

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

Operator: License # 31898

Name: CONLEY P. SMITH OPERATING CO.

Address 1125 17th St  
Suite 2360

City/State/Zip DENVER, CO. 80202

Purchaser: N/A

Operator Contact Person: ROBERT P. VERNON

Phone ( 303 ) 296-1434

Contractor: Name: ABERCROMBIE RTD, INC **RELEASED**

License # 30684

**APR 09 1999**

Wellsite Geologist: \_\_\_\_\_

Designate Type of Completion **FROM CONFIDENTIAL**  
 New Well  Re-Entry  Workover

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

If Workover: KCC

Operator: \_\_\_\_\_

Well Name: FEB 17

Comp. Date \_\_\_\_\_ Old Total Depth **CONFIDENTIAL**

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBT  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

01-11-97 01-28-97 01-30-97  
Spud Date Date Reached TD Completion Date

API NO. 15- 033-20,923-00-00

**ORIGINAL**

County COMANCHE

70'W- S/2 - SW - SE Sec. 17 Twp. 32S Rge. 18 XX

330 Feet from S (circle one) Line of Section

2050 Feet from EW (circle one) Line of Section

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

Lease Name WILLBANKS Well # 17-15

Field Name \_\_\_\_\_

Producing Formation None

Elevation: Ground 2144' KB 2149'

Total Depth 6,000' PBT 6,000'

Amount of Surface Pipe Set and Cemented at 607 Feet

Multiple Stage Cementing Collar Used?  Yes  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 276  
(Data must be collected from the Reserve Pit)

Chloride content 16,000 ppm Fluid volume 2,300 bbls

Dewatering method used Haul off (340 bbls)

Location of fluid disposal if hauled offsite: 02-19-1999

Operator Name Bowers Drilling Co.

Lease Name Cole SWD License No. 5435

Quarter 25 Sec. 25 Twp. 32 S Rng. 12 E/W

County Barber Docket No. 19886

**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.

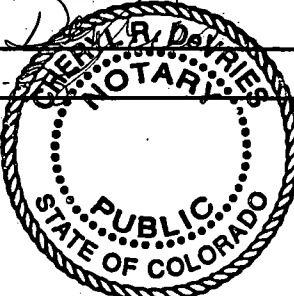
Signature Robert P. Vernon

Title Operations Manager Date 2-17-97

Subscribed and sworn to before me this 17<sup>th</sup> day of February, 1997.

Notary Public Cheryl R. D.

Date Commission Expires 4-22-97



K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
<input type="checkbox"/>		<input type="checkbox"/> NGPA
<input type="checkbox"/>		<input type="checkbox"/> Other
(Specify)		

Operator Name CONLEY P. SMITH OPERATING CO.

Lease Name WILLBANKS

Well # 17-15

Sec. 17 Twp. 32S Rge. 18

East

County COMANCHE

West

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  Yes  No  
(Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
(Submit Copy.)

List All E.Logs Run:  
/ Induction, Neutron/Density, Microlog  
and Sonic/GR/Caliper

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Heebner	4334'	-2189
Lansing	4556	-2411
Miss.	5200	-3055
Viola	5736	-3591

CASING RECORD

New  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"	25#	607.0'	Allied Lite	200	3% CC with 1/4# floeal/sk
					Class A	100	3%cc. 2% gel

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	676-960	Class A	150	3% CaCl
<input type="checkbox"/> Plug Back TD				
<input checked="" type="checkbox"/> Plug Off Zone	676-300	Class A	50	6% CaCl

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. D&A Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

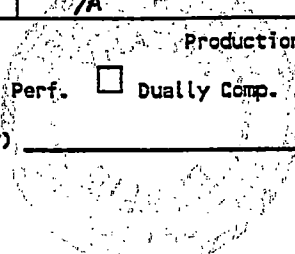
Estimated Production Per 24 Hours Oil N/A Bbls. Gas N/A Mcf Water N/A Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: METHOD OF COMPLETION

Vented  Sold  Used on Lease  
(If vented, submit ACO-18.)

Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify) \_\_\_\_\_

Production Interval



# ALLIED CEMENTING CO., INC.

4799

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

**ORIGINAL**

SERVICE POINT:

*At Bend*

1-29-97 1-30-97

DATE <b>1-30-97</b>	SEC. <b>17</b>	TWP. <b>32</b>	RANGE <b>18</b>	CALLED OUT <b>2:30 PM</b>	ON LOCATION <b>12:00 AM</b>	JOB START <b>4:00 AM</b>	JOB FINISH <b>6:00 AM</b>
LEASE <b>Willbanks</b> WELL # <b>17-15</b>				LOCATION <b>(2) 2E, 25, W/S</b>		COUNTY <b>Cornwall</b>	STATE <b>Ks</b>

OLD OR NEW (Circle one)

**CONFIDENTIAL**

CONTRACTOR <b>Abercrombie # 5</b>	OWNER <b>Same</b>	CEMENT
TYPE OF JOB <b>Rotary Plug</b>		
HOLE SIZE <b>7 7/8"</b>	I.D. <b>6000'</b>	
CASING SIZE	DEPTH	AMOUNT ORDERED <b>125 @ 60/40 6000'</b>
TUBING SIZE	DEPTH	
DRILL PIPE <b>4 1/2"</b>	DEPTH <b>1110'</b>	
TOOL	DEPTH	
PRES. MAX	MINIMUM	COMMON <b>75 @ 6.10 457.50</b>
MEAS. LINE	SHOE JOINT	POZMIX <b>50 @ 3.25 157.50</b>
CEMENT LEFT IN CSG.		GEL <b>6 @ 9.50 57.00</b>
PERFS.		CHLORIDE

**EQUIPMENT**

FEB 17

PUMP TRUCK # <b>181</b>	CEMENTER <b>Tom D</b>	HELPER <b>Bob B</b>
BULK TRUCK # <b>311</b>	DRIVER <b>George B</b>	
BULK TRUCK #	DRIVER	

HANDLING <b>125</b>		
MILEAGE <b>104 x 125 x 95</b>		

RELEASED

APR 09 1999

TOTAL **1028.25**

**REMARKS:**

*Mixed - 40 @ 1110'  
50 @ 630'  
10 @ 40'  
15 @ in Rockhole  
10 @ in Moundhole*

FROM CONFIDENTIAL SERVICE

DEPTH OF JOB <b>1110'</b>	
PUMP TRUCK CHARGE <b>445.00</b>	
EXTRA FOOTAGE	
MILEAGE <b>45 @ 2.85 128.25</b>	

CHARGE TO: **Conley P. Smith**  
STREET **1125 17th St. Suite 2360**  
CITY **Denver** STATE **CO** ZIP **80202**

COMPANY NO.	APPROVED BY: <i>[Signature]</i>	REVIEWED BY:
CHARGE TO: <b>LOE</b>	IDC: <input checked="" type="checkbox"/>	TANG: <input checked="" type="checkbox"/>
DESCRIPTION: <b>At Cement Well</b>	GA: <input checked="" type="checkbox"/>	OTHER:
ORDERED BY: <i>[Signature]</i>	VENDOR NO.	TOTAL <b>528.25</b>
COLL	SUB	PROPERTY #
		AFE #
		FEATURE #
		AMOUNT
<b>FLOAT EQUIPMENT</b>		

TOTAL

TAX <b>0</b>	
TOTAL CHARGE <b>\$1601.50</b>	
DISCOUNT <b>\$240.22</b>	IF PAID IN 30 DAY

**\$ (1361.28 net 30 days)  
(Paid Ent.)**

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

SIGNATURE

*[Signature]*

# ALLIED CEMENTING CO., INC. - 4793

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

CONFIDENTIAL

ORIGINAL

SERVICE POINT: Mid Bend

DATE <u>1-13-97</u>	SEC <u>17</u>	TWP. <u>32</u>	RANGE <u>18</u>	CALLED OUT <u>4:30 PM</u>	ON LOCATION <u>8:00 PM</u>	JOB START <u>9:30 PM</u>	JOB FINISH <u>8:30 AM</u>
LEASE <u>Willbanks</u>		WELL # <u>17-15</u>	LOCATION <u>Coldwater 1/2 - 2E, 2S, 1/2</u>		COUNTY <u>Comanche</u>	STATE <u>Ka</u>	

OLD OR NEW (Circle one)

CONTRACTOR Abercrombie #5

TYPE OF JOB Loss Circulation

HOLE SIZE \_\_\_\_\_ TD. 1001

CASING SIZE 8 3/8 DEPTH \_\_\_\_\_

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

DRILL PIPE 4 1/2" DEPTH 930 960'

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

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

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

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

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

OWNER Same

CEMENT

AMOUNT ORDERED 250 lbs Common  
8 lbs Calcium  
(used 200 lbs cement)

COMMON	@	_____
POZMIX	@	_____
GEL	@	_____
CHLORIDE	@	_____
<u>FEB 17</u>	@	_____
<u>CONFIDENTIAL</u>	@	_____
HANDLING	@	_____
MILEAGE	@	_____

RECEIVED  
KANSAS CORP COMM  
1997 FEB 19 P 2:42

EQUIPMENT

PUMP TRUCK CEMENTER Tom D

# 238 HELPER Bob B

BULK TRUCK

# 199 DRIVER Bill W.

BULK TRUCK

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

RELEASED \_\_\_\_\_ TOTAL \_\_\_\_\_

APR 09 1999 SERVICE \_\_\_\_\_

REMARKS:

Lost circulation at approx. 608 to 700  
Run 960' of Drill pipe Spotted 150 lbs  
com 30cc, Waited 4 hrs. Run Drill pipe  
& Tagged cement at 696'. Spotted  
50 lbs com 120cc, Waited 4 hrs. Run  
Drill pipe & Tagged cement at 604'.

FROM CONFIDENTIAL

DEPTH OF JOB 960'

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE @ \_\_\_\_\_

PLUG @ \_\_\_\_\_

CHARGE TO: Abercrombie, RTD

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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 \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE W. C. [Signature]

# ALLIED CEMENTING CO., INC.

6402

CONFIDENTIAL ORIGINAL

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

SERVICE POINT:

MEDICINE LODGE

1-11-97

DATE <u>1-12-97</u>	SEC. <u>17</u>	TWP. <u>32</u>	RANGE <u>13W</u>	CALLED OUT <u>9:30PM</u>	ON LOCATION <u>12:00PM</u>	JOB START <u>7:45AM</u>	JOB FINISH <u>3:15AM</u>
WILLBANKS LEASE	WELL# <u>17-12</u>	LOCATION <u>BOLDWATER 2E, 1, 1/4W</u>			COUNTY <u>COMANCHE</u>	STATE <u>KANSAS</u>	

OLD OR NEW (Circle one)

CONTRACTOR APPROPRIATE #5

TYPE OF JOB WELFARE

HOLE SIZE 12 1/4" T.D. 603'

CASING SIZE 3 1/8" 24# DEPTH 607'

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

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

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

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

MEAS. LINE \_\_\_\_\_ SHOE JOINT 42.64'

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

PERFS. \_\_\_\_\_ NO

OWNER Concey P. Smith

CEMENT

AMOUNT ORDERED  
250x 65:35:6 + 3% COC + 1/4" FLO SEAL  
100x CLASS A + 3% COC + 2% COC

COMMON A	100	@	6.10
POZMIX		@	2.15
GEL	2	@	9.50
CHLORIDE		@	23.00
FLO SEAL		@	1.75
ALLW	200	@	0.75
		@	0.20
		@	2.15
HANDLING	350	@	1.25
MILEAGE	350 x 40	@	.04

RECEIVED  
KANSAS CORP COMM

EQUIPMENT FEB 17

PUMP TRUCK CEMENTER KEVIN FRANKLOTT

# 233-302 HELPER JUSTIN HART

BULK TRUCK

# 256-21 DRIVER SHANE WINSOR

BULK TRUCK

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

RELEASED TOTAL #

APR 09 1999

REMARKS:

RUN 3 1/8" CEMENT WITH 250CY  
ALLW + 3% COC + 1/4" FLO SEAL  
100CY CLASS A + 3% COC + 2% COC

CEMENT LOW GRADUATE

FROM CONFIDENTIAL

SERVICE

DEPTH OF JOB	607'		
PUMP TRUCK CHARGE	0-300'		442.00
EXTRA FOOTAGE	307'	@	.41
MILEAGE	40	@	2.35
PLUG 3 1/8" TRP		@	90.00
		@	
		@	

TOTAL #

CHARGE TO: APPROPRIATE PRO, INC

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

FLOAT EQUIPMENT

1- PALLETS	@	125.00	125.00
1- PACKET	@	200.00	200.00
2- CENTRALIZERS	@	61.00	122.00
	@		
	@		

TOTAL #

TAX \_\_\_\_\_

TOTAL CHARGE # \_\_\_\_\_

DISCOUNT # \_\_\_\_\_ IF PAID IN 30 DAYS

N7 #

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

SIGNATURE X W. C. Cray

CONFIDENTIAL

ORIGINAL

WELL NAME: Willbanks # 17-15  
COMPANY: Conley P. Smith Operating  
LOCATION: Sec. 17 Twp. 32S Rge. 15W  
Commanche County Kansas  
DATE: 1/30/97

15-033-20923-00-00

RELEASED

APR 09 1999

FROM CONFIDENTIAL

FEB 17

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : Conley P. Smith Oper.

DATE 1/23/97

WELL NAME: Willbanks #17-15

KB 2150.00 ft

TICKET NO: 9680

DST #1

LOCATION : 17-32s-18w Commanche KS

GR 2144.00 ft

FORMATION: Mississippi

INTERVAL : 5180.00 To 5229.00 ft

TD 5229.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10991	10991	2350			PF Fr. 0404 to 0419 hr
SI 60 Range(Psi )	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 0419 to 0519 hr
SF 60 Clock(hrs)	12hr.	12hr.	Elec			SF Fr. 0519 to 0619 hr
FS 120 Depth(ft )	5226.0	5226.0	5190.0	0.0	0.0	FS Fr. 0619 to 0819 hr

	Field	1	2	3	4	
A. Init Hydro	2544.0	2652.0	2605.0	0.0	0.0	T STARTED 0157 hr
B. First Flow	53.0	71.0	81.0	0.0	0.0	T ON BOTM 0402 hr
B1. Final Flow	53.0	51.0	55.0	0.0	0.0	T OPEN 0404 hr
C. In Shut-in	767.0	792.0	823.0	0.0	0.0	T PULLED 0819 hr
D. Init Flow	64.0	52.0	42.0	0.0	0.0	T OUT 1030 hr
E. Final Flow	75.0	48.0	68.0	0.0	0.0	
F. Fl Shut-in	756.0	731.0	759.0	0.0	0.0	
G. Final Hydro	2533.0	2558.0	2543.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----

Tool Wt.	2100.00 lbs
Wt Set On Packer	24000.00 lbs
Wt Pulled Loose	90000.00 lbs
Initial Str Wt	64000.00 lbs

RECOVERY

Tot Fluid	120.00 ft of 120.00 ft in DC and 0.00 ft in DP	Unseated Str Wt	67000.00 lbs
120.00	ft of Drilling mud	Bot Choke	0.75 in
0.00	ft of	Hole Size	7.88 in
0.00	ft of	D Col. ID	2.25 in
0.00	ft of	D. Pipe ID	3.80 in
0.00	ft of	D.C. Length	184.00 ft
0.00	ft of	D.P. Length	4979.00 ft
0.00	ft of		
0.00	ft of		

SALINITY 11000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Strong blow, bottom of bucket in 30sec gas to surface in 13 mins

Initial Shut In:

Bled down 5 mins, blow built back to bottom of bucket

Final Flow:

Strong blow, gas sample taken at 15 mins into open

Final Shut In:

Bled down for 15 mins, blow built to 6-8 inches in bucket.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	44.00 S/L
W.L.	10.00 in3
F.C.	0.32 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	121.00 F
Hole Condition	
% Porosity	8.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	

Tester DARREN AMERINE  
 Co. Rep. Pete Debenham  
 Contr. Abercrombie  
 Rig # 5  
 Unit #  
 Pump T.

RELEASED

APR 09 1999

FROM CONFIDENTIAL

Test Successful: Y

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

WELL NAME: Willbanks #17-15

LOCATION : sec.17 twp.32s rge.18w

TICKET No. 9680 D.S.T. No. 1 DATE 1/23/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 29'

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 18'

TOTAL TOOL ..... 47'

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY ..... 78'

D.C. ABOVE TOOLS.Stands2 Single Total 184'

D.P. ABOVE TOOLS.Stands55 Single Total 4979'

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5241'

TOTAL DEPTH ..... 5229

TOTAL DRILL PIPE ABOVE K.B. .... 12'

REMARKS:

Sampler Data

Gas-----3200 ml.

Mud-----800 ml.

Pressure 150 psi.

Capacity 4000 ml.

P.O. SUB	
C.O. SUB Top of tool @	5150'
S.I. TOOL	5156'
fluid sampler	5159'
HMV	5164'
JARS	5169'
SAFETY JOINT	5171'
PACKER Top	5175'
PACKER Bottom	5180'
DEPTH	
STUBB	
ANCHOR	
Alpine rec.@ 5190'	
6' perms.	5186'
T.C. DEPTH	
31'drill pipe to	5217'
ak-1 rec @ 5226'	
10'perms to	5227'
BULLNOSE 2'bullnose to	5229'
T.D.	



GAS RECOVERY

COMPANY: Conley P. Smith Oper. DATE: 1/23/97  
WELL NAME: Willbanks #17-15 KB Elev: 2150.00 ft TICKET #9680 DST #1  
WELL LOCATION: sec.17 twp.32s rge.18w GR Elev: 2144.00 ft FORMATION: Mississippi  
INTERVAL Fr.: 5180.00 To 5229.00 T.D.: 5229.00 ft TEST TYPE: CONV.

GAS RECOVERY MEASURED WITH merla gauge

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

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	0	21	64000.0
10	0.75	0	15	55200.0
15	0.75	0	12	49300.0

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

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
2	0.75	0	80	127000.0
5	0.75	0	30	77800.0
10	0.75	0	14	53300.0
15	0.75	0	8	40000.0
20	0.75	0	6	34700.0
25	0.75	0	4	28300.0
30	0.75	0	4	28000.0
35	0.75	0	4	28300.0
40	0.75	0	3	24500.0
45	0.75	0	3	24500.0
50	0.75	0	3	24500.0
55	0.75	0	3	24500.0
60	0.75	0	3	24500.0

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9680 Willbanks 17-15 DST#1 Conley P.Smith Oper.  
 DATE: 01/23/97 TIME: 01:58:25

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	129.00	2604.7	0.0	110.98		
***** Start Flow 1	0.00	81.1	0.0	111.12		
	1.00	82.7	1.6	111.41		
	2.00	70.8	-10.3	111.91		
	3.00	63.4	-17.8	112.49		
	4.00	56.2	-24.9	113.05		
	5.00	56.5	-24.7	113.53		
	6.00	56.0	-25.2	113.96		
	7.00	56.0	-25.2	114.34		
	8.00	55.6	-25.6	114.67		
	9.00	55.3	-25.8	114.96		
	10.00	55.5	-25.7	115.21		
	11.00	55.0	-26.1	115.43		
	12.00	54.7	-26.4	115.62		
	13.00	54.5	-26.7	115.79		
***** End Flow 1	14.00	55.0	-26.2	115.94		
***** Start Shutin 1	0.00	55.0	0.0	115.94	0.0000	0.003
	1.00	123.3	68.3	116.07	15.0000	0.015
	2.00	180.9	125.9	116.19	8.0000	0.033
	3.00	230.7	175.7	116.29	5.6667	0.053
	4.00	273.9	219.0	116.39	4.5000	0.075
	5.00	312.0	257.1	116.45	3.8000	0.097
	6.00	345.4	290.5	116.53	3.3333	0.119
	7.00	376.2	321.2	116.58	3.0000	0.141
	8.00	404.9	349.9	116.63	2.7500	0.164
	9.00	430.6	375.7	116.66	2.5556	0.185
	10.00	454.3	399.3	116.70	2.4000	0.206
	11.00	475.9	420.9	116.73	2.2727	0.226
	12.00	495.5	440.5	116.77	2.1667	0.246
	13.00	513.4	458.4	116.77	2.0769	0.264
	14.00	530.3	475.4	116.81	2.0000	0.281
	15.00	546.2	491.2	116.82	1.9333	0.298
	16.00	560.9	505.9	116.85	1.8750	0.315
	17.00	574.7	519.8	116.88	1.8235	0.330
	18.00	587.7	532.8	116.90	1.7778	0.345
	19.00	600.2	545.2	116.92	1.7368	0.360
	20.00	611.7	556.7	116.95	1.7000	0.374
	21.00	622.7	567.8	116.97	1.6667	0.388
	22.00	633.1	578.2	116.99	1.6364	0.401
	23.00	643.1	588.2	117.02	1.6087	0.414
	24.00	652.5	597.6	117.05	1.5833	0.426
	25.00	661.7	606.7	117.06	1.5600	0.438
	26.00	670.4	615.4	117.09	1.5385	0.449
	27.00	678.9	623.9	117.12	1.5185	0.461
	28.00	686.9	631.9	117.15	1.5000	0.472
	29.00	694.7	639.8	117.17	1.4828	0.483
	30.00	702.1	647.2	117.21	1.4667	0.493
	31.00	709.0	654.0	117.23	1.4516	0.503
	32.00	715.7	660.8	117.26	1.4375	0.512
	33.00	722.4	667.4	117.30	1.4242	0.522
	34.00	728.5	673.5	117.33	1.4118	0.531

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9680 Willbanks 17-15 DST#1 Conley P.Smith Oper.

DATE: 01/23/97

TIME: 01:58:25

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	35.00	734.6	679.6	117.35	1.4000	0.540
	36.00	740.5	685.5	117.38	1.3889	0.548
	37.00	746.0	691.1	117.39	1.3784	0.557
	38.00	751.5	696.5	117.42	1.3684	0.565
	39.00	757.0	702.1	117.45	1.3590	0.573
	40.00	762.3	707.3	117.48	1.3500	0.581
	41.00	767.3	712.4	117.50	1.3415	0.589
	42.00	772.0	717.1	117.52	1.3333	0.596
	43.00	776.4	721.4	117.54	1.3256	0.603
	44.00	780.5	725.6	117.57	1.3182	0.609
	45.00	784.9	729.9	117.59	1.3111	0.616
	46.00	789.2	734.2	117.61	1.3043	0.623
	47.00	793.2	738.2	117.64	1.2979	0.629
	48.00	797.1	742.2	117.67	1.2917	0.635
	49.00	801.2	746.2	117.69	1.2857	0.642
	50.00	805.0	750.1	117.69	1.2800	0.648
	51.00	807.9	752.9	117.73	1.2745	0.653
	52.00	810.4	755.4	117.75	1.2692	0.657
	53.00	813.1	758.1	117.76	1.2642	0.661
	54.00	815.7	760.7	117.79	1.2593	0.665
	55.00	818.4	763.4	117.82	1.2545	0.670
	56.00	820.7	765.8	117.84	1.2500	0.674
***** End Shut-in 1	57.00	823.2	768.2	117.85	1.2456	0.678
***** Start Flow 2	0.00	41.6	0.0	117.85		
	1.00	54.5	12.8	117.87		
	2.00	55.7	14.1	117.91		
	3.00	57.2	15.6	117.94		
	4.00	58.1	16.4	117.98		
	5.00	57.6	16.0	118.02		
	6.00	58.7	17.1	118.05		
	7.00	58.7	17.0	118.07		
	8.00	59.2	17.6	118.09		
	9.00	60.7	19.1	118.10		
	10.00	61.1	19.5	118.11		
	11.00	59.7	18.0	118.13		
	12.00	61.3	19.7	118.13		
	13.00	60.0	18.4	118.13		
	14.00	61.2	19.6	118.15		
	15.00	61.0	19.4	118.16		
	16.00	60.4	18.8	118.17		
	17.00	62.4	20.8	118.20		
	18.00	61.3	19.6	118.20		
	19.00	62.2	20.6	118.21		
	20.00	63.5	21.9	118.22		
	21.00	61.5	19.9	118.24		
	22.00	63.4	21.7	118.25		
	23.00	62.3	20.7	118.26		
	24.00	64.8	23.2	118.28		
	25.00	64.4	22.7	118.30		
	26.00	63.9	22.2	118.31		
	27.00	65.9	24.3	118.32		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9680 Willbanks 17-15 DST#1 Conley P.Smith Oper.

DATE: 01/23/97

TIME: 01:58:25

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
28.00	63.6	22.0	118.34			
29.00	63.3	21.7	118.35			
30.00	65.2	23.6	118.37			
31.00	67.2	25.6	118.38			
32.00	64.4	22.7	118.41			
33.00	65.6	24.0	118.42			
34.00	64.9	23.2	118.44			
35.00	66.0	24.3	118.45			
36.00	63.5	21.9	118.47			
37.00	68.1	26.4	118.49			
38.00	64.6	23.0	118.51			
39.00	66.4	24.8	118.52			
40.00	65.0	23.4	118.54			
41.00	64.9	23.2	118.55			
42.00	67.6	26.0	118.58			
43.00	64.2	22.6	118.60			
44.00	67.7	26.1	118.61			
45.00	65.9	24.3	118.63			
46.00	65.1	23.5	118.65			
47.00	68.1	26.5	118.67			
48.00	65.0	23.4	118.68			
49.00	66.5	24.8	118.70			
50.00	67.5	25.8	118.72			
51.00	64.1	22.5	118.74			
52.00	66.5	24.8	118.76			
53.00	65.5	23.8	118.78			
54.00	67.4	25.8	118.80			
55.00	69.0	27.4	118.82			
56.00	64.5	22.9	118.84			
57.00	69.9	28.3	118.85			
58.00	68.1	26.4	118.87			
59.00	68.4	26.8	118.89			
***** End Flow 2						
***** Start Shutin 2	0.00	68.4	0.0	118.89	0.0000	0.005
	1.00	94.2	25.8	118.90	74.0000	0.009
	2.00	117.7	49.3	118.93	37.5000	0.014
	3.00	139.7	71.3	118.95	25.3333	0.020
	4.00	160.5	92.1	118.99	19.2500	0.026
	5.00	180.0	111.6	119.01	15.6000	0.032
	6.00	198.6	130.2	119.04	13.1667	0.039
	7.00	215.7	147.3	119.07	11.4286	0.047
	8.00	232.1	163.7	119.10	10.1250	0.054
	9.00	247.9	179.5	119.12	9.1111	0.061
	10.00	262.7	194.3	119.15	8.3000	0.069
	11.00	276.9	208.5	119.17	7.6364	0.077
	12.00	290.2	221.8	119.21	7.0833	0.084
	13.00	303.0	234.6	119.23	6.6154	0.092
	14.00	315.3	246.9	119.26	6.2143	0.099
	15.00	327.0	258.6	119.29	5.8667	0.107
	16.00	338.1	269.7	119.31	5.5625	0.114
	17.00	348.6	280.2	119.33	5.2941	0.122
	18.00	359.0	290.6	119.35	5.0556	0.129

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9680 Willbanks 17-15 DST#1 Conley P.Smith Oper.

DATE: 01/23/97

TIME: 01:58:25

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
19.00	368.8	300.4	119.38	4.8421	0.136
20.00	378.1	309.7	119.40	4.6500	0.143
21.00	387.2	318.8	119.42	4.4762	0.150
22.00	395.8	327.4	119.44	4.3182	0.157
23.00	404.4	336.0	119.46	4.1739	0.164
24.00	412.4	344.0	119.49	4.0417	0.170
25.00	420.4	352.0	119.50	3.9200	0.177
26.00	427.9	359.5	119.53	3.8077	0.183
27.00	435.6	367.2	119.55	3.7037	0.190
28.00	442.7	374.3	119.57	3.6071	0.196
29.00	449.7	381.3	119.59	3.5172	0.202
30.00	456.6	388.2	119.61	3.4333	0.208
31.00	463.1	394.7	119.63	3.3548	0.214
32.00	469.6	401.2	119.64	3.2812	0.220
33.00	475.9	407.5	119.67	3.2121	0.226
34.00	482.1	413.7	119.69	3.1471	0.232
35.00	488.0	419.6	119.71	3.0857	0.238
36.00	493.7	425.3	119.72	3.0278	0.244
37.00	499.4	431.1	119.75	2.9730	0.249
38.00	505.1	436.7	119.77	2.9211	0.255
39.00	510.4	442.0	119.78	2.8718	0.261
40.00	515.9	447.5	119.80	2.8250	0.266
41.00	520.9	452.5	119.81	2.7805	0.271
42.00	526.1	457.7	119.83	2.7381	0.277
43.00	531.3	462.9	119.85	2.6977	0.282
44.00	536.5	468.1	119.87	2.6591	0.288
45.00	541.3	472.9	119.89	2.6222	0.293
46.00	546.2	477.8	119.91	2.5870	0.298
47.00	550.9	482.5	119.92	2.5532	0.303
48.00	555.5	487.1	119.93	2.5208	0.309
49.00	560.0	491.6	119.96	2.4898	0.314
50.00	564.5	496.1	119.97	2.4600	0.319
51.00	569.0	500.6	119.98	2.4314	0.324
52.00	573.4	505.0	120.01	2.4038	0.329
53.00	577.6	509.2	120.01	2.3774	0.334
54.00	581.8	513.4	120.04	2.3519	0.338
55.00	586.0	517.6	120.06	2.3273	0.343
56.00	590.3	521.9	120.08	2.3036	0.348
57.00	594.4	526.0	120.09	2.2807	0.353
58.00	598.4	530.0	120.12	2.2586	0.358
59.00	602.3	533.9	120.12	2.2373	0.363
60.00	606.0	537.6	120.14	2.2167	0.367
61.00	610.0	541.6	120.16	2.1967	0.372
62.00	613.7	545.3	120.18	2.1774	0.377
63.00	617.3	548.9	120.20	2.1587	0.381
64.00	621.0	552.6	120.21	2.1406	0.386
65.00	624.5	556.1	120.23	2.1231	0.390
66.00	627.9	559.5	120.24	2.1061	0.394
67.00	631.6	563.2	120.26	2.0896	0.399
68.00	635.0	566.6	120.28	2.0735	0.403
69.00	638.4	570.0	120.30	2.0580	0.408

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9680 Willbanks 17-15 DST#1 Conley P.Smith Oper.

DATE: 01/23/97

TIME: 01:58:25

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
70.00	641.9	573.5	120.31	2.0429	0.412
71.00	645.2	576.8	120.32	2.0282	0.416
72.00	648.5	580.1	120.35	2.0139	0.421
73.00	651.6	583.2	120.35	2.0000	0.425
74.00	654.7	586.3	120.37	1.9865	0.429
75.00	657.8	589.4	120.38	1.9733	0.433
76.00	660.9	592.5	120.40	1.9605	0.437
77.00	663.9	595.6	120.41	1.9481	0.441
78.00	666.9	598.5	120.44	1.9359	0.445
79.00	669.7	601.3	120.44	1.9241	0.448
80.00	672.7	604.3	120.46	1.9125	0.452
81.00	675.4	607.0	120.48	1.9012	0.456
82.00	678.3	609.9	120.50	1.8902	0.460
83.00	680.9	612.5	120.52	1.8795	0.464
84.00	683.7	615.3	120.52	1.8690	0.467
85.00	686.3	617.9	120.54	1.8588	0.471
86.00	689.0	620.6	120.55	1.8488	0.475
87.00	691.4	623.0	120.58	1.8391	0.478
88.00	693.8	625.4	120.59	1.8295	0.481
89.00	696.1	627.7	120.60	1.8202	0.485
90.00	698.6	630.2	120.63	1.8111	0.488
91.00	700.9	632.5	120.63	1.8022	0.491
92.00	703.2	634.8	120.65	1.7935	0.495
93.00	705.6	637.2	120.67	1.7849	0.498
94.00	707.9	639.5	120.69	1.7766	0.501
95.00	710.1	641.7	120.70	1.7684	0.504
96.00	712.1	643.7	120.71	1.7604	0.507
97.00	714.4	646.0	120.73	1.7526	0.510
98.00	716.6	648.2	120.74	1.7449	0.513
99.00	718.7	650.4	120.76	1.7374	0.517
100.00	720.9	652.5	120.76	1.7300	0.520
101.00	723.2	654.8	120.79	1.7228	0.523
102.00	725.2	656.8	120.80	1.7157	0.526
103.00	727.4	659.0	120.82	1.7087	0.529
104.00	729.4	661.0	120.83	1.7019	0.532
105.00	731.4	663.0	120.84	1.6952	0.535
106.00	733.4	665.0	120.85	1.6887	0.538
107.00	735.4	667.0	120.88	1.6822	0.541
108.00	737.2	668.8	120.89	1.6759	0.543
109.00	739.1	670.8	120.90	1.6697	0.546
110.00	741.0	672.6	120.91	1.6636	0.549
111.00	742.8	674.4	120.93	1.6577	0.552
112.00	744.6	676.2	120.95	1.6518	0.554
113.00	746.5	678.1	120.95	1.6460	0.557
114.00	748.3	679.9	120.98	1.6404	0.560
115.00	750.1	681.7	120.99	1.6348	0.563
116.00	751.8	683.4	121.02	1.6293	0.565
117.00	753.7	685.3	121.01	1.6239	0.568
118.00	755.3	686.9	121.02	1.6186	0.570
119.00	757.2	688.8	121.04	1.6134	0.573
120.00	759.0	690.6	121.04	1.6083	0.576

\*\*\*\*\* End Shut-in 2

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9680 Willbanks 17-15 DST#1 Conley P.Smith Oper.

DATE: 01/23/97 TIME: 01:58:25

	Time	Pressure	delta P	Temp.	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
		PSig	PSig	DEG F		
***** Final Hydro.	385.00	2543.2	0.0	121.45		

# TEST HISTORY

#9680 Willbanks 17-15 DST#1 Conley P.Smith Oper.

## Flag Points

t(Min.) P(PSIg)

A:	0.00	2604.69
B:	0.00	81.15
C:	14.00	54.96
D:	57.00	823.16
E:	0.00	41.62
F:	59.00	68.39
G:	120.00	758.95
Q:	0.00	2543.17

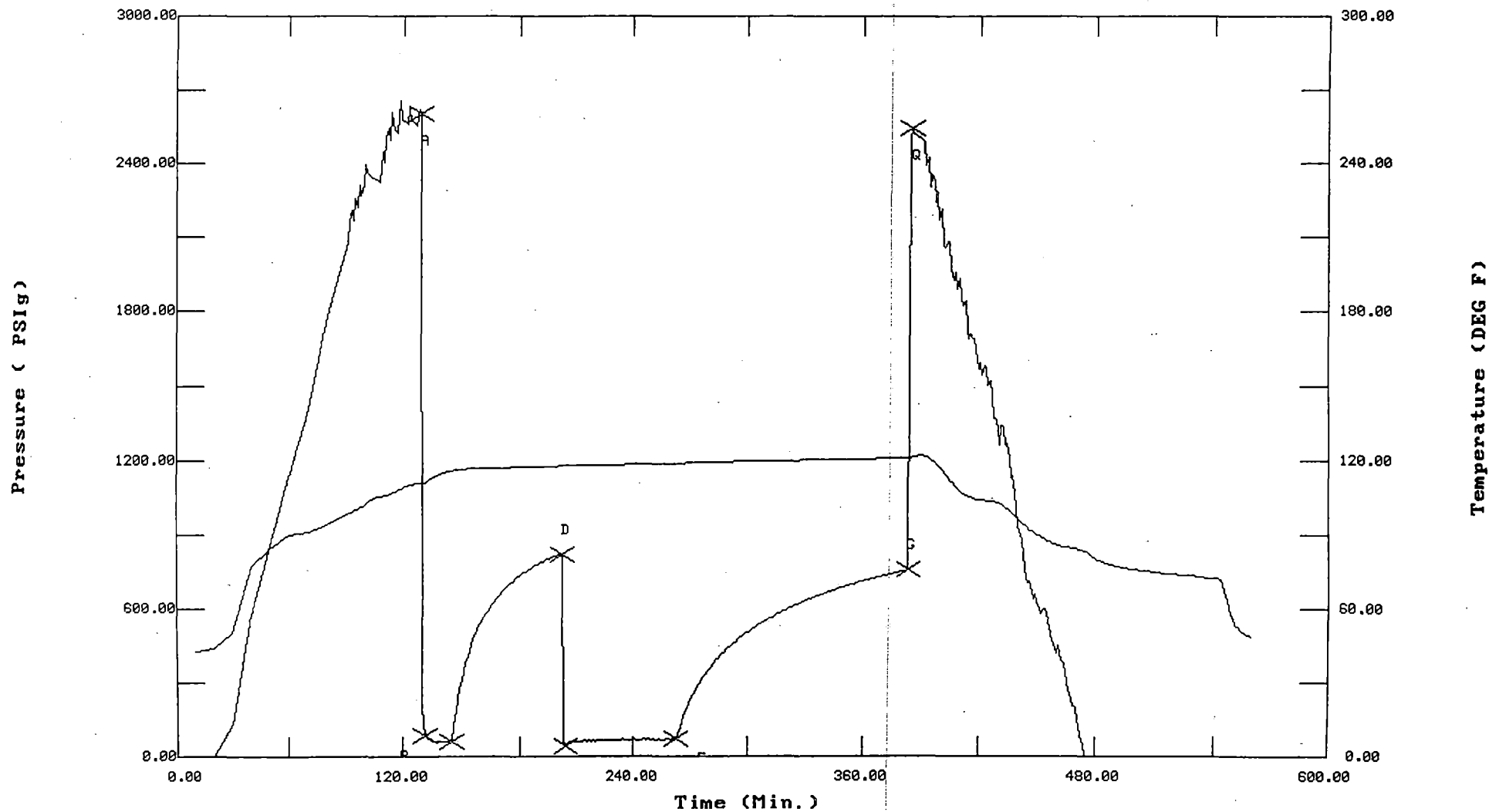
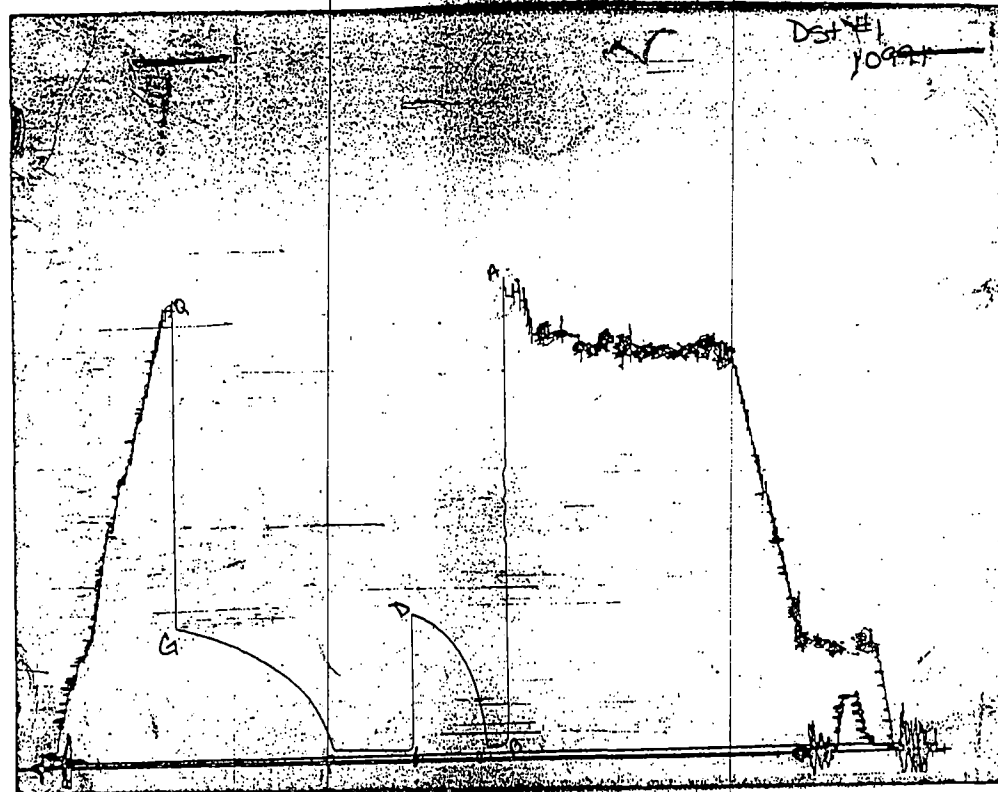




CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Conley P. Smith  
 WELL NAME: Willbanks #17-15  
 LOCATION : 17-32s-18w Commanche KS  
 INTERVAL : 5229.00 To 5291.00 ft

DATE 1/24/97  
 KB 2150.00 ft TICKET NO: 9681 DST #2  
 GR 2144.00 ft FORMATION: WARSAW  
 TD 5291.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13849	13849	2350			PF Fr. 0418 to 0448 hr
SI 60 Range(Psi )	4375.0	4375.0	4995.0	0.0	0.0	IS Fr. 0448 to 0548 hr
SF 60 Clock(hrs)	12hr.	12hr.	Elec.			SF Fr. 0548 to 0648 hr
FS 120 Depth(ft )	5288.0	5288.0	5238.0	0.0	0.0	FS Fr. 0648 to 0848 hr

	Field	1	2	3	4	
A. Init Hydro	2652.0	2645.0	2629.0	0.0	0.0	T STARTED 0149 hr
B. First Flow	200.0	227.0	57.0	0.0	0.0	T ON BOTM 0416 hr
B1. Final Flow	211.0	183.0	108.0	0.0	0.0	T OPEN 0418 hr
C. In Shut-in	1239.0	1231.0	1256.0	0.0	0.0	T PULLED 0848 hr
D. Init Flow	256.0	249.0	89.0	0.0	0.0	T OUT 1045 hr
E. Final Flow	189.0	191.0	140.0	0.0	0.0	
F. Fl Shut-in	1250.0	1246.0	1256.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2511.0	2421.0	2552.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 24000.00 lbs
						Wt Pulled Loose 90000.00 lbs
						Initial Str Wt 66000.00 lbs
						Unseated Str Wt 67000.00 lbs

RECOVERY

Tot Fluid 250.00 ft of 180.00 ft in DC and 70.00 ft in DP  
 70.00 ft of Water Cut Gassy Mud with trace Oil  
 0.00 ft of 4% Gas 2% Oil 14% Water 80% Mud  
 90.00 ft of Water Cut Gassy Mud with Trace Oil  
 0.00 ft of 16% Gas 4% Oil 40% Water 40% Mud  
 90.00 ft of Water Cut Gassy Mud with trace Oil  
 0.00 ft of 18% Gas 2%Oil 46%Water 34%Mud  
 0.00 ft of  
 0.00 ft of Bottom recovery Rw .02 @ 49  
 SALINITY 68000.00 P.P.M. A.P.I. Gravity 0.00

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	184.00 ft
D.P. Length	5037.00 ft

BLOW DESCRIPTION

Initial Flow:  
 Strong blow, bottom of bucket 3.5 mins

Initial Shut In:  
 Bled down for 15 mins, no blow back

Final Flow:  
 Strong blow, bottom of bucket 4.5 mins

Final Shut In:  
 Bled down for 15 Mins, No blow back

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/
Vis.	51.00 S/L
W.L.	9.60 in3
F.C.	0.32 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	

SAMPLES:  
 SENT TO:

Tester DARREN AMERINE  
 Co. Rep. Pete Debenham  
 Contr. Abercrombie  
 Rig # 5  
 Unit #  
 Pump T.

Test Successful: Y

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

WELL NAME: Willbanks #17-15

LOCATION : sec.17 twp.32s rge.18w

TICKET No. 9681 D.S.T. No. 2 DATE 1/24/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 29'

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 31'

TOTAL TOOL ..... 60'

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY ..... 91'

~~D.C. ABOVE TOOLS.Stands 2 Single Total 184'~~

D.P. ABOVE TOOLS.Stands 55 Single 2 Total 5042'

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5317'

TOTAL DEPTH ..... 5291'

TOTAL DRILL PIPE ABOVE K.B. .... 26'

REMARKS:

Sampler Data

Gas-----1400ml

Oil-----650ml

Water-----1250ml

Mud-----700ml

Pressure-----450 psi.

Rw. .02 @ 49 68,000 ppm chlorides

Capacity 4000ml

P.O. SUB	
C.O. SUB Top of tool @	5200'
S.I. TOOL	5205'
fluid sampler	5208'
HMV 5'	5213'
JARS 5'	5218'
SAFETY JOINT 2'	5220'
PACKER Top	5224'
PACKER Bottom	5229'
DEPTH	
STUBB	
ANCHOR	
Alpine rec.@	5238'
6' perfs.	5244'
T.C.	
DEPTH	
31'drill pipe to	5275'
AK-1 rec @	5288'
14'perfs to	5289'
BULLNOSE 2'bullnose to	5291'
T.D.	

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9681 Willbanks #17-15 DST#2 Conley P.Smith  
 DATE: 01/24/97 TIME: 01:50:37  
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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	150.00	2629.2	0.0	106.83		
***** Start Flow 1	0.00	57.7	0.0	106.86		
	1.00	61.7	3.9	107.21		
	2.00	65.7	8.0	107.82		
	3.00	67.8	10.1	108.53		
	4.00	70.9	13.2	109.19		
	5.00	73.7	15.9	109.76		
	6.00	76.3	18.5	110.21		
	7.00	78.8	21.1	110.56		
	8.00	81.1	23.3	110.82		
	9.00	84.0	26.3	111.01		
	10.00	84.6	26.9	111.18		
	11.00	80.9	23.2	111.32		
	12.00	84.8	27.1	111.46		
	13.00	87.9	30.1	111.58		
	14.00	95.8	38.1	111.68		
	15.00	93.3	35.6	111.77		
	16.00	91.6	33.9	111.84		
	17.00	96.2	38.4	111.90		
	18.00	97.7	39.9	111.94		
	19.00	100.1	42.4	111.98		
	20.00	99.9	42.2	112.01		
	21.00	100.2	42.5	112.02		
	22.00	104.1	46.4	112.03		
	23.00	106.2	48.4	112.05		
	24.00	105.9	48.2	112.06		
	25.00	107.4	49.7	112.08		
***** End Flow 1	26.00	108.3	50.5	112.09		
***** Start Shutin 1	0.00	108.3	0.0	112.09	0.0000	0.012
	1.00	114.1	5.9	112.11	27.0000	0.013
	2.00	133.2	24.9	112.13	14.0000	0.018
	3.00	170.3	62.0	112.14	9.6667	0.029
	4.00	221.6	113.4	112.18	7.5000	0.049
	5.00	270.7	162.5	112.22	6.2000	0.073
	6.00	319.3	211.0	112.27	5.3333	0.102
	7.00	366.8	258.6	112.32	4.7143	0.135
	8.00	425.7	317.4	112.38	4.2500	0.181
	9.00	485.6	377.3	112.44	3.8889	0.236
	10.00	536.3	428.0	112.50	3.6000	0.288
	11.00	598.7	490.5	112.55	3.3636	0.358
	12.00	660.2	551.9	112.60	3.1667	0.436
	13.00	705.1	596.8	112.66	3.0000	0.497
	14.00	745.1	636.8	112.71	2.8571	0.555
	15.00	781.4	673.2	112.74	2.7333	0.611
	16.00	815.0	706.8	112.80	2.6250	0.664
	17.00	846.0	737.7	112.83	2.5294	0.716
	18.00	874.0	765.8	112.88	2.4444	0.764
	19.00	900.0	791.8	112.93	2.3684	0.810
	20.00	924.4	816.1	112.97	2.3000	0.854
	21.00	939.2	831.0	113.02	2.2381	0.882
	22.00	959.7	851.4	113.06	2.1818	0.921

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9681 Willbanks #17-15 DST#2 Conley P.Smith

DATE: 01/24/97

TIME: 01:50:37

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	23.00	978.9	870.7	113.12	2.1304	0.958
	24.00	997.1	888.8	113.15	2.0833	0.994
	25.00	1013.6	905.3	113.22	2.0400	1.027
	26.00	1028.8	920.5	113.25	2.0000	1.058
	27.00	1043.5	935.2	113.30	1.9630	1.089
	28.00	1058.2	950.0	113.34	1.9286	1.120
	29.00	1071.5	963.2	113.40	1.8966	1.148
	30.00	1084.1	975.8	113.45	1.8667	1.175
	31.00	1095.7	987.4	113.51	1.8387	1.200
	32.00	1106.4	998.2	113.56	1.8125	1.224
	33.00	1116.5	1008.2	113.60	1.7879	1.247
	34.00	1125.9	1017.6	113.65	1.7647	1.268
	35.00	1134.8	1026.5	113.71	1.7429	1.288
	36.00	1143.2	1034.9	113.75	1.7222	1.307
	37.00	1151.0	1042.7	113.80	1.7027	1.325
	38.00	1158.5	1050.3	113.85	1.6842	1.342
	39.00	1165.4	1057.2	113.90	1.6667	1.358
	40.00	1172.1	1063.9	113.94	1.6500	1.374
	41.00	1178.6	1070.3	113.99	1.6341	1.389
	42.00	1184.5	1076.3	114.04	1.6190	1.403
	43.00	1190.3	1082.1	114.09	1.6047	1.417
	44.00	1195.5	1087.3	114.16	1.5909	1.429
	45.00	1200.7	1092.4	114.18	1.5778	1.442
	46.00	1205.6	1097.4	114.22	1.5652	1.454
	47.00	1210.3	1102.1	114.26	1.5532	1.465
	48.00	1214.7	1106.4	114.30	1.5417	1.475
	49.00	1219.0	1110.8	114.34	1.5306	1.486
	50.00	1223.2	1114.9	114.38	1.5200	1.496
	51.00	1227.1	1118.8	114.46	1.5098	1.506
	52.00	1230.9	1122.6	114.54	1.5000	1.515
	53.00	1234.5	1126.2	114.61	1.4906	1.524
	54.00	1237.8	1129.6	114.73	1.4815	1.532
	55.00	1241.2	1132.9	114.85	1.4727	1.541
	56.00	1244.3	1136.0	114.92	1.4643	1.548
	57.00	1247.3	1139.1	115.04	1.4561	1.556
	58.00	1250.3	1142.1	115.13	1.4483	1.563
	59.00	1253.1	1144.9	115.20	1.4407	1.570
***** End Shut-in 1	60.00	1255.9	1147.6	115.27	1.4333	1.577
***** Start Flow 2	0.00	89.6	0.0	115.32		
	1.00	93.7	4.1	115.37		
	2.00	99.7	10.1	115.44		
	3.00	104.4	14.8	115.54		
	4.00	109.9	20.2	115.63		
	5.00	114.9	25.3	115.73		
	6.00	113.5	23.9	115.81		
	7.00	116.7	27.0	115.87		
	8.00	119.0	29.4	115.93		
	9.00	120.3	30.6	115.97		
	10.00	120.3	30.6	116.00		
	11.00	120.7	31.1	116.04		
	12.00	121.4	31.8	116.06		

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9681 Willbanks #17-15 DST#2 Conley P.Smith  
 DATE: 01/24/97 TIME: 01:50:37  
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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
13.00	122.1	32.5	116.07		
14.00	122.5	32.9	116.09		
15.00	122.2	32.6	116.09		
16.00	121.8	32.1	116.11		
17.00	121.3	31.6	116.13		
18.00	122.4	32.8	116.14		
19.00	121.9	32.2	116.14		
20.00	123.5	33.9	116.17		
21.00	124.0	34.3	116.18		
22.00	122.4	32.7	116.19		
23.00	123.7	34.1	116.21		
24.00	123.4	33.7	116.23		
25.00	125.1	35.5	116.24		
26.00	125.8	36.2	116.25		
27.00	126.3	36.7	116.27		
28.00	126.4	36.8	116.29		
29.00	125.8	36.2	116.30		
30.00	125.3	35.7	116.32		
31.00	126.4	36.8	116.34		
32.00	125.9	36.3	116.36		
33.00	127.0	37.3	116.38		
34.00	128.3	38.7	116.41		
35.00	128.9	39.3	116.42		
36.00	129.5	39.9	116.45		
37.00	129.9	40.3	116.48		
38.00	130.0	40.4	116.50		
39.00	131.0	41.4	116.53		
40.00	131.3	41.7	116.55		
41.00	131.7	42.0	116.57		
42.00	132.3	42.7	116.61		
43.00	133.0	43.4	116.63		
44.00	133.6	44.0	116.65		
45.00	134.1	44.5	116.69		
46.00	135.1	45.5	116.72		
47.00	134.8	45.2	116.74		
48.00	135.2	45.6	116.77		
49.00	135.5	45.9	116.81		
50.00	135.1	45.5	116.84		
51.00	136.3	46.7	116.87		
52.00	135.5	45.9	116.90		
53.00	135.8	46.2	116.93		
54.00	136.4	46.7	116.96		
55.00	137.3	47.7	116.99		
56.00	138.3	48.7	117.02		
57.00	139.1	49.5	117.05		
58.00	139.4	49.8	117.08		
59.00	140.2	50.5	117.11		
***** End Flow 2					
***** Start Shutin 2	0.00	140.2	0.0	117.11	0.0000 0.020
	1.00	165.7	25.5	117.14	86.0000 0.027
	2.00	191.6	51.4	117.18	43.5000 0.037
	3.00	218.4	78.2	117.22	29.3333 0.048

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9681 Willbanks #17-15 DST#2 Conley P.Smith

DATE: 01/24/97

TIME: 01:50:37

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
4.00	286.1	146.0	117.26	22.2500	0.082
5.00	330.0	189.8	117.31	18.0000	0.109
6.00	354.3	214.2	117.36	15.1667	0.126
7.00	383.1	243.0	117.40	13.1429	0.147
8.00	414.4	274.3	117.46	11.6250	0.172
9.00	451.2	311.0	117.51	10.4444	0.204
10.00	482.3	342.2	117.56	9.5000	0.233
11.00	513.4	373.2	117.61	8.7273	0.264
12.00	548.1	408.0	117.67	8.0833	0.300
13.00	592.7	452.5	117.71	7.5385	0.351
14.00	619.4	479.2	117.77	7.0714	0.384
15.00	649.9	509.8	117.81	6.6667	0.422
16.00	682.7	542.6	117.86	6.3125	0.466
17.00	710.3	570.1	117.90	6.0000	0.504
18.00	733.9	593.8	117.95	5.7222	0.539
19.00	755.8	615.7	118.01	5.4737	0.571
20.00	778.2	638.0	118.04	5.2500	0.606
21.00	799.3	659.2	118.09	5.0476	0.639
22.00	819.1	679.0	118.11	4.8636	0.671
23.00	837.7	697.5	118.17	4.6957	0.702
24.00	855.0	714.8	118.19	4.5417	0.731
25.00	871.6	731.4	118.24	4.4000	0.760
26.00	886.9	746.8	118.27	4.2692	0.787
27.00	901.5	761.4	118.30	4.1481	0.813
28.00	915.3	775.2	118.34	4.0357	0.838
29.00	928.1	787.9	118.38	3.9310	0.861
30.00	940.1	799.9	118.41	3.8333	0.884
31.00	951.6	811.5	118.45	3.7419	0.906
32.00	964.7	824.6	118.46	3.6562	0.931
33.00	977.0	836.8	118.51	3.5758	0.955
34.00	988.5	848.3	118.54	3.5000	0.977
35.00	999.3	859.2	118.57	3.4286	0.999
36.00	1009.6	869.4	118.61	3.3611	1.019
37.00	1019.5	879.3	118.63	3.2973	1.039
38.00	1028.6	888.5	118.67	3.2368	1.058
39.00	1037.5	897.4	118.69	3.1795	1.076
40.00	1045.9	905.7	118.72	3.1250	1.094
41.00	1054.0	913.8	118.75	3.0732	1.111
42.00	1061.8	921.6	118.78	3.0238	1.127
43.00	1069.1	928.9	118.81	2.9767	1.143
44.00	1075.9	935.8	118.85	2.9318	1.158
45.00	1082.7	942.6	118.87	2.8889	1.172
46.00	1089.1	949.0	118.90	2.8478	1.186
47.00	1095.2	955.1	118.94	2.8085	1.200
48.00	1101.4	961.2	118.96	2.7708	1.213
49.00	1107.0	966.8	118.99	2.7347	1.225
50.00	1112.5	972.3	119.01	2.7000	1.238
51.00	1117.8	977.7	119.02	2.6667	1.250
52.00	1122.8	982.6	119.05	2.6346	1.261
53.00	1127.8	987.7	119.08	2.6038	1.272
54.00	1132.5	992.4	119.08	2.5741	1.283

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9681 Willbanks #17-15 DST#2 Conley P.Smith

DATE: 01/24/97

TIME: 01:50:37

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
55.00	1137.0	996.8	119.12	2.5455	1.293
56.00	1141.4	1001.3	119.14	2.5179	1.303
57.00	1145.5	1005.4	119.15	2.4912	1.312
58.00	1149.6	1009.5	119.18	2.4655	1.322
59.00	1153.5	1013.3	119.18	2.4407	1.331
60.00	1157.4	1017.2	119.19	2.4167	1.339
61.00	1161.0	1020.9	119.22	2.3934	1.348
62.00	1164.5	1024.3	119.24	2.3710	1.356
63.00	1167.9	1027.8	119.25	2.3492	1.364
64.00	1171.3	1031.1	119.27	2.3281	1.372
65.00	1174.6	1034.4	119.27	2.3077	1.380
66.00	1177.6	1037.4	119.29	2.2879	1.387
67.00	1180.6	1040.5	119.31	2.2687	1.394
68.00	1183.6	1043.5	119.32	2.2500	1.401
69.00	1186.5	1046.3	119.33	2.2319	1.408
70.00	1189.2	1049.1	119.35	2.2143	1.414
71.00	1191.9	1051.8	119.37	2.1972	1.421
72.00	1194.5	1054.3	119.38	2.1806	1.427
73.00	1197.0	1056.8	119.39	2.1644	1.433
74.00	1199.4	1059.3	119.40	2.1486	1.439
75.00	1201.8	1061.6	119.43	2.1333	1.444
76.00	1204.0	1063.9	119.44	2.1184	1.450
77.00	1206.4	1066.2	119.45	2.1039	1.455
78.00	1208.6	1068.5	119.47	2.0897	1.461
79.00	1210.7	1070.6	119.47	2.0759	1.466
80.00	1212.7	1072.6	119.49	2.0625	1.471
81.00	1214.8	1074.7	119.51	2.0494	1.476
82.00	1216.8	1076.6	119.52	2.0366	1.481
83.00	1218.8	1078.6	119.54	2.0241	1.485
84.00	1220.6	1080.4	119.56	2.0119	1.490
85.00	1222.4	1082.2	119.57	2.0000	1.494
86.00	1224.2	1084.0	119.57	1.9884	1.499
87.00	1225.9	1085.8	119.57	1.9770	1.503
88.00	1227.5	1087.4	119.59	1.9659	1.507
89.00	1229.3	1089.1	119.61	1.9551	1.511
90.00	1230.8	1090.6	119.63	1.9444	1.515
91.00	1232.5	1092.3	119.63	1.9341	1.519
92.00	1234.2	1094.0	119.65	1.9239	1.523
93.00	1235.5	1095.3	119.66	1.9140	1.526
94.00	1237.1	1096.9	119.65	1.9043	1.530
95.00	1238.5	1098.4	119.66	1.8947	1.534
96.00	1239.9	1099.8	119.66	1.8854	1.537
97.00	1241.4	1101.2	119.67	1.8763	1.541
98.00	1242.7	1102.6	119.68	1.8673	1.544
99.00	1244.1	1103.9	119.70	1.8586	1.548
100.00	1245.3	1105.2	119.72	1.8500	1.551
101.00	1246.6	1106.4	119.72	1.8416	1.554
102.00	1247.8	1107.7	119.73	1.8333	1.557
103.00	1249.1	1108.9	119.74	1.8252	1.560
104.00	1250.2	1110.0	119.75	1.8173	1.563
105.00	1251.4	1111.3	119.76	1.8095	1.566



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9681 Willbanks #17-15 DST#2 Conley P.Smith

DATE: 01/24/97 TIME: 01:50:37

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	106.00	1252.5	1112.4	119.80	1.8019	1.569
	107.00	1253.5	1113.4	119.80	1.7944	1.571
	108.00	1254.7	1114.6	119.80	1.7870	1.574
	109.00	1255.7	1115.6	119.82	1.7798	1.577
	110.00	1256.7	1116.6	119.83	1.7727	1.579
	111.00	1257.7	1117.6	119.83	1.7658	1.582
	112.00	1258.7	1118.5	119.85	1.7589	1.584
	113.00	1259.6	1119.4	119.86	1.7522	1.587
	114.00	1260.6	1120.4	119.88	1.7456	1.589
	115.00	1261.6	1121.4	119.89	1.7391	1.592
	116.00	1262.3	1122.2	119.91	1.7328	1.594
	117.00	1263.4	1123.2	119.91	1.7265	1.596
	118.00	1264.2	1124.0	119.93	1.7203	1.598
	119.00	1265.1	1125.0	119.93	1.7143	1.601
	120.00	1266.0	1125.8	119.95	1.7083	1.603
***** End Shut-in 2	121.00	1255.8	1115.7	119.95	1.7025	1.577
***** Final Hydro.	421.00	2551.6	0.0	120.02		

# TEST HISTORY

#9681 Willbanks #17-15 DST#2 Conley P. Smith

## Flag Points

t(Min.) P(PSig)

A:	0.00	2629.20
B:	0.00	57.73
C:	26.00	108.26
D:	60.00	1255.89
E:	0.00	89.63
F:	59.00	140.15
G:	121.00	1255.80
Q:	0.00	2551.85

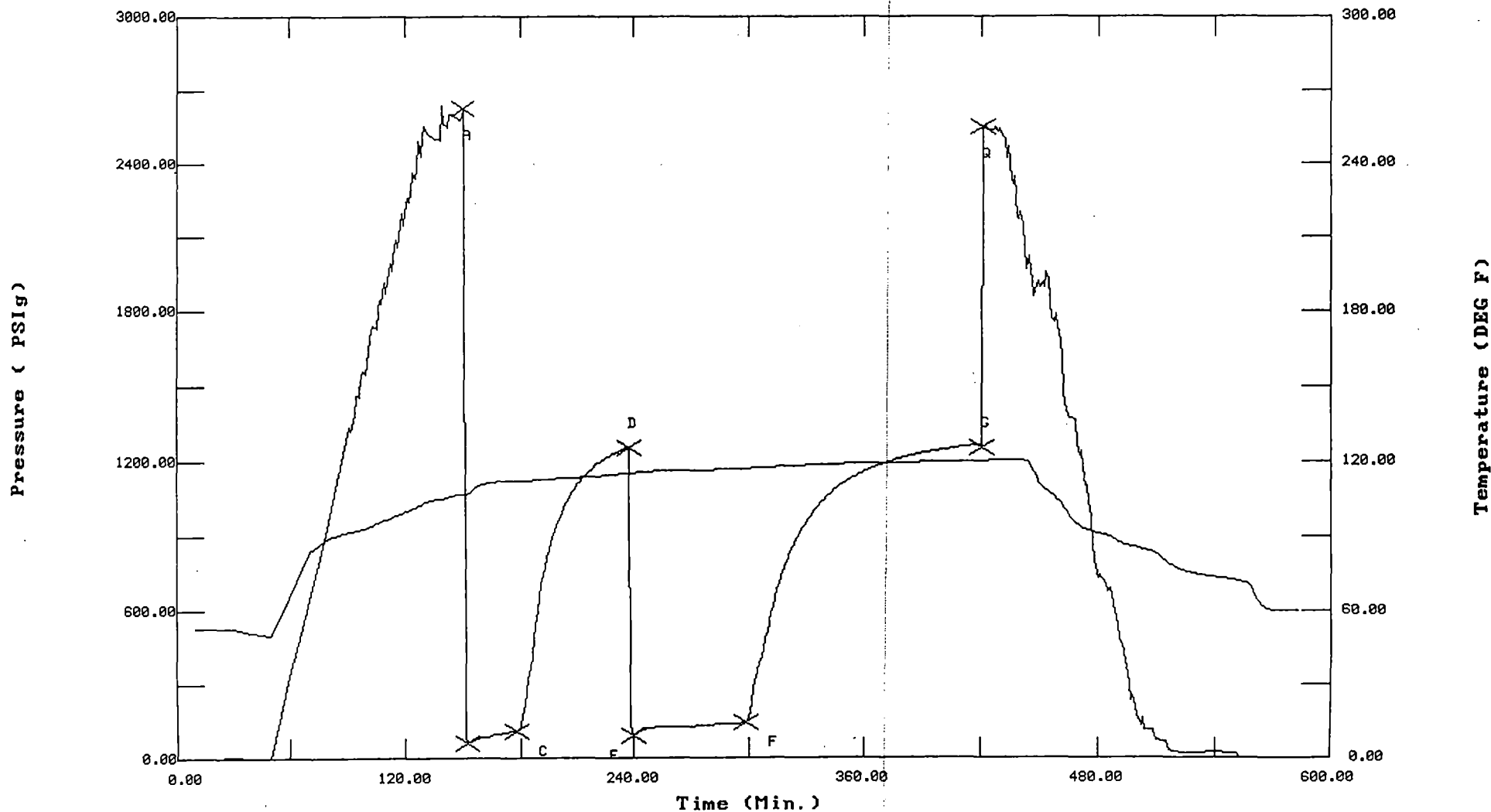
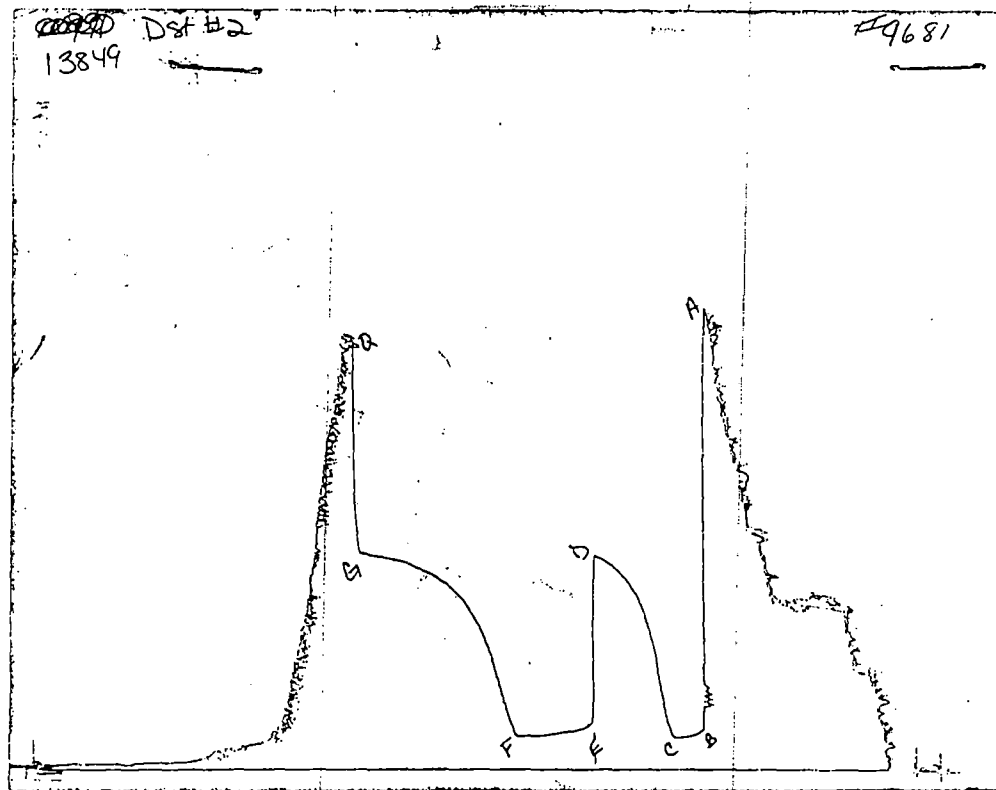


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Conley P. Smith Oper.Co.  
 WELL NAME: Willbanks #17-15  
 LOCATION : 17-32s-18w Commanche KS  
 INTERVAL : 5734.00 To 5758.00 ft

DATE 01-27-97

KB 2149.00 ft TICKET NO: 9484 DST #3  
 GR 2144.00 ft FORMATION: Viola  
 TD 5758.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	13788	13788	3024			PF Fr. 0614 to 0629 hr
SI 60 Range(Psi )	4650.0	4650.0	4995.0	0.0	0.0	IS Fr. 0629 to 0729 hr
SF 60 Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 0729 to 0829 hr
FS 120 Depth(ft )	5755.0	5755.0	5740.0	0.0	0.0	FS Fr. 0829 to 1029 hr

	Field	1	2	3	4	
A. Init Hydro	2846.0	2892.0	2861.0	0.0	0.0	T STARTED 0338 hr
B. First Flow	88.0	66.0	70.0	0.0	0.0	T ON BOTM 0611 hr
B1. Final Flow	180.0	141.0	185.0	0.0	0.0	T OPEN 0614 hr
C. In Shut-in	1972.0	1942.0	1990.0	0.0	0.0	T PULLED 1029 hr
D. Init Flow	186.0	194.0	206.0	0.0	0.0	T OUT 1400 hr
E. Final Flow	419.0	449.0	442.0	0.0	0.0	
F. Fl Shut-in	1978.0	1992.0	1990.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2811.0	2886.0	2855.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 70000.00 lbs

RECOVERY

Tot Fluid 790.00 ft of	183.00 ft in DC and	607.00 ft in DP	Unseated Str Wt	72000.00 lbs
140.00 ft of GAS IN PIPE			Bot Choke	0.75 in
130.00 ft of Slight Oil Gas Cut Mud 1%Oil 5%Gas 94%Mud			Hole Size	7.88 in
185.00 ft of Muddy Water with Oil SPECS. 22%Mud 78%Water			D Col. ID	2.25 in
475.00 ft of Salt Water			D. Pipe ID	3.80 in
0.00 ft of			D.C. Length	183.00 ft
0.00 ft of			D.P. Length	5542.00 ft
0.00 ft of				
0.00 ft of EST. FT. OF PAY-----	12			
SALINITY 32000.00 P.P.M.	A.P.I. Gravity	0.00		

BLOW DESCRIPTION

Initial Flow:  
 Fair to strong blow, bottom of bucket  
 in 8 mins

Initial Shut In:  
 Weak blow, built to 1/2"

Final Flow:  
 Fair to strong blow, bottom of bucket  
 in 7.5 mins

Final Shut In:  
 Weak blow, built to 1/4"

SAMPLES: none  
 SENT TO:Caraway / Liberal Ks

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb.
Vis.	51.00 S/
W.L.	11.20 in
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	139.00 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	
Tester	Gary Pevoteaux
Co. Rep.	Debenham/Wood
Contr.	Abercrombie
Rig #	5
Unit #	
Pump T.	

Test Successful: Y

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

WELL NAME: Willbanks #17-15  
 LOCATION : 17-32s-18w Commanche KS  
 TICKET No. 9484      D.S.T. No. 3      DATE 01-27-97  
 TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 29  
 INTERVAL TOOL .....  
 BOTTOM PACKERS AND ANCHOR ..... 24  
 TOTAL TOOL ..... 53  
 DRILL COLLAR ANCHOR IN INTERVAL .....  
 O.C. ANCHOR STND.Stands      Single      Total  
 O.P. ANCHOR STND.Stands      Single      Total  
 TOTAL ASSEMBLY ..... 53  
 O.C. ABOVE TOOLS.Stands2      Single      Total 183  
 O.P. ABOVE TOOLS.Stands59      Single 1      Total 5542  
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5778  
 TOTAL DEPTH ..... 5758  
 TOTAL DRILL PIPE ABOVE K.B. .... 20

REMARKS:  
FLUID SAMPLER DATA

GAS-----TRACE  
 OIL-----TRACE  
 MUD-----80 ML.  
 WATER-----3920 ML.  
 OTHER-----LCM  
 PRESSURE-----440 PSI  
 Rw-----.31 ohms @  
                   52 degrees F  
 CHLORIDES-----32,000      ppm

P.O. SUB	
C.O. SUB @ Top of Tool	5705
S.I. TOOL 6'	5711
Sampler	5714
HMV 5'	5719
JARS 4'	5723
SAFETY JOINT 2'	5725
PACKER Top 4'	5729
PACKER Bottom 5'	5734
DEPTH 5734	
STUBB 1'	5735
ANCHOR	
perfs	
Alpine Rec. @ 5740	
T.C. DEPTH	
18 ft. perfs to	5753
AK-1 rec. @ 5755	
BULLNOSE 5' perforated to	5758
T.D.	

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: 9484 DST#3 WILLBANKS #17-15 CONLEY P.SMITH OPER.  
 DATE: 01/27/97 TIME: 03:38:37  
 -----

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	151.00	2861.1	0.0	111.81		
***** Start Flow 1	0.00	69.9	0.0	112.82		
	1.00	94.2	24.3	113.06		
	2.00	116.0	46.2	113.67		
	3.00	121.9	52.1	114.65		
	4.00	130.2	60.3	115.77		
	5.00	140.2	70.4	116.90		
	6.00	144.6	74.7	118.09		
	7.00	149.9	80.1	119.36		
	8.00	156.8	86.9	120.73		
	9.00	162.6	92.8	122.18		
	10.00	166.8	96.9	123.65		
	11.00	171.5	101.7	124.99		
	12.00	176.1	106.3	126.25		
	13.00	180.8	111.0	127.35		
***** End Flow 1	14.00	185.2	115.4	128.33		
***** Start Shutin 1	0.00	185.2	0.0	128.33	0.0000	0.034
	1.00	1234.5	1049.2	129.21	15.0000	1.524
	2.00	1797.9	1612.7	129.85	8.0000	3.232
	3.00	1843.6	1658.4	130.32	5.6667	3.399
	4.00	1869.6	1684.4	130.69	4.5000	3.495
	5.00	1885.0	1699.8	131.02	3.8000	3.553
	6.00	1895.7	1710.4	131.27	3.3333	3.594
	7.00	1904.9	1719.7	131.44	3.0000	3.629
	8.00	1912.8	1727.6	131.57	2.7500	3.659
	9.00	1919.7	1734.4	131.65	2.5556	3.685
	10.00	1924.2	1738.9	131.72	2.4000	3.702
	11.00	1929.4	1744.2	131.75	2.2727	3.723
	12.00	1934.3	1749.1	131.77	2.1667	3.742
	13.00	1938.7	1753.4	131.78	2.0769	3.758
	14.00	1942.2	1757.0	131.81	2.0000	3.772
	15.00	1945.8	1760.6	131.85	1.9333	3.786
	16.00	1949.4	1764.2	131.86	1.8750	3.800
	17.00	1952.4	1767.2	131.87	1.8235	3.812
	18.00	1954.3	1769.1	131.86	1.7778	3.819
	19.00	1956.8	1771.6	131.84	1.7368	3.829
	20.00	1959.2	1774.0	131.81	1.7000	3.838
	21.00	1961.3	1776.0	131.78	1.6667	3.847
	22.00	1963.1	1777.9	131.75	1.6364	3.854
	23.00	1964.9	1779.7	131.72	1.6087	3.861
	24.00	1966.6	1781.3	131.68	1.5833	3.867
	25.00	1968.2	1782.9	131.65	1.5600	3.874
	26.00	1969.2	1783.9	131.60	1.5385	3.878
	27.00	1970.2	1785.0	131.55	1.5185	3.882
	28.00	1971.9	1786.7	131.49	1.5000	3.889
	29.00	1971.2	1786.0	131.45	1.4828	3.886
	30.00	1973.7	1788.5	131.41	1.4667	3.895
	31.00	1974.8	1789.6	131.34	1.4516	3.900
	32.00	1976.5	1791.3	131.28	1.4375	3.907
	33.00	1976.9	1791.7	131.22	1.4242	3.908
	34.00	1977.9	1792.6	131.15	1.4118	3.912

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9484 DST#3 WILLBANKS #17-15 CONLEY P.SMITH OPER.

DATE: 01/27/97 TIME: 03:38:37

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	35.00	1978.9	1793.7	131.10	1.4000	3.916
	36.00	1979.8	1794.5	131.04	1.3889	3.919
	37.00	1980.6	1795.4	130.97	1.3784	3.923
	38.00	1981.5	1796.2	130.94	1.3684	3.926
	39.00	1982.0	1796.8	130.89	1.3590	3.928
	40.00	1982.5	1797.3	130.84	1.3500	3.930
	41.00	1983.1	1797.9	130.80	1.3415	3.933
	42.00	1983.8	1798.6	130.76	1.3333	3.935
	43.00	1984.2	1799.0	130.71	1.3256	3.937
	44.00	1984.9	1799.6	130.68	1.3182	3.940
	45.00	1985.2	1800.0	130.63	1.3111	3.941
	46.00	1985.7	1800.4	130.59	1.3043	3.943
	47.00	1985.5	1800.3	130.56	1.2979	3.942
	48.00	1986.1	1800.9	130.52	1.2917	3.945
	49.00	1986.7	1801.5	130.49	1.2857	3.947
	50.00	1987.1	1801.9	130.45	1.2800	3.949
	51.00	1987.4	1802.2	130.42	1.2745	3.950
	52.00	1987.6	1802.4	130.40	1.2692	3.951
	53.00	1988.0	1802.8	130.36	1.2642	3.952
	54.00	1988.3	1803.1	130.34	1.2593	3.953
	55.00	1988.5	1803.3	130.31	1.2545	3.954
	56.00	1988.8	1803.6	130.28	1.2500	3.955
	57.00	1989.0	1803.8	130.26	1.2456	3.956
	58.00	1989.2	1804.0	130.24	1.2414	3.957
	59.00	1989.5	1804.3	130.22	1.2373	3.958
***** End Shut-in 1	60.00	1989.8	1804.6	130.20	1.2333	3.959
***** Start Flow 2	0.00	206.2	0.0	130.16		
	1.00	198.2	-8.0	130.13		
	2.00	203.3	-2.9	130.05		
	3.00	208.2	2.0	130.11		
	4.00	213.2	7.0	130.28		
	5.00	218.4	12.2	130.58		
	6.00	223.8	17.6	130.96		
	7.00	229.0	22.8	131.43		
	8.00	234.0	27.8	131.93		
	9.00	239.2	33.0	132.45		
	10.00	243.9	37.7	132.94		
	11.00	248.5	42.3	133.42		
	12.00	253.5	47.2	133.86		
	13.00	258.0	51.8	134.25		
	14.00	262.5	56.3	134.62		
	15.00	267.4	61.2	134.93		
	16.00	271.9	65.6	135.21		
	17.00	276.3	70.1	135.48		
	18.00	281.0	74.8	135.69		
	19.00	285.4	79.1	135.90		
	20.00	289.6	83.4	136.08		
	21.00	293.9	87.7	136.25		
	22.00	298.4	92.2	136.40		
	23.00	302.6	96.4	136.52		
	24.00	306.9	100.7	136.64		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9484 DST#3 WILLBANKS #17-15 CONLEY P.SMITH OPER.

DATE: 01/27/97 TIME: 03:38:37

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
25.00	311.3	105.1	136.75			
26.00	315.3	109.1	136.85			
27.00	319.3	113.1	136.96			
28.00	323.4	117.1	137.06			
29.00	327.6	121.4	137.16			
30.00	331.8	125.6	137.24			
31.00	335.7	129.5	137.32			
32.00	339.9	133.7	137.38			
33.00	344.1	137.9	137.46			
34.00	348.0	141.8	137.52			
35.00	351.9	145.7	137.57			
36.00	356.2	150.0	137.63			
37.00	360.0	153.8	137.68			
38.00	364.0	157.8	137.72			
39.00	367.8	161.6	137.78			
40.00	372.0	165.8	137.82			
41.00	375.8	169.6	137.88			
42.00	379.6	173.4	137.91			
43.00	383.4	177.1	137.96			
44.00	387.4	181.2	138.00			
45.00	391.0	184.8	138.04			
46.00	394.7	188.5	138.06			
47.00	398.4	192.2	138.09			
48.00	402.3	196.0	138.13			
49.00	406.0	199.8	138.17			
50.00	409.6	203.3	138.20			
51.00	413.4	207.2	138.23			
52.00	417.2	211.0	138.26			
53.00	420.7	214.5	138.28			
54.00	424.2	218.0	138.31			
55.00	427.9	221.7	138.33			
56.00	431.7	225.4	138.36			
57.00	435.1	228.9	138.38			
58.00	438.5	232.3	138.40			
59.00	441.8	235.6	138.42			
***** End Flow 2						
***** Start Shutin 2	0.00	441.8	0.0	138.42	0.0000	0.195
	1.00	1510.8	1069.0	138.43	74.0000	2.282
	2.00	1758.3	1316.5	138.49	37.5000	3.091
	3.00	1808.4	1366.6	138.58	25.3333	3.270
	4.00	1838.8	1397.0	138.66	19.2500	3.381
	5.00	1855.1	1413.3	138.75	15.6000	3.442
	6.00	1868.1	1426.3	138.83	13.1667	3.490
	7.00	1879.2	1437.4	138.90	11.4286	3.531
	8.00	1888.3	1446.5	138.94	10.1250	3.566
	9.00	1896.2	1454.4	138.98	9.1111	3.596
	10.00	1903.3	1461.5	138.98	8.3000	3.623
	11.00	1909.8	1468.0	138.98	7.6364	3.647
	12.00	1914.5	1472.7	138.97	7.0833	3.665
	13.00	1920.4	1478.6	138.93	6.6154	3.688
	14.00	1924.3	1482.5	138.89	6.2143	3.703
	15.00	1927.9	1486.1	138.85	5.8667	3.717



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9484 DST#3 WILLBANKS #17-15 CONLEY P.SMITH OPER.

DATE: 01/27/97 TIME: 03:38:37

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
16.00	1932.0	1490.2	138.80	5.5625	3.733
17.00	1935.5	1493.7	138.74	5.2941	3.746
18.00	1938.6	1496.8	138.66	5.0556	3.758
19.00	1940.7	1498.9	138.60	4.8421	3.766
20.00	1943.5	1501.7	138.53	4.6500	3.777
21.00	1946.1	1504.2	138.46	4.4762	3.787
22.00	1948.4	1506.6	138.39	4.3182	3.796
23.00	1950.7	1508.9	138.33	4.1739	3.805
24.00	1952.7	1510.9	138.25	4.0417	3.813
25.00	1954.6	1512.8	138.19	3.9200	3.821
26.00	1956.5	1514.7	138.12	3.8077	3.828
27.00	1958.1	1516.3	138.05	3.7037	3.834
28.00	1959.7	1517.9	137.98	3.6071	3.841
29.00	1961.2	1519.4	137.91	3.5172	3.846
30.00	1962.6	1520.8	137.86	3.4333	3.852
31.00	1963.9	1522.1	137.82	3.3548	3.857
32.00	1965.1	1523.3	137.71	3.2812	3.862
33.00	1966.8	1525.0	137.66	3.2121	3.868
34.00	1967.9	1526.1	137.59	3.1471	3.873
35.00	1969.0	1527.2	137.54	3.0857	3.877
36.00	1970.0	1528.2	137.48	3.0278	3.881
37.00	1970.9	1529.1	137.43	2.9730	3.884
38.00	1971.8	1530.0	137.36	2.9211	3.888
39.00	1972.6	1530.8	137.31	2.8718	3.891
40.00	1973.4	1531.6	137.25	2.8250	3.894
41.00	1974.1	1532.3	137.19	2.7805	3.897
42.00	1974.8	1533.0	137.14	2.7381	3.900
43.00	1975.5	1533.7	137.09	2.6977	3.903
44.00	1976.1	1534.3	137.03	2.6591	3.905
45.00	1976.7	1534.9	136.99	2.6222	3.907
46.00	1977.3	1535.5	136.95	2.5870	3.910
47.00	1977.8	1536.0	136.90	2.5532	3.912
48.00	1978.4	1536.5	136.85	2.5208	3.914
49.00	1978.8	1537.0	136.81	2.4898	3.916
50.00	1979.3	1537.5	136.77	2.4600	3.918
51.00	1979.7	1537.9	136.73	2.4314	3.919
52.00	1980.2	1538.4	136.68	2.4038	3.921
53.00	1980.6	1538.8	136.64	2.3774	3.923
54.00	1981.0	1539.2	136.59	2.3519	3.924
55.00	1981.3	1539.5	136.54	2.3273	3.926
56.00	1981.7	1539.9	136.51	2.3036	3.927
57.00	1982.1	1540.3	136.47	2.2807	3.929
58.00	1982.4	1540.6	136.43	2.2586	3.930
59.00	1982.7	1540.9	136.40	2.2373	3.931
60.00	1983.0	1541.2	136.36	2.2167	3.932
61.00	1983.3	1541.5	136.33	2.1967	3.933
62.00	1983.5	1541.7	136.28	2.1774	3.934
63.00	1983.8	1542.0	136.25	2.1587	3.935
64.00	1984.0	1542.2	136.22	2.1406	3.936
65.00	1984.3	1542.5	136.19	2.1231	3.937
66.00	1984.5	1542.7	136.16	2.1061	3.938

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9484 DST#3 WILLBANKS #17-15 CONLEY P.SMITH OPER.

DATE: 01/27/97

TIME: 03:38:37

Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
67.00	1984.7	1542.9	136.12	2.0896	3.939
68.00	1984.9	1543.1	136.09	2.0735	3.940
69.00	1985.1	1543.3	136.05	2.0580	3.941
70.00	1985.3	1543.5	136.02	2.0429	3.942
71.00	1985.5	1543.7	136.01	2.0282	3.942
72.00	1985.7	1543.9	135.96	2.0139	3.943
73.00	1985.9	1544.1	135.92	2.0000	3.944
74.00	1986.1	1544.3	135.89	1.9865	3.944
75.00	1986.2	1544.4	135.86	1.9733	3.945
76.00	1986.4	1544.6	135.83	1.9605	3.946
77.00	1986.5	1544.7	135.79	1.9481	3.946
78.00	1986.7	1544.9	135.76	1.9359	3.947
79.00	1986.8	1545.0	135.73	1.9241	3.947
80.00	1987.0	1545.2	135.70	1.9125	3.948
81.00	1987.1	1545.3	135.67	1.9012	3.949
82.00	1987.3	1545.5	135.65	1.8902	3.949
83.00	1987.4	1545.6	135.61	1.8795	3.950
84.00	1987.5	1545.7	135.59	1.8690	3.950
85.00	1987.6	1545.8	135.57	1.8588	3.951
86.00	1987.8	1546.0	135.55	1.8488	3.951
87.00	1987.9	1546.1	135.52	1.8391	3.952
88.00	1988.0	1546.2	135.50	1.8295	3.952
89.00	1988.1	1546.3	135.46	1.8202	3.953
90.00	1988.2	1546.4	135.44	1.8111	3.953
91.00	1988.3	1546.5	135.42	1.8022	3.954
92.00	1988.4	1546.6	135.39	1.7935	3.954
93.00	1988.5	1546.7	135.37	1.7849	3.954
94.00	1988.6	1546.8	135.36	1.7766	3.955
95.00	1988.7	1546.9	135.35	1.7684	3.955
96.00	1988.8	1547.0	135.32	1.7604	3.955
97.00	1988.9	1547.1	135.30	1.7526	3.956
98.00	1989.0	1547.2	135.29	1.7449	3.956
99.00	1989.1	1547.3	135.27	1.7374	3.957
100.00	1989.2	1547.4	135.26	1.7300	3.957
101.00	1989.3	1547.5	135.24	1.7228	3.957
102.00	1989.4	1547.6	135.22	1.7157	3.958
103.00	1989.4	1547.6	135.21	1.7087	3.958
104.00	1989.5	1547.7	135.19	1.7019	3.958
105.00	1989.6	1547.8	135.16	1.6952	3.958
106.00	1989.7	1547.9	135.15	1.6887	3.959
107.00	1989.8	1548.0	135.13	1.6822	3.959
108.00	1989.9	1548.0	135.10	1.6759	3.960
109.00	1989.9	1548.1	135.08	1.6697	3.960
110.00	1990.0	1548.2	135.06	1.6636	3.960
111.00	1990.1	1548.2	135.03	1.6577	3.960
112.00	1990.1	1548.3	135.02	1.6518	3.961
113.00	1990.0	1548.2	135.01	1.6460	3.960
114.00	1989.8	1548.0	134.98	1.6404	3.959
115.00	1989.7	1547.9	134.97	1.6348	3.959
116.00	1989.7	1547.9	134.95	1.6293	3.959
117.00	1989.7	1547.9	134.94	1.6239	3.959

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9484 DST#3 WILLBANKS #17-15 CONLEY P.SMITH OPER.

DATE: 01/27/97 TIME: 03:38:37

	Time	Pressure PSig	delta P PSig	Temp. DEG F.	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	118.00	1989.7	1547.9	134.93	1.6186	3.959
	119.00	1989.7	1547.9	134.91	1.6134	3.959
	120.00	1989.8	1547.9	134.89	1.6083	3.959
	121.00	1989.8	1548.0	134.87	1.6033	3.959
***** End Shut-in 2	122.00	1989.8	1548.0	134.86	1.5984	3.959
***** Final Hydro.	412.00	2854.6	0.0	134.79		

# TEST HISTORY

9484 DST#3 WILLBANKS #17-15 CONLEY P. SMITH OPER.

## Flag Points

t(Min.) P(PSIq)

R:	0.00	2861.14
B:	0.00	69.86
C:	14.00	185.22
D:	60.00	1989.79
E:	0.00	206.22
F:	59.00	441.80
G:	122.00	1989.83
Q:	0.00	2854.65

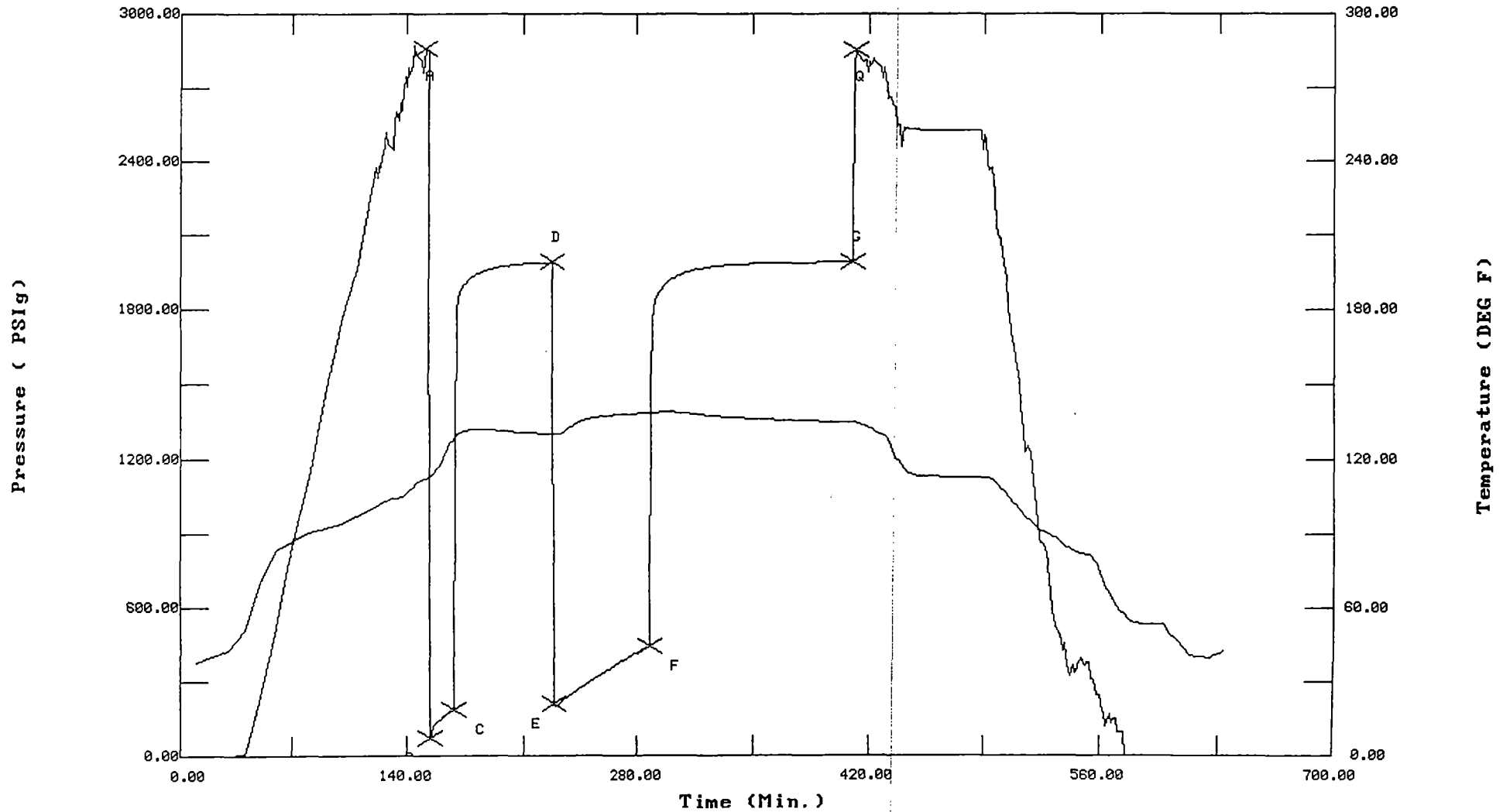
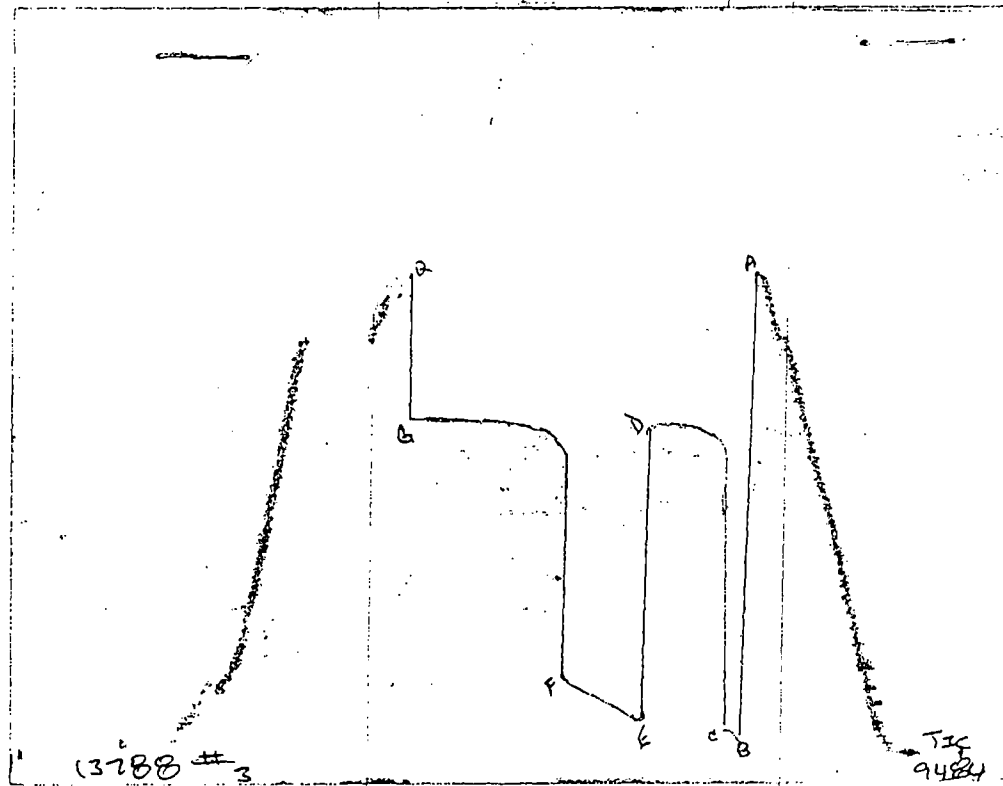


CHART PAGE



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