

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

API NO. 15- 187-20845-0000 **ORIGINAL**

County Stanton

 - C - NW - SE Sec. 35 Twp. 29S Rge. 40 E/W

1980 Feet from S (circle one) Line of Section

1980 Feet from W (circle one) Line of Section

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

Lease Name Jeremiah David Well # 1-35

Field Name Little Arrow

Producing Formation N/A-Dry

Elevation: Ground 3258.69' KB 3272'

Total Depth 5770' PBTD 2900'

Amount of Surface Pipe Set and Cemented at 1736 Feet

Multiple Stage Cementing Collar Used? Yes No X

If yes, show depth set Feet

If Alternate II completion, cement circulated from
feet depth to w/ sx cmt.

Drilling Fluid Management Plan ALT 1 8/27 1-23-97
(Data must be collected from the Reserve Ppt)

Chloride content 1900 ppm Fluid volume 2800 bbls

Dewatering method used Dried and Filled

Location of fluid disposal if hauled offsite: N/C

Operator Name

Lease Name License No.

 Quarter Sec. Twp. S Rng. E/W

County Docket No.

Operator: License # 5952

Name: Amoco Production Company

Address PO Box 800 Room 924

City/State/Zip Denver, CO 80201

Purchaser: N/A

Operator Contact Person: Susan R. Potts

Phone (303) 830-5323

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: Ken LeBlanc

Designate Type of Completion
X New Well Re-Entry Workover

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

If Workover:

Operator:

Well Name:

Comp. Date 'Old Total' Depth

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

7/28/96 8/14/96 8/16/96
Spud Date Date Reached TD Completion Date

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 Susan R. Potts

Title Senior Staff Assistant Date 9/13/96

Subscribed and sworn to before me this 13th day of September 19 96

Notary Public [Signature]

Date Commission Expires January 4, 1997

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Geologist Report Received

Distribution

 KCC SWD/Rep NGPA

 KGS Plug Other (Specify)

1300 BROADWAY
DENVER, CO 80201

RECEIVED
STATE CORPORATION COMMISSION

Form ACO-1 (7-91)

SEP 16 1996
9-16-96
CONSERVATION DIVISION

RELEASED
OCT 12 1996

FROM CONFIDENTIAL

SIDE TWO

INT 2007-000

Operator Name Amoco Production Company

Lease Name Jeremiah David

Well # 1-35

Sec. 35 Twp. 29S Rge. 40

East

County Stanton

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: Microlog, Complex Lithology Analysis, High Resolution Induction DFL, Spectral Density Dual Spaced Neutron II

<input checked="" type="checkbox"/> Log		Formation (Top), Depth and Datums		<input type="checkbox"/> Sample
Name	Top	Datum		
Chase	2270'	KB		
Council Grove	2556'			
Base Heebner	3737'			
Lansing	3796'			
Marmaton	4407'			
Cherokee	4588'			
Morrow	5104'			
Chester	5497'			
Ste. Genevieve	5535'			
St. Louis	5630'			

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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	12.25"	8.625"	28	1736'	Premium Plus Lite	520	2%CC+1/4#Flocele
					Premium Plus	150	2%CC+1/4#Flocele

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
N/A			

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

Date of First, Resumed Production, SWD or Inj.	Producing Method
N/A-Dry	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

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

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

METHOD OF COMPLETION: Open Hole Perf. Other (Specify)

Production Interval: Dually Comp. Commingled DRY

RECEIVED

APR 11 1980

STANTON COUNTY

CONFIDENTIAL

ORIGINAL

AMOCO PRODUCTION COMPANY
JEREMIAH DAVID 1-35
SECTION 35-T29S-T40W
STANTON COUNTY, KANSAS

15-187-20845

COMMENCED: 07-28-96
COMPLETED: 08-16-96

SURFACE CASING: 1753' OF 8 5/8" CMTD
W/530 SKS PREMIUM PLUS LITE + 2% CC + 1/4
#/SK FLOCELE. TAILED IN W/150 SKS
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE

FORMATION

DEPTH

FORMATION	DEPTH
SURFACE HOLE	0 - 1753
STONE CORRAL	1753 - 2070
LIMESTONE & SHALE	2070 - 2530
COUNCIL GROVE	2530 - 3100
LIMESTONE & SHALE	3100 - 4185
LANSING	4185 - 4355
LANSING & MARMATON	4355 - 4505
LIMESTONE & SHALE	4505 - 4795
CHEROKEE	4795 - 5095
LIMESTONE, SHALE & MORROW	5095 - 5460
LIMESTONE & SHALE	5460 - 5560
ST. GENEVIEVE & ST. LOUIS	5560 - 5668
ST. LOUIS	5668 - 5770 RTD

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OCT 12 1998

FROM CONFIDENTIAL

NOV
SEP 13
CONFIDENTIAL

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

Wray Valentine

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 20TH DAY OF AUGUST, 1996



JOLENE K. RUSSELL

Jolene K. Russell
NOTARY PUBLIC

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STATE CORPORATION COMMISSION

SEP 16 1996

KANSAS CORPORATION COMMISSION



JOB LOG HAL-2013-C

DATE _____ PAGE NO. 1

CUSTOMER: AMCO PRODUCTION WELL NO.: 1-35 LEASE: JEREMIAH DAVID JOB TYPE: 8 7/8 SURFACE TICKET NO.: 920561

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							JOB READY ORIGINAL
	5900							CONFIDENTIAL CALLED OUT FOR JOB
	1200							PUMP TRUCK ON LOCATION - RIG STILL DRILLING - SET UP PUMP TRUCK
	1300							RELEASED RIG THROUGH CUTTING 1760' OF 12 1/4" NOV. ON BOTTOM CIRCULATING
	1300							OCT 12 1998 TRIP OUT DRILL PIPE SEP 15
	1330							FROM CONFIDENTIAL START RUNNING 8 7/8 CSG + FLT EQUIP
	1410							CASING ON BOTTOM
	1445							HOOK UP 8 7/8 P/G & CIRCULATING IRON
	1615							START CIRCULATING WITH RIG PUMP HOLD SAFETY MEETING
	1625							THROUGH CIRCULATING - HOOK UP TO PUMP TRUCK
	1625							JOB PROCEDURE
	1640		190				9/260	START MIXING LEAD CMT AT 12.3 ^{LB} /GAL
	1705							START MIXING TAL CMT AT 14.8 ^{LB} /GAL
	1715		35					THROUGH MIXING CMT - SHUT DOWN
	1716		235					RELEASE PLUG - START DISPLACING
	1726							HAVE 60 DBLS D.S.P. HAVE CMT RETURNS TO SURFACE
	1730						107.0	MAX LIT PRESSURE BEFORE LANDING PLUG
								PLUG DOWN - RELEASE FLOAT
								FLOAT HLD.
								CIRCULATED (4R DBLS 130 SKS)
								THANK YOU! GAIL AGARD
								WOODY + TOM

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STATE CORPORATION COMMISSION

SEP 16 1996

CUSTOMER



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Midcontinent
Liberal, KS

BILLED ON TICKET NO. 920561

WELL DATA

FIELD _____ SEC. 35 TWP. 29 RING. 40 COUNTY. STANTON STATE KS

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD: GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE: _____ MUD TYPE _____ MUD WT. 9.6
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH 1760

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	12	28'	8 7/8"	10	1740	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-29-96</u>	DATE <u>7-29-96</u>	DATE <u>7-29-96</u>	DATE <u>7-29-96</u>
TIME <u>0800</u>	TIME <u>1215</u>	TIME <u>1640</u>	TIME <u>1715</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>INCEPT</u> <u>8 7/8</u>	<u>1</u>	<u>H</u>
GUIDE SHOE		<u>O</u>
CENTRALIZERS <u>8 7/8</u>	<u>5</u>	
BOTTOM PLUG		<u>W</u>
TOP PLUG <u>5" W</u> <u>8 7/8</u>	<u>1</u>	
HEAD <u>P/C</u> <u>8 7/8</u>	<u>1</u>	<u>C</u>
PACKER		
OTHER		<u>O</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. WOODROW</u> <u>62573</u>		
CONFIDENTIAL	<u>NUU</u>	
	<u>SEP 13</u>	
	CONFIDENTIAL	

MATERIALS

TREAT. FLUID: _____ DENSITY _____ LB/GAL. °API
DISPL. FLUID: _____ DENSITY _____ LB/GAL. °API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
SURFACTANT TYPE _____ GAL. _____ IN
NE AGENT TYPE _____ GAL. _____ IN
FLUID LOSS ADD. TYPE _____ GAL. LB. _____ IN
GELLING AGENT TYPE _____ GAL. LB. _____ IN
FRIC. RED. AGENT TYPE _____ GAL. LB. _____ IN
BREAKER TYPE _____ GAL. LB. _____ IN
BLOCKING AGENT TYPE _____ GAL. LB. _____ IN
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

RELEASED

OCT 12 1998

FROM CONFIDENTIAL

DEPARTMENT CEMENT
DESCRIPTION OF JOB CEMENT 8 7/8 SURFACE CASING
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE **X**

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD (CU.FT./SK.)	MIXED LBS./GAL.
	<u>520</u>	<u>04 LITE</u>	<u>Southwest</u>	<u>B</u>	<u>2700 1/4 FLOCC</u>	<u>7.06</u>	<u>123</u>
	<u>150</u>	<u>P1</u>	<u>"</u>	<u>B</u>	<u>2700 1/4 FLOCC</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL. GAL. _____ TYPE _____
BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL. GAL. _____ PAD: BBL. GAL. _____
AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL. GAL. _____ DISPL. BBL. GAL. 106.4
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL. GAL. 190.7 CC
HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL. GAL. 35.2 TC
ORDERED _____ AVAILABLE _____ USED _____ STATE CORPORATION COMMISSION
AVERAGE RATES IN BPM _____ RECEIVED 225.9 REMARKS _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____ **SEP 1 1996**
FEET 42 REASON SIDE JOINT

CONSERVATION DIVISION
CUSTOMER

CUSTOMER: Amco Production
LEASE: Terrence David
WELL NO.: 1-35
JOB TYPE: 8 7/8 SURF CAS



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION CUSTOMER COPY

TICKET No. 11761

FORM 1911 R-10

CUSTOMER: Amoco Production
 WELL: Jeremiah David 1-35
 DATE: 07-29-96
 PAGE: 1 OF 1

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-050	516.00265				Premium plus Cement	150		sk		12 62	1893 00
504-120					Premium Plus Lite Cement	520		sk		11 12	5782 40
504-050	516.00265					338					
506-105	516.00286					13468		lb			
506-121	516.00259					27		sk			
507-210	890.50071				Flocele 1/4"/ 670	168		lb		1 65	277 20
509-406	890.50812				Calcium Chloride 2%/ 670	12		sk		40 75	489 00
500-207					SERVICE CHARGE					1 35	951 75
500-306					MILEAGE CHARGE					1 05	1326 82
					TOTAL WEIGHT 63182						
					LOADED MILES 40						

ORIGINAL

CONFIDENTIAL

ISSUED SEP 15 1996 CONFIDENTIAL

RELEASED

OCT 12 1996

FROM CONFIDENTIAL

RECEIVED STATE COMMISSION

SEP 15 1996

CONTINUATION TOTAL 1326 82

No. B 343591



HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO: *Amoco Production*
 ADDRESS: _____
 CITY, STATE, ZIP CODE: *1-35*

CUSTOMER COPY

TICKET

No.

920561 - 4

PAGE 1 OF 2

SERVICE LOCATIONS <i>1025540 LIBERAL KS</i> <i>2025535 HUGOTON</i>	WELL/PROJECT NO. <i>1-35</i>	LEASE <i>FREEMAN DAVID</i>	COUNTY/PARISH <i>STANTON</i>	STATE <i>KS</i>	CITY/OFFSHORE LOCATION <i>WELL SITE</i>	DATE <i>7-27-76</i>	OWNER <i>SAME</i>
TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>CHEYENNE DRIG 7</i>	RIG NAME/NO.	SHIPPED VIA <i>CT</i>	DELIVERED TO	ORDER NO.	
3. WELL TYPE <i>01 OIL</i>	WELL CATEGORY <i>01 DEVELOPMENT</i>	JOB PURPOSE <i>010 - 8 5/8 SURFACE</i>	WELL PERMIT NO.	WELL LOCATION <i>LAND</i>			
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		1			MILEAGE	150	M		RT	2.99	448.50
000-119	514-00001	1			CREW MILEAGE	150	M		RT	1.60	240.00
001-016		1			PUMP CHARGE	1740	FT			1360.00	1360.00
030-018		1			5" W TOP PLUG	1	EA	8 7/8	IN	130.00	130.00
24A	815-17502	1			INSERT FLOAT	1	EA	8 5/8	IN	190.00	190.00
37	815-19414	1			FILL UP ASSY	1	EA	1.50	IN	64.00	64.00
70	806-61098	1			CENTRALIZER	5	EA	8 5/8	IN	61.00	305.00
350	870-10102	1			WORLD A	1	EA	1	LB	16.75	16.75

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OCT 12 1978

OM CONFIDENTIAL

ORIGINAL

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STATE CORPORATION COMMISSION
SEP 7 5 1976

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.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED *7-27-76* TIME SIGNED A.M. P.M.
 do do not require IPC (Instrument Protection). * Not offered

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

TYPE LOCK	DEPTH	
BEAN SIZE	SPACERS	
TYPE OF EQUALIZING SUB.	CASING PRESSURE	
TUBING SIZE	TUBING PRESSURE	WELL DEPTH
TREE CONNECTION	TYPE VALVE	

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	2754
FROM CONTINUATION PAGE(S)	98
	10720
	13474
SUB-TOTAL	
APPLICABLE TAXES WILL BE ADDED ON INVOICE	45

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) <i>Mrs S.A. Carmack</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>X</i>	HALLIBURTON OPERATOR/ENGINEER <i>J.H. [Signature]</i>	EMP # <i>62573</i>	HALLIBURTON APPROVAL
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TERMS AND CONDITIONS.

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. 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 the 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.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE;

EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.



JOB LOG HAL-2013-C

CUSTOMER Amoco Production WELL NO. 1-35 LEASE Feremiah David JOB TYPE P.T.A. TICKET NO. 106670

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								P.T.A. - plugs set @ 2900', 1780', 700'; 40', Rat & mouse holes...
	13:30							CALL OUT
	16:00							ORIG LOCATION ORIGINAL
	18:20							Safety mtg.
								1 st Plug @ 2900' w/ 100 SKS. ⁶⁰ / ₄₀ Perz w/ 6% G-1
								13 th , 1.50 yield, 7.7 water requirement.
18:45	18:58	5	10			150		pump water ahead
	19:00	3.5	28			120		pump 1 st plug cmt.
	19:06	3.5	3.5			70		pump water behind
	19:07	8	28			25		pump 9.1 %gal mud displacement. GENERAL ORIGINAL
	19:12					0		Shut down POOH to 1780' - 2 nd plug
	19:50	4	10			120		pump water ahead
	19:53	5	14			100		pump same cmt. slurry except 50 SKS #2
	19:57	3	3			60		pump water behind
	20:00	7	17			25		pump mud displacement
	20:02					0		Shut down POOH to 700' - 3 rd plug
	20:38	3	10			50		pump water ahead
	20:41	3	11			50		pump 40 SKS. same cmt. plug #3
	20:44	1	3			50		pump water behind
	20:46	1.5	4			50		pump mud disp.
	20:48					0		Shut-down - POOH to 40' - 4 th plug
								pump water ahead
	21:15		2.5			50		pump 10 SKS. same cmt plug #4
	21:17		1			50		pump water behind
	21:18					0		Shut-down
	21:44	1	6.5			0		Cmt. RAT & mouse hole 15 SKS. Rat
	21:57							10 SKS. mouse, clean dr. 11 Pipe
	21:57					0		Shut-down

22:00
 RELEASED
 OCT 12 1998
 FROM CONFIDENTIAL
 Thanks
 Porkey's Schiv
 RECEIVED
 STATE CORPORATION COMMISSION
 SEP 16 1996

TERMS AND CONDITIONS

(1295)

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. 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 the 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.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless such loss is caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, this agreement will constitute Customer's written agreement under 10 CFR Sec. 39.15 (a) that Customer shall be responsible for meeting all requirements of 10 CFR Sec. 39.15 and any other applicable laws or regulations concerning retrieval, monitoring, decontamination and abandonment, and Customer shall permit Halliburton to observe the recovery or abandonment efforts, all without risk or expense to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.

ORIGINAL
RELEASED

OCT 12 1998

FROM CONFIDENTIAL

15-187-20845

WELL NAME: Jeremiah David #1-35
COMPANY: Amoco Production Company
LOCATION: 35-29S-40W
Stanton County Kansas
DATE: 08/15/96

CONFIDENTIAL

KUU

SEP 13

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : Amoco Production Company DATE 8-15-96
 WELL NAME: Jeremiah David #1-35 KB 3258.00 ft TICKET NO: 9506 DST #1
 LOCATION : 35-29S-40W Stanton Cty KS GR 3246.00 ft FORMATION: St. Louis
 INTERVAL : 5590.00 To 5674.00 ft TD 5770.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13249	13249	2342	13754		PF Fr. 1740 to 1810 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	4000.0	0.0	IS Fr. 1810 to 1910 hr
SF 120 Clock(hrs)	12	12	Alpin	12		SF Fr. 1910 to 2110 hr
FS 120 Depth(ft)	5667.0	5667.0	5593.0	5767.0	0.0	FS Fr. 2110 to 2310 hr

	Field	1	2	3	4	
A. Init Hydro	2861.0	2830.0	2787.0	3170.0	0.0	T STARTED 1430 hr
B. First Flow	169.0	158.0	36.0	0.0	0.0	T ON BOTM 1739 hr
B1. Final Flow	169.0	158.0	54.0	0.0	0.0	T OPEN 1740 hr
C. In Shut-in	702.0	709.0	656.0	0.0	0.0	T PULLED 2310 hr
D. Init Flow	181.0	176.0	61.0	0.0	0.0	T OUT 0230 hr
E. Final Flow	181.0	179.0	117.0	0.0	0.0	
F. Fl Shut-in	725.0	720.0	685.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2593.0	2609.0	2598.0	2620.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 30000.00 lbs

RECOVERY

Tot Fluid 180.00 ft of 180.00 ft in DC and 0.00 ft in DP
 1536.00 ft of Gas in pipe
 180.00 ft of Gassy mud

Initial Str Wt 70000.00 lbs
 Unseated Str Wt 80000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 609.00 ft
 D.P. Length 5103.00 ft

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

BLOW DESCRIPTION

Initial Flow -
 Strong, bottom of bucket in 1.5 min

Initial Shutin -
 No blow back

Final Flow -
 Strong, bottom of bucket in 1 min

Final Shutin -
 No blow back

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/c
 Vis. 70.00 S/L
 W.L. 8.50 in3
 F.C. 0.00 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 145.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 3
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Dan Bangle
 Co. Rep. Sam Carmack
 Contr. Cheyenne
 Rig # 7
 Unit #
 Pump T.

Test Successful: Y

TEST HISTORY

TK#9506 DST#1 JEREMIAH DAVID #1-35 AMOCO

Flag Points

t(Min.) P(PSig)

A:	0.00	2787.40
B:	0.00	36.33
C:	26.00	53.96
D:	59.00	656.47
E:	0.00	60.67
F:	119.00	117.32
G:	118.00	684.67
Q:	0.00	2599.73

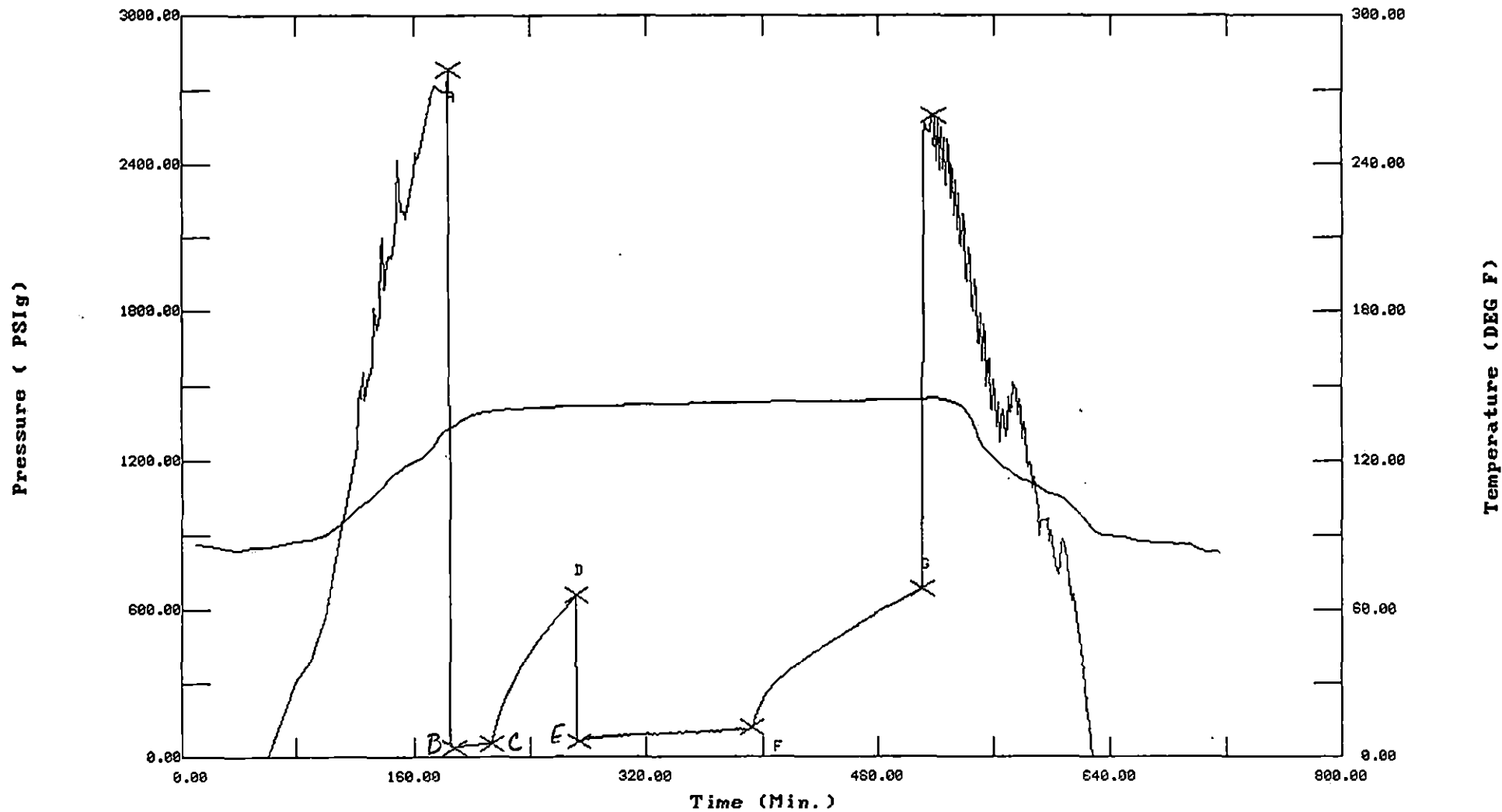
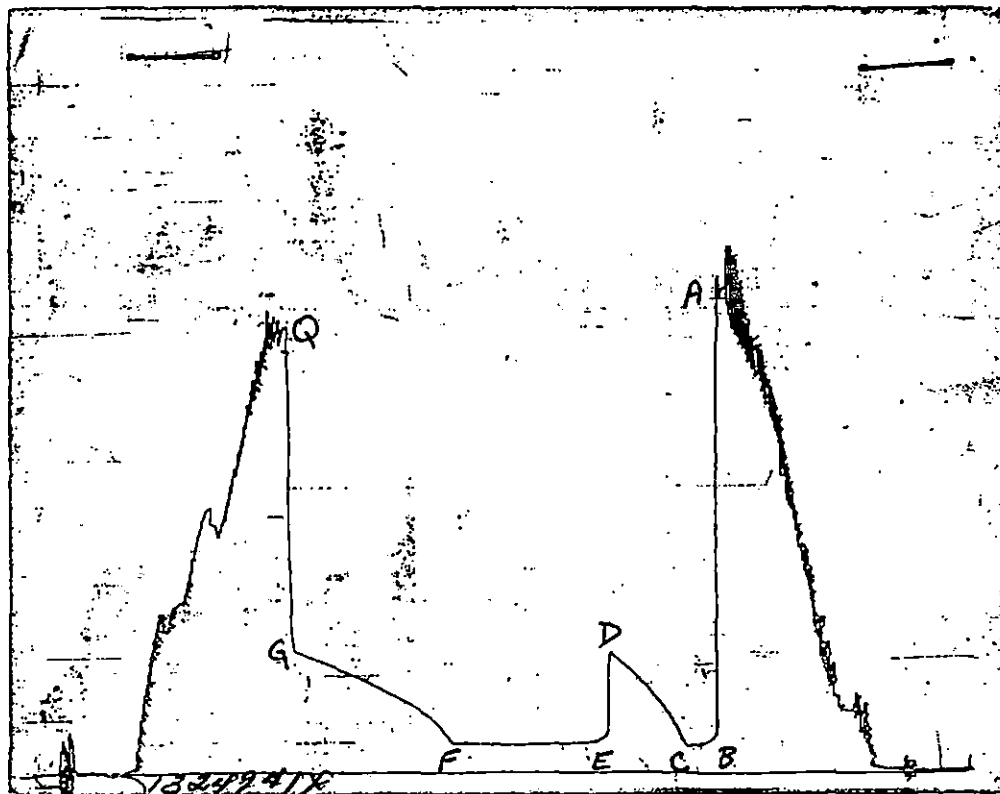


CHART PAGE



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: TK#9506 DST#1 JEREMIAH DAVID #1-35 AMOCO

DATE: 12/31/93 TIME: 00:24:20

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	183.00	2787.4	0.0	133.07		
***** Start Flow 1	0.00	36.3	0.0	134.17		
	1.00	38.6	2.3	134.58		
	2.00	39.2	2.9	135.01		
	3.00	39.5	3.2	135.44		
	4.00	40.4	4.0	135.87		
	5.00	41.1	4.8	136.27		
	6.00	41.7	5.4	136.64		
	7.00	43.0	6.6	136.98		
	8.00	43.5	7.1	137.30		
	9.00	44.5	8.1	137.60		
	10.00	45.2	8.9	137.88		
	11.00	45.8	9.5	138.11		
	12.00	46.4	10.1	138.34		
	13.00	47.0	10.7	138.54		
	14.00	47.6	11.2	138.72		
	15.00	48.1	11.7	138.88		
	16.00	48.6	12.3	139.02		
	17.00	49.6	13.3	139.16		
	18.00	50.0	13.7	139.28		
	19.00	50.6	14.3	139.40		
	20.00	50.9	14.6	139.52		
	21.00	51.5	15.2	139.61		
	22.00	52.4	16.1	139.71		
	23.00	52.7	16.4	139.79		
	24.00	53.2	16.9	139.88		
	25.00	53.6	17.3	139.96		
***** End Flow 1	26.00	54.0	17.6	140.04		
***** Start Shutin 1	0.00	54.0	0.0	140.04	0.0000	0.003
	1.00	74.4	20.4	140.11	27.0000	0.006
	2.00	98.1	44.1	140.17	14.0000	0.01
	3.00	120.5	66.6	140.25	9.6667	0.015
	4.00	141.4	87.5	140.31	7.5000	0.020
	5.00	160.7	106.8	140.38	6.2000	0.026
	6.00	178.7	124.7	140.43	5.3333	0.032
	7.00	195.3	141.3	140.51	4.7143	0.038
	8.00	211.2	157.2	140.56	4.2500	0.045
	9.00	226.3	172.4	140.62	3.8889	0.051
	10.00	240.9	187.0	140.67	3.6000	0.058
	11.00	255.0	201.1	140.73	3.3636	0.065
	12.00	268.5	214.5	140.78	3.1667	0.072
	13.00	281.5	227.5	140.84	3.0000	0.079
	14.00	294.3	240.4	140.89	2.8571	0.087
	15.00	306.6	252.6	140.93	2.7333	0.094
	16.00	318.5	264.5	140.98	2.6250	0.101
	17.00	330.1	276.1	141.02	2.5294	0.109
	18.00	341.2	287.2	141.06	2.4444	0.116
	19.00	351.9	297.9	141.10	2.3684	0.124
	20.00	362.6	308.6	141.15	2.3000	0.131
	21.00	372.6	318.7	141.18	2.2381	0.139
	22.00	382.7	328.7	141.22	2.1818	0.146

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#9506 DST#1 JEREMIAH DAVID #1-35 AMOCO

DATE: 12/31/93

TIME: 00:24:20

Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
23.00	392.4	338.5	141.26	2.1304	0.154
24.00	401.7	347.7	141.29	2.0833	0.161
25.00	410.7	356.7	141.32	2.0400	0.169
26.00	419.7	365.8	141.34	2.0000	0.176
27.00	428.9	374.9	141.39	1.9630	0.184
28.00	438.0	384.1	141.41	1.9286	0.192
29.00	446.9	393.0	141.45	1.8966	0.200
30.00	455.3	401.3	141.47	1.8667	0.207
31.00	463.5	409.6	141.50	1.8387	0.215
32.00	471.4	417.5	141.53	1.8125	0.222
33.00	479.6	425.7	141.55	1.7879	0.230
34.00	487.4	433.4	141.58	1.7647	0.238
35.00	494.9	441.0	141.61	1.7429	0.245
36.00	502.6	448.6	141.63	1.7222	0.253
37.00	509.9	456.0	141.66	1.7027	0.260
38.00	517.1	463.1	141.69	1.6842	0.267
39.00	524.4	470.4	141.71	1.6667	0.275
40.00	531.7	477.7	141.74	1.6500	0.283
41.00	539.0	485.0	141.76	1.6341	0.290
42.00	546.2	492.2	141.78	1.6190	0.298
43.00	553.4	499.5	141.80	1.6047	0.306
44.00	560.5	506.6	141.82	1.5909	0.314
45.00	567.5	513.6	141.85	1.5778	0.322
46.00	574.3	520.4	141.87	1.5652	0.330
47.00	581.5	527.6	141.89	1.5532	0.338
48.00	588.0	534.0	141.91	1.5417	0.346
49.00	594.7	540.7	141.94	1.5306	0.354
50.00	600.9	547.0	141.95	1.5200	0.361
51.00	607.4	553.4	141.97	1.5098	0.369
52.00	614.7	560.7	141.99	1.5000	0.378
53.00	620.9	566.9	142.02	1.4906	0.386
54.00	626.9	573.0	142.04	1.4815	0.393
55.00	634.0	580.0	142.05	1.4727	0.402
56.00	640.4	586.4	142.06	1.4643	0.410
57.00	646.4	592.4	142.08	1.4561	0.418
58.00	652.4	598.4	142.10	1.4483	0.426
59.00	656.5	602.5	142.12	1.4407	0.431
***** End Shut-in 1					
***** Start Flow 2					
0.00	60.7	0.0	142.10		
1.00	61.5	0.8	142.09		
2.00	64.2	3.5	142.08		
3.00	65.5	4.9	142.07		
4.00	67.4	6.7	142.06		
5.00	68.9	8.2	142.06		
6.00	70.3	9.7	142.06		
7.00	72.7	12.0	142.07		
8.00	72.8	12.1	142.09		
9.00	73.2	12.5	142.10		
10.00	73.9	13.3	142.11		
11.00	75.3	14.6	142.12		
12.00	76.3	15.6	142.13		
13.00	76.4	15.8	142.15		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#9506 DST#1 JEREMIAH DAVID #1-35 AMOCO

DATE: 12/31/93 TIME: 00:24:20

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
14.00	76.2	15.5	142.17		
15.00	76.9	16.2	142.17		
16.00	78.5	17.9	142.20		
17.00	79.0	18.3	142.21		
18.00	80.2	19.6	142.23		
19.00	80.8	20.1	142.24		
20.00	79.6	19.0	142.26		
21.00	81.4	20.7	142.27		
22.00	81.6	20.9	142.29		
23.00	82.2	21.5	142.31		
24.00	82.1	21.4	142.32		
25.00	81.8	21.1	142.34		
26.00	79.6	19.0	142.35		
27.00	84.2	23.5	142.37		
28.00	85.1	24.4	142.39		
29.00	83.6	22.9	142.41		
30.00	83.4	22.7	142.42		
31.00	86.4	25.7	142.43		
32.00	86.5	25.8	142.45		
33.00	87.5	26.9	142.47		
34.00	84.0	23.3	142.48		
35.00	88.1	27.4	142.50		
36.00	87.4	26.7	142.52		
37.00	86.4	25.8	142.53		
38.00	86.5	25.8	142.55		
39.00	87.3	26.6	142.56		
40.00	86.2	25.5	142.58		
41.00	89.9	29.2	142.59		
42.00	88.9	28.2	142.60		
43.00	88.5	27.9	142.62		
44.00	88.8	28.1	142.64		
45.00	87.4	26.7	142.66		
46.00	89.6	29.0	142.67		
47.00	91.4	30.7	142.68		
48.00	87.2	26.5	142.71		
49.00	88.1	27.4	142.71		
50.00	89.6	29.0	142.72		
51.00	93.2	32.5	142.74		
52.00	92.1	31.5	142.75		
53.00	90.4	29.7	142.76		
54.00	90.7	30.0	142.78		
55.00	93.5	32.8	142.79		
56.00	93.2	32.6	142.81		
57.00	91.6	31.0	142.82		
58.00	92.6	31.9	142.84		
59.00	93.4	32.7	142.84		
60.00	93.7	33.1	142.86		
61.00	91.8	31.1	142.88		
62.00	95.3	34.7	142.89		
63.00	96.6	35.9	142.90		
64.00	94.0	33.3	142.91		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#9506 DST#1 JEREMIAH DAVID #1-35 AMOCO

DATE: 12/31/93

TIME: 00:24:20

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
65.00	92.7	32.1	142.92		
66.00	93.0	32.3	142.94		
67.00	94.6	33.9	142.94		
68.00	96.1	35.4	142.96		
69.00	98.1	37.4	142.96		
70.00	99.7	39.0	142.98		
71.00	94.8	34.2	142.99		
72.00	95.6	34.9	143.00		
73.00	96.9	36.3	143.02		
74.00	97.2	36.5	143.03		
75.00	98.3	37.6	143.04		
76.00	97.8	37.1	143.05		
77.00	100.4	39.7	143.06		
78.00	98.6	37.9	143.07		
79.00	100.9	40.2	143.08		
80.00	98.9	38.2	143.09		
81.00	95.8	35.1	143.11		
82.00	94.7	34.0	143.11		
83.00	100.8	40.1	143.13		
84.00	101.8	41.1	143.14		
85.00	102.0	41.4	143.15		
86.00	101.9	41.2	143.15		
87.00	102.7	42.0	143.17		
88.00	99.6	38.9	143.18		
89.00	99.7	39.0	143.19		
90.00	102.4	41.7	143.19		
91.00	103.2	42.6	143.22		
92.00	102.1	41.5	143.22		
93.00	101.9	41.2	143.23		
94.00	102.3	41.6	143.23		
95.00	103.5	42.8	143.25		
96.00	101.6	41.0	143.26		
97.00	100.6	39.9	143.27		
98.00	104.9	44.2	143.28		
99.00	106.4	45.7	143.29		
100.00	105.5	44.8	143.30		
101.00	106.7	46.0	143.31		
102.00	106.6	45.9	143.32		
103.00	106.1	45.4	143.33		
104.00	106.2	45.6	143.34		
105.00	105.4	44.7	143.35		
106.00	106.2	45.5	143.36		
107.00	108.7	48.0	143.37		
108.00	112.8	52.1	143.38		
109.00	107.7	47.0	143.39		
110.00	108.8	48.1	143.40		
111.00	108.8	48.2	143.40		
112.00	108.7	48.0	143.42		
113.00	109.8	49.1	143.43		
114.00	108.1	47.4	143.43		
115.00	108.6	47.9	143.44		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#9506 DST#1 JEREMIAH DAVID #1-35 AMOCO

DATE: 12/31/93

TIME: 00:24:20

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	116.00	106.3	45.7	143.45		
	117.00	109.8	49.1	143.46		
	118.00	113.5	52.8	143.47		
***** End Flow 2	119.00	117.3	56.7	143.47		
***** Start Shutin 2	0.00	117.3	0.0	143.47	0.0000	0.014
	1.00	144.1	26.8	143.49	146.0000	0.021
	2.00	164.2	46.8	143.50	73.5000	0.027
	3.00	180.4	63.0	143.51	49.3333	0.033
	4.00	193.9	76.6	143.52	37.2500	0.038
	5.00	206.1	88.8	143.54	30.0000	0.042
	6.00	217.3	100	143.55	25.1667	0.047
	7.00	227.3	109.9	143.57	21.7143	0.052
	8.00	236.7	119.3	143.58	19.1250	0.056
	9.00	245.6	128.2	143.60	17.1111	0.060
	10.00	254.0	136.7	143.61	15.5000	0.065
	11.00	261.9	144.6	143.62	14.1818	0.069
	12.00	269.5	152.2	143.63	13.0833	0.073
	13.00	276.8	159.5	143.65	12.1538	0.077
	14.00	283.6	166.3	143.66	11.3571	0.080
	15.00	290.2	172.9	143.67	10.6667	0.084
	16.00	296.6	179.3	143.68	10.0625	0.088
	17.00	302.6	185.3	143.69	9.5294	0.092
	18.00	308.3	191.0	143.70	9.0556	0.095
	19.00	314.1	196.8	143.72	8.6316	0.099
	20.00	319.5	202.2	143.73	8.2500	0.102
	21.00	324.8	207.5	143.74	7.9048	0.105
	22.00	330.1	212.8	143.75	7.5909	0.109
	23.00	335.8	218.5	143.77	7.3043	0.113
	24.00	341.4	224.1	143.77	7.0417	0.117
	25.00	345.5	228.2	143.78	6.8000	0.119
	26.00	350.9	233.6	143.79	6.5769	0.123
	27.00	356.1	238.8	143.81	6.3704	0.127
	28.00	361.0	243.7	143.81	6.1786	0.130
	29.00	365.2	247.8	143.82	6.0000	0.133
	30.00	369.9	252.5	143.83	5.8333	0.137
	31.00	374.6	257.2	143.84	5.6774	0.140
	32.00	378.9	261.6	143.85	5.5312	0.144
	33.00	383.3	266.0	143.87	5.3939	0.147
	34.00	388.1	270.8	143.87	5.2647	0.151
	35.00	392.4	275.0	143.88	5.1429	0.154
	36.00	396.5	279.1	143.90	5.0278	0.157
	37.00	400.7	283.4	143.91	4.9189	0.161
	38.00	404.8	287.5	143.91	4.8158	0.164
	39.00	408.9	291.6	143.92	4.7179	0.167
	40.00	412.8	295.5	143.93	4.6250	0.170
	41.00	417.0	299.7	143.93	4.5366	0.174
	42.00	421.2	303.9	143.94	4.4524	0.177
	43.00	425.4	308.1	143.95	4.3721	0.181
	44.00	429.3	312.0	143.96	4.2955	0.184
	45.00	433.1	315.8	143.97	4.2222	0.188
	46.00	437.2	319.8	143.98	4.1522	0.191

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#9506 DST#1 JEREMIAH DAVID #1-35 AMOCO
 DATE: 12/31/93 TIME: 00:24:20

Time	Pressure PSIg	delta P PSIg	P	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
47.00	441.3	324.0		143.99	4.0851	0.195
48.00	445.4	328.1		144.00	4.0208	0.198
49.00	449.6	332.3		144.01	3.9592	0.202
50.00	453.2	335.9		144.02	3.9000	0.205
51.00	457.1	339.7		144.03	3.8431	0.209
52.00	461.1	343.8		144.04	3.7885	0.213
53.00	464.7	347.4		144.04	3.7358	0.216
54.00	468.6	351.2		144.05	3.6852	0.220
55.00	472.1	354.8		144.06	3.6364	0.223
56.00	475.8	358.5		144.07	3.5893	0.226
57.00	479.6	362.3		144.08	3.5439	0.230
58.00	483.4	366.1		144.08	3.5000	0.234
59.00	487.0	369.7		144.09	3.4576	0.237
60.00	490.6	373.3		144.11	3.4167	0.241
61.00	494.4	377.1		144.11	3.3770	0.244
62.00	498.3	380.9		144.12	3.3387	0.248
63.00	502.0	384.7		144.12	3.3016	0.252
64.00	505.7	388.4		144.13	3.2656	0.256
65.00	509.4	392.1		144.14	3.2308	0.260
66.00	513.1	395.8		144.14	3.1970	0.263
67.00	516.7	399.4		144.16	3.1642	0.267
68.00	520.4	403.1		144.17	3.1324	0.271
69.00	524.0	406.6		144.18	3.1014	0.275
70.00	527.5	410.2		144.18	3.0714	0.278
71.00	531.3	414.0		144.19	3.0423	0.282
72.00	534.7	417.4		144.20	3.0139	0.286
73.00	538.2	420.9		144.21	2.9863	0.290
74.00	541.7	424.3		144.22	2.9595	0.293
75.00	545.4	428.0		144.22	2.9333	0.297
76.00	548.6	431.3		144.23	2.9079	0.301
77.00	552.7	435.3		144.23	2.8831	0.305
78.00	555.8	438.5		144.25	2.8590	0.309
79.00	559.1	441.8		144.26	2.8354	0.313
80.00	562.3	445.0		144.26	2.8125	0.316
81.00	565.7	448.3		144.27	2.7901	0.320
82.00	569.0	451.7		144.27	2.7683	0.324
83.00	572.3	455.0		144.28	2.7470	0.328
84.00	575.6	458.2		144.28	2.7262	0.331
85.00	586.2	468.9		144.30	2.7059	0.344
86.00	588.0	470.7		144.31	2.6860	0.346
87.00	593.9	476.6		144.31	2.6667	0.353
88.00	599.5	482.2		144.32	2.6477	0.359
89.00	600.1	482.8		144.32	2.6292	0.360
90.00	602.9	485.6		144.34	2.6111	0.364
91.00	604.9	487.5		144.34	2.5934	0.366
92.00	607.5	490.1		144.36	2.5761	0.369
93.00	610.1	492.8		144.36	2.5591	0.372
94.00	612.8	495.5		144.36	2.5426	0.376
95.00	615.9	498.6		144.38	2.5263	0.379
96.00	618.8	501.5		144.38	2.5104	0.383
97.00	621.9	504.6		144.39	2.4948	0.387

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#9506 DST#1 JEREMIAH DAVID #1-35 AMOCO

DATE: 12/31/93

TIME: 00:24:20

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	98.00	624.9	507.6	144.40	2.4796	0.391
	99.00	627.9	510.5	144.40	2.4646	0.394
	100.00	631.0	513.6	144.41	2.4500	0.398
	101.00	634.0	516.7	144.43	2.4356	0.402
	102.00	637.0	519.7	144.42	2.4216	0.406
	103.00	639.9	522.5	144.43	2.4078	0.409
	104.00	642.8	525.5	144.43	2.3942	0.413
	105.00	645.7	528.4	144.45	2.3810	0.417
	106.00	648.8	531.5	144.45	2.3679	0.421
	107.00	652.0	534.7	144.46	2.3551	0.425
	108.00	655.5	538.1	144.46	2.3426	0.430
	109.00	658.0	540.7	144.47	2.3303	0.433
	110.00	660.7	543.3	144.48	2.3182	0.436
	111.00	663.9	546.6	144.48	2.3063	0.441
	112.00	667.3	550.0	144.48	2.2946	0.445
	113.00	669.8	552.5	144.50	2.2832	0.449
	114.00	672.8	555.5	144.50	2.2719	0.453
	115.00	675.9	558.6	144.52	2.2609	0.457
	116.00	678.5	561.2	144.51	2.2500	0.460
	117.00	681.2	563.9	144.52	2.2393	0.464
***** End Shut-in 2	118.00	684.7	567.4	144.53	2.2288	0.469
***** Final Hydro.	519.00	2598.7	0.0	145.02		

*** TOOL DIAGRAM *** CONV

WELL NAME: Jeremiah David #1-35
 LOCATION : 35-29S-40W Stanton Cty KS
 TICKET No. 9506 D.S.T. No. 1 DATE 8-15-96
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 31
 INTERVAL TOOL 22
 BOTTOM PACKERS AND ANCHOR 96
 TOTAL TOOL 149
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
 D.P. ANCHOR STND.Stands 1 Single Total 62
 TOTAL ASSEMBLY 211
 D.C. ABOVE TOOLS.Stands8 Single 1 Total 517
 D.P. ABOVE TOOLS.Stands82 Single Total 5051
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5779
 TOTAL DEPTH 5770
 TOTAL DRILL PIPE ABOVE K.B. 9
 REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -
 Mud 3000 ml, Pressure 500 PSI, Total 3000 ml
 PIT MUD ANALYSIS -
 Chlorides 6500 ppm, Resist .99 ohms @ 65.6 F
 Viscosity 70, Mud Wt 9.1, Filtrate 8.5,
 LCM 2#

P.O. SUB	
C.O. SUB	5559
S.I. TOOL Sterling	5565
Sampler	5568
HMV Sterling	5573
JARS Sterling	5578
SAFETY JOINT Bowen	5581
PACKER	5585
PACKER	5590
DEPTH 5590	
STUBB 1'	5591
ANCHOR Co sub	5592
Alpine recorder	5592
1-std dp 62'	5654
Co sub	5655
5' perfs	5660
5' perfs	5665
5' perfs	5670
Ak-1 recorder	5667
Blank off sub	5671
T.C. 3'	5674
DEPTH 5674	
PACKER	5674
1' stubb	5675
Co sub	5676
1 std dp 62'	5738
Ak-1 recorder	5738
1 jt dp 30'	5768
Co sub	5769
BULLNOSE 1' Bullplug	
T.D.	5770

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9506

Well Name & No. Jeremiah David #1-35 Test No. 1 Date 8-15-96
 Company Amoco Production Co. Zone Tested ST. Louis
 Address P.O. Box 800 Recon 924, Denver, Colo 80201 Elevation 3258 KB 2246 GL
 Co. Rep / Geo. Sam Carmack Cont. Cheyenne #7 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 35 Twp. 29 Rge. 40 Co. STANTON State KS
 No. of Copies _____ Distribution Sheet (Y, N) Y Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 5590 - 5674 Initial Str Wt./Lbs. 70,000 Unseated Str Wt./Lbs. 80,000
 Anchor Length 84 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 80,000
 Top Packer Depth 5590 Tool Weight 2000
 Bottom Packer Depth 5674 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5700 Wt. Pipe Run _____ Drill Collar Run 609
 Mud Wt. 9.1 LCM 2# Vis. 70 WL 8.5 Drill Pipe Size 4.5XH Ft. Run 5103
 Blow Description I.F. STONG - B.O.B. in 1 1/2 min.
No blow back
F.F. STONG - B.O.B. in 1 min.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
<u>180</u>	<u>1536</u>	<u>180</u>					
Rec. <u>180</u>	Feet Of <u>Gsy Mud</u>						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						

BHT 145 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1100 ppm System

(A) Initial Hydrostatic Mud	<u>2861</u> <u>2787</u> PSI	Recorder No.	<u>2342</u>	T-Started	<u>14:30</u>
(B) First Initial Flow Pressure	<u>169</u> <u>36</u> PSI	(depth)	<u>5593</u>	T-Open	<u>17:40</u>
(C) First Final Flow Pressure	<u>169</u> <u>54</u> PSI	Recorder No.	<u>13249</u>	T-Pulled	<u>23:10</u>
(D) Initial Shut-in Pressure	<u>702</u> <u>656</u> PSI	(depth)	<u>5667</u>	T-Out	<u>02:30</u>
(E) Second Initial Flow Pressure	<u>181</u> <u>61</u> PSI	Recorder No.	<u>13754</u>		
(F) Second Final Flow Pressure	<u>181</u> <u>117</u> PSI	(depth)	<u>5767</u>		
(G) Final Shut-in Pressure	<u>725</u> <u>685</u> PSI	Initial Opening	<u>30</u>	Test	<u>700⁰⁰</u>
(H) Final Hydrostatic Mud	<u>2593</u> <u>2588</u> PSI	Initial Shut-in	<u>60</u>	Jars X	<u>200⁰⁰</u>
	<u>AK-1 Alpine</u>	Final Flow	<u>120</u>	Safety Joint X	<u>50⁰⁰</u>
		Final Shut-in	<u>180</u>	Straddle X	<u>250⁰⁰</u>
				Circ. Sub	
			<u>92 + 1 STDS</u>	Sampler X	<u>200⁰⁰</u>
				Extra Packer X	<u>150⁰⁰</u>
				Elect. Rec. X	<u>150⁰⁰</u>
				Other	

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 _____
 Our Representative Dan Rangle

TOTAL PRICE \$ _____

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9506 Date 8-15-96
Company Name Amoco Production Co
Lease Jeremiah David #1-35 Test No. 1
County STANTON Sec. 35 Twp. 29 Rng. 40

SAMPLER RECOVERY

Gas 0 ML
Oil 0 ML
Mud 3000 ML
Water 0 ML
Other 0 ML
Pressure 500 PSI
Total 3000 ML

PIT MUD ANALYSIS

Chlorides 6500 ppm.
Resistivity .99 ohms @ 65.6 F
Viscosity 70
Mud Weight 9.1
Filtrate 8.5
Other LCM 2#

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.