

ORIGINAL

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

CONFIDENTIAL

Operator: License # 5225  
Name: Quinque Operating Company  
Address P. O. Box 2738  
Liberal, KS 67905-2738

Purchaser: Petro Source  
Operator Contact Person: Michael Moore  
Phone (316) 624-2578

Contractor: Name: Beredco, Inc.  
License: 5147

Wellsite Geologist: Gary Wilkins (Hawkeye)

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SMD  SIGW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSM, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SMD \_\_\_\_\_  
Plug Back \_\_\_\_\_ PBTD \_\_\_\_\_  
Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
Other (SMD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_  
Spud Date 1-16-98 Date Reached TD 1-23-98 Completion Date 2-21-98

API NO. 15- 119-209870000

County Meade

N/2-NW/4 Sec. 4 Twp. 35 Rge. 30  E  W

660 Feet from S  (circle one) Line of Section

1320 Feet from E  (circle one) Line of Section

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

Lease Name Jessie S. Well # 3

Field Name Adams Ranch

Producing Formation Lansing-A

Elevation: Ground 2522 KB 2534

Total Depth 5387 PBTD 4700

Amount of Surface Pipe Set and Cemented at 1491 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ ex cnt.

Drilling Fluid Management Plan ALT 1 7-15-98  
(Data must be collected from the Reserve Pit)

Chloride content 2100 ppm Fluid volume 380 bbls

Dewatering method used Hauled offsite

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name Nichols Fluid Service

Lease Name Nichols #2 License No. 285972

Quarter 30 Twp. 4N S Rng. 24ECM E/W

County Beaver, OK Docket No. 285972

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

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

Signature [Signature]  
Title President Date 5-14-98  
Subscribed and sworn to before me this 14 day of May 19 98.  
Notary Public Beverly A. Stahle  
Date Commission Expires 11-27-99

NOTARY PUBLIC - State of Kansas  
BEVERLY A. STAHLE  
My Appt. Expires 11-27-99

K.C.C. OFFICE USE ONLY  
 Letter of Confidentiality Attached  
 Wireline Log Received  
 Geologist Report Received  
Distribution 5-19-98  
 KCC  SMD/Rep  NGPA  
 KGS  Other  
(Specify)

Operator Name Quinque Operating Company Lease Name Jessie S. Well # 3

Sec. 4 Twp. 35 Rge. 30  East  West  
 County Meade County, Kansas

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

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	4287/4291	-1757
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Toronto	4326/4316	-1782
List All E.Logs Run:		Lansing	4418/4430	-1896
Dual Induction	Caliper Microlog	Lansing A.	4427/4434	-1900
Compensated Neutron	<b>CEMENT BOND</b>	Kansas City	/4719	-2185
Compensated Density		Kansas City B	4734/4748	-2214
Gamma Ray		Marmaton	5152/5151	-2617
		Marmaton por.	5168/5172	-2638
		Novinger	5233/5244	-2710
		Cherokee	5362/NOL	

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
Conductor	30"	20"		40'			
NEW Surface	12-1/4"	8-5/8"	24.1b	1491'	600 saks lite 2% calc 1/4# flake, 150 sax class A 2% calc 1/4# flake		
USED Production	7-7/8"	4-1/2"	10.5	4849'	155 saks dlass H cmt w/10% EA-2 15% salt & 6/10% Halad 322 mixed @ 15.1%		

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				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4721-4723 4739-4741 CIBP 4735' EZ-SV. cmt. retainer 4/00'	300 gals 25% NEFE HCL	
Hydrojet	4432'		

TUBING RECORD Size 2-3/8" Set At 4479 Packer At 4863' Liner Run  Yes  No

Date of First, Resumed Production, BWD. or Inj. 2-98 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls. <u>25</u>	Gas Mcf <u>0</u>	Water Bbls. <u>23</u>	Gas-Oil Ratio <u>0:25</u>	Gravity <u>40</u>
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Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION (Notched)  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify)

Production Interval 4432' (360°)



Halliburton Energy Services

ORIGINAL

DATE:01-23-1998

TIME:02:55:08

SERVICE TICKET: 234512

HUGOTON-25535

BULK TICKET ONLY: 800885

JOB PURPOSE:LONG STRING

COMPANY TRUCK::N DRIVER: S.TELFORD

CONFIDENTIAL

CUSTOMER: QUINQUE OPERATING

LEASE & WELL#:JESSIE S-3

504-043	PREMIUM CEMENT	155	SKS.	15.34	2377.70
507-775	HALAD-322	88	LBS.	7.70	677.60
509-968	W/W SALT	1350	LBS.	0.18	243.00
508-127	CAL SEAL	16	SKS.	28.00	448.00
500-207	SERVICE CHARGES	196	CU FT	1.66	325.36
					TOTAL 4071.66
500-306	WEIGHT: 17558	MILES: 65	TON MILES: 570.64	1.25	713.30
					TOTAL BOOK PRICE OF BULK TICKET: \$ 4784.96

KCC

MAY 14

500-225 RETURN SERVICE CHARGES \_\_\_\_\_ 20% COST OF RET. MATERIALS 1.66

CONFIDENTIAL

500-306 WEIGHT: \_\_\_\_\_ RETURN MILES: 65 TON MILES: \_\_\_\_\_ 1.25

RELEASED

SEP 28 1991

RECEIVED

STATE COMMISSION

FROM CONFIDENTIAL

MAY 19 1998

Wichita, Kansas



JOB LOG 9-5

TICKET #	TICKET DATE
BDA / STATE	COUNTY
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	
JOB PURPOSE CODE	

REGION North America	NWA/COUNTRY
MBU ID / EMP #	EMPLOYEE NAME
LOCATION	COMPANY
TICKET AMOUNT	WELL TYPE
WELL LOCATION	DEPARTMENT
LEASE / WELL #	SEC / TWP / RNG

ORIGINAL

HES EMP NAME/EMP#/(EXPOSURE HOURS)   HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)   HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)   HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)   HRS

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psl)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	01:11							called out for job
	01:11							on line for 1st 1/2 hr
	01:55							back well
	02:10							1/2 hr 1/2
	02:55							ESD on 204 HOOL up 11/2 hr & 1/2 hr
	03:04							back well 1/2 hr
	03:01							circ 13 ft
	03:35							Three call HOOB 5:00 in p.m.
	03:40	5.0	10			200		Plung' prod 1/2 hr
	04:01	1.5	111			300		Pump 1550. flow 1/2 hr 1/2 hr 1/2 hr
	04:50	1.1	51			0		shut down 1/2 hr
	05:20	2.0	76.4			100		flow 1/2 hr
	05:50	5.0	76.11			100		58 1/2 in 1/2 hr 1/2 hr
	06:20	2.0	76.4			100		58 1/2 in 1/2 hr 1/2 hr
	06:40	2.0	76.4			150		land pump
	07:00	1.0	76.4			150		1/2 hr 1/2 hr
	07:00							1/2 hr 1/2 hr
								through 1/2 hr 1/2 hr 1/2 hr
								1/2 hr 1/2 hr 1/2 hr

CONFIDENTIAL

KCC

MAY 14

CONFIDENTIAL

RELEASED

RECEIVED

SEP 23 1991

TEAM 9 1990

FROM

COMMISSION

109 Kansas

# CONFIDENTIAL

## ALLIED CEMENTING CO., INC.

5851

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

RECEIVED  
JAN 28 1997

SERVICE POINT: med. lodge

DATE <u>1-15-97</u>	SEC. <u>4</u>	TWP. <u>35</u>	RANGE <u>30</u>	CALL TIME <u>6:00 P.M.</u>	ON LOCATION* <u>11:00 A.M.</u>	JOB START <u>1:45 A.M.</u>	JOB FINISH <u>3:30 A.M.</u>
LEASE <u>Fessie</u>	WELL# <u>3</u>	LOCATION <u>E side Plains 145 - 1/2w - 3/4s</u>			COUNTY <u>meade</u>	STATE <u>ks.</u>	

CONTRACTOR Beredco #4  
 TYPE OF JOB Surface Csg.  
 HOLE SIZE 12 1/4 T.D. 1491  
 CASING SIZE 8 5/8 x 23 DEPTH 1490  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 1000 MINIMUM 350  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 42.19  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_

OWNER Quinque CEMENT

AMOUNT ORDERED 600SXS. ALW + 2% CACL2  
1/4# Flo-Seal 150SXS. CLASS A + 1/4#  
Flo-Seal + 2% CACL2

COMMON <u>A</u>	<u>150</u>	@	<u>7.55</u>	<u>1132.50</u>
POZMIX		@		
GEL		@		
CHLORIDE	<u>17</u>	@	<u>28.00</u>	<u>476.00</u>
<u>ALW</u>	<u>600</u>	@	<u>7.05</u>	<u>4230.00</u>
<u>Flo-Seal</u>	<u>188#</u>	@	<u>1.15</u>	<u>216.20</u>
		@		
		@		
HANDLING	<u>750</u>	@	<u>1.20</u>	<u>900.00</u>
MILEAGE	<u>750 x 52</u>		<u>-04</u>	<u>1560.00</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER Larry Dreiling  
 # 233-302 HELPER Justin Hart  
 BULK TRUCK  
 # 259-314 DRIVER MARK Brunqdant  
 BULK TRUCK  
 # 240-250 DRIVER JAMES Holt

KCC

MAY 14

TOTAL \$ 8514.70  
RELEASED

CONFIDENTIAL

SERVICE SEP 28 1999

**REMARKS:**

Pipe on Bottom - Break Circ.  
Cement 600SXS. ALW + 2% CACL2 + 1/4#  
Flo-Seal 150SXS. CLASS A + 2% CACL2  
1/4# Flo-Seal Cement In. Stop Pumps  
Release Plug. Pump + Displace Plug  
w/ 9.3 Bbls. Fresh H<sub>2</sub>O. Bump  
Plug. Release PST. Float Held  
Cement Circ. to Surface.

DEPTH OF JOB	<u>1490'</u>			
PUMP TRUCK CHARGE	<u>0-300'</u>			<u>560.00</u>
EXTRA FOOTAGE	<u>1190'</u>	@	<u>.50</u>	<u>595.00</u>
MILEAGE	<u>20</u>	@	<u>2.85</u>	<u>57.00</u>
PLUG DOBBER	<u>8 5/8</u>	@	<u>90.00</u>	<u>90.00</u>

RECEIVED  
STATE COMMISSION

MAY 19 1998

TOTAL \$ 1302.00

CHARGE TO: Beredco  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

DIVISION  
FLOAT EQUIPMENT

1-AFU Insert	@	<u>358.00</u>	<u>358.00</u>
1-Reg. Guide Shoe	@	<u>238.00</u>	<u>238.00</u>
3-Centerizers	@	<u>61.00</u>	<u>183.00</u>
1-Thread-lak	@	<u>30.00</u>	<u>30.00</u>

TOTAL \$ 809.00

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 \$ 10625.70  
 DISCOUNT \$ 1593.85 IF PAID IN 30 DAYS  
 NET \$ 9,031.85

SIGNATURE X  Kent Johnson



REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046 Corporate FIN 73-0271280

INVOICE

CONFIDENTIAL HALLIBURTON ENERGY SERVICES, INC.

Table with columns: INVOICE NO. (234512), DATE (01/23/1996)

Summary table with columns: WELL LEASE NO./PROJECT, WELL/PROJECT LOCATION, STATE, OWNER, SERVICE LOCATION, CONTRACTOR, JOB PURPOSE, TICKET DATE, ACCT. NO., CUSTOMER AGENT, VENDOR NO., CUSTOMER P.O. NUMBER, SHIPPED VIA, FILE NO.

DIRECT CORRESPONDENCE TO: QUINTO OPERATING COMPANY P O BOX 2738 LIBERAL, KS 67905-2738

ORIGINAL

Main invoice table with columns: REFERENCE NO., DESCRIPTION, QUANTITY, UM, UNIT PRICE, AMOUNT. Includes various items like MILEAGE CEMENTING ROUND, CEMENTING CASING, GUIDE SHOE, etc.

RELEASED

SEP 28 1979

FROM CONFIDENTIAL KCC

MAY 14

CONFIDENTIAL

RECEIVED JAN 29 1997

RECEIVED STATE COMMISSION MAY 1 1995

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials.

CUSTOMER COPY

INVOICE



HALLIBURTON ENERGY SERVICES, INC.

REMIT TO:  
P.O. BOX 951043  
DALLAS, TX 75395-1043  
Corporate FIN 73-0271280

INVOICE NO.	DATE
234512	01/23/1998

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
JESSIE 5-3		MEADE		KS	SAFE
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
LIBERAL			SHOWN BELOW		01/23/1998
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
712202	ECCER FEARSON	<b>CONFIDENTIAL</b>		COMPANY TRUCK	26310

QUINQUE OPERATING COMPANY  
P O BOX 2738  
LIBERAL, KS 67905-2738

DIRECT CORRESPONDENCE TO:  
P O BOX 1598  
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	JOB PURPOSE SUBTOTAL				9,652.31
	INVOICE SUBTOTAL				9,652.31
	DISCOUNT-(BID)				2,793.65
	INVOICE BID AMOUNT				6,858.66
	*-KANSAS STATE SALES TAX				201.19
	*-LIBERAL CITY SALES TAX				41.07
	*-SEWARD COUNTY SALES TAX				61.59
	<b>INVOICE TOTAL - PLEASE PAY THIS AMOUNT</b>				<b>47,163.11</b>

**ORIGINAL**

RELEASED

SEP 23 1999

FROM CONFIDENTIAL

KCC

MAY 14

CONFIDENTIAL

RECEIVED  
STATE COMMISSION

MAY 19 1998

Wichita Falls

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.







HALLIBURTON

HALLIBURTON ENERGY SERVICES

1906-Q

CHARGE TO:

Quinque Operating

ADDRESS

P.O. Box 2735

CITY, STATE, ZIP CODE

Liberal KS. 67901

CUSTOMER COPY

TICKET

No.

234512 - 3

PAGE 1 OF 2

1. SERVICE LOCATIONS 025540	WELL/PROJECT NO. S-3	LEASE Jassie	COUNTY/PARISH Mcade	STATE KS.	CITY/OFFSHORE LOCATION Plains	DATE 1-23-98	OWNER Same
2. 025535	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Beredia	RIG NAME/NO. 4	SHIPPED VIA Honto	DELIVERED TO Location	ORDER NO.
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO.	WELL LOCATION Land		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
			LOC	ACCT	DF							
	000-117		1			MILEAGE	66	m			3.65	240.90
	000-119		1			crew mileage	66	ft.			2.15	141.90
	001-016		1			Pump Charge	4845	ft.	6	hr		2181.00
	030-016		1			5w top fluid	1	EG	4 1/2	in		50.00
	12-17	825.701	1			Guide shoe	1	EG				105.00
	24-17	815.19101	1			Insect						110.00
	2.7	815.19111	1			Fill Tube						60.00
	6.6	806.72720	1			Fos Grip						17.65
	40	806.60004	1			centralizers	10	EG				590.00
	018-375		1			mud flush	500	gal	EG	gal	.83	415.00
	045-050		1			portable data Acquisition	1	job	EG	job		760.00
	314-163					Clay Fix	6	gal	EG	gal	32.65	195.90

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

X Roger Pearson  
DATE SIGNED TIME SIGNED

TYPE LOCK	SUB SURFACE SAFETY VALVE WAS:		PAGE TOTAL
BEAN SIZE	<input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		4867.35
DEPTH	TYPE OF EQUALIZING SUB.	CASING PRESSURE	FROM CONTINUATION PAGE(S)
SPACERS	TUBING SIZE	TUBING PRESSURE	9652.31
	TUBING PRESSURE	WELL DEPTH	
	TREE CONNECTION	TYPE VALVE	SUB-TOTAL
			APPLICABLE TAXES WILL BE ADDED ON INVOICE

do  do not require IPC (Instrument Protection).

Not offered

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT)

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)

HALLIBURTON OPERATOR/ENGINEER

EMP #

HALLIBURTON APPROVAL

Roger Pearson

X Roger Pearson

Tyco Dawy

F4550

**CONFIDENTIAL**

**WELL NAME:** Jessie "S"#3  
**COMPANY:** Quinque Operating Company  
**LOCATION:** 4-35S-30W  
Meade County, Kansas  
**DATE:** 1/26/98

**KCC**  
**MAY 14**  
**CONFIDENTIAL**

15-119-20987

RELEASED

SEP 28 1999

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : Quinque Oper. Co.

DATE 1-20-98

WELL NAME: Jessie "S" #3

KB 2534.00 ft TICKET NO: 10821 DST #1

LOCATION : 4-35s-30w

GR 2522.00 ft FORMATION: K.C. "B"

INTERVAL : 4726.00 To 4737.00 ft

TD 4737.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 5 Rec.	13630	13630	Alpine			PF Fr. 0255 to 0300 hr
SI 30 Range(Psi )	4625.0	4625.0	5000.0	0.0	0.0	IS Fr. 0300 to 0330 hr
SF 30 Clock(hrs)	12 Hr	12 Hr	24 Hr			SF Fr. 0330 to 0400 hr
FS 90 Depth(ft )	4716.0	4716.0	4728.0	0.0	0.0	FS Fr. 0400 to 0530 hr

	Field	1	2	3	4
A. Init Hydro	2262.0	2288.0	2241.0	0.0	0.0
B. First Flow	18.0	20.0	189.0	0.0	0.0
B1. Final Flow	221.0	238.0	180.0	0.0	0.0
C. In Shut-in	1289.0	1318.0	1321.0	0.0	0.0
D. Init Flow	230.0	252.0	255.0	0.0	0.0
E. Final Flow	319.0	328.0	296.0	0.0	0.0
F. Fl Shut-in	1298.0	1310.0	1306.0	0.0	0.0
G. Final Hydro	2241.0	2253.0	2194.0	0.0	0.0
Inside/Outside	0	0	I		

T STARTED 0100 hr  
 T ON BOTM 0252 hr  
 T OPEN 0255 hr  
 T PULLED 0530 hr  
 T OUT 0900 hr

TOOL DATA-----

Tool Wt. 1800.00 lbs  
 Wt Set On Packer 22000.00 lbs  
 Wt Pulled Loose 20000.00 lbs  
 Initial Str Wt 86000.00 lbs  
 Unseated Str Wt 90000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.78 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.80 in  
 D.C. Length 623.00 ft  
 D.P. Length 4076.00 ft

RECOVERY

Tot Fluid 730.00 ft of 623.00 ft in DC and 107.00 ft in DP  
 3969.00 ft of Gas in pipe  
 90.00 ft of Slight Oil & Gas cut Mud 5%G 5%O 90%M  
 135.00 ft of Gassy Water with scum of Oil 4%G 96%W  
 505.00 ft of Gassy Salt Water 4%G 96%W  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 SALINITY 125000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type Chemical  
 Weight 9.10 lb/cf  
 Vis. 50.00 S/L  
 W.L. 10.00 in3  
 F.C. 0.00 in  
 Mud Drop Y 20.0 ft

BLOW DESCRIPTION

Initial Flow:  
 Strong, off bottom of bucket  
 immediately-gas to surface in 5 min.  
 Initial Shut-in:  
 No blow back "slid tool 5"  
 Final Shut-in:  
 Strong off bottom of bucket blow back

Amt. of fill 5.00 ft  
 Btm. H. Temp. 121.00 F  
 Hole Condition Fair  
 % Porosity 16.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out N  
 Tool Chased N  
 Tester Lanny Saloga  
 Co. Rep. Gary Wilkens  
 Contr. Beredco  
 Rig # 4  
 Unit #  
 Pump T.

SAMPLES: One  
 SENT TO: Caraway

Test Successful: Y

GAS RECOVERY

COMPANY: Quinque Oper. Co.  
WELL NAME: Jessie "S" #3  
WELL LOCATION: 4-35s-30w  
INTERVAL Fr.: 4726.00 To 4737.00 T.D.: 4737.00 ft

DATE: 1-20-98  
KB Elev: 2534.00 ft  
GR Elev: 2522.00 ft  
TICKET #10821  
FORMATION: K.C. "B"  
DST #1  
TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Orifice

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

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.50	4	0	68800.0
10	0.50	8	0	101000.0
20	0.50	4	0	68800.0
30	0.50	1	0	33900.0

NOTATION  
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 300

NATURAL GAS ANALYSIS REPORT

Sampled by:  
 Trilobite Testing, L. L. C.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 913-625-5620

Analyzed by:  
 Caraway Analytical, Inc  
 P. O. Box 2137  
 Liberal, Kansas 67905  
 Phone: 316-624-5389  
 Fax: 316-626-7108

Lab Number:	980067	Analyzed:	01/20/98
Sample From:	Jessie S-3 DST 1.	Pressure:	
Producer:	Quinque Operating	Temperature:	
Date:	01/20/98	Location:	4-35S-30W
Time:		County:	Meade
Sampler:	Lanny Saloga	State:	Kansas
Source:		Formation:	KC B

	Mole %	GPM
Helium	He: 0.180	0.000
Hydrogen	H2: 0.001	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 11.840	0.000
Carbon Dioxide	CO2: 0.248	0.000
Methane	C1: 69.086	0.000
Ethane	C2: 6.753	1.806
Propane	C3: 5.107	1.407
Iso Butane	iC4: 0.654	0.214
Normal Butane	nC4: 1.848	0.583
Iso Pentane	iC5: 0.554	0.203
Normal Pentane	nC5: 0.712	0.258
Hexanes Plus	C6+: 3.017	1.316
TOTAL:	100.000	5.787
Z Fact:	0.9962	
SP.GR.:	0.8314	
BTU (SAT):	1218.7 @ 14.73 psia	
BTU (DRY):	1240.3 @ 14.73 psia	
OCTANE RATING:	105.4	

COMMENTS:

0.000



# TEST HISTORY

10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.

Flag Points

t (Min.) P (PSI)

R:	0.00	2241.27
B:	0.00	189.94
C:	6.75	180.91
D:	30.50	1321.86
E:	0.00	255.85
F:	28.25	296.60
G:	94.00	1306.72
Q:	0.00	2194.20

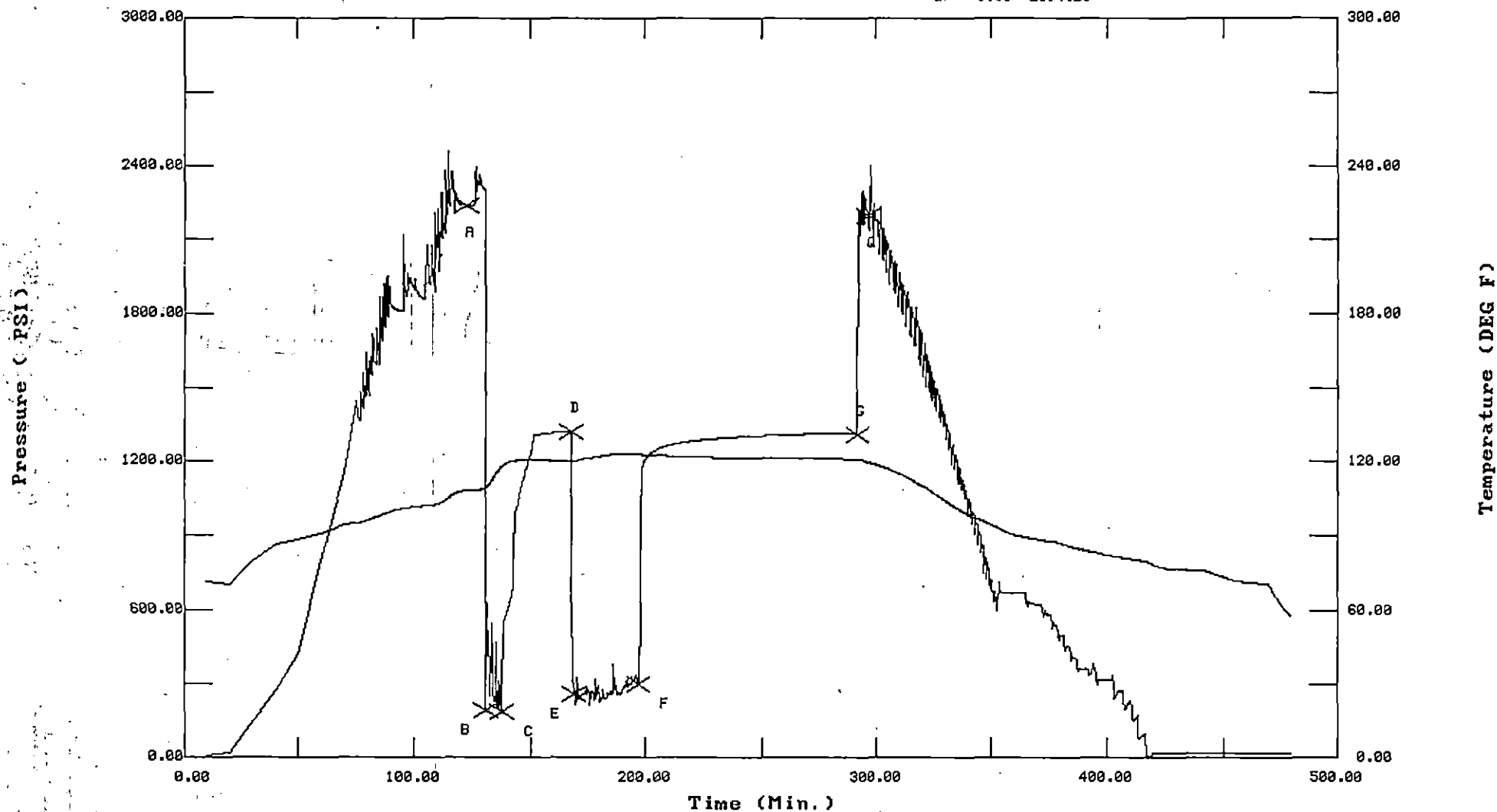
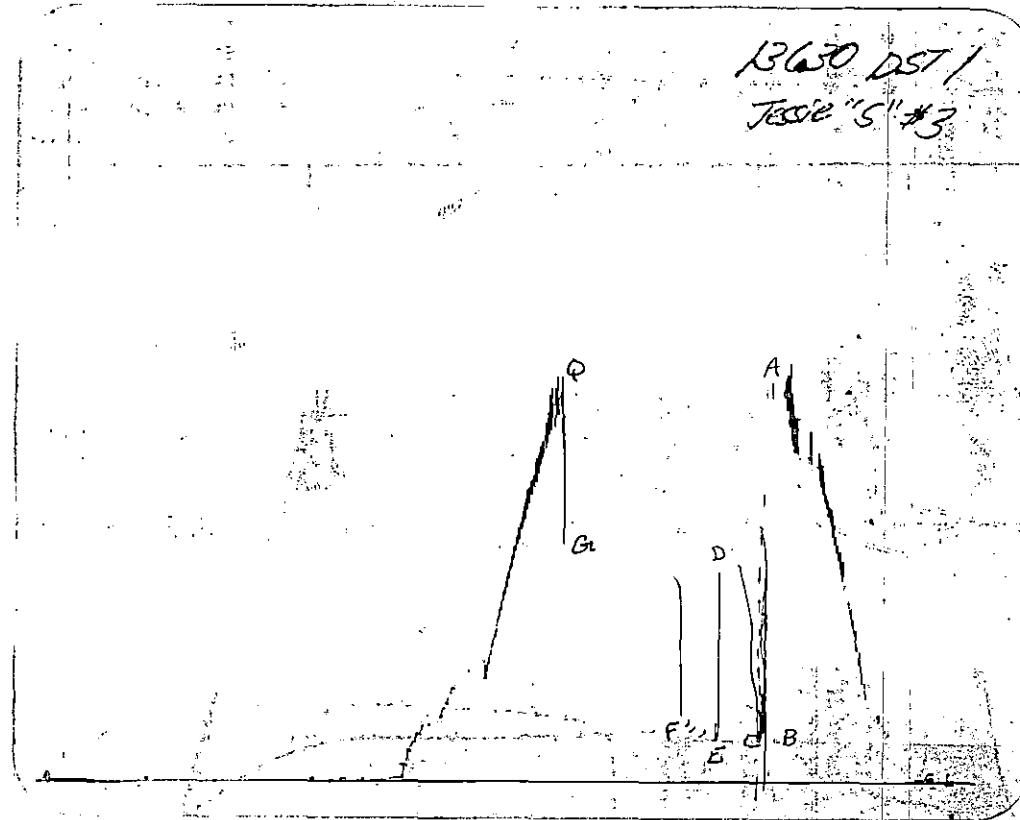


CHART PAGE



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



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/20/98 TIME: 00:42:32

	Time	Pressure	delta P	Temp.	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
		PSI	PSI	DEG F		
***** Initial Hydro.	122.25	2241.3	0.0	107.79		
***** Start Flow 1	0.00	189.9	0.0	108.75		
	0.25	627.5	437.6	109.07		
	0.50	561.1	371.2	109.25		
	0.75	562.8	372.9	109.47		
	1.00	478.1	288.1	109.77		
	1.25	483.4	293.5	110.10		
	1.50	332.7	142.7	110.44		
	1.75	349.5	159.6	110.81		
	2.00	250.1	60.2	111.17		
	2.25	445.1	255.2	111.54		
	2.50	546.2	356.2	111.92		
	2.75	384.3	194.4	112.30		
	3.00	310.1	120.2	112.70		
	3.25	267.3	77.4	113.10		
	3.50	225.3	35.4	113.49		
	3.75	225.3	35.4	113.89		
	4.00	223.1	33.1	114.27		
	4.25	468.0	278.0	114.65		
	4.50	337.4	147.5	115.00		
	4.75	204.5	14.6	115.36		
	5.00	215.4	25.5	115.68		
	5.25	190.9	0.9	115.98		
	5.50	286.9	97.0	116.27		
	5.75	311.6	121.6	116.52		
	6.00	281.9	91.9	116.78		
	6.25	279.5	89.5	117.00		
	6.50	243.9	53.9	117.23		
***** End Flow 1	6.75	180.9	-9.0	117.45		
***** Start Shutin 1	0.00	180.9	0.0	117.45	0.0000	0.033
	0.25	315.1	134.2	117.67	28.0000	0.099
	0.50	480.5	299.6	117.87	14.5000	0.231
	0.75	529.0	348.1	118.06	10.0000	0.280
	1.00	553.6	372.7	118.27	7.7500	0.306
	1.25	566.7	385.8	118.45	6.4000	0.321
	1.50	574.5	393.6	118.65	5.5000	0.330
	1.75	580.5	399.6	118.78	4.8571	0.337
	2.00	585.6	404.7	118.94	4.3750	0.343
	2.25	593.3	412.4	119.09	4.0000	0.352
	2.50	601.6	420.7	119.22	3.7000	0.362
	2.75	609.1	428.2	119.33	3.4545	0.371
	3.00	616.4	435.5	119.45	3.2500	0.380
	3.25	623.3	442.4	119.54	3.0769	0.389
	3.50	630.9	450.0	119.64	2.9286	0.398
	3.75	639.6	458.7	119.71	2.8000	0.409
	4.00	648.7	467.8	119.79	2.6875	0.421
	4.25	658.1	477.2	119.86	2.5882	0.433
	4.50	667.4	486.5	119.92	2.5000	0.445
	4.75	676.2	495.3	119.97	2.4211	0.457
	5.00	684.6	503.6	120.03	2.3500	0.469
	5.25	851.4	670.5	120.08	2.2857	0.725

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/20/98 TIME: 00:42:32

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
5.50	966.2	785.3	120.11	2.2273	0.934
5.75	990.9	810.0	120.13	2.1739	0.982
6.00	997.4	816.5	120.17	2.1250	0.995
6.25	1005.5	824.6	120.21	2.0800	1.011
6.50	1014.4	833.5	120.24	2.0385	1.029
6.75	1023.9	843.0	120.27	2.0000	1.048
7.00	1033.1	852.2	120.30	1.9643	1.067
7.25	1042.5	861.6	120.33	1.9310	1.087
7.50	1051.6	870.7	120.36	1.9000	1.106
7.75	1060.6	879.7	120.39	1.8710	1.125
8.00	1069.9	889.0	120.40	1.8438	1.145
8.25	1079.3	898.4	120.43	1.8182	1.165
8.50	1088.7	907.8	120.45	1.7941	1.185
8.75	1097.9	917.0	120.46	1.7714	1.205
9.00	1107.1	926.2	120.47	1.7500	1.226
9.25	1116.1	935.2	120.48	1.7297	1.246
9.50	1125.1	944.2	120.49	1.7105	1.266
9.75	1134.2	953.3	120.50	1.6923	1.286
10.00	1143.2	962.3	120.51	1.6750	1.307
10.25	1152.0	971.1	120.52	1.6585	1.327
10.50	1160.7	979.8	120.51	1.6429	1.347
10.75	1169.2	988.3	120.53	1.6279	1.367
11.00	1177.7	996.8	120.52	1.6136	1.387
11.25	1186.0	1005.1	120.54	1.6000	1.407
11.50	1194.2	1013.3	120.54	1.5870	1.426
11.75	1202.3	1021.4	120.54	1.5745	1.446
12.00	1210.2	1029.3	120.54	1.5625	1.465
12.25	1218.1	1037.2	120.54	1.5510	1.484
12.50	1225.9	1045.0	120.54	1.5400	1.503
12.75	1233.5	1052.6	120.55	1.5294	1.521
13.00	1241.6	1060.7	120.54	1.5192	1.542
13.25	1250.0	1069.1	120.54	1.5094	1.563
13.50	1262.8	1081.9	120.53	1.5000	1.595
13.75	1295.4	1114.5	120.54	1.4909	1.678
14.00	1304.3	1123.3	120.52	1.4821	1.701
14.25	1305.2	1124.3	120.52	1.4737	1.704
14.50	1306.0	1125.1	120.51	1.4655	1.706
14.75	1306.5	1125.6	120.51	1.4576	1.707
15.00	1307.0	1126.1	120.51	1.4500	1.708
15.25	1307.6	1126.7	120.50	1.4426	1.710
15.50	1308.0	1127.1	120.50	1.4355	1.711
15.75	1308.5	1127.6	120.50	1.4286	1.712
16.00	1308.9	1128.0	120.49	1.4219	1.713
16.25	1309.3	1128.4	120.48	1.4154	1.714
16.50	1309.7	1128.8	120.48	1.4091	1.715
16.75	1310.0	1129.1	120.46	1.4030	1.716
17.00	1310.4	1129.5	120.45	1.3971	1.717
17.25	1310.7	1129.8	120.44	1.3913	1.718
17.50	1311.1	1130.2	120.43	1.3857	1.719
17.75	1311.4	1130.5	120.42	1.3803	1.720
18.00	1311.8	1130.9	120.40	1.3750	1.721

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.  
 DATE: 01/20/98 TIME: 00:42:32

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
18.25	1312.1	1131.2	120.40	1.3699	1.722
18.50	1312.4	1131.5	120.38	1.3649	1.722
18.75	1312.7	1131.8	120.36	1.3600	1.723
19.00	1313.0	1132.1	120.35	1.3553	1.724
19.25	1313.3	1132.4	120.34	1.3506	1.725
19.50	1313.5	1132.6	120.33	1.3462	1.725
19.75	1313.8	1132.9	120.30	1.3418	1.726
20.00	1314.1	1133.2	120.28	1.3375	1.727
20.25	1314.4	1133.5	120.27	1.3333	1.728
20.50	1314.6	1133.7	120.25	1.3293	1.728
20.75	1314.9	1134.0	120.23	1.3253	1.729
21.00	1315.1	1134.2	120.21	1.3214	1.730
21.25	1315.4	1134.5	120.20	1.3176	1.730
21.50	1315.6	1134.7	120.19	1.3140	1.731
21.75	1315.8	1134.9	120.18	1.3103	1.731
22.00	1316.0	1135.1	120.17	1.3068	1.732
22.25	1316.3	1135.4	120.14	1.3034	1.733
22.50	1316.5	1135.6	120.14	1.3000	1.733
22.75	1316.7	1135.8	120.11	1.2967	1.734
23.00	1316.9	1136.0	120.10	1.2935	1.734
23.25	1317.1	1136.2	120.08	1.2903	1.735
23.50	1317.3	1136.4	120.07	1.2872	1.735
23.75	1317.5	1136.6	120.05	1.2842	1.736
24.00	1317.8	1136.8	120.05	1.2812	1.736
24.25	1317.9	1137.0	120.04	1.2784	1.737
24.50	1318.1	1137.2	120.02	1.2755	1.737
24.75	1318.3	1137.4	120.01	1.2727	1.738
25.00	1318.5	1137.6	119.99	1.2700	1.738
25.25	1318.7	1137.7	119.98	1.2673	1.739
25.50	1318.9	1137.9	119.97	1.2647	1.739
25.75	1319.0	1138.1	119.97	1.2621	1.740
26.00	1319.2	1138.3	119.95	1.2596	1.740
26.25	1319.4	1138.4	119.94	1.2571	1.741
26.50	1319.5	1138.6	119.94	1.2547	1.741
26.75	1319.7	1138.8	119.93	1.2523	1.742
27.00	1319.9	1139.0	119.92	1.2500	1.742
27.25	1320.0	1139.1	119.91	1.2477	1.742
27.50	1320.2	1139.2	119.90	1.2455	1.743
27.75	1320.3	1139.4	119.90	1.2432	1.743
28.00	1320.5	1139.5	119.89	1.2411	1.744
28.25	1320.6	1139.7	119.89	1.2389	1.744
28.50	1320.8	1139.9	119.88	1.2368	1.744
28.75	1320.9	1140.0	119.87	1.2348	1.745
29.00	1321.1	1140.2	119.86	1.2328	1.745
29.25	1321.2	1140.3	119.86	1.2308	1.746
29.50	1321.3	1140.4	119.85	1.2288	1.746
29.75	1321.5	1140.6	119.85	1.2269	1.746
30.00	1321.6	1140.7	119.84	1.2250	1.747
30.25	1321.8	1140.9	119.83	1.2231	1.747
30.50	1321.9	1141.0	119.83	1.2213	1.747

\*\*\*\*\* End Shut-in 1

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/20/98 TIME: 00:42:32

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Start Flow 2	0.00	255.8	0.0	119.89		
	0.25	291.2	35.4	119.92		
	0.50	244.7	-11.2	119.97		
	0.75	216.2	-39.7	120.03		
	1.00	220.1	35.8	120.08		
	1.25	320.7	164.9	120.13		
	1.50	225.5	-30.4	120.20		
	1.75	296.4	70.9	120.27		
	2.00	238.5	-17.4	120.34		
	2.25	246.8	8.3	120.41		
	2.50	252.5	5.7	120.47		
	2.75	240.1	-15.7	120.52		
	3.00	244.1	4.0	120.58		
	3.25	248.7	4.6	120.64		
	3.50	249.8	1.1	120.70		
	3.75	253.9	4.1	120.75		
	4.00	257.4	3.5	120.80		
	4.25	257.7	0.3	120.85		
	4.50	258.9	1.2	120.89		
	4.75	256.4	-2.5	120.94		
	5.00	267.4	11.0	120.99		
	5.25	267.7	0.3	121.03		
	5.50	268.3	0.6	121.07		
	5.75	255.2	-13.1	121.09		
	6.00	283.1	27.9	121.13		
	6.25	273.1	-10.0	121.16		
	6.50	272.5	-0.6	121.18		
	6.75	257.9	-14.6	121.21		
	7.00	216.1	-39.7	121.23		
	7.25	224.4	8.3	121.26		
	7.50	256.1	31.7	121.28		
	7.75	235.0	-20.8	121.31		
	8.00	266.1	31.1	121.35		
	8.25	269.1	3.0	121.38		
	8.50	261.0	-8.1	121.42		
	8.75	263.9	2.9	121.45		
	9.00	247.3	-16.6	121.47		
	9.25	229.3	-18.0	121.53		
	9.50	235.6	6.3	121.56		
	9.75	318.5	82.9	121.61		
	10.00	250.7	-31.8	121.65		
	10.25	258.4	7.7	121.70		
	10.50	277.7	19.3	121.76		
	10.75	292.5	14.8	121.81		
	11.00	274.3	-18.2	121.85		
	11.25	249.3	-25.0	121.89		
	11.50	263.8	14.5	121.93		
	11.75	228.5	-35.3	121.97		
	12.00	238.8	10.3	122.01		
	12.25	238.0	-0.8	122.06		
	12.50	241.8	3.8	122.09		
	12.75	249.0	7.2	122.14		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/20/98 TIME: 00:42:32

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
13.00	273.1	17.2	122.20		
13.25	246.3	-9.5	122.24		
13.50	239.5	-16.3	122.28		
13.75	235.5	-20.4	122.33		
14.00	236.4	-19.4	122.38		
14.25	238.0	-17.8	122.42		
14.50	246.4	-9.4	122.46		
14.75	263.1	7.3	122.49		
15.00	258.5	2.6	122.52		
15.25	256.1	0.3	122.56		
15.50	255.7	-0.1	122.59		
15.75	257.9	2.0	122.62		
16.00	259.0	3.1	122.66		
16.25	269.5	13.7	122.68		
16.50	257.9	2.1	122.71		
16.75	267.3	11.5	122.74		
17.00	264.4	8.5	122.77		
17.25	265.5	9.6	122.81		
17.50	373.9	118.0	122.83		
17.75	281.9	26.1	122.85		
18.00	283.0	27.2	122.86		
18.25	271.5	15.7	122.86		
18.50	271.5	15.7	122.85		
18.75	293.6	37.8	122.84		
19.00	257.8	1.9	122.83		
19.25	262.7	6.8	122.82		
19.50	261.8	6.0	122.80		
19.75	261.9	6.1	122.78		
20.00	262.4	6.6	122.78		
20.25	262.2	6.3	122.77		
20.50	258.5	2.6	122.75		
20.75	268.1	12.2	122.75		
21.00	267.5	11.7	122.74		
21.25	271.3	15.5	122.73		
21.50	277.3	21.4	122.71		
21.75	283.1	27.3	122.70		
22.00	283.4	27.6	122.70		
22.25	293.6	37.8	122.69		
22.50	285.4	29.5	122.68		
22.75	295.3	39.4	122.68		
23.00	307.0	51.2	122.68		
23.25	313.0	57.2	122.69		
23.50	287.7	31.9	122.70		
23.75	288.2	32.3	122.72		
24.00	296.0	40.2	122.72		
24.25	295.6	39.8	122.74		
24.50	297.7	41.9	122.75		
24.75	298.8	42.9	122.76		
25.00	298.1	42.2	122.77		
25.25	297.4	41.5	122.78		
25.50	314.9	59.0	122.78		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.  
 DATE: 01/20/98 TIME: 00:42:32

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.75	327.8	72.0	122.77		
	26.00	311.7	55.9	122.77		
	26.25	311.5	55.6	122.77		
	26.50	330.6	74.8	122.78		
	26.75	313.7	57.9	122.77		
	27.00	321.4	65.5	122.77		
	27.25	323.2	67.4	122.76		
	27.50	331.4	75.5	122.76		
	27.75	320.0	64.2	122.75		
***** End Flow 2	28.00	292.8	36.9	122.74		
	28.25	296.6	40.8	122.73		
***** Start Shutin 2	0.00	296.6	0.0	122.73	0.0000	0.088
	0.25	311.3	14.7	122.72	141.0000	0.097
	0.50	343.1	46.5	122.71	71.0000	0.118
	0.75	561.1	264.5	122.69	47.6667	0.315
	1.00	779.6	483.0	122.67	36.0000	0.608
	1.25	989.3	692.7	122.64	29.0000	0.979
	1.50	1133.2	836.6	122.63	24.3333	1.284
	1.75	1174.8	878.2	122.62	21.0000	1.380
	2.00	1184.4	887.8	122.60	18.5000	1.403
	2.25	1191.5	894.9	122.60	16.5556	1.420
	2.50	1197.2	900.6	122.58	15.0000	1.433
	2.75	1202.1	905.5	122.57	13.7273	1.445
	3.00	1206.3	909.7	122.58	12.6667	1.455
	3.25	1210.0	913.4	122.57	11.7692	1.464
	3.50	1213.4	916.8	122.56	11.0000	1.472
	3.75	1216.4	919.8	122.55	10.3333	1.480
	4.00	1219.2	922.6	122.54	9.7500	1.486
	4.25	1221.7	925.1	122.53	9.2353	1.493
	4.50	1224.1	927.5	122.52	8.7778	1.499
	4.75	1226.3	929.7	122.51	8.3684	1.504
	5.00	1228.4	931.8	122.48	8.0000	1.509
	5.25	1230.3	933.7	122.48	7.6667	1.514
	5.50	1232.2	935.6	122.46	7.3636	1.518
	5.75	1233.9	937.3	122.44	7.0870	1.523
	6.00	1235.5	938.9	122.44	6.8333	1.527
	6.25	1237.1	940.5	122.42	6.6000	1.530
	6.50	1238.6	942.0	122.40	6.3846	1.534
	6.75	1240.0	943.4	122.39	6.1852	1.538
	7.00	1241.4	944.8	122.38	6.0000	1.541
	7.25	1242.7	946.1	122.36	5.8276	1.544
	7.50	1243.9	947.3	122.34	5.6667	1.547
	7.75	1245.2	948.6	122.32	5.5161	1.550
	8.00	1246.4	949.8	122.31	5.3750	1.553
	8.25	1247.5	950.9	122.28	5.2424	1.556
	8.50	1248.5	951.9	122.26	5.1176	1.559
	8.75	1249.6	953.0	122.26	5.0000	1.561
	9.00	1250.6	954.0	122.24	4.8889	1.564
	9.25	1251.6	955.0	122.23	4.7838	1.567
	9.50	1252.5	955.9	122.21	4.6842	1.569
	9.75	1253.5	956.9	122.19	4.5897	1.571

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/20/98 TIME: 00:42:32

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
10.00	1254.3	957.7	122.17	4.5000	1.573
10.25	1255.2	958.6	122.15	4.4146	1.576
10.50	1256.0	959.4	122.14	4.3333	1.578
10.75	1256.9	960.3	122.13	4.2558	1.580
11.00	1257.7	961.1	122.11	4.1818	1.582
11.25	1258.5	961.9	122.09	4.1111	1.584
11.50	1259.2	962.6	122.07	4.0435	1.586
11.75	1260.0	963.4	122.06	3.9787	1.587
12.00	1260.7	964.1	122.03	3.9167	1.589
12.25	1261.4	964.8	122.02	3.8571	1.591
12.50	1262.1	965.5	122.00	3.8000	1.593
12.75	1262.7	966.1	121.99	3.7451	1.595
13.00	1263.4	966.8	121.97	3.6923	1.596
13.25	1264.0	967.4	121.96	3.6415	1.598
13.50	1264.7	968.1	121.94	3.5926	1.599
13.75	1265.2	968.6	121.92	3.5455	1.601
14.00	1265.8	969.2	121.92	3.5000	1.602
14.25	1266.4	969.8	121.90	3.4561	1.604
14.50	1267.0	970.4	121.89	3.4138	1.605
14.75	1267.6	971.0	121.87	3.3729	1.607
15.00	1268.1	971.5	121.85	3.3333	1.608
15.25	1268.7	972.1	121.85	3.2951	1.610
15.50	1269.2	972.6	121.84	3.2581	1.611
15.75	1269.7	973.1	121.84	3.2222	1.612
16.00	1270.2	973.6	121.82	3.1875	1.613
16.25	1270.7	974.1	121.81	3.1538	1.615
16.50	1271.2	974.6	121.79	3.1212	1.616
16.75	1271.7	975.1	121.79	3.0896	1.617
17.00	1272.2	975.5	121.79	3.0588	1.618
17.25	1272.6	976.0	121.78	3.0290	1.620
17.50	1273.1	976.5	121.77	3.0000	1.621
17.75	1273.5	976.9	121.77	2.9718	1.622
18.00	1274.0	977.3	121.75	2.9444	1.623
18.25	1274.4	977.8	121.75	2.9178	1.624
18.50	1274.8	978.2	121.73	2.8919	1.625
18.75	1275.2	978.6	121.73	2.8667	1.626
19.00	1275.6	979.0	121.73	2.8421	1.627
19.25	1276.1	979.5	121.72	2.8182	1.628
19.50	1276.5	979.9	121.71	2.7949	1.629
19.75	1276.8	980.2	121.71	2.7722	1.630
20.00	1277.2	980.6	121.69	2.7500	1.631
20.25	1277.6	981.0	121.69	2.7284	1.632
20.50	1278.0	981.4	121.68	2.7073	1.633
20.75	1278.4	981.8	121.67	2.6867	1.634
21.00	1278.7	982.1	121.66	2.6667	1.635
21.25	1279.1	982.5	121.65	2.6471	1.636
21.50	1279.4	982.8	121.66	2.6279	1.637
21.75	1279.8	983.2	121.64	2.6092	1.638
22.00	1280.1	983.5	121.63	2.5909	1.639
22.25	1280.4	983.8	121.64	2.5730	1.640
22.50	1280.8	984.2	121.62	2.5556	1.640

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.  
 DATE: 01/20/98 TIME: 00:42:32

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
22.75	1281.1	984.5	121.62	2.5385	1.641
23.00	1281.4	984.8	121.61	2.5217	1.642
23.25	1281.8	985.2	121.61	2.5054	1.643
23.50	1282.1	985.5	121.60	2.4894	1.644
23.75	1282.4	985.8	121.59	2.4737	1.645
24.00	1282.7	986.1	121.59	2.4583	1.645
24.25	1283.0	986.4	121.58	2.4433	1.646
24.50	1283.3	986.7	121.58	2.4286	1.647
24.75	1283.6	987.0	121.58	2.4141	1.648
25.00	1283.9	987.3	121.58	2.4000	1.648
25.25	1284.2	987.6	121.56	2.3861	1.649
25.50	1284.5	987.9	121.56	2.3725	1.650
25.75	1284.8	988.2	121.55	2.3592	1.651
26.00	1285.1	988.5	121.54	2.3462	1.651
26.25	1285.3	988.7	121.55	2.3333	1.652
26.50	1285.6	989.0	121.54	2.3208	1.653
26.75	1285.8	989.2	121.54	2.3084	1.653
27.00	1286.1	989.5	121.52	2.2963	1.654
27.25	1286.4	989.8	121.51	2.2844	1.655
27.50	1286.6	990.0	121.51	2.2727	1.655
27.75	1286.9	990.3	121.50	2.2613	1.656
28.00	1287.2	990.5	121.50	2.2500	1.657
28.25	1287.4	990.8	121.50	2.2389	1.657
28.50	1287.7	991.1	121.48	2.2281	1.658
28.75	1287.9	991.3	121.49	2.2174	1.659
29.00	1288.2	991.5	121.47	2.2069	1.659
29.25	1288.4	991.8	121.47	2.1966	1.660
29.50	1288.6	992.0	121.47	2.1864	1.661
29.75	1288.9	992.2	121.46	2.1765	1.661
30.00	1289.1	992.5	121.47	2.1667	1.662
30.25	1289.3	992.7	121.45	2.1570	1.662
30.50	1289.5	992.9	121.45	2.1475	1.663
30.75	1289.8	993.2	121.44	2.1382	1.664
31.00	1290.0	993.4	121.43	2.1290	1.664
31.25	1290.2	993.6	121.43	2.1200	1.665
31.50	1290.5	993.9	121.43	2.1111	1.665
31.75	1290.6	994.0	121.43	2.1024	1.666
32.00	1290.9	994.3	121.42	2.0938	1.666
32.25	1291.1	994.5	121.42	2.0853	1.667
32.50	1291.3	994.7	121.41	2.0769	1.667
32.75	1291.5	994.9	121.41	2.0687	1.668
33.00	1291.7	995.1	121.42	2.0606	1.669
33.25	1291.9	995.3	121.41	2.0526	1.669
33.50	1292.1	995.5	121.41	2.0448	1.670
33.75	1292.3	995.7	121.40	2.0370	1.670
34.00	1292.5	995.9	121.39	2.0294	1.671
34.25	1292.7	996.1	121.40	2.0219	1.671
34.50	1292.9	996.3	121.39	2.0145	1.672
34.75	1293.1	996.5	121.39	2.0072	1.672
35.00	1293.3	996.7	121.38	2.0000	1.673
35.25	1293.5	996.9	121.37	1.9929	1.673



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/20/98 TIME: 00:42:32

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
35.50	1293.7	997.1	121.37	1.9859	1.674
35.75	1293.9	997.3	121.37	1.9790	1.674
36.00	1294.0	997.4	121.37	1.9722	1.675
36.25	1294.2	997.6	121.36	1.9655	1.675
36.50	1294.4	997.8	121.36	1.9589	1.675
36.75	1294.6	998.0	121.36	1.9524	1.676
37.00	1294.8	998.2	121.34	1.9459	1.676
37.25	1294.9	998.3	121.34	1.9396	1.677
37.50	1295.1	998.5	121.34	1.9333	1.677
37.75	1295.3	998.7	121.35	1.9272	1.678
38.00	1295.5	998.9	121.34	1.9211	1.678
38.25	1295.6	999.0	121.33	1.9150	1.679
38.50	1295.8	999.2	121.33	1.9091	1.679
38.75	1296.0	999.4	121.32	1.9032	1.680
39.00	1296.2	999.6	121.32	1.8974	1.680
39.25	1296.3	999.7	121.32	1.8917	1.680
39.50	1296.5	999.9	121.32	1.8861	1.681
39.75	1296.6	1000.0	121.32	1.8805	1.681
40.00	1296.8	1000.2	121.32	1.8750	1.682
40.25	1297.0	1000.4	121.31	1.8696	1.682
40.50	1297.1	1000.5	121.31	1.8642	1.683
40.75	1297.3	1000.7	121.32	1.8589	1.683
41.00	1297.4	1000.8	121.31	1.8537	1.683
41.25	1297.6	1001.0	121.31	1.8485	1.684
41.50	1297.7	1001.1	121.30	1.8434	1.684
41.75	1297.9	1001.3	121.31	1.8383	1.685
42.00	1298.0	1001.4	121.31	1.8333	1.685
42.25	1298.2	1001.6	121.31	1.8284	1.685
42.50	1298.3	1001.7	121.29	1.8235	1.686
42.75	1298.5	1001.9	121.29	1.8187	1.686
43.00	1298.7	1002.1	121.28	1.8140	1.687
43.25	1298.8	1002.2	121.29	1.8092	1.687
43.50	1298.9	1002.3	121.29	1.8046	1.687
43.75	1299.1	1002.5	121.29	1.8000	1.688
44.00	1299.2	1002.6	121.29	1.7955	1.688
44.25	1299.4	1002.8	121.29	1.7910	1.688
44.50	1299.5	1002.9	121.29	1.7865	1.689
44.75	1299.7	1003.1	121.28	1.7821	1.689
45.00	1299.8	1003.2	121.28	1.7778	1.690
45.25	1299.9	1003.3	121.28	1.7735	1.690
45.50	1300.1	1003.5	121.28	1.7692	1.690
45.75	1300.2	1003.6	121.28	1.7650	1.691
46.00	1300.3	1003.7	121.29	1.7609	1.691
46.25	1300.5	1003.9	121.28	1.7568	1.691
46.50	1300.6	1004.0	121.28	1.7527	1.692
46.75	1300.7	1004.1	121.28	1.7487	1.692
47.00	1300.9	1004.3	121.28	1.7447	1.692
47.25	1301.0	1004.4	121.28	1.7407	1.693
47.50	1301.1	1004.5	121.28	1.7368	1.693
47.75	1301.2	1004.6	121.28	1.7330	1.693
48.00	1301.4	1004.8	121.27	1.7292	1.694

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/20/98 TIME: 00:42:32

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
48.25	1301.5	1004.9	121.28	1.7254	1.694
48.50	1301.7	1005.0	121.29	1.7216	1.694
48.75	1301.8	1005.2	121.28	1.7179	1.695
49.00	1301.9	1005.3	121.28	1.7143	1.695
49.25	1302.0	1005.4	121.28	1.7107	1.695
49.50	1302.1	1005.5	121.27	1.7071	1.696
49.75	1302.3	1005.7	121.27	1.7035	1.696
50.00	1302.4	1005.8	121.27	1.7000	1.696
50.25	1302.5	1005.9	121.27	1.6965	1.697
50.50	1302.6	1006.0	121.27	1.6931	1.697
50.75	1302.7	1006.1	121.27	1.6897	1.697
51.00	1302.9	1006.2	121.27	1.6863	1.697
51.25	1303.0	1006.4	121.26	1.6829	1.698
51.50	1303.1	1006.5	121.27	1.6796	1.698
51.75	1303.2	1006.6	121.27	1.6763	1.698
52.00	1303.3	1006.7	121.27	1.6731	1.699
52.25	1303.5	1006.8	121.27	1.6699	1.699
52.50	1303.6	1006.9	121.26	1.6667	1.699
52.75	1303.7	1007.1	121.26	1.6635	1.700
53.00	1303.8	1007.2	121.26	1.6604	1.700
53.25	1303.9	1007.3	121.26	1.6573	1.700
53.50	1304.0	1007.4	121.26	1.6542	1.700
53.75	1304.1	1007.5	121.25	1.6512	1.701
54.00	1304.2	1007.6	121.26	1.6481	1.701
54.25	1304.3	1007.7	121.25	1.6452	1.701
54.50	1304.5	1007.9	121.25	1.6422	1.702
54.75	1304.6	1008.0	121.24	1.6393	1.702
55.00	1304.7	1008.1	121.25	1.6364	1.702
55.25	1304.8	1008.2	121.23	1.6335	1.702
55.50	1304.9	1008.3	121.25	1.6306	1.703
55.75	1305.0	1008.4	121.23	1.6278	1.703
56.00	1305.1	1008.5	121.25	1.6250	1.703
56.25	1305.2	1008.6	121.24	1.6222	1.704
56.50	1305.3	1008.7	121.23	1.6195	1.704
56.75	1305.4	1008.8	121.24	1.6167	1.704
57.00	1305.5	1008.9	121.23	1.6140	1.704
57.25	1305.6	1009.0	121.22	1.6114	1.705
57.50	1305.7	1009.1	121.22	1.6087	1.705
57.75	1305.8	1009.2	121.21	1.6061	1.705
58.00	1305.9	1009.3	121.22	1.6034	1.705
58.25	1306.0	1009.4	121.21	1.6009	1.706
58.50	1306.1	1009.5	121.21	1.5983	1.706
58.75	1306.2	1009.6	121.20	1.5957	1.706
59.00	1306.3	1009.7	121.21	1.5932	1.706
59.25	1306.4	1009.8	121.19	1.5907	1.707
59.50	1306.5	1009.9	121.21	1.5882	1.707
59.75	1306.6	1010.0	121.18	1.5858	1.707
60.00	1306.7	1010.1	121.19	1.5833	1.707
60.25	1306.8	1010.2	121.18	1.5809	1.708
60.50	1306.9	1010.3	121.17	1.5785	1.708
60.75	1307.0	1010.4	121.17	1.5761	1.708

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/20/98 TIME: 00:42:32

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
61.00	1307.1	1010.5	121.16	1.5738	1.708
61.25	1307.2	1010.6	121.16	1.5714	1.709
61.50	1307.3	1010.7	121.16	1.5691	1.709
61.75	1307.4	1010.8	121.14	1.5668	1.709
62.00	1307.4	1010.8	121.14	1.5645	1.709
62.25	1307.5	1010.9	121.14	1.5622	1.710
62.50	1307.6	1011.0	121.13	1.5600	1.710
62.75	1307.7	1011.1	121.12	1.5578	1.710
63.00	1307.8	1011.2	121.13	1.5556	1.710
63.25	1307.9	1011.3	121.12	1.5534	1.711
63.50	1308.0	1011.4	121.11	1.5512	1.711
63.75	1308.1	1011.5	121.10	1.5490	1.711
64.00	1308.2	1011.6	121.11	1.5469	1.711
64.25	1308.2	1011.6	121.10	1.5447	1.711
64.50	1308.3	1011.7	121.09	1.5426	1.712
64.75	1308.4	1011.8	121.09	1.5405	1.712
65.00	1308.5	1011.9	121.08	1.5385	1.712
65.25	1308.6	1012.0	121.08	1.5364	1.712
65.50	1308.7	1012.1	121.08	1.5344	1.713
65.75	1308.8	1012.2	121.07	1.5323	1.713
66.00	1308.8	1012.2	121.06	1.5303	1.713
66.25	1308.9	1012.3	121.07	1.5283	1.713
66.50	1309.0	1012.4	121.06	1.5263	1.713
66.75	1309.1	1012.5	121.06	1.5243	1.714
67.00	1309.2	1012.6	121.05	1.5224	1.714
67.25	1309.2	1012.6	121.04	1.5204	1.714
67.50	1309.3	1012.7	121.05	1.5185	1.714
67.75	1309.4	1012.8	121.03	1.5166	1.714
68.00	1309.5	1012.9	121.02	1.5147	1.715
68.25	1309.6	1013.0	121.03	1.5128	1.715
68.50	1309.6	1013.0	121.02	1.5109	1.715
68.75	1309.7	1013.1	121.01	1.5091	1.715
69.00	1309.8	1013.2	121.01	1.5072	1.716
69.25	1309.9	1013.3	121.01	1.5054	1.716
69.50	1310.0	1013.4	121.01	1.5036	1.716
69.75	1310.0	1013.4	121.00	1.5018	1.716
70.00	1310.1	1013.5	121.00	1.5000	1.716
70.25	1310.2	1013.6	120.99	1.4982	1.717
70.50	1310.3	1013.7	120.98	1.4965	1.717
70.75	1310.3	1013.7	120.99	1.4947	1.717
71.00	1310.4	1013.8	120.98	1.4930	1.717
71.25	1310.5	1013.9	120.98	1.4912	1.717
71.50	1310.6	1014.0	120.97	1.4895	1.718
71.75	1310.6	1014.0	120.97	1.4878	1.718
72.00	1310.7	1014.1	120.96	1.4861	1.718
72.25	1310.8	1014.2	120.96	1.4844	1.718
72.50	1310.9	1014.3	120.96	1.4828	1.718
72.75	1310.9	1014.3	120.96	1.4811	1.719
73.00	1311.0	1014.4	120.95	1.4795	1.719
73.25	1311.1	1014.5	120.95	1.4778	1.719
73.50	1311.1	1014.5	120.95	1.4762	1.719

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.  
 DATE: 01/20/98 TIME: 00:42:32

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
73.75	1311.2	1014.6	120.95	1.4746	1.719
74.00	1311.3	1014.7	120.95	1.4730	1.719
74.25	1311.3	1014.7	120.94	1.4714	1.720
74.50	1311.4	1014.8	120.95	1.4698	1.720
74.75	1311.5	1014.9	120.94	1.4682	1.720
75.00	1311.6	1015.0	120.93	1.4667	1.720
75.25	1311.6	1015.0	120.93	1.4651	1.720
75.50	1311.7	1015.1	120.93	1.4636	1.721
75.75	1311.8	1015.2	120.93	1.4620	1.721
76.00	1311.8	1015.2	120.92	1.4605	1.721
76.25	1311.9	1015.3	120.91	1.4590	1.721
76.50	1312.0	1015.4	120.92	1.4575	1.721
76.75	1312.1	1015.5	120.91	1.4560	1.722
77.00	1312.1	1015.5	120.91	1.4545	1.722
77.25	1312.2	1015.6	120.90	1.4531	1.722
77.50	1312.2	1015.6	120.91	1.4516	1.722
77.75	1312.3	1015.7	120.91	1.4502	1.722
78.00	1312.4	1015.8	120.90	1.4487	1.722
78.25	1312.4	1015.8	120.90	1.4473	1.723
78.50	1312.5	1015.9	120.89	1.4459	1.723
78.75	1312.6	1016.0	120.89	1.4444	1.723
79.00	1312.6	1016.0	120.90	1.4430	1.723
79.25	1312.7	1016.1	120.89	1.4416	1.723
79.50	1312.8	1016.2	120.89	1.4403	1.723
79.75	1312.9	1016.3	120.89	1.4389	1.724
80.00	1312.9	1016.3	120.89	1.4375	1.724
80.25	1313.0	1016.4	120.89	1.4361	1.724
80.50	1313.0	1016.4	120.88	1.4348	1.724
80.75	1313.1	1016.5	120.88	1.4334	1.724
81.00	1313.1	1016.5	120.87	1.4321	1.724
81.25	1313.2	1016.6	120.87	1.4308	1.725
81.50	1313.3	1016.7	120.87	1.4294	1.725
81.75	1313.4	1016.8	120.87	1.4281	1.725
82.00	1313.4	1016.8	120.87	1.4268	1.725
82.25	1313.5	1016.9	120.86	1.4255	1.725
82.50	1313.5	1016.9	120.86	1.4242	1.725
82.75	1313.6	1017.0	120.86	1.4230	1.726
83.00	1313.6	1017.0	120.86	1.4217	1.726
83.25	1313.7	1017.1	120.85	1.4204	1.726
83.50	1313.8	1017.2	120.85	1.4192	1.726
83.75	1313.9	1017.3	120.85	1.4179	1.726
84.00	1313.9	1017.3	120.85	1.4167	1.726
84.25	1314.0	1017.4	120.85	1.4154	1.727
84.50	1314.0	1017.4	120.85	1.4142	1.727
84.75	1314.1	1017.5	120.86	1.4130	1.727
85.00	1314.1	1017.5	120.83	1.4118	1.727
85.25	1314.2	1017.6	120.85	1.4106	1.727
85.50	1314.3	1017.7	120.83	1.4094	1.727
85.75	1314.3	1017.7	120.83	1.4082	1.728
86.00	1314.4	1017.8	120.84	1.4070	1.728
86.25	1314.4	1017.8	120.83	1.4058	1.728

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10821 D.S.T.#1 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/20/98 TIME: 00:42:32

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	86.50	1314.5	1017.9	120.83	1.4046	1.728
	86.75	1314.5	1017.9	120.84	1.4035	1.728
	87.00	1314.6	1018.0	120.83	1.4023	1.728
	87.25	1314.7	1018.1	120.83	1.4011	1.728
	87.50	1314.7	1018.1	120.82	1.4000	1.729
	87.75	1314.8	1018.2	120.82	1.3989	1.729
	88.00	1314.8	1018.2	120.81	1.3977	1.729
	88.25	1314.9	1018.3	120.82	1.3966	1.729
	88.50	1314.9	1018.3	120.81	1.3955	1.729
	88.75	1315.0	1018.4	120.81	1.3944	1.729
	89.00	1315.1	1018.5	120.81	1.3933	1.729
	89.25	1315.1	1018.5	120.80	1.3922	1.730
	89.50	1315.2	1018.6	120.80	1.3911	1.730
	89.75	1315.2	1018.6	120.80	1.3900	1.730
	90.00	1315.3	1018.7	120.80	1.3889	1.730
	90.25	1315.3	1018.7	120.79	1.3878	1.730
	90.50	1315.4	1018.8	120.79	1.3867	1.730
	90.75	1315.4	1018.8	120.78	1.3857	1.730
	91.00	1315.5	1018.9	120.79	1.3846	1.730
	91.25	1315.5	1018.9	120.78	1.3836	1.731
	91.50	1315.6	1019.0	120.78	1.3825	1.731
	91.75	1315.7	1019.1	120.77	1.3815	1.731
	92.00	1315.7	1019.1	120.78	1.3804	1.731
	92.25	1314.8	1018.2	120.76	1.3794	1.729
	92.50	1315.6	1019.0	120.77	1.3784	1.731
	92.75	1315.8	1019.2	120.76	1.3774	1.731
	93.00	1315.8	1019.2	120.77	1.3763	1.731
	93.25	1315.9	1019.3	120.77	1.3753	1.732
	93.50	1315.9	1019.3	120.76	1.3743	1.732
	93.75	1316.0	1019.4	120.76	1.3733	1.732
***** End Shut-in 2	94.00	1306.7	1010.1	120.76	1.3723	1.708
***** Final Hydro.	296.00	2194.2	0.0	119.43		



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 10821

Well Name & No. <u>Jessie "5" #3</u>		Test No. <u>1</u>	Date <u>1-20-98</u>
Company <u>Quingue Oper. Co.</u>		Zone Tested <u>K.C. "B"</u>	
Address <u>P.O. Box 2738 Liberal KS 67905</u>		Elevation <u>2534</u> KB <u>2522</u> GL	
Co. Rep / Geo. <u>Gary Wilkens</u>		Cont. <u>Bendora Rig 4</u>	Est. Ft. of Pay <u>4</u> Por. <u>16</u> %
Location: Sec. <u>4</u>	Twp. <u>35 S.</u>	Rge. <u>30 W.</u>	Co. <u>Moore</u> State <u>Ks.</u>
No. of Copies <u>Req.</u> Distribution Sheet (Y, N) <u>N</u>		Turnkey (Y, N) <u>Y</u>	Evaluation (Y, N) _____

Interval Tested <u>4726-4736</u>	Initial Str Wt./Lbs. <u>86,000</u>	Unseated Str Wt./Lbs. <u>90,000</u>
Anchor Length <u>10</u>	Wt. Set Lbs. <u>22,000</u>	Wt. Pulled Loose/Lbs. <u>20,000</u>
Top Packer Depth <u>4721</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>4726</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>4736</u>	Wt. Pipe Run _____	Drill Collar Run <u>623</u>
Mud Wt. <u>9.1</u> LCM <u>3#</u> Vis. <u>50</u> WL <u>10.0</u>	Drill Pipe Size <u>4 1/2" x 11.75"</u>	Ft. Run <u>4076</u> <u>5' up</u>

Blow Description Strong ORB immed. BTS in 5 min. TFP "Slid Tool 5"  
No blow-back T.S. T.P.  
See Flow Chart F.F.P.  
Strong ORB blow-back FSTP

Recovery — Total Feet <u>730</u>	GIP <u>3,969</u>	Ft. in DC <u>623</u>	Ft. in DP <u>107</u>
Rec. <u>90</u> Feet Of <u>Slit. OHG cut Mud</u>	<u>5</u> %gas	<u>5</u> %oil	%water <u>90</u> %mud
Rec. <u>135</u> Feet Of <u>Gassy w/lt. unseamed oil</u>	<u>4</u> %gas	%oil	<u>96</u> %water %mud
Rec. <u>505</u> Feet Of <u>Gassy Salt Wt.</u>	<u>4</u> %gas	%oil	<u>96</u> %water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud

BHT 121 °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW 0.09 @ 50 °F Chlorides 125,000 ppm Recovery Chlorides 4,200 ppm System

(A) Initial Hydrostatic Mud <u>2262</u> <u>2241</u> PSI	Recorder No. <u>3017 "00=42"</u>	T-Started <u>1:00 A.M.</u>
(B) First Initial Flow Pressure <u>18</u> <u>189</u> PSI	(depth) <u>4728</u>	T-Open <u>2:55 A.M.</u>
(C) First Final Flow Pressure <u>221</u> <u>180</u> PSI	Recorder No. <u>13630</u>	T-Pulled <u>5:30 A.M.</u>
(D) Initial Shut-in Pressure <u>1289</u> <u>1321</u> PSI	(depth) <u>4716</u>	T-Out <u>9:00 A.M.</u>
(E) Second Initial Flow Pressure <u>230</u> <u>255</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>319</u> <u>296</u> PSI	(depth) _____	
(G) Final Shut-in Pressure <u>1298</u> <u>1306</u> PSI	Initial Opening <u>5</u>	Test <input checked="" type="checkbox"/>
(H) Final Hydrostatic Mud <u>2241</u> <u>2194</u> PSI	Initial Shut-in <u>30</u>	Jars <input checked="" type="checkbox"/>

12080042.017

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By *Gary Wilkens*

Final Flow 30 Safety Joint   
 Final Shut-in 90 Straddle \_\_\_\_\_  
 Circ. Sub   
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Elect. Rec   
 Other \_\_\_\_\_

TRILOBITE TESTING L.L.C.

OPERATOR : Quinque Oper.Co. DATE 1-22-98  
 WELL NAME: Jessie "S" #3 KB 2534.00 ft TICKET NO: 10822 DST #2  
 LOCATION : 4-35s-30w CO Meade KS GR 2522.00 ft FORMATION: K.C. "A"  
 INTERVAL : 4712.00 To 4729.00 ft TD 5380.00 ft TEST TYPE: CONV.-STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 10 Rec.	10242	10242	Alpine			PF Fr. 1050 to 1100 hr
SI 30 Range(Psi )	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 1100 to 1130 hr
SF 45 Clock(hrs)	12 Hr	12 Hr	24 Hr			SF Fr. 1130 to 1215 hr
FS 90 Depth(ft )	4723.0	4723.0	4714.0	0.0	0.0	FS Fr. 1215 to 1345 hr

	Field	1	2	3	4
A. Init Hydro	2305.0	2311.0	2260.0	0.0	0.0
B. First Flow	58.0	73.0	25.0	0.0	0.0
B1. Final Flow	58.0	70.0	31.0	0.0	0.0
C. In Shut-in	0.0	0.0	0.0	0.0	0.0
D. Init Flow	72.0	105.0	44.0	0.0	0.0
E. Final Flow	72.0	91.0	58.0	0.0	0.0
F. Fl Shut-in	967.0	989.0	939.0	0.0	0.0
G. Final Hydro	2275.0	2278.0	2220.0	0.0	0.0
Inside/Outside	0	0	I		

T STARTED 0850 hr  
 T ON BOTM 1047 hr  
 T OPEN 1050 hr  
 T PULLED 1345 hr  
 T OUT 1630 hr

TOOL DATA-----

Tool Wt. 2300.00 lbs  
 Wt Set On Packer 30000.00 lbs  
 Wt Pulled Loose 30000.00 lbs  
 Initial Str Wt 70000.00 lbs  
 Unseated Str Wt 74000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.78 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.80 in  
 D.C. Length 358.00 ft  
 D.P. Length 4354.00 ft

RECOVERY

Tot Fluid 90.00 ft of 90.00 ft in DC and 0.00 ft in DP  
 1370.00 ft of Gas in pipe  
 90.00 ft of Slight gas cut mud with show of oil  
 0.00 ft of 3% gas 97% mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

SALINITY 4050.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type Chemical  
 Weight 9.10 lb/cf  
 Vis. 50.00 S/L  
 W.L. 9.20 in3  
 F.C. 0.00 in  
 Mud Drop Y 30.0 ft  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 114.00 F  
 Hole Condition Good  
 % Porosity 18.00  
 Packer Size 6.75 in  
 No. of Packers 3  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out N  
 Tool Chased N  
 Tester Lanny Saloga  
 Co. Rep. Gary Wilkens  
 Contr. Beredco  
 Rig # 4  
 Unit #  
 Pump T.

BLOW DESCRIPTION

Strong, OBB in 1 min. I.F.P.  
 No blow-back. I.S.I.P.  
 Hook slid 1' on I.S.I.P.  
 Weak 2", built to strong OBB in 7 min.  
 F.F.P.  
 1" blowback. F.S.I.P.

SAMPLES: None  
 SENT TO:

Test Successful: Y





# TEST HISTORY

10822 D.S.T.#2 Jessie "S" #3 Quinque Oper. Co.

Flag Points

t(Min.) P( PSI)

A:	0.00	2260.31
B:	0.00	25.29
C:	10.00	31.88
D:	5.00	2223.22
E:	0.00	44.82
F:	44.00	58.60
G:	93.50	939.82
Q:	0.00	2220.76

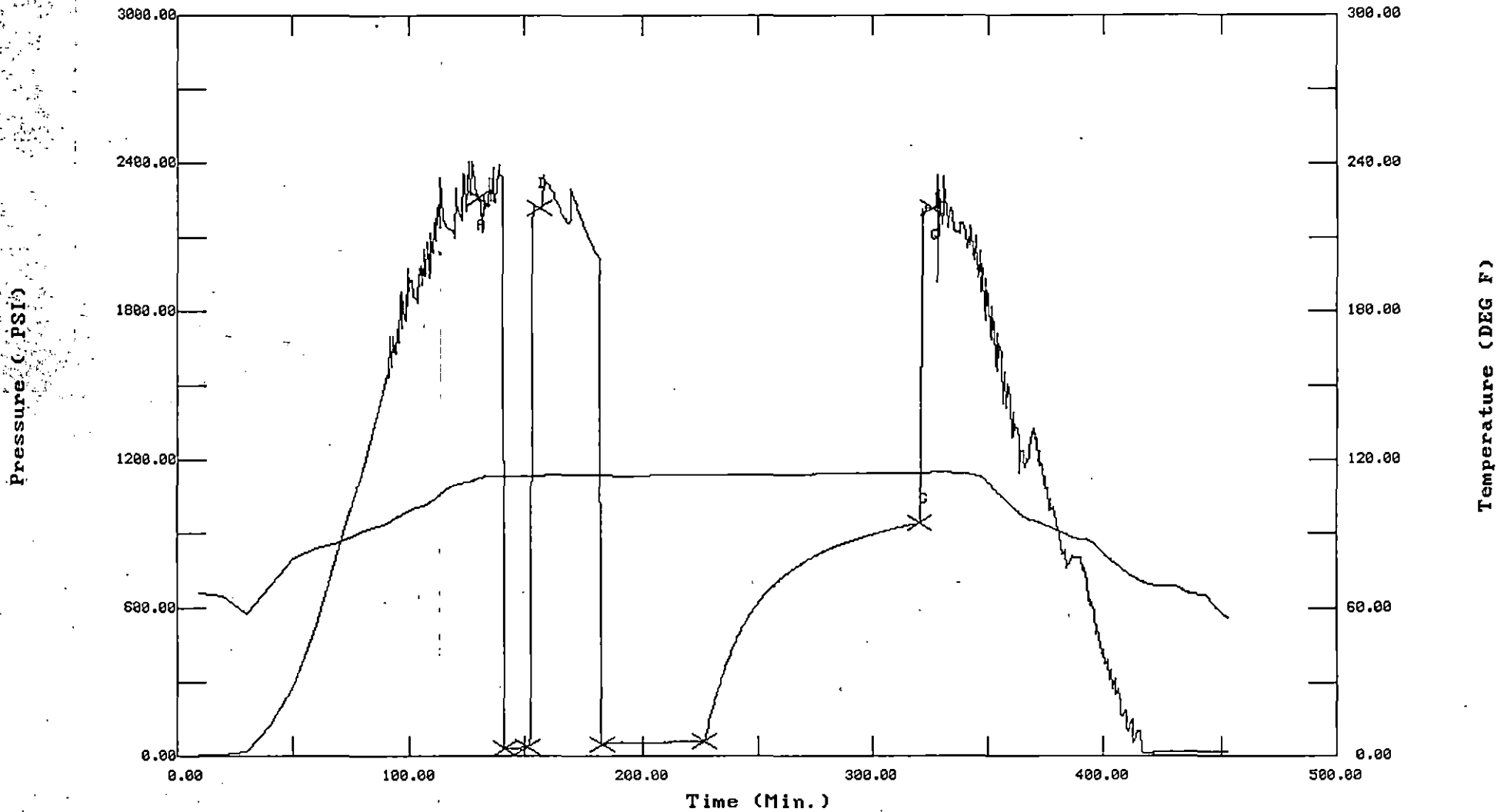
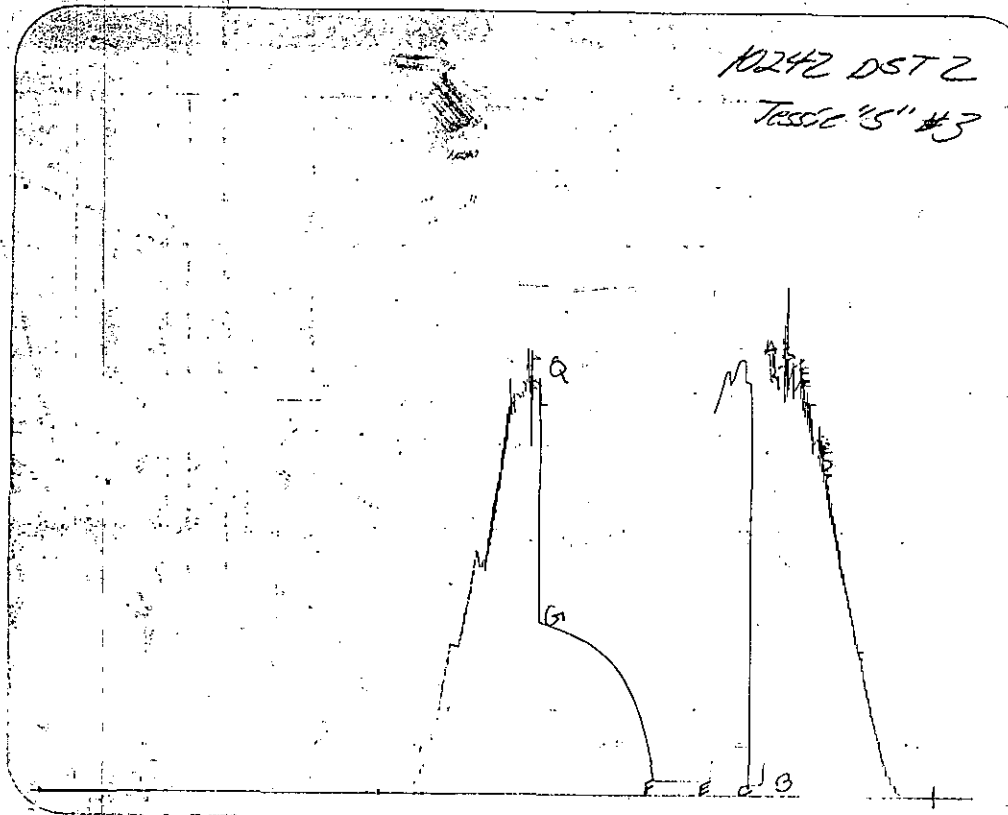
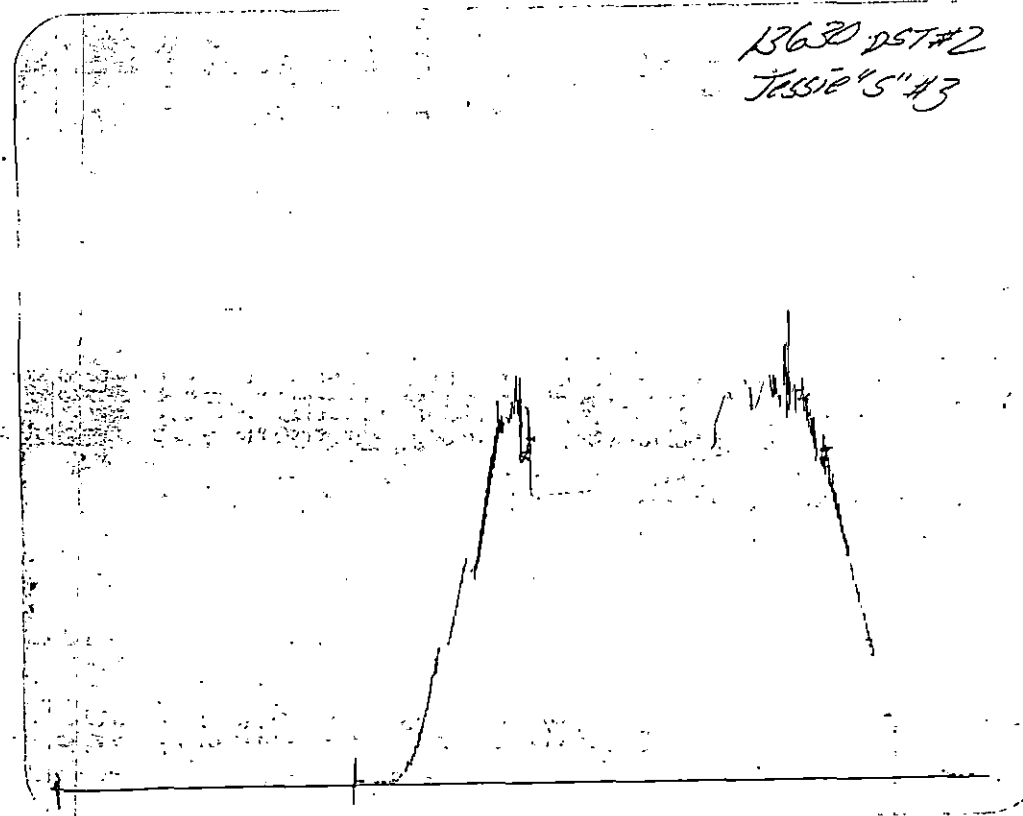


CHART PAGE



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

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10822 D.S.T.#2 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/22/98 TIME: 08:25:41

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	130.00	2260.3	0.0	112.63		
***** Start Flow 1	0.00	25.3	0.0	113.59		
	0.50	26.2	0.9	113.57		
	1.00	26.8	1.5	113.54		
	1.50	26.5	1.2	113.49		
	2.00	27.3	2.0	113.46		
	2.50	27.8	2.5	113.42		
	3.00	28.3	3.0	113.39		
	3.50	28.8	3.5	113.37		
	4.00	29.2	3.9	113.34		
	4.50	29.5	4.2	113.33		
	5.00	29.6	4.3	113.30		
	5.50	30.1	4.8	113.30		
	6.00	30.3	5.0	113.28		
	6.50	30.5	5.2	113.27		
	7.00	30.7	5.4	113.26		
	7.50	30.9	5.6	113.26		
	8.00	31.2	5.9	113.25		
	8.50	31.2	5.9	113.25		
	9.00	31.4	6.1	113.24		
	9.50	31.6	6.3	113.24		
***** End Flow 1	10.00	31.9	6.6	113.24		
***** Start Shutin 1	0.00	31.9	0.0	113.24	0.0000	0.001
	0.50	54.3	22.4	113.24	21.0000	0.003
	1.00	79.5	47.6	113.24	11.0000	0.006
	1.50	2140.6	2108.7	113.27	7.6667	4.582
	2.00	2148.1	2116.2	113.20	6.0000	4.614
	2.50	2230.5	2198.6	113.22	5.0000	4.975
	3.00	2224.6	2192.8	113.27	4.3333	4.949
	3.50	2223.6	2191.7	113.32	3.8571	4.944
	4.00	2224.3	2192.5	113.37	3.5000	4.948
	4.50	2223.8	2191.9	113.42	3.2222	4.945
***** End Shut-in 1	5.00	2223.2	2191.3	113.47	3.0000	4.943
***** Start Flow 2	0.00	44.8	0.0	113.84		
	0.50	51.7	6.8	113.81		
	1.00	47.1	2.3	113.78		
	1.50	46.4	1.6	113.75		
	2.00	50.4	5.6	113.72		
	2.50	49.0	4.2	113.70		
	3.00	51.6	6.8	113.67		
	3.50	52.4	7.6	113.65		
	4.00	49.9	5.1	113.62		
	4.50	49.5	4.7	113.61		
	5.00	49.4	4.6	113.59		
	5.50	52.0	7.1	113.58		
	6.00	51.8	6.9	113.57		
	6.50	50.4	5.5	113.57		
	7.00	50.0	5.2	113.56		
	7.50	50.8	6.0	113.55		
	8.00	60.0	15.2	113.55		
	8.50	50.8	6.0	113.55		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10822 D.S.T.#2 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/22/98 TIME: 08:25:41

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
9.00	50.4	5.6	113.55		
9.50	50.0	5.1	113.54		
10.00	50.7	5.9	113.54		
10.50	51.1	6.3	113.54		
11.00	52.1	7.3	113.55		
11.50	50.6	5.8	113.55		
12.00	51.2	6.4	113.55		
12.50	51.8	6.9	113.55		
13.00	51.3	6.5	113.56		
13.50	51.6	6.7	113.56		
14.00	51.6	6.8	113.57		
14.50	52.1	7.3	113.57		
15.00	52.8	8.0	113.58		
15.50	52.5	7.7	113.57		
16.00	52.3	7.5	113.58		
16.50	52.0	7.2	113.58		
17.00	52.0	7.2	113.58		
17.50	53.0	8.2	113.58		
18.00	52.7	7.9	113.60		
18.50	52.8	8.0	113.59		
19.00	52.8	8.0	113.60		
19.50	52.5	7.7	113.60		
20.00	52.0	7.1	113.61		
20.50	53.0	8.2	113.62		
21.00	52.4	7.6	113.62		
21.50	53.6	8.7	113.62		
22.00	53.2	8.4	113.63		
22.50	53.6	8.7	113.63		
23.00	53.1	8.3	113.64		
23.50	53.4	8.6	113.64		
24.00	53.5	8.7	113.64		
24.50	53.5	8.7	113.65		
25.00	53.8	9.0	113.64		
25.50	53.3	8.5	113.65		
26.00	54.3	9.5	113.66		
26.50	55.0	10.1	113.66		
27.00	54.2	9.4	113.67		
27.50	54.6	9.7	113.67		
28.00	54.6	9.8	113.68		
28.50	55.2	10.4	113.67		
29.00	54.1	9.3	113.67		
29.50	54.7	9.9	113.68		
30.00	55.0	10.2	113.68		
30.50	55.0	10.2	113.68		
31.00	55.3	10.5	113.68		
31.50	55.4	10.6	113.68		
32.00	55.6	10.7	113.69		
32.50	55.9	11.0	113.70		
33.00	55.3	10.5	113.71		
33.50	55.6	10.8	113.71		
34.00	56.1	11.3	113.72		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10822 D.S.T.#2 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/22/98 TIME: 08:25:41

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	34.50	56.2	11.4	113.71		
	35.00	55.9	11.0	113.72		
	35.50	56.3	11.5	113.71		
	36.00	56.7	11.9	113.72		
	36.50	56.6	11.7	113.72		
	37.00	57.3	12.5	113.72		
	37.50	56.6	11.7	113.72		
	38.00	57.6	12.8	113.73		
	38.50	57.0	12.2	113.73		
	39.00	57.7	12.9	113.74		
	39.50	57.2	12.4	113.75		
	40.00	57.5	12.7	113.75		
	40.50	58.0	13.2	113.75		
	41.00	58.2	13.4	113.76		
	41.50	57.7	12.8	113.75		
	42.00	57.9	13.1	113.76		
	42.50	57.9	13.1	113.76		
	43.00	58.0	13.2	113.77		
	43.50	58.3	13.5	113.77		
***** End Flow 2	44.00	58.6	13.8	113.77		
***** Start Shutin 2	0.00	58.6	0.0	113.77	0.0000	0.003
	0.50	79.4	20.8	113.78	109.0000	0.006
	1.00	100.9	42.3	113.78	55.0000	0.010
	1.50	121.9	63.3	113.78	37.0000	0.015
	2.00	142.1	83.5	113.78	28.0000	0.020
	2.50	161.6	103.0	113.79	22.6000	0.026
	3.00	180.7	122.1	113.79	19.0000	0.033
	3.50	199.0	140.4	113.80	16.4286	0.040
	4.00	216.9	158.3	113.80	14.5000	0.047
	4.50	234.3	175.7	113.81	13.0000	0.055
	5.00	251.2	192.6	113.81	11.8000	0.063
	5.50	267.5	208.9	113.83	10.8182	0.072
	6.00	283.4	224.8	113.83	10.0000	0.080
	6.50	298.8	240.2	113.83	9.3077	0.089
	7.00	313.8	255.2	113.84	8.7143	0.098
	7.50	328.3	269.7	113.85	8.2000	0.108
	8.00	342.3	283.7	113.85	7.7500	0.117
	8.50	356.0	297.4	113.87	7.3529	0.127
	9.00	369.3	310.7	113.86	7.0000	0.136
	9.50	382.0	323.4	113.87	6.6842	0.146
	10.00	394.5	335.9	113.87	6.4000	0.156
	10.50	406.6	348.0	113.88	6.1429	0.165
	11.00	418.3	359.7	113.90	5.9091	0.175
	11.50	429.7	371.1	113.90	5.6957	0.185
	12.00	440.7	382.1	113.91	5.5000	0.194
	12.50	451.4	392.8	113.91	5.3200	0.204
	13.00	461.8	403.2	113.92	5.1538	0.213
	13.50	471.8	413.2	113.92	5.0000	0.223
	14.00	481.6	423.0	113.93	4.8571	0.232
	14.50	491.0	432.4	113.94	4.7241	0.241
	15.00	500.4	441.8	113.94	4.6000	0.250

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10822 D.S.T.#2 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/22/98 TIME: 08:25:41

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
15.50	509.3	450.7	113.95	4.4839	0.259
16.00	518.0	459.4	113.95	4.3750	0.268
16.50	526.5	467.9	113.96	4.2727	0.277
17.00	534.7	476.1	113.97	4.1765	0.286
17.50	542.7	484.1	113.97	4.0857	0.295
18.00	550.5	491.9	113.98	4.0000	0.303
18.50	558.0	499.4	113.98	3.9189	0.311
19.00	565.4	506.8	113.99	3.8421	0.320
19.50	572.7	514.1	113.99	3.7692	0.328
20.00	579.7	521.1	113.99	3.7000	0.336
20.50	586.6	528.0	114.01	3.6341	0.344
21.00	593.3	534.7	114.00	3.5714	0.352
21.50	599.8	541.2	114.01	3.5116	0.360
22.00	606.2	547.6	114.02	3.4545	0.367
22.50	612.5	553.9	114.02	3.4000	0.375
23.00	618.5	559.9	114.03	3.3478	0.383
23.50	624.5	565.9	114.04	3.2979	0.390
24.00	630.3	571.7	114.04	3.2500	0.397
24.50	636.1	577.5	114.05	3.2041	0.405
25.00	641.7	583.1	114.05	3.1600	0.412
25.50	647.1	588.5	114.05	3.1176	0.419
26.00	652.5	593.9	114.05	3.0769	0.426
26.50	657.7	599.1	114.05	3.0377	0.433
27.00	662.9	604.3	114.06	3.0000	0.439
27.50	667.9	609.3	114.06	2.9636	0.446
28.00	672.7	614.1	114.07	2.9286	0.453
28.50	677.6	619.0	114.07	2.8947	0.459
29.00	682.3	623.7	114.08	2.8621	0.466
29.50	686.9	628.3	114.09	2.8305	0.472
30.00	691.4	632.8	114.09	2.8000	0.478
30.50	695.8	637.2	114.09	2.7705	0.484
31.00	700.2	641.6	114.09	2.7419	0.490
31.50	704.4	645.8	114.10	2.7143	0.496
32.00	708.6	650.0	114.10	2.6875	0.502
32.50	712.6	654.0	114.11	2.6615	0.508
33.00	716.6	658.0	114.12	2.6364	0.514
33.50	720.6	662.0	114.11	2.6119	0.519
34.00	724.4	665.8	114.12	2.5882	0.525
34.50	728.2	669.6	114.12	2.5652	0.530
35.00	731.9	673.3	114.13	2.5429	0.536
35.50	735.5	676.9	114.13	2.5211	0.541
36.00	739.2	680.6	114.13	2.5000	0.546
36.50	742.7	684.1	114.15	2.4795	0.552
37.00	746.1	687.5	114.15	2.4595	0.557
37.50	749.5	690.9	114.15	2.4400	0.562
38.00	752.8	694.2	114.15	2.4211	0.567
38.50	756.1	697.5	114.16	2.4026	0.572
39.00	759.3	700.7	114.16	2.3846	0.577
39.50	762.4	703.8	114.15	2.3671	0.581
40.00	765.6	707.0	114.16	2.3500	0.586
40.50	768.6	710.0	114.17	2.3333	0.591



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10822 D.S.T.#2 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/22/98 TIME: 08:25:41

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
41.00	771.6	713.0	114.17	2.3171	0.595
41.50	774.5	715.9	114.17	2.3012	0.600
42.00	777.4	718.8	114.18	2.2857	0.604
42.50	780.2	721.6	114.19	2.2706	0.609
43.00	783.0	724.4	114.18	2.2558	0.613
43.50	785.8	727.2	114.19	2.2414	0.617
44.00	788.5	729.9	114.20	2.2273	0.622
44.50	791.1	732.5	114.20	2.2135	0.626
45.00	793.8	735.2	114.20	2.2000	0.630
45.50	796.3	737.7	114.20	2.1868	0.634
46.00	798.9	740.3	114.21	2.1739	0.638
46.50	801.3	742.8	114.20	2.1613	0.642
47.00	803.8	745.2	114.22	2.1489	0.646
47.50	806.2	747.6	114.21	2.1368	0.650
48.00	808.6	750.0	114.23	2.1250	0.654
48.50	811.0	752.4	114.23	2.1134	0.658
49.00	813.2	754.6	114.24	2.1020	0.661
49.50	815.5	756.9	114.23	2.0909	0.665
50.00	817.8	759.2	114.23	2.0800	0.669
50.50	820.0	761.4	114.23	2.0693	0.672
51.00	822.2	763.6	114.23	2.0588	0.676
51.50	824.3	765.7	114.23	2.0485	0.680
52.00	826.5	767.9	114.24	2.0385	0.683
52.50	828.6	770.0	114.25	2.0286	0.687
53.00	830.7	772.1	114.25	2.0189	0.690
53.50	832.8	774.2	114.26	2.0093	0.693
54.00	834.8	776.2	114.26	2.0000	0.697
54.50	836.7	778.1	114.27	1.9908	0.700
55.00	838.7	780.1	114.26	1.9818	0.703
55.50	840.6	782.0	114.26	1.9730	0.707
56.00	842.5	783.9	114.27	1.9643	0.710
56.50	844.4	785.8	114.27	1.9558	0.713
57.00	846.2	787.6	114.27	1.9474	0.716
57.50	848.1	789.5	114.27	1.9391	0.719
58.00	849.9	791.3	114.28	1.9310	0.722
58.50	851.7	793.1	114.28	1.9231	0.725
59.00	853.5	794.9	114.28	1.9153	0.728
59.50	855.2	796.6	114.30	1.9076	0.731
60.00	856.9	798.3	114.29	1.9000	0.734
60.50	858.7	800.1	114.30	1.8926	0.737
61.00	860.4	801.8	114.30	1.8852	0.740
61.50	862.1	803.5	114.30	1.8780	0.743
62.00	863.7	805.1	114.30	1.8710	0.746
62.50	865.3	806.7	114.30	1.8640	0.749
63.00	866.9	808.3	114.31	1.8571	0.752
63.50	868.5	809.9	114.31	1.8504	0.754
64.00	870.0	811.4	114.32	1.8438	0.757
64.50	871.6	813.0	114.32	1.8372	0.760
65.00	873.1	814.5	114.32	1.8308	0.762
65.50	874.6	816.0	114.33	1.8244	0.765
66.00	876.1	817.5	114.33	1.8182	0.768

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10822 D.S.T.#2 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/22/98 TIME: 08:25:41

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
66.50	877.6	819.0	114.33	1.8120	0.770
67.00	879.1	820.5	114.33	1.8060	0.773
67.50	880.5	821.9	114.33	1.8000	0.775
68.00	881.9	823.3	114.34	1.7941	0.778
68.50	883.4	824.8	114.35	1.7883	0.780
69.00	884.7	826.1	114.34	1.7826	0.783
69.50	886.1	827.5	114.36	1.7770	0.785
70.00	887.5	828.9	114.35	1.7714	0.788
70.50	888.9	830.3	114.36	1.7660	0.790
71.00	890.2	831.6	114.36	1.7606	0.792
71.50	891.5	832.9	114.36	1.7552	0.795
72.00	892.8	834.2	114.36	1.7500	0.797
72.50	894.1	835.5	114.36	1.7448	0.799
73.00	895.4	836.8	114.36	1.7397	0.802
73.50	896.7	838.1	114.37	1.7347	0.804
74.00	898.0	839.4	114.37	1.7297	0.806
74.50	899.2	840.6	114.38	1.7248	0.809
75.00	900.4	841.8	114.38	1.7200	0.811
75.50	901.6	843.0	114.38	1.7152	0.813
76.00	902.9	844.3	114.39	1.7105	0.815
76.50	904.1	845.5	114.40	1.7059	0.817
77.00	905.3	846.7	114.40	1.7013	0.820
77.50	906.5	847.9	114.41	1.6968	0.822
78.00	907.7	849.1	114.40	1.6923	0.824
78.50	908.9	850.3	114.40	1.6879	0.826
79.00	910.0	851.4	114.41	1.6835	0.828
79.50	911.2	852.6	114.42	1.6792	0.830
80.00	912.4	853.8	114.43	1.6750	0.832
80.50	913.5	854.9	114.40	1.6708	0.834
81.00	914.6	856.0	114.42	1.6667	0.836
81.50	915.7	857.1	114.43	1.6626	0.838
82.00	916.8	858.2	114.43	1.6585	0.841
82.50	917.9	859.3	114.43	1.6545	0.843
83.00	919.0	860.4	114.43	1.6506	0.845
83.50	920.1	861.5	114.43	1.6467	0.847
84.00	921.2	862.6	114.43	1.6429	0.849
84.50	922.3	863.7	114.43	1.6391	0.851
85.00	923.3	864.7	114.43	1.6353	0.853
85.50	924.4	865.8	114.43	1.6316	0.854
86.00	925.4	866.8	114.44	1.6279	0.856
86.50	926.4	867.8	114.44	1.6243	0.858
87.00	927.5	868.9	114.44	1.6207	0.860
87.50	928.5	869.9	114.45	1.6171	0.862
88.00	929.5	870.9	114.45	1.6136	0.864
88.50	930.5	871.9	114.45	1.6102	0.866
89.00	931.5	872.9	114.46	1.6067	0.868
89.50	932.5	873.9	114.46	1.6034	0.869
90.00	933.4	874.8	114.45	1.6000	0.871
90.50	934.4	875.8	114.46	1.5967	0.873
91.00	935.3	876.7	114.45	1.5934	0.875
91.50	936.3	877.7	114.47	1.5902	0.877

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10822 D.S.T.#2 Jessie "S" #3 Quinque Oper. Co.

DATE: 01/22/98 TIME: 08:25:41

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	92.00	936.7	878.1	114.47	1.5870	0.877
	92.50	937.8	879.2	114.48	1.5838	0.879
	93.00	938.8	880.2	114.47	1.5806	0.881
***** End Shut-in 2	93.50	939.8	881.2	114.47	1.5775	0.883
***** Final Hydro.	325.50	2220.8	0.0	114.91		

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 10822

Well Name & No. <u>Jessie "5" #3</u>		Test No. <u>2</u>	Date <u>1-22-98</u>
Company <u>Quigley Oper. Co.</u>		Zone Tested <u>KoCo "A"</u>	
Address <u>P.O. Box 2738 Liberal KS 67905</u>		Elevation <u>2534</u>	KB <u>2522</u> GL
Co. Rep / Geo. <u>Gary Wilkerson</u>	Cont. <u>Brenda Rig 4</u>	Est. Ft. of Pay <u>5</u>	Por. <u>18</u> %
Location: Sec. <u>4</u>	Twp. <u>35S</u>	Rge. <u>30W</u>	Co. <u>Marion</u> State <u>Ks.</u>
No. of Copies <u>1/1 Gary</u> Req. Distribution Sheet (Y, N) <u>N</u>		Turnkey (Y, N) <u>Y</u>	Evaluation (Y, N) _____

Interval Tested <u>4712-4729</u>	Initial Str Wt./Lbs. <u>70,000</u>	Unseated Str Wt./Lbs. <u>74,000</u>
Anchor Length <u>17</u> <u>13' Tail-Pipe</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>30,000</u>
Top Packer Depth <u>4707</u>	Tool Weight <u>2,300</u>	
Bottom Packer Depth <u>4712</u> <u>Staddle P. 4729</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>5380</u> <u>Hook at 4732</u>	Wt. Pipe Run _____	Drill Collar Run <u>358</u>
Mud Wt. <u>9.1</u> LCM <u>4#</u> Vis. <u>50</u> WL <u>9.2</u>	<sup>46.12</sup> Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4354</u> <u>28' up</u>

Blow Description Strong OBB in 1 Min. F.F.P.  
No blow-back F.S.T.P. "Hook set a little 1' on ST"  
Hook 2" to Strong OBB in 7 Min. F.F.P.  
1" blow-back F.S.T.P.

Recovery — Total Feet <u>90</u>	GIP <u>1,370</u>	Ft. in DC <u>90</u>	Ft. in DP _____
Rec. <u>90</u> Feet Of <u>stick cut mud with oil</u>	<u>3%</u> gas	%oil _____	%water <u>97</u> %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____

BHT <u>114</u> °F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____
RW <u>1.7</u> @ <u>58</u> °F Chlorides <u>4,050</u> ppm	Recovery Chlorides <u>3,200</u> ppm	System _____	
(A) Initial Hydrostatic Mud <u>2305</u> <u>2260</u> PSI	Recorder No. <u>3017 "08:25"</u>	T-Started <u>8:50 A.M.</u>	
(B) First Initial Flow Pressure <u>58</u> <u>25</u> PSI	(depth) <u>4714</u>	T-Open <u>10:50 A.M.</u>	
(C) First Final Flow Pressure <u>58</u> <u>31</u> PSI	Recorder No. <u>10242</u>	T-Pulled <u>1:45 P.M.</u>	
(D) Initial Shut-in Pressure _____ PSI	(depth) <u>4723</u>	T-Out <u>16:30 P.M.</u>	
(E) Second Initial Flow Pressure <u>72</u> <u>44</u> PSI	Recorder No. <u>13630</u>		
(F) Second Final Flow Pressure <u>72</u> <u>58</u> PSI	(depth) <u>4773</u>		
(G) Final Shut-in Pressure <u>967</u> <u>939</u> PSI	Initial Opening <u>10</u>	Test <input checked="" type="checkbox"/>	
(H) Final Hydrostatic Mud <u>2275</u> <u>2220</u> PSI	Initial Shut-in <u>30</u>	Jars <input checked="" type="checkbox"/>	

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Approved By *[Signature]*

Final Flow <u>45</u>	Safety Joint <input checked="" type="checkbox"/>
Final Shut-in <u>90</u>	Straddle <input checked="" type="checkbox"/>
	Circ. Sub <input type="checkbox"/>
	Sampler _____
	Extra Packer <input checked="" type="checkbox"/>
	Elect. Rec <input checked="" type="checkbox"/>
	Other <u>Hook</u> <input checked="" type="checkbox"/>