			<u>99.00</u>

TOTAL \$ 1169.55

EQUIPMENT

PUMP TRUCK CEMENTER Tim D

# 181 HELPER Bob B

BULK TRUCK

# 101 DRIVER Jim W.

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

Mixed - 50 lbs @ 3640'

50 lbs @ 1030'

40 lbs @ 500'

10 lbs @ 40'

15 lbs in Rott hole

SERVICE

DEPTH OF JOB	<u>3640'</u>			
PUMP TRUCK CHARGE				<u>550.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>15</u>	@	<u>2.85</u>	<u>42.75</u>
PLUG <u>1-8 5/8 Dyphole</u>		@	<u>23.00</u>	<u>23.00</u>
		@		

TOTAL \$ 615.75

CHARGE TO: Coronado Petroleum Inc

STREET 151 N. Main Suite 630

CITY Wichita STATE Ks ZIP 67202-1407

FLOAT EQUIPMENT

	@			
	@			
	@			
	@			
	@			

TOTAL \_\_\_\_\_

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 0

TOTAL CHARGE \$ 1785.30

DISCOUNT \$ 267.80 IF PAID IN 30 DAYS

Net \$ 1517.50

SIGNATURE R. M. O'J

ENTERED \_\_\_\_\_

ORIGINAL

WELL NAME: M. Gross #1-1  
COMPANY: Cross Bar Petl. Inc./L.D.  
LOCATION: Sec. 1 Twp. 20S Rge. 16W  
Pawnee County Kansas  
DATE: 10-29-96

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15-145-21441

RELEASED

SEP 25 1998

FROM CONFIDENTIAL

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15-145-21441  
M. Gross #1-1  
Cross Bar Petl. Inc./L.D.  
Sec. 1 Twp. 20S Rge. 16W  
Pawnee County Kansas  
10-29-96



CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Cross Bar Petl.Inc./L.D.

DATE 10-23-96

WELL NAME: M.Gross #1-1  
LOCATION : 1-20S-16W Pawnee KS  
INTERVAL : 3608.00 To 3690.00 ft

KB 1983.00 ft  
GR 1978.00 ft  
TD 3690.00 ft  
TICKET NO: 9459  
FORMATION: Arbuckle  
TEST TYPE: CONV.  
DST #1

15-145-21441

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	10248	10248	2357			PF Fr. 1848 to 1933 hr
SI 60 Range (Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1933 to 2033 hr
SF 30 Clock(hrs)	12 HR	12 HR	elec.			SF Fr. 2033 to 2103 hr
FS 60 Depth(ft )	3687.0	3687.0	3613.0	0.0	0.0	FS Fr. 2103 to 2203 hr

	Field	1	2	3	4	
A. Init Hydro	1821.0	1853.0	1824.0	0.0	0.0	T STARTED 1712 hr
B. First Flow	292.0	308.0	281.0	0.0	0.0	T ON BOTM 1845 hr
B1. Final Flow	417.0	420.0	384.0	0.0	0.0	T OPEN 1848 hr
C. In Shut-in	716.0	727.0	688.0	0.0	0.0	T PULLED 2205 hr
D. Init Flow	431.0	437.0	387.0	0.0	0.0	T OUT 0030 hr
E. Final Flow	453.0	453.0	412.0	0.0	0.0	
F. Fl Shut-in	736.0	734.0	703.0	0.0	0.0	
G. Final Hydro	1775.0	1767.0	1759.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----

Tool Wt.	2100.00 lbs
Wt Set On Packer	21000.00 lbs
Wt Pulled Loose	45000.00 lbs
Initial Str Wt	34000.00 lbs
Unseated Str Wt	38000.00 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	0.00 ft
D.P. Length	3588.00 ft
H.W. I.D	2.70 in

RECOVERY

Tot Fluid 970.00 ft of 0.00 ft in DC and 970.00 ft in DP  
 200.00 ft of Watery mud with oil specs  
 770.00 ft of Slightly gas cut muddy water  
 0.00 ft of 5% gas, 13% mud 82% water  
 0.00 ft of RW .44 ohms @ 58 F.  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of EST. FT. OF PAY-----20  
 SALINITY 24000.00 P.P.M. A.P.I. Gravity

NOV

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BLOW DESCRIPTION

Initial Flow -  
 Strong blow - bottom of bucket in 15 seconds - decreasing to 5" blow after 45 minutes

Final Flow -  
 Weak to fair blow (1-5")

SAMPLES: none  
 SENT TO:

RELEASED

SEP 25 1998

FROM CONFIDENTIAL

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	44.00 S/L
W.L.	10.50 in3
F.C.	0.20 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	116.00 F
Hole Condition	good
% Porosity	12.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out Y	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Steve Davis
Contr.	L.D.Drlg.
Rig #	1
Unit #	
Pump T.	

\*\*\* TOOL DIAGRAM \*\*\* CONV.

ORIGINAL

WELL NAME: M.Gross #1-1  
 LOCATION : Sec. 1 Twp.20s Rge.16w KS  
 TICKET No. 9459 D.S.T. No. 1 DATE 10-23-96  
 TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 26  
 INTERVAL TOOL .....  
 BOTTOM PACKERS AND ANCHOR ..... 21  
 TOTAL TOOL ..... 47  
 DRILL COLLAR ANCHOR IN INTERVAL .....  
 D.C. ANCHOR STND.Stands Single Total  
 D.P. ANCHOR STND.Stands 1 Single Total 61  
 TOTAL ASSEMBLY ..... 108  
 D.C. ABOVE TOOLS.Stands Single Total  
 D.P. ABOVE TOOLS.Stands58 Single Total 3588  
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3696  
 TOTAL DEPTH ..... 3690  
 TOTAL DRILL PIPE ABOVE K.B. .... 6  
 REMARKS:

P.O. SUB	
C.O. SUB @ Top of Tool	3582
S.I. TOOL	3588
HMV	3593
JARS	3597
SAFETY JOINT	3599
PACKER	3603
PACKER	3608
DEPTH 3608	
STUBB 1'	3609
ANCHOR	
Alpine Recorder @	3613
14' perms & sub to	3623
T.C. DEPTH	
1 stand drill pipe to	3684
sub to	3685
AK-1 rec. @	3687
BULLNOSE 5' perforated to T.D.	3690

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RJC  
 DEC 18  
 CONFIDENTIAL

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9459 DST#1 M.GROSS #1-1 CROSS BAR PETL./L.D.

DATE: 10/23/96 TIME: 17:12:57  
 -----

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	91.00	1823.6	0.0	98.51		
***** Start Flow 1	0.00	253.5	0.0	99.08		
	1.00	266.6	13.1	99.56		
	2.00	271.7	18.2	100.22		
	3.00	276.2	22.7	100.87		
	4.00	283.1	29.5	101.45		
	5.00	290.1	36.6	101.95		
	6.00	295.2	41.7	102.43		
	7.00	301.9	48.3	102.95		
	8.00	309.1	55.6	103.52		
	9.00	315.7	62.2	104.13		
	10.00	321.9	68.4	104.76		
	11.00	328.0	74.4	105.41		
	12.00	333.3	79.7	106.20		
	13.00	337.7	84.2	107.30		
	14.00	342.5	89.0	108.61		
	15.00	347.4	93.8	109.94		
	16.00	351.6	98.0	111.20		
	17.00	355.2	101.6	112.28		
	18.00	354.3	100.7	113.19		
	19.00	357.4	103.9	113.93		
	20.00	360.3	106.8	114.52		
	21.00	363.0	109.4	114.97		
	22.00	365.4	111.9	115.33		
	23.00	367.7	114.1	115.60		
	24.00	369.4	115.8	115.83		
	25.00	371.0	117.5	116.00		
	26.00	372.2	118.7	116.14		
	27.00	373.4	119.8	116.26		
	28.00	374.3	120.8	116.35		
	29.00	375.2	121.7	116.41		
	30.00	375.9	122.4	116.46		
	31.00	376.5	123.0	116.48		
	32.00	377.0	123.5	116.50		
	33.00	377.7	124.1	116.50		
	34.00	378.3	124.7	116.49		
	35.00	378.8	125.3	116.48		
	36.00	379.4	125.9	116.45		
	37.00	380.0	126.5	116.42		
	38.00	380.6	127.1	116.38		
	39.00	381.2	127.7	116.35		
	40.00	381.7	128.2	116.31		
	41.00	382.4	128.8	116.26		
	42.00	383.0	129.4	116.22		
	43.00	383.6	130.1	116.17		
***** End Flow 1	44.00	384.4	130.8	116.13		
***** Start Shutin 1	0.00	384.4	0.0	116.13	0.0000	0.148
	1.00	407.9	23.5	116.09	45.0000	0.166
	2.00	426.5	42.1	116.05	23.0000	0.182
	3.00	443.1	58.7	116.01	15.6667	0.196
	4.00	451.4	67.0	115.96	12.0000	0.204

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9459 DST#1 M.GROSS #1-1 CROSS BAR PETL./L.D.

DATE: 10/23/96

TIME: 17:12:57

Time	Pressure PSig	delta P PSig	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
5.00	473.0	88.6	115.92	115.92	9.8000	0.224
6.00	489.5	105.1	115.88	115.88	8.3333	0.240
7.00	504.6	120.2	115.85	115.85	7.2857	0.255
8.00	516.1	131.7	115.81	115.81	6.5000	0.266
9.00	526.8	142.4	115.76	115.76	5.8889	0.278
10.00	536.4	152.0	115.72	115.72	5.4000	0.288
11.00	543.7	159.3	115.68	115.68	5.0000	0.296
12.00	550.8	166.4	115.64	115.64	4.6667	0.303
13.00	557.2	172.8	115.60	115.60	4.3846	0.310
14.00	561.9	177.5	115.56	115.56	4.1429	0.316
15.00	568.3	183.9	115.52	115.52	3.9333	0.323
16.00	573.7	189.3	115.48	115.48	3.7500	0.329
17.00	578.6	194.2	115.44	115.44	3.5882	0.335
18.00	583.5	199.1	115.41	115.41	3.4444	0.340
19.00	587.4	203.0	115.36	115.36	3.3158	0.345
20.00	591.3	207.0	115.34	115.34	3.2000	0.350
21.00	594.7	210.3	115.30	115.30	3.0952	0.354
22.00	597.9	213.5	115.26	115.26	3.0000	0.357
23.00	601.0	216.6	115.23	115.23	2.9130	0.361
24.00	604.1	219.7	115.21	115.21	2.8333	0.365
25.00	607.7	223.3	115.17	115.17	2.7600	0.369
26.00	610.5	226.1	115.14	115.14	2.6923	0.373
27.00	613.2	228.8	115.11	115.11	2.6296	0.376
28.00	615.1	230.7	115.08	115.08	2.5714	0.378
29.00	617.0	232.6	115.04	115.04	2.5172	0.381
30.00	619.6	235.2	115.02	115.02	2.4667	0.384
31.00	622.7	238.3	114.98	114.98	2.4194	0.388
32.00	625.8	241.4	114.95	114.95	2.3750	0.392
33.00	628.8	244.4	114.91	114.91	2.3333	0.395
34.00	632.1	247.8	114.88	114.88	2.2941	0.400
35.00	635.5	251.1	114.86	114.86	2.2571	0.404
36.00	638.9	254.6	114.83	114.83	2.2222	0.408
37.00	641.8	257.4	114.81	114.81	2.1892	0.412
38.00	644.1	259.7	114.78	114.78	2.1579	0.415
39.00	646.6	262.2	114.77	114.77	2.1282	0.418
40.00	649.0	264.6	114.74	114.74	2.1000	0.421
41.00	651.4	267.1	114.72	114.72	2.0732	0.424
42.00	653.1	268.7	114.70	114.70	2.0476	0.427
43.00	654.8	270.4	114.68	114.68	2.0233	0.429
44.00	650.7	266.3	114.66	114.66	2.0000	0.423
45.00	657.6	273.2	114.64	114.64	1.9778	0.432
46.00	660.3	275.9	114.62	114.62	1.9565	0.436
47.00	662.2	277.8	114.61	114.61	1.9362	0.438
48.00	663.3	278.9	114.59	114.59	1.9167	0.440
49.00	665.6	281.2	114.57	114.57	1.8980	0.443
50.00	668.6	284.2	114.55	114.55	1.8800	0.447
51.00	670.9	286.5	114.53	114.53	1.8627	0.450
52.00	673.6	289.2	114.52	114.52	1.8462	0.454
53.00	676.4	292.1	114.49	114.49	1.8302	0.458
54.00	679.1	294.8	114.48	114.48	1.8148	0.461
55.00	681.7	297.4	114.46	114.46	1.8000	0.465

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9459 DST#1 M.GROSS #1-1 CROSS BAR PETL./L.D.

DATE: 10/23/96 TIME: 17:12:57

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	56.00	683.2	298.9	114.45	1.7857	0.467
	57.00	685.0	300.6	114.43	1.7719	0.469
	58.00	686.5	302.1	114.43	1.7586	0.471
	59.00	687.4	303.1	114.41	1.7458	0.473
***** End Shut-in 1	60.00	688.4	304.0	114.40	1.7333	0.474
***** Start Flow 2	0.00	387.2	0.0	114.38		
	1.00	388.6	1.4	114.36		
	2.00	389.6	2.4	114.33		
	3.00	390.5	3.4	114.29		
	4.00	391.4	4.3	114.27		
	5.00	392.3	5.1	114.25		
	6.00	393.2	6.0	114.23		
	7.00	394.2	7.0	114.21		
	8.00	395.0	7.9	114.21		
	9.00	395.8	8.6	114.19		
	10.00	396.6	9.4	114.19		
	11.00	397.4	10.2	114.18		
	12.00	398.0	10.8	114.18		
	13.00	398.7	11.6	114.18		
	14.00	399.7	12.5	114.18		
	15.00	400.6	13.4	114.19		
	16.00	401.8	14.6	114.19		
	17.00	402.8	15.6	114.20		
	18.00	403.7	16.5	114.22		
	19.00	404.5	17.4	114.22		
	20.00	405.4	18.3	114.23		
	21.00	406.3	19.1	114.25		
	22.00	407.0	19.9	114.23		
	23.00	407.9	20.7	114.24		
	24.00	408.8	21.7	114.25		
	25.00	409.6	22.4	114.25		
	26.00	410.2	23.1	114.26		
	27.00	411.0	23.8	114.27		
***** End Flow 2	28.00	411.7	24.6	114.27		
***** Start Shutin 2	0.00	411.7	0.0	114.27	0.0000	0.170
	1.00	502.0	90.2	114.29	73.0000	0.252
	2.00	578.3	166.5	114.30	37.0000	0.334
	3.00	625.7	213.9	114.30	25.0000	0.391
	4.00	652.5	240.8	114.31	19.0000	0.426
	5.00	667.7	256.0	114.31	15.4000	0.446
	6.00	676.7	265.0	114.31	13.0000	0.458
	7.00	682.2	270.4	114.31	11.2857	0.465
	8.00	685.7	273.9	114.31	10.0000	0.470
	9.00	688.4	276.6	114.31	9.0000	0.474
	10.00	689.7	278.0	114.31	8.2000	0.476
	11.00	691.4	279.6	114.30	7.5455	0.478
	12.00	692.7	281.0	114.29	7.0000	0.480
	13.00	693.7	282.0	114.29	6.5385	0.481
	14.00	694.8	283.1	114.30	6.1429	0.483
	15.00	695.3	283.6	114.30	5.8000	0.483
	16.00	695.8	284.1	114.30	5.5000	0.484

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: 9459 DST#1 M.GROSS #1-1 CROSS BAR PETL./L.D.  
 DATE: 10/23/96 TIME: 17:12:57  
 -----

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6	
	17.00	696.3	284.5	114.31	5.2353	0.485	
	18.00	696.4	284.7	114.31	5.0000	0.485	
	19.00	696.8	285.1	114.31	4.7895	0.486	
	20.00	697.1	285.4	114.31	4.6000	0.486	
	21.00	697.3	285.5	114.31	4.4286	0.486	
	22.00	697.9	286.2	114.31	4.2727	0.487	
	23.00	699.0	287.3	114.31	4.1304	0.489	
	24.00	699.5	287.8	114.31	4.0000	0.489	
	25.00	699.6	287.9	114.30	3.8800	0.489	
	26.00	699.9	288.1	114.30	3.7692	0.490	
	27.00	700.0	288.3	114.29	3.6667	0.490	
	28.00	700.4	288.6	114.29	3.5714	0.491	
	29.00	700.5	288.7	114.29	3.4828	0.491	
	30.00	700.7	289.0	114.29	3.4000	0.491	
	31.00	700.8	289.0	114.29	3.3226	0.491	
	32.00	700.9	289.1	114.28	3.2500	0.491	
	33.00	701.0	289.2	114.26	3.1818	0.491	
	34.00	701.1	289.4	114.26	3.1176	0.492	
	35.00	701.1	289.4	114.26	3.0571	0.492	
	36.00	701.5	289.7	114.26	3.0000	0.492	
	37.00	702.3	290.6	114.26	2.9459	0.493	
	38.00	702.8	291.1	114.27	2.8947	0.494	
	39.00	702.9	291.1	114.26	2.8462	0.494	
	40.00	702.7	291.0	114.25	2.8000	0.494	
	41.00	703.1	291.3	114.26	2.7561	0.494	
	42.00	702.9	291.1	114.25	2.7143	0.494	
	43.00	702.5	290.7	114.25	2.6744	0.493	
	44.00	702.6	290.9	114.24	2.6364	0.494	
	45.00	702.5	290.7	114.24	2.6000	0.493	
	46.00	702.6	290.8	114.23	2.5652	0.494	
	47.00	703.1	291.3	114.24	2.5319	0.494	
	48.00	703.2	291.5	114.23	2.5000	0.495	
	49.00	703.5	291.8	114.22	2.4694	0.495	
	50.00	703.5	291.8	114.22	2.4400	0.495	
	51.00	703.4	291.7	114.21	2.4118	0.495	
	52.00	703.4	291.7	114.20	2.3846	0.495	
	53.00	703.4	291.7	114.21	2.3585	0.495	
	54.00	703.3	291.6	114.20	2.3333	0.495	
	55.00	702.8	291.1	114.20	2.3091	0.494	
	56.00	702.7	291.0	114.20	2.2857	0.494	
	57.00	702.9	291.2	114.19	2.2632	0.494	
	58.00	702.9	291.2	114.20	2.2414	0.494	
	59.00	702.8	291.1	114.19	2.2203	0.494	
	60.00	703.2	291.4	114.19	2.2000	0.494	
	61.00	703.2	291.4	114.18	2.1803	0.494	
	62.00	703.2	291.4	114.19	2.1613	0.494	
	63.00	703.1	291.3	114.19	2.1429	0.494	
*****	End Shut-in 2	64.00	703.0	291.2	114.19	2.1250	0.494
*****	Final Hydro.	293.00	1758.6	0.0	113.92		

# TEST HISTORY

9459 DST#1 M.GROSS #1-1 CROSS BAR PETL./L.D.

Flag Points

	t(Min.)	P(PSig)
A:	0.00	1823.58
B:	0.00	253.54
C:	44.00	384.38
D:	60.00	688.37
E:	0.00	387.15
F:	28.00	411.74
G:	64.00	702.97
Q:	0.00	1758.61

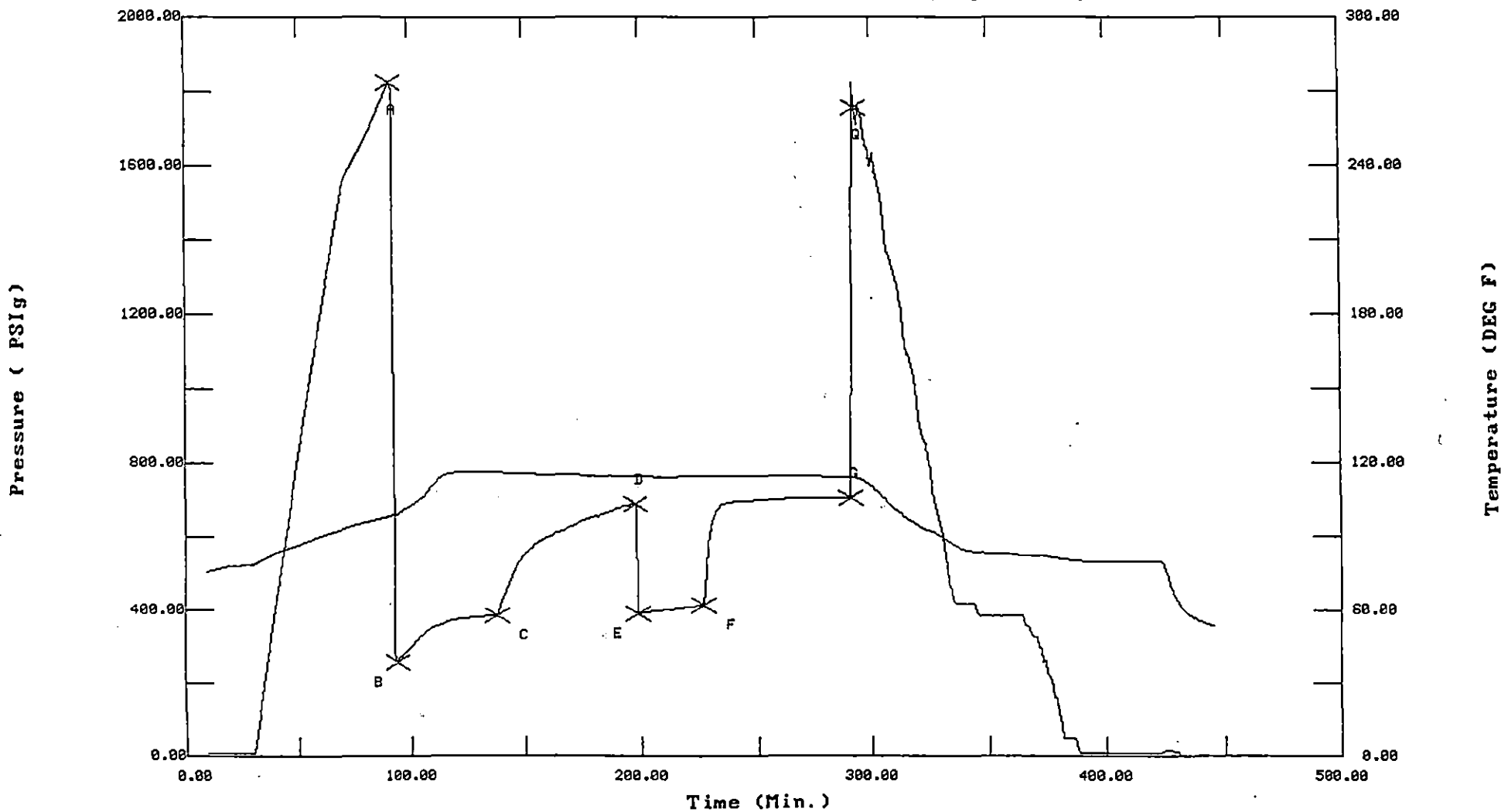
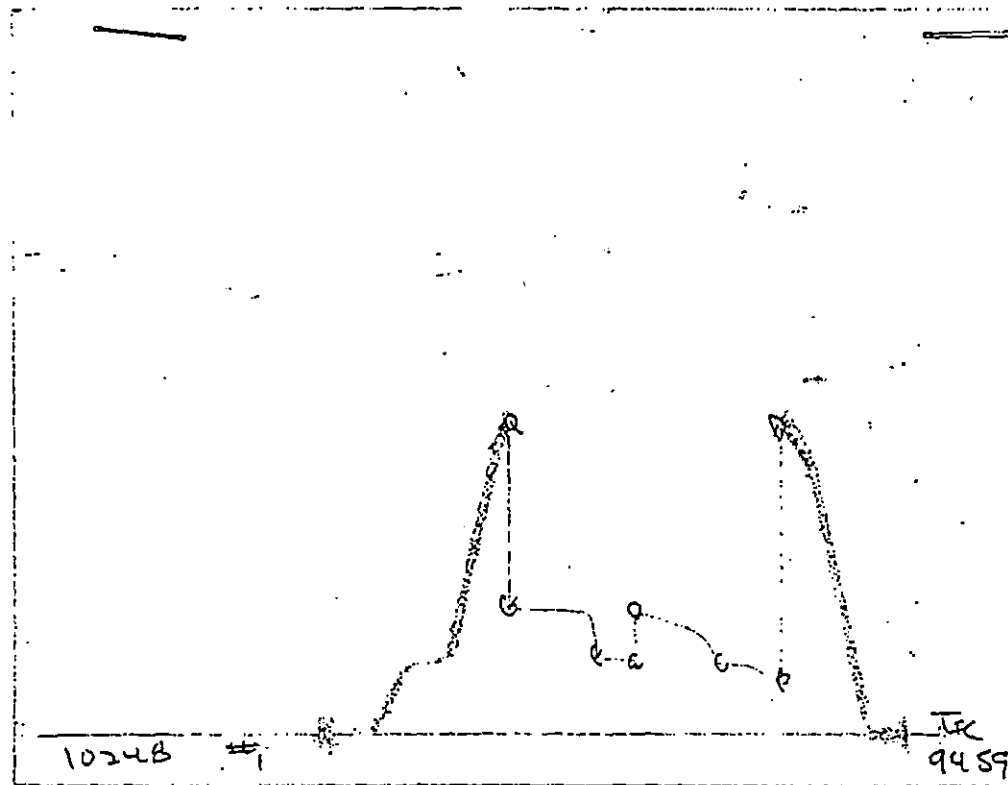


CHART PAGE



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



TRILOBITE TESTING L.L.C.

OPERATOR : Cross Bar Petl.Inc./L.D.  
 WELL NAME: M.Gross #1-1  
 LOCATION : 1-20S-16W Pawnee KS  
 INTERVAL : 3708.00 To 3720.00 ft

DATE 10-24-96

KB 1983.00 ft TICKET NO: 9460 DST #2  
 GR 1978.00 ft FORMATION: Arbuckle  
 TD 3720.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	10248	10248	2357			PF Fr. 0949 to 1034 hr
SI 60 Range(Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1034 to 1134 hr
SF 37 Clock(hrs)	12 HR	12 HR	elec.			SF Fr. 1134 to 1211 hr
FS 90 Depth(ft )	3717.0	3717.0	3715.0	0.0	0.0	FS Fr. 1211 to 1341 hr

	Field	1	2	3	4	
A. Init Hydro	1848.0	1865.0	1853.0	0.0	0.0	T STARTED 0817 hr
B. First Flow	125.0	121.0	116.0	0.0	0.0	T ON BOTM 0945 hr
B1. Final Flow	404.0	408.0	422.0	0.0	0.0	T OPEN 0949 hr
C. In Shut-in	1049.0	1050.0	1053.0	0.0	0.0	T PULLED 1341 hr
D. Init Flow	451.0	453.0	436.0	0.0	0.0	T OUT 1604 hr
E. Final Flow	630.0	621.0	628.0	0.0	0.0	
F. Fl Shut-in	1056.0	1048.0	1054.0	0.0	0.0	
G. Final Hydro	1799.0	1811.0	1799.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 2100.00 lbs
						Wt Set On Packer 21000.00 lbs
						Wt Pulled Loose 52000.00 lbs
						Initial Str Wt 34000.00 lbs
						Unseated Str Wt 39000.00 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 0.00 ft
						D.P. Length 3708.00 ft
						H.W. I.D 2.70 in

RECOVERY

Tot Fluid 1450.00 ft of 0.00 ft in DC and 1450.00 ft in DP  
 5.00 ft of Clean Oil  
 130.00 ft of Heavy oil & gas cut mud  
 0.00 ft of 10% gas 28% oil 62% mud  
 120.00 ft of Oil cut muddy water  
 0.00 ft of 5% oil 20% mud 75% water  
 1195.00 ft of Salt water with a few oil specs  
 0.00 ft of (Rw .22 ohms @ 65 F.)  
 0.00 ft of EST. FT. OF PAY-----12  
 SALINITY 37000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	46.00 S/L
W.L.	8.20 in3
F.C.	0.20 in
Mud Drop	

BLOW DESCRIPTION

Initial flow -  
 Strong blow - bottom of bucket in 5  
 secs. Gas to surface in 12 minutes  
 (see gas volume report)

Amt. of fill	0.00 ft
Btm. H. Temp.	122.00 F
Hole Condition	good
% Porosity	12.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	

Final Flow -  
 Strong blow - bottom of bucket in 5  
 mins.) (see gas volume report)

Tester	Gary Pevoteaux
Co. Rep.	Steve Davis
Contr.	L.D.Drlg.
Rig #	1
Unit #	
Pump T.	

SAMPLES: 1 gas bottle  
 SENT TO: Caraway / Liberal Ks

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV.

WELL NAME: M.Gross #1-1  
 LOCATION : Sec. 1 Twp.20s Rge.16w KS  
 TICKET No. 9460 D.S.T. No. 2 DATE 10-24-96  
 TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 26  
 INTERVAL TOOL .....  
 BOTTOM PACKERS AND ANCHOR ..... 12  
 TOTAL TOOL ..... 38  
 DRILL COLLAR ANCHOR IN INTERVAL .....  
 D.C. ANCHOR STND.Stands Single Total  
 D.P. ANCHOR STND.Stands Single Total  
 TOTAL ASSEMBLY ..... 38  
 D.C. ABOVE TOOLS.Stands Single Total  
 D.P. ABOVE TOOLS.Stands60 Single Total 3708  
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3746  
 TOTAL DEPTH ..... 3720  
 TOTAL DRILL PIPE ABOVE K.B. .... 26  
 REMARKS:

P.O. SUB	
C.O. SUB @ Top of Tool	3682
S.I. TOOL	3688
HMV	3693
JARS	3697
SAFETY JOINT	3699
PACKER	3703
PACKER	3708
DEPTH 3708	
STUBB 1'	3709
ANCHOR	
Alpine Recorder @	3715
T.C. DEPTH	
6 ft. perms to	3715
AK-1 rec. @	3717
BULLNOSE 5' perforated to T.D.	3720

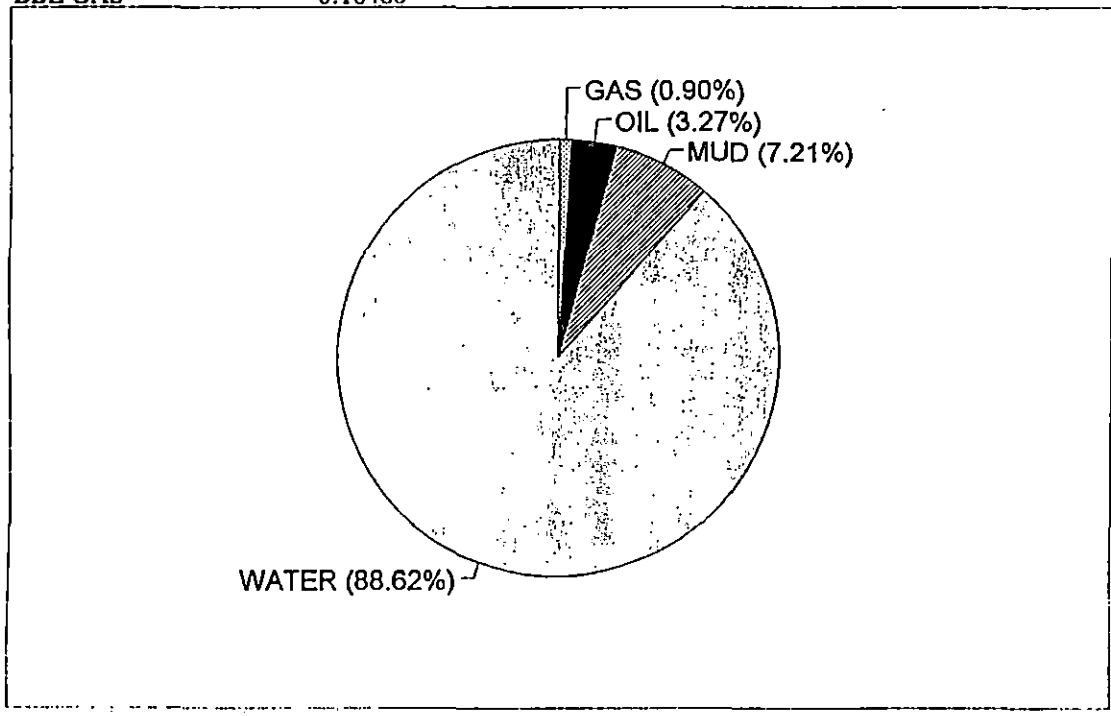
CALCULATED RECOVERY ANALYSIS - DRILL PIPE

DST 2

TICKET 9460

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	5		0	100	5		0		0
2	130	10	13	28	36.4		0	62	80.6
3	120		0	5	6	75	90	20	24
4	1195		0		0	100	1195		0
5			0		0		0		0
6			0		0		0		0
<b>TOTAL</b>	<b>1450</b>		<b>13</b>		<b>47.4</b>		<b>1285</b>		<b>104.6</b>

			HRS OPEN		BBL/DAY
BBL OIL =	0.674028	*	1.25	=	12.94134
BBL WATER =	18.2727	*		=	350.8358
BBL MUD =	1.487412				
BBL GAS =	0.18486				



GAS RECOVERY  
-----

COMPANY: Cross Bar Petl.Inc./L.D. DATE: 10-24-96  
WELL NAME: M.Gross #1-1 KB Elev: 1983.00 ft TICKET #9460 DST #2  
WELL LOCATION: Sec. 1 Twp.20s Rge.16w KS GR Elev: 1978.00 ft FORMATION: Arbuckle  
INTERVAL Fr.: 3708.00 To 3720.00 T.D.: 3720.00 ft TEST TYPE: CONV.

GAS RECOVERY MEASURED WITH MERLA

\*\*\*\*\* GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
20	0.50	0	8	17200.0
30	0.50	0	5	14100.0
40	0.50	0	4	11900.0

\*\*\*\*\* GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
20	0.25	0	4	3190.0
30	0.25	0	4	3190.0
37	0.25	0	5	3580.0

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: 9460 DST#2 M.GROSS #1-1 CROSS BAR PETL.INC./L.D.  
 DATE: 10/24/96                      TIME: 08:17:23  
 -----

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	88.00	1852.9	0.0	98.64		
***** Start Flow 1	0.00	115.6	0.0	99.80		
	1.00	105.5	-10.2	101.33		
	2.00	107.5	-8.1	103.74		
	3.00	114.3	-1.3	106.44		
	4.00	121.8	6.1	109.01		
	5.00	131.3	15.6	111.26		
	6.00	136.6	21.0	113.16		
	7.00	145.8	30.1	114.73		
	8.00	155.0	39.4	116.01		
	9.00	165.8	50.2	117.03		
	10.00	176.0	60.3	117.86		
	11.00	184.5	68.9	118.52		
	12.00	193.9	78.3	119.07		
	13.00	202.4	86.8	119.51		
	14.00	210.7	95.0	119.86		
	15.00	219.6	104.0	120.14		
	16.00	227.8	112.1	120.40		
	17.00	236.0	120.4	120.68		
	18.00	244.6	129.0	120.68		
	19.00	251.5	135.9	120.86		
	20.00	259.5	143.9	120.98		
	21.00	269.5	153.8	121.08		
	22.00	278.2	162.6	121.16		
	23.00	284.7	169.0	121.23		
	24.00	291.5	175.8	121.29		
	25.00	299.1	183.5	121.35		
	26.00	305.4	189.8	121.39		
	27.00	312.2	196.6	121.44		
	28.00	320.8	205.1	121.48		
	29.00	326.9	211.2	121.53		
	30.00	333.5	217.9	121.57		
	31.00	341.2	225.6	121.61		
	32.00	346.5	230.9	121.65		
	33.00	353.7	238.0	121.69		
	34.00	360.5	244.8	121.74		
	35.00	365.7	250.0	121.78		
	36.00	374.8	259.2	121.81		
	37.00	380.1	264.5	121.84		
	38.00	386.6	271.0	121.86		
	39.00	393.2	277.5	121.89		
	40.00	400.1	284.4	121.92		
	41.00	405.8	290.1	121.94		
	42.00	410.2	294.6	121.97		
	43.00	416.0	300.4	122.00		
***** End Flow 1	44.00	421.9	306.3	122.03		
***** Start Shutin 1	0.00	421.9	0.0	122.03	0.0000	0.178
	1.00	864.9	443.0	122.06	45.0000	0.748
	2.00	933.9	512.0	122.09	23.0000	0.872
	3.00	965.2	543.3	122.13	15.6667	0.932
	4.00	984.0	562.1	122.15	12.0000	0.968

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9460 DST#2 M.GROSS #1-1 CROSS BAR PETL.INC./L.D.

DATE: 10/24/96

TIME: 08:17:23

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
5.00	996.4	574.5	122.18	9.8000	0.993
6.00	1005.2	583.3	122.19	8.3333	1.010
7.00	1011.7	589.8	122.21	7.2857	1.024
8.00	1016.9	595.0	122.21	6.5000	1.034
9.00	1021.2	599.3	122.23	5.8889	1.043
10.00	1024.7	602.8	122.22	5.4000	1.050
11.00	1027.5	605.6	122.21	5.0000	1.056
12.00	1030.0	608.1	122.20	4.6667	1.061
13.00	1032.0	610.1	122.19	4.3846	1.065
14.00	1033.7	611.8	122.17	4.1429	1.069
15.00	1035.3	613.4	122.14	3.9333	1.072
16.00	1036.8	614.9	122.11	3.7500	1.075
17.00	1037.9	616.0	122.08	3.5882	1.077
18.00	1039.0	617.1	122.05	3.4444	1.080
19.00	1039.9	618.0	122.01	3.3158	1.081
20.00	1040.8	618.9	121.98	3.2000	1.083
21.00	1041.6	619.7	121.95	3.0952	1.085
22.00	1042.4	620.5	121.90	3.0000	1.087
23.00	1043.1	621.2	121.86	2.9130	1.088
24.00	1043.7	621.8	121.82	2.8333	1.089
25.00	1044.2	622.3	121.78	2.7600	1.090
26.00	1044.8	622.9	121.73	2.6923	1.092
27.00	1045.2	623.3	121.68	2.6296	1.093
28.00	1045.7	623.8	121.63	2.5714	1.094
29.00	1046.2	624.3	121.59	2.5172	1.095
30.00	1046.6	624.7	121.55	2.4667	1.095
31.00	1046.9	625.0	121.50	2.4194	1.096
32.00	1047.3	625.4	121.46	2.3750	1.097
33.00	1047.6	625.7	121.43	2.3333	1.097
34.00	1047.8	625.9	121.39	2.2941	1.098
35.00	1048.2	626.3	121.35	2.2571	1.099
36.00	1048.4	626.5	121.31	2.2222	1.099
37.00	1048.8	626.9	121.28	2.1892	1.100
38.00	1048.9	627.0	121.24	2.1579	1.100
39.00	1049.3	627.4	121.21	2.1282	1.101
40.00	1049.5	627.6	121.18	2.1000	1.101
41.00	1049.7	627.8	121.15	2.0732	1.102
42.00	1049.9	628.0	121.11	2.0476	1.102
43.00	1050.1	628.2	121.09	2.0233	1.103
44.00	1050.3	628.4	121.06	2.0000	1.103
45.00	1050.4	628.5	121.04	1.9778	1.103
46.00	1050.6	628.7	121.01	1.9565	1.104
47.00	1050.8	628.9	120.98	1.9362	1.104
48.00	1051.0	629.1	120.95	1.9167	1.105
49.00	1051.1	629.2	120.93	1.8980	1.105
50.00	1051.2	629.3	120.90	1.8800	1.105
51.00	1051.4	629.5	120.87	1.8627	1.106
52.00	1051.6	629.7	120.85	1.8462	1.106
53.00	1051.8	629.9	120.81	1.8302	1.106
54.00	1051.9	630.0	120.81	1.8148	1.106
55.00	1051.9	630.0	120.75	1.8000	1.107

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9460 DST#2 M.GROSS #1-1 CROSS BAR PETL.INC./L.D.

DATE: 10/24/96

TIME: 08:17:23

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
60.00	1052.2	424.5	121.51	2.3333	1.107	
61.00	1052.3	424.6	121.50	2.3115	1.107	
62.00	1052.4	424.7	121.49	2.2903	1.107	
63.00	1052.4	424.7	121.48	2.2698	1.107	
64.00	1052.4	424.8	121.47	2.2500	1.108	
65.00	1052.5	424.8	121.46	2.2308	1.108	
66.00	1052.6	424.9	121.45	2.2121	1.108	
67.00	1052.6	424.9	121.43	2.1940	1.108	
68.00	1052.7	425.0	121.43	2.1765	1.108	
69.00	1052.9	425.2	121.42	2.1594	1.109	
70.00	1052.9	425.3	121.42	2.1429	1.109	
71.00	1052.9	425.3	121.40	2.1268	1.109	
72.00	1053.0	425.3	121.39	2.1111	1.109	
73.00	1053.0	425.3	121.39	2.0959	1.109	
74.00	1053.2	425.5	121.37	2.0811	1.109	
75.00	1053.2	425.5	121.37	2.0667	1.109	
76.00	1053.3	425.6	121.35	2.0526	1.109	
77.00	1053.4	425.7	121.36	2.0390	1.110	
78.00	1053.4	425.7	121.34	2.0256	1.110	
79.00	1053.4	425.7	121.34	2.0127	1.110	
80.00	1053.4	425.8	121.33	2.0000	1.110	
81.00	1053.5	425.8	121.32	1.9877	1.110	
82.00	1053.6	425.9	121.32	1.9756	1.110	
83.00	1053.6	425.9	121.31	1.9639	1.110	
84.00	1053.7	426.0	121.30	1.9524	1.110	
85.00	1053.6	425.9	121.29	1.9412	1.110	
86.00	1053.8	426.1	121.28	1.9302	1.110	
87.00	1053.8	426.1	121.28	1.9195	1.110	
88.00	1053.8	426.1	121.27	1.9091	1.110	
89.00	1053.9	426.2	121.27	1.8989	1.111	
90.00	1053.9	426.2	121.26	1.8889	1.111	
***** End Shut-in 2	91.00	1054.0	426.3	121.25	1.8791	1.111
***** Final Hydro.	330.00	1799.2	0.0	120.92		

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9460 DST#2 M.GROSS #1-1 CROSS BAR PETL.INC./L.D.

DATE: 10/24/96 TIME: 08:17:23  
 -----

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	56.00	1052.0	630.1	120.72	1.7857	1.107
	57.00	1052.2	630.3	120.69	1.7719	1.107
	58.00	1052.3	630.4	120.68	1.7586	1.107
	59.00	1052.4	630.5	120.68	1.7458	1.108
***** End Shut-in 1	60.00	1052.5	630.6	120.68	1.7333	1.108
***** Start Flow 2	0.00	436.2	0.0	120.68		
	1.00	439.6	3.4	120.68		
	2.00	447.1	10.9	120.68		
	3.00	454.5	18.3	120.78		
	4.00	461.6	25.4	120.97		
	5.00	468.5	32.3	121.15		
	6.00	474.9	38.8	121.33		
	7.00	481.7	45.6	121.50		
	8.00	488.1	52.0	121.64		
	9.00	494.5	58.3	121.76		
	10.00	500.4	64.2	121.90		
	11.00	506.4	70.2	121.96		
	12.00	512.2	76.0	122.03		
	13.00	518.1	81.9	122.10		
	14.00	523.8	87.6	122.14		
	15.00	529.4	93.2	122.19		
	16.00	535.0	98.9	122.22		
	17.00	540.5	104.3	122.25		
	18.00	545.9	109.8	122.28		
	19.00	550.9	114.7	122.29		
	20.00	556.3	120.1	122.32		
	21.00	560.4	124.2	122.34		
	22.00	564.1	127.9	122.35		
	23.00	568.9	132.7	122.36		
	24.00	573.1	137.0	122.37		
	25.00	577.4	141.3	122.37		
	26.00	582.3	146.1	122.39		
	27.00	586.7	150.6	122.39		
	28.00	590.9	154.8	122.40		
	29.00	595.0	158.9	122.40		
	30.00	599.7	163.6	122.40		
	31.00	603.8	167.6	122.40		
	32.00	608.1	172.0	122.41		
	33.00	613.0	176.8	122.41		
	34.00	616.8	180.6	122.41		
	35.00	621.6	185.4	122.42		
***** End Flow 2	36.00	627.7	191.5	122.42		
***** Start Shutin 2	0.00	627.7	0.0	122.42	0.0000	0.394
	1.00	935.8	308.1	122.43	81.0000	0.876
	2.00	977.7	350.0	122.43	41.0000	0.956
	3.00	996.5	368.8	122.44	27.6667	0.993
	4.00	1007.7	380.0	122.45	21.0000	1.015
	5.00	1015.3	387.6	122.44	17.0000	1.031
	6.00	1020.8	393.1	122.49	14.3333	1.042
	7.00	1025.0	397.3	122.43	12.4286	1.051
	8.00	1028.3	400.6	122.42	11.0000	1.057



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9460 DST#2 M.GROSS #1-1 CROSS BAR PETL.INC./L.D.

DATE: 10/24/96

TIME: 08:17:23

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
9.00	1031.0	403.4	122.39	9.8889	1.063
10.00	1033.2	405.5	122.37	9.0000	1.068
11.00	1035.1	407.4	122.36	8.2727	1.071
12.00	1036.7	409.0	122.34	7.6667	1.075
13.00	1038.0	410.3	122.33	7.1538	1.077
14.00	1039.2	411.5	122.33	6.7143	1.080
15.00	1040.3	412.6	122.31	6.3333	1.082
16.00	1041.2	413.5	122.29	6.0000	1.084
17.00	1042.0	414.4	122.28	5.7059	1.086
18.00	1042.7	415.0	122.26	5.4444	1.087
19.00	1043.4	415.7	122.24	5.2105	1.089
20.00	1044.0	416.3	122.21	5.0000	1.090
21.00	1044.6	416.9	122.19	4.8095	1.091
22.00	1045.1	417.4	122.19	4.6364	1.092
23.00	1045.5	417.8	122.16	4.4783	1.093
24.00	1045.9	418.2	122.14	4.3333	1.094
25.00	1046.2	418.5	122.10	4.2000	1.095
26.00	1046.7	419.0	122.09	4.0769	1.095
27.00	1047.0	419.3	122.07	3.9630	1.096
28.00	1047.3	419.6	122.05	3.8571	1.097
29.00	1047.6	419.9	122.01	3.7586	1.097
30.00	1047.9	420.2	122.00	3.6667	1.098
31.00	1048.2	420.5	121.98	3.5806	1.099
32.00	1048.4	420.7	121.95	3.5000	1.099
33.00	1048.7	421.0	121.93	3.4242	1.100
34.00	1048.8	421.1	121.91	3.3529	1.100
35.00	1049.0	421.3	121.89	3.2857	1.100
36.00	1049.2	421.5	121.86	3.2222	1.101
37.00	1049.4	421.7	121.85	3.1622	1.101
38.00	1049.6	421.9	121.83	3.1053	1.102
39.00	1049.8	422.1	121.81	3.0513	1.102
40.00	1049.9	422.2	121.79	3.0000	1.102
41.00	1050.1	422.4	121.78	2.9512	1.103
42.00	1050.3	422.6	121.75	2.9048	1.103
43.00	1050.3	422.7	121.74	2.8605	1.103
44.00	1050.6	422.9	121.73	2.8182	1.104
45.00	1050.7	423.0	121.71	2.7778	1.104
46.00	1050.8	423.1	121.69	2.7391	1.104
47.00	1050.9	423.2	121.68	2.7021	1.104
48.00	1051.0	423.3	121.66	2.6667	1.105
49.00	1051.1	423.4	121.65	2.6327	1.105
50.00	1051.2	423.5	121.63	2.6000	1.105
51.00	1051.3	423.6	121.63	2.5686	1.105
52.00	1051.5	423.8	121.61	2.5385	1.106
53.00	1051.6	423.9	121.60	2.5094	1.106
54.00	1051.6	423.9	121.58	2.4815	1.106
55.00	1051.7	424.0	121.57	2.4545	1.106
56.00	1051.9	424.2	121.56	2.4286	1.106
57.00	1051.9	424.3	121.54	2.4035	1.107
58.00	1052.0	424.3	121.53	2.3793	1.107
59.00	1052.0	424.3	121.52	2.3559	1.107

# TEST HISTORY

9460 DST#2 M. GROSS #1-1 CROSS BAR PETL. INC./L.D.

Flag Points  
t(Min.) P(PSig)

A:	0.00	1852.95
B:	0.00	115.64
C:	44.00	421.90
D:	60.00	1052.53
E:	0.00	436.16
F:	36.00	627.69
G:	92.00	1054.04
Q:	0.00	1799.24

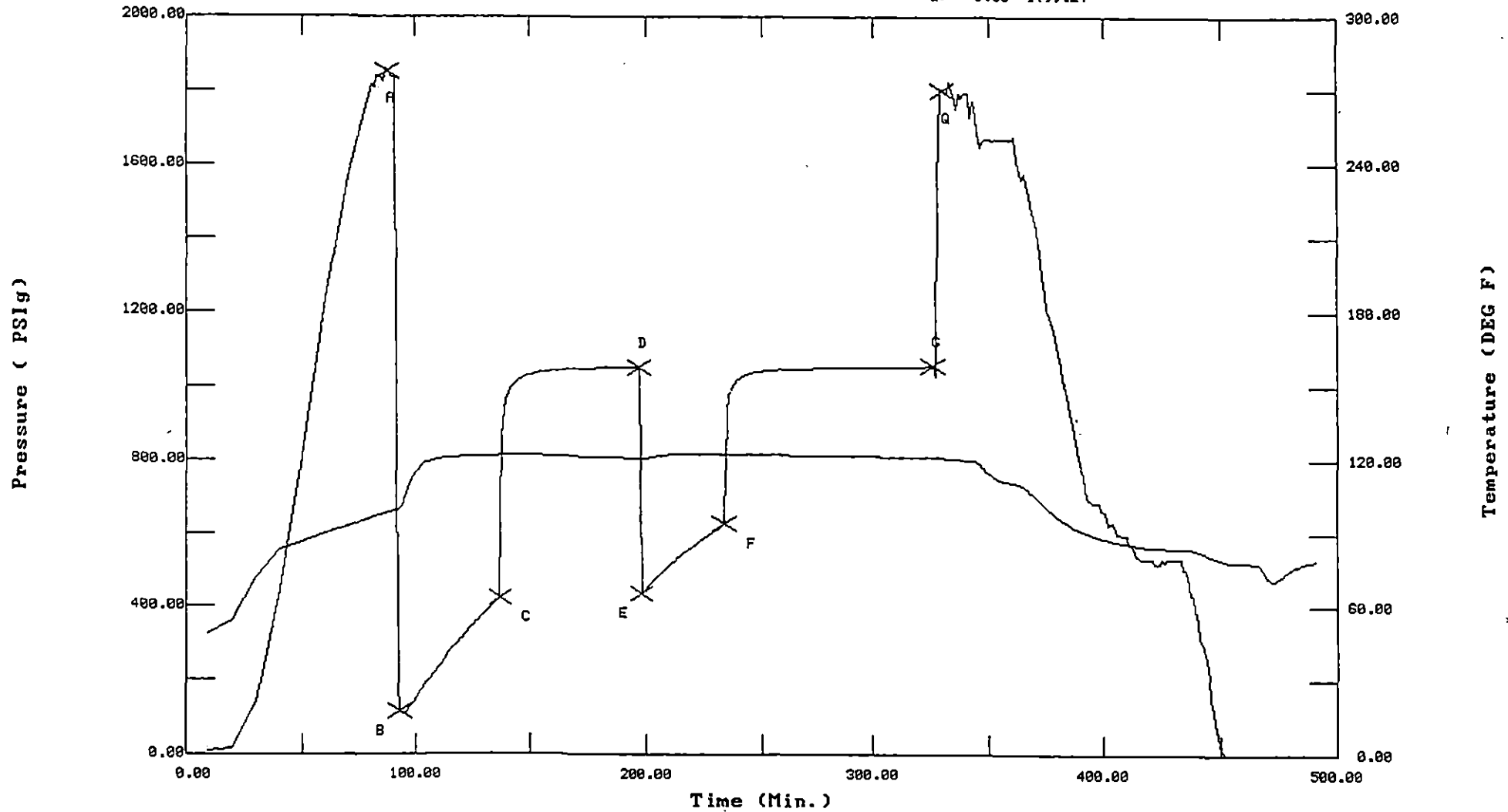
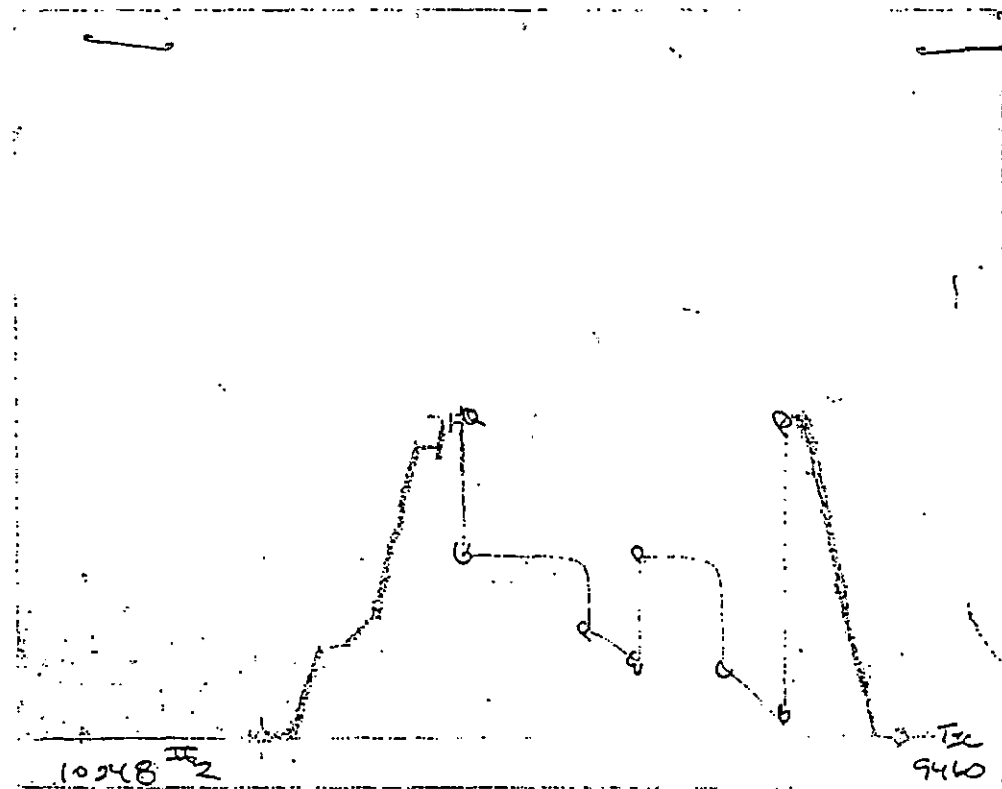


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Cross Bar Petl.Inc./L.D.  
 WELL NAME: M.Gross #1-1  
 LOCATION : 1-20S-16W Pawnee KS  
 INTERVAL : 3730.00 To 3744.00 ft

DATE 10-25-96

KB 1983.00 ft TICKET NO: 9461 DST #3  
 GR 1978.00 ft FORMATION: Arbuckle  
 TD 3744.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	10248	10248	2357			PF Fr. 0024 to 0109 hr
SI 60	Range(Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0109 to 0209 hr
SF 45	Clock(hrs)	12 HR	12 HR	elec.			SF Fr. 0209 to 0254 hr
FS 60	Depth(ft )	3741.0	3741.0	3736.0	0.0	0.0	FS Fr. 0254 to 0354 hr

	Field	1	2	3	4	
A. Init Hydro	1832.0	1886.0	1844.0	0.0	0.0	T STARTED 2245 hr
B. First Flow	34.0	32.0	56.0	0.0	0.0	T ON BOTM 0021 hr
B1. Final Flow	78.0	74.0	89.0	0.0	0.0	T OPEN 0024 hr
C. In Shut-in	1058.0	1065.0	1068.0	0.0	0.0	T PULLED 0354 hr
D. Init Flow	87.0	97.0	94.0	0.0	0.0	T OUT 0604 hr
E. Final Flow	141.0	137.0	139.0	0.0	0.0	
F. Fl Shut-in	1056.0	1047.0	1066.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1821.0	1863.0	1827.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 21000.00 lbs

RECOVERY

Tot Fluid 285.00 ft of 0.00 ft in DC and 285.00 ft in DP  
 435.00 ft of Gas in pipe  
 1.00 ft of Clean Oil  
 29.00 ft of Oil Cut Watery Mud 18%Oil 18%Water 64%Mud  
 120.00 ft of Slightly Oil Cut Muddy Water 2%O 88%W 10%M  
 125.00 ft of Salt Water with a few specs.  
 0.00 ft of Rw .20 ohms @ 65 F.  
 0.00 ft of  
 0.00 ft of EST. FT. OF PAY-----14  
 SALINITY 40000.00 P.P.M. A.P.I. Gravity 0.00

Wt Pulled Loose 44000.00 lbs  
 Initial Str Wt 34000.00 lbs  
 Unseated Str Wt 36000.00 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 0.00 ft  
 D.P. Length 3710.00 ft  
 H.W. I.D 2.70 in

BLOW DESCRIPTION

Initial Flow -  
 Fair to strong blow - bottom of bucket in 5 min.

Final Flow -  
 Fair to strong blow - bottom of bucket in 15 min.

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.20 lb/cf  
 Vis. 48.00 S/L  
 W.L. 8.80 in3  
 F.C. 0.20 in  
 Mud Drop

Amt. of fill 5.00 ft  
 Btm. H. Temp. 121.00 F  
 Hole Condition good  
 % Porosity 12.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00 N  
 Cushion Type None  
 Reversed Out N  
 Tool Chased Y 5.00 ft  
 Tester Gary Pevoteaux  
 Co. Rep. Steve Davis  
 Contr. L.D.Drlg.  
 Rig # 1  
 Unit #  
 Pump T.

SAMPLES: none  
 SENT TO:Caraway / Liberal Ks

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV.

WELL NAME: M.Gross #1-1  
 LOCATION : 1-20S-16W Pawnee KS  
 TICKET No. 9461 D.S.T. No. 3 DATE 10-25-96  
 TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 26  
 INTERVAL TOOL .....  
 BOTTOM PACKERS AND ANCHOR ..... 14  
 TOTAL TOOL ..... 40  
 DRILL COLLAR ANCHOR IN INTERVAL .....  
 O.C. ANCHOR STND.Stands Single Total  
 O.P. ANCHOR STND.Stands Single Total  
 TOTAL ASSEMBLY ..... 40  
 O.C. ABOVE TOOLS.Stands Single Total  
 O.P. ABOVE TOOLS.Stands60 Single Total 3710  
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3750  
 TOTAL DEPTH ..... 3744  
 TOTAL DRILL PIPE ABOVE K.B. .... 6  
 REMARKS:

P.O. SUB	
C.O. SUB @ Top of Tool	3704
S.I. TOOL	3710
HMV	3715
JARS	3719
SAFETY JOINT	3721
PACKER	3725
PACKER	3730
DEPTH 3730	
STUBB 1'	3731
ANCHOR	
Alpine Recorder @	3736
T.C.	
DEPTH	
8 ft. perfs to	3739
AK-1 rec. @	3741
BULLNOSE 5' perforated to	3744
T.D.	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9461 DST#3 M.GROSS #1-1 CROSS BAR PETL./L.D.

DATE: 10/24/96 TIME: 22:45:53

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	92.00	1844.0	0.0	97.38		
***** Start Flow 1	0.00	55.8	0.0	98.93		
	1.00	31.8	-24.0	99.28		
	2.00	33.3	-22.5	99.73		
	3.00	35.2	-20.6	100.35		
	4.00	36.4	-19.4	101.09		
	5.00	38.3	-17.5	101.85		
	6.00	40.2	-15.6	102.62		
	7.00	41.6	-14.2	103.43		
	8.00	43.5	-12.3	104.36		
	9.00	46.6	-9.2	105.37		
	10.00	45.6	-10.2	106.38		
	11.00	53.7	-2.1	107.39		
	12.00	49.3	-6.5	108.36		
	13.00	50.4	-5.4	109.27		
	14.00	51.5	-4.3	110.12		
	15.00	53.0	-2.8	110.89		
	16.00	54.6	-1.2	111.58		
	17.00	56.4	0.6	112.19		
	18.00	57.5	1.7	112.74		
	19.00	55.1	-0.7	113.23		
	20.00	56.2	0.4	113.66		
	21.00	57.6	1.8	114.05		
	22.00	59.2	3.4	114.39		
	23.00	60.3	4.5	114.70		
	24.00	61.5	5.7	114.98		
	25.00	63.4	7.6	115.23		
	26.00	64.9	9.1	115.45		
	27.00	65.9	10.1	115.65		
	28.00	67.7	11.9	115.83		
	29.00	68.2	12.4	116.02		
	30.00	69.5	13.7	116.19		
	31.00	70.7	14.9	116.36		
	32.00	72.0	16.2	116.50		
	33.00	73.7	17.9	116.65		
	34.00	74.7	18.9	116.79		
	35.00	76.3	20.5	116.91		
	36.00	76.8	21.0	117.03		
	37.00	78.3	22.5	117.14		
	38.00	79.6	23.8	117.25		
	39.00	80.9	25.1	117.35		
	40.00	84.3	28.5	117.44		
	41.00	84.3	28.5	117.53		
	42.00	92.2	36.4	117.60		
	43.00	87.9	32.1	117.68		
	44.00	88.5	32.6	117.74		
***** End Flow 1	45.00	88.5	32.7	117.81		
***** Start Shutin 1	0.00	88.5	0.0	117.81	0.0000	0.008
	1.00	124.5	36.0	117.88	46.0000	0.016
	2.00	246.4	157.9	117.94	23.5000	0.061
	3.00	426.7	338.1	117.99	16.0000	0.182

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9461 DST#3 M.GROSS #1-1 CROSS BAR PETL./L.D.

DATE: 10/24/96

TIME: 22:45:53

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
4.00	582.4	493.8	118.05	12.2500	0.339
5.00	691.3	602.8	118.09	10.0000	0.478
6.00	771.5	683.0	118.12	8.5000	0.595
7.00	832.9	744.4	118.15	7.4286	0.694
8.00	881.3	792.8	118.17	6.6250	0.777
9.00	925.7	837.2	118.19	6.0000	0.857
10.00	943.8	855.2	118.21	5.5000	0.891
11.00	961.3	872.8	118.24	5.0909	0.924
12.00	974.2	885.7	118.25	4.7500	0.949
13.00	985.3	896.8	118.27	4.4615	0.971
14.00	995.3	906.8	118.29	4.2143	0.991
15.00	1003.4	914.9	118.31	4.0000	1.007
16.00	1010.8	922.3	118.32	3.8125	1.022
17.00	1018.5	929.9	118.33	3.6471	1.037
18.00	1023.9	935.4	118.33	3.5000	1.048
19.00	1026.5	938.0	118.34	3.3684	1.054
20.00	1030.7	942.2	118.35	3.2500	1.062
21.00	1033.9	945.4	118.34	3.1429	1.069
22.00	1036.3	947.8	118.34	3.0455	1.074
23.00	1039.4	950.8	118.33	2.9565	1.080
24.00	1041.9	953.3	118.34	2.8750	1.085
25.00	1044.4	955.9	118.33	2.8000	1.091
26.00	1045.7	957.2	118.33	2.7308	1.094
27.00	1047.9	959.4	118.32	2.6667	1.098
28.00	1050.0	961.5	118.31	2.6071	1.103
29.00	1050.7	962.1	118.30	2.5517	1.104
30.00	1051.8	963.2	118.28	2.5000	1.106
31.00	1052.8	964.2	118.28	2.4516	1.108
32.00	1068.7	980.2	118.28	2.4062	1.142
33.00	1057.4	968.9	118.26	2.3636	1.118
34.00	1056.1	967.5	118.26	2.3235	1.115
35.00	1057.1	968.5	118.25	2.2857	1.117
36.00	1058.1	969.5	118.24	2.2500	1.120
37.00	1058.4	969.9	118.23	2.2162	1.120
38.00	1059.5	971.0	118.23	2.1842	1.123
39.00	1060.0	971.5	118.22	2.1538	1.124
40.00	1065.0	976.5	118.23	2.1250	1.134
41.00	1063.5	975.0	118.23	2.0976	1.131
42.00	1063.2	974.7	118.22	2.0714	1.130
43.00	1064.1	975.6	118.23	2.0465	1.132
44.00	1065.7	977.2	118.23	2.0227	1.136
45.00	1064.0	975.5	118.23	2.0000	1.132
46.00	1068.1	979.5	118.22	1.9783	1.141
47.00	1065.5	976.9	118.23	1.9574	1.135
48.00	1067.6	979.0	118.22	1.9375	1.140
49.00	1065.4	976.8	118.22	1.9184	1.135
50.00	1065.8	977.3	118.22	1.9000	1.136
51.00	1066.5	978.0	118.21	1.8824	1.138
52.00	1066.0	977.5	118.21	1.8654	1.136
53.00	1066.4	977.8	118.21	1.8491	1.137
54.00	1067.7	979.2	118.20	1.8333	1.140

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9461 DST#3 M.GROSS #1-1 CROSS BAR PETL./L.D.

DATE: 10/24/96 TIME: 22:45:53

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	55.00	1067.6	979.0	118.20	1.8182	1.140
	56.00	1067.6	979.1	118.19	1.8036	1.140
	57.00	1067.9	979.4	118.18	1.7895	1.140
	58.00	1067.9	979.4	118.18	1.7759	1.140
	59.00	1068.1	979.6	118.17	1.7627	1.141
***** End Shut-in 1	60.00	1068.1	979.6	118.17	1.7500	1.141
***** Start Flow 2	0.00	93.6	0.0	118.16		
	1.00	94.6	1.0	118.11		
	2.00	93.2	-0.3	118.06		
	3.00	94.6	1.0	118.02		
	4.00	99.9	6.4	118.01		
	5.00	97.3	3.7	118.03		
	6.00	98.1	4.5	118.07		
	7.00	99.5	6.0	118.13		
	8.00	102.0	8.4	118.20		
	9.00	106.2	12.7	118.28		
	10.00	103.8	10.2	118.36		
	11.00	106.7	13.1	118.45		
	12.00	109.0	15.4	118.54		
	13.00	109.9	16.3	118.64		
	14.00	109.6	16.0	118.73		
	15.00	111.1	17.5	118.81		
	16.00	112.1	18.5	118.89		
	17.00	112.4	18.8	118.98		
	18.00	114.1	20.6	119.06		
	19.00	116.1	22.5	119.14		
	20.00	115.7	22.2	119.22		
	21.00	117.2	23.6	119.28		
	22.00	118.0	24.4	119.35		
	23.00	118.9	25.3	119.43		
	24.00	119.7	26.1	119.50		
	25.00	120.7	27.1	119.56		
	26.00	121.9	28.4	119.62		
	27.00	123.1	29.5	119.68		
	28.00	123.6	30.0	119.74		
	29.00	125.0	31.5	119.80		
	30.00	125.7	32.1	119.85		
	31.00	126.1	32.5	119.90		
	32.00	126.9	33.3	119.95		
	33.00	129.4	35.8	120.00		
	34.00	130.4	36.8	120.04		
	35.00	132.6	39.0	120.09		
	36.00	131.8	38.3	120.13		
	37.00	132.8	39.3	120.17		
	38.00	133.0	39.4	120.20		
	39.00	136.5	43.0	120.23		
	40.00	136.5	43.0	120.25		
	41.00	136.4	42.8	120.27		
	42.00	138.7	45.2	120.29		
	43.00	140.5	46.9	120.32		
***** End Flow 2	44.00	138.9	45.3	120.35		



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9461 DST#3 M.GROSS #1-1 CROSS BAR PETL./L.D.

DATE: 10/24/96

TIME: 22:45:53

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Start Shutin 2	0.00	138.9	0.0	120.35	0.0000	0.019
	1.00	162.1	23.2	120.39	90.0000	0.026
	2.00	279.1	140.2	120.43	45.5000	0.078
	3.00	445.7	306.8	120.48	30.6667	0.199
	4.00	588.7	449.9	120.52	23.2500	0.347
	5.00	695.6	556.7	120.59	18.8000	0.484
	6.00	780.6	641.7	120.68	15.8333	0.609
	7.00	836.3	697.4	120.68	13.7143	0.699
	8.00	892.5	753.6	120.68	12.1250	0.797
	9.00	912.5	773.6	120.68	10.8889	0.833
	10.00	935.2	796.3	120.69	9.9000	0.875
	11.00	954.1	815.2	120.69	9.0909	0.910
	12.00	966.4	827.5	120.73	8.4167	0.934
	13.00	978.9	840.0	120.78	7.8462	0.958
	14.00	988.6	849.7	120.81	7.3571	0.977
	15.00	1001.3	862.4	120.81	6.9333	1.003
	16.00	1005.4	866.5	120.83	6.5625	1.011
	17.00	1012.1	873.2	120.84	6.2353	1.024
	18.00	1017.6	878.7	120.86	5.9444	1.036
	19.00	1020.8	881.9	120.85	5.6842	1.042
	20.00	1025.3	886.4	120.83	5.4500	1.051
	21.00	1028.8	889.9	120.86	5.2381	1.058
	22.00	1032.0	893.1	120.86	5.0455	1.065
	23.00	1034.0	895.1	120.86	4.8696	1.069
	24.00	1035.6	896.7	120.85	4.7083	1.072
	25.00	1038.0	899.1	120.85	4.5600	1.077
	26.00	1041.2	902.3	120.84	4.4231	1.084
	27.00	1043.0	904.1	120.83	4.2963	1.088
	28.00	1044.7	905.8	120.83	4.1786	1.091
	29.00	1045.8	906.9	120.82	4.0690	1.094
	30.00	1048.0	909.1	120.81	3.9667	1.098
	31.00	1051.9	913.0	120.80	3.8710	1.106
	32.00	1049.9	911.0	120.78	3.7812	1.102
	33.00	1052.6	913.7	120.77	3.6970	1.108
	34.00	1051.5	912.6	120.76	3.6176	1.106
	35.00	1053.2	914.3	120.72	3.5429	1.109
	36.00	1054.0	915.1	120.73	3.4722	1.111
	37.00	1055.2	916.3	120.69	3.4054	1.113
	38.00	1056.1	917.2	120.69	3.3421	1.115
	39.00	1056.7	917.8	120.69	3.2821	1.117
	40.00	1057.0	918.1	120.68	3.2250	1.117
	41.00	1058.7	919.8	120.68	3.1707	1.121
	42.00	1058.9	920.0	120.68	3.1190	1.121
	43.00	1059.3	920.4	120.68	3.0698	1.122
	44.00	1059.7	920.9	120.68	3.0227	1.123
	45.00	1060.6	921.7	120.68	2.9778	1.125
	46.00	1060.8	921.9	120.68	2.9348	1.125
	47.00	1061.2	922.3	120.68	2.8936	1.126
	48.00	1061.3	922.4	120.68	2.8542	1.126
	49.00	1062.8	923.9	120.68	2.8163	1.129
	50.00	1064.1	925.2	120.68	2.7800	1.132

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9461 DST#3 M.GROSS #1-1 CROSS BAR PETL./L.D.

DATE: 10/24/96 TIME: 22:45:53

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	51.00	1063.6	924.7	120.68	2.7451	1.131
	52.00	1065.6	926.7	120.67	2.7115	1.136
	53.00	1065.0	926.1	120.68	2.6792	1.134
	54.00	1064.4	925.5	120.67	2.6481	1.133
	55.00	1064.7	925.8	120.68	2.6182	1.134
	56.00	1064.2	925.3	120.67	2.5893	1.133
	57.00	1064.3	925.4	120.67	2.5614	1.133
	58.00	1067.1	928.2	120.68	2.5345	1.139
	59.00	1065.4	926.5	120.65	2.5085	1.135
	60.00	1065.8	926.9	120.64	2.4833	1.136
***** End Shut-in 2	61.00	1065.9	927.0	120.63	2.4590	1.136
***** Final Hydro.	310.00	1828.8	0.0	120.40		

# TEST HISTORY

9461 DST#3 M.GROSS #1-1 CROSS BAR PETL./L.D.

Flag Points

t(Min.) P(PSig)

A:	0.00	1843.97
B:	0.00	55.80
C:	45.00	88.54
D:	60.00	1068.14
E:	0.00	93.57
F:	44.00	138.89
G:	61.00	1065.87
Q:	0.00	1828.78

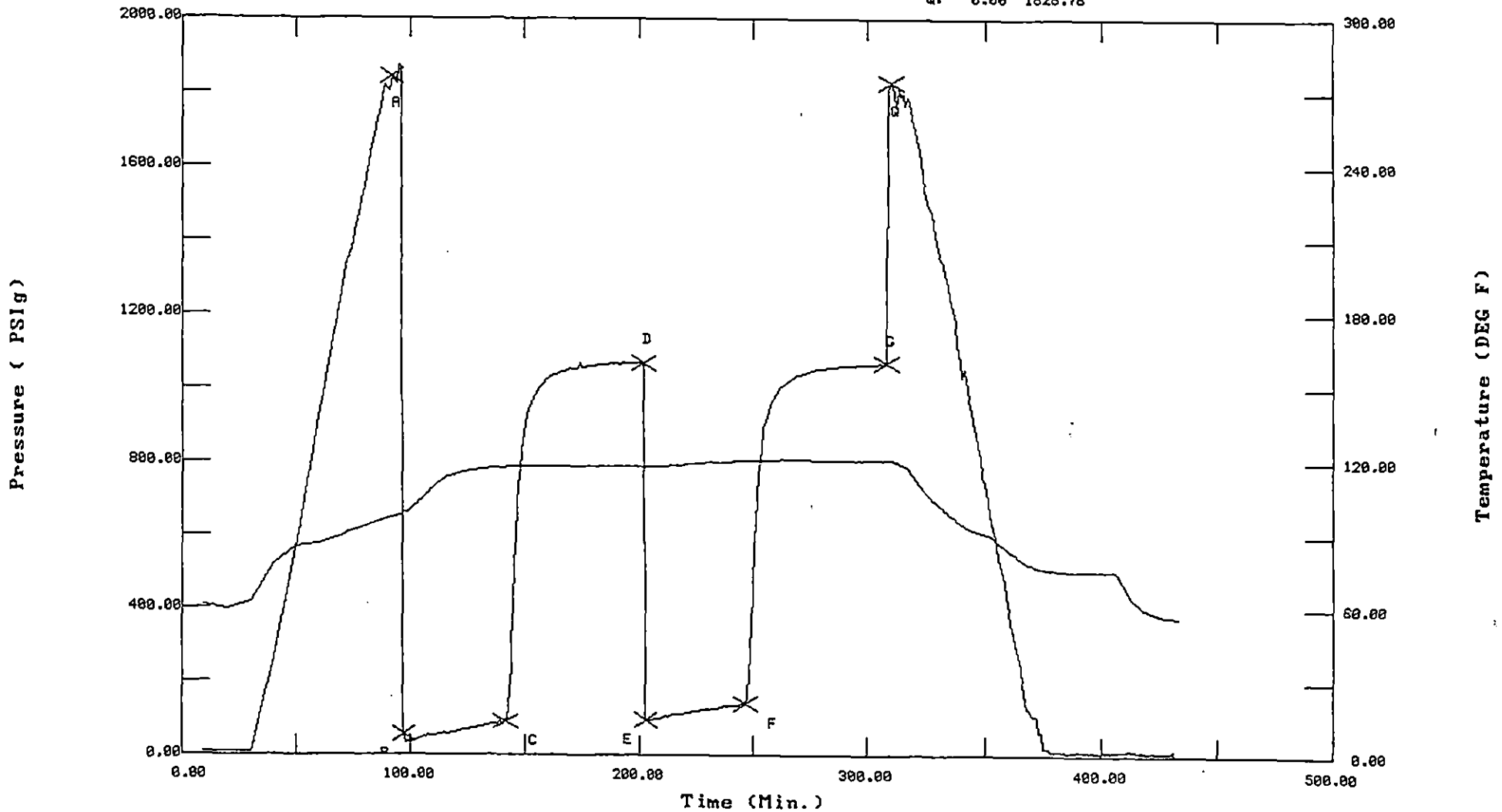
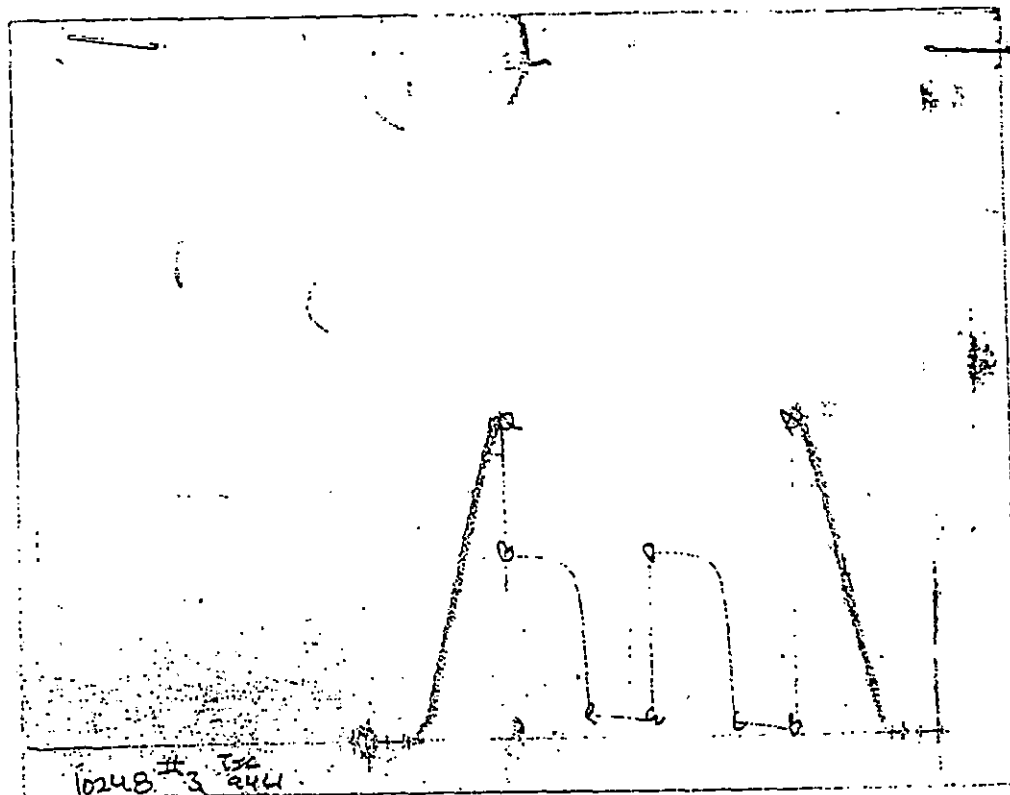


CHART PAGE



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