

ORIGINAL

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

Operator: License # 5225

Name: Quinque Operating Company

Address P. O. Box 2738

City/State/Zip Liberal, KS 67905-2738

Purchaser: N/A

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  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, 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/SWD  
 Plug Back  PSTD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

1/29/98 2/9/98 \_\_\_\_\_  
Spud Date Date Reached TD Completion Date

API No. 15- 119-209890000

County Meade plugged 3/10/98

S/2-NE/4 NE/4 Sec. 4 Twp. 35 Rge. 30 X <sup>E</sup>

990 Feet from S/W (circle one) Line of Section

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

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

Lease Name Adams Well # KC#1-4

Field Name Adams Ranch

Producing Formation N/A

Elevation: Ground 2517 KB 2529

Total Depth 6550 PSTD \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 1467 Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

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

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ ex cat.

Drilling Fluid Management Plan DFA, 6-19-98 U.C.  
(Data must be collected from the Reserve Pit)

Chloride content 32,000 ppm Fluid volume 420 bbls

Dewatering method used Dry by Evaporation

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

Operator Name 5-21-98

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

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.

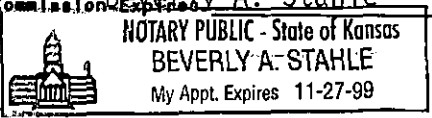
Signature [Signature]

Title President Date 5-20-98

Subscribed and sworn to before me this 20 day of May 19 98.

Notary Public Beverly A. Stable

Date Commission Expires Beverly A. Stable 11-27-99



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)

1  
SIDE TWO

ORIGINAL

Operator Name Quinque Operating Company

Lease Name Adams

Well # KC#1-4

Sec. 4 Twp. 35 Rge. 30

East  
 West

County Meade

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:

Array Induction Shallow Focused Electric  
Micro Resistivity Log  
Compensated Neutron.

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Heebner	4306/4306	-1777
Toronto	4344/4338	-1809
Lansing	4443/4446	-1917
Lansing A por.	4459/4459	-1930
Kansas City	4739	-2210
Kansas City B	4763/4762	-2233
Marmaton	5175/5168	-2639
Novinger	5260/5250	-2721
Cherokee	n.a./5382	-2853
Morrow Shale	5731/5732	-3203
Chester	5822/5832	-3303
St. Genevieve	6106/6106	-3577
St. Louis	6165/6186	-3657
St. Louis B	6264/6288	-3736
St. Louis "D"	6437/6442	-3959

CASING RECORD

New  Used

Report all strings set-conductor, surface or intermediate, production

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'			
Surface	12-1/4"	8-5/8"	23 lb.	1465'	350 saks mid con flo seal, tail in	plus 2% calc 1/4#	3% calc 1/4# flo seal

NEW

prem

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

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

Date of First, Resumed Production, (BWD or In.)	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
<u>DFA</u>	<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
	<u>N/A</u>				

Disposition of Gas:

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

METHOD OF COMPLETION

Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify) P&A

Production Interval



**Halliburton Energy Services**

ORIGINAL

DATE: 01-28-1998 TIME: 18:53:08 SERVICE TICKET: 234491

HUGOTON-25535 BULK TICKET ONLY: 800306

JOB PURPOSE: SURFACE COMPANY TRUCK: 6612n DRIVER: S.TELFORD

CUSTOMER: Beredco Drilling

LEASE & WELL#: Adams KC 1-4

504-282	MIDCON CEMENT PREMIUM PLUS	350	SKS.	18.48	6468.00
504-050	PREMIUM PLUS CEMENT	150	SKS.	15.69	2353.50
507-210	FLOCELE	136	LBS.	2.09	263.34
509-406	CALCIUM CHLORIDE	13	SKS.	46.90	609.70
500-207	SERVICE CHARGES	553	CU FT	1.66	917.98
					TOTAL 10612.52
500-306	WEIGHT: 49458	MILES: 45	TON MILES: 1112.81	1.25	1391.01
					TOTAL BOOK PRICE OF BULK TICKET: \$12003.53
					<u>38%</u>

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

500-306 WEIGHT: \_\_\_\_\_ RETURN MILES: 45 TON MILES: \_\_\_\_\_ 1.25

Post-it™ brand fax transmittal memo 7671 # of pages 2/4

To <u>Urgal</u>	From <u>Bev.</u>
Co. <u>KCC</u>	of <u>Quinnell Oper.</u>
Dept.	Phone # <u>5166242578</u>
Fax #	Fax # <u>5166242579</u>

<b>JOE LOG</b> NORTH DATE: 1-29-98 COUNTY: M... STATE: Kansas		<b>EMPLOYEE NAME</b> : M.D. Co... <b>EMPLOYEE ID</b> : 101 <b>DEPARTMENT</b> : Zonal Dept.		<b>WELL NAME</b> : 12209.18 <b>WELL TYPE</b> : C2 <b>DEPARTMENT</b> : Zonal Isoblation		<b>LEASE / WELL #</b> : Adams, TC <b>REC / WPT / LES</b> : 4 / 355 / 30 W	
<b>REGION</b> : North America <b>STATE / COUNTY</b> : Kansas		<b>EMPLOYEE NAME</b> : M.D. Co... <b>EMPLOYEE ID</b> : 101 <b>DEPARTMENT</b> : Zonal Dept.		<b>WELL NAME</b> : 12209.18 <b>WELL TYPE</b> : C2 <b>DEPARTMENT</b> : Zonal Isoblation		<b>LEASE / WELL #</b> : Adams, TC <b>REC / WPT / LES</b> : 4 / 355 / 30 W	
<b>LOCATION</b> : L... <b>WELL ID / EMP #</b> : 12209.18 H216		<b>EMPLOYEE NAME</b> : M.D. Co... <b>EMPLOYEE ID</b> : 101 <b>DEPARTMENT</b> : Zonal Dept.		<b>WELL NAME</b> : 12209.18 <b>WELL TYPE</b> : C2 <b>DEPARTMENT</b> : Zonal Isoblation		<b>LEASE / WELL #</b> : Adams, TC <b>REC / WPT / LES</b> : 4 / 355 / 30 W	
<b>DATE</b> : 1-29-98 <b>COUNTY</b> : M... <b>STATE</b> : Kansas		<b>EMPLOYEE NAME</b> : M.D. Co... <b>EMPLOYEE ID</b> : 101 <b>DEPARTMENT</b> : Zonal Dept.		<b>WELL NAME</b> : 12209.18 <b>WELL TYPE</b> : C2 <b>DEPARTMENT</b> : Zonal Isoblation		<b>LEASE / WELL #</b> : Adams, TC <b>REC / WPT / LES</b> : 4 / 355 / 30 W	

ORIGINAL





HALLIBURTON ENERGY SERVICES

CHARGE TO: **Beredco Drilling**  
 ADDRESS: **401 E Douglas Suite 402**  
 CITY, STATE, ZIP CODE: **Wichita Kansas 67202**

ORIGINAL - DUNCAN COPY

TICKET

No. **234491 - 4**

PAGE **1** OF **2**

1. SERVICE LOCATIONS <b>025540</b>	WELL PROJECT NO <b>1-4</b>	LEASE <b>Adams KC</b>	COUNTY/PARISH <b>Meade</b>	STATE <b>KS</b>	CITY/OFFSHORE LOCATION <b>Meade</b>	DATE <b>1-29-98</b>	OWNER
2. SERVICE LOCATIONS <b>025535</b>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <b>Beredco Drilling #4</b>	NO NAME NO <b>#4</b>	SHIPPED BY <b>CT</b>	DELIVERED TO <b>Well Site</b>	ORDER NO.
3.	WELL TYPE <b>02</b>	WELL CATEGORY <b>01</b>	JOB PURPOSE <b>010</b>	WELL PERMIT NO.	WELL LOCATION <b>Land</b>		
4. GENERAL LOCATION	INVOICE INSTRUCTIONS						

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACQUISITION LOG ACCT	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	000-117			30 MILEAGE	30 mi	1 RJ	3.65	109.50
	000-119			30 Crew Mileage 30	30 mi	1 RJ	2.15	64.50
	001-016			37 Pump charge	1467 ft	6 HR		1630.00
	17A	925.217		25 Guide shoe	8 5/8 in	1 ea		239.00
	24A	815.19502		25 Insert float	8 5/8 in	1 ea		207.00
	27	815.19415		25 Fill tube	12 in	1 ea		81.00
	41	806.61048		25 Centralizers	8 in	3 ea	71.40	214.20
	350	890.10802		25 Weld A		1 ea		18.43
	030-018			39 8-Wiper Top Plug	8 1/2	1 ea		143.00

ORIGINAL

**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.

DATE SIGNED:                      TIME SIGNED:  A.M.  P.M.

do  do not require IPC (Payment Protection)  not offered

TYPE LOG	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		PAGE TOTAL	2705 63
DEAN/NO	TYPE OF EQUALIZER SOLE	CASING PRESSURE	FROM CONTINUATION PAGE(S)	12003 53
DEPTH	TUBING SIZE	TUBING PRESSURE	WELL DEPTH	14709 1
SPACERS	TREE CONNECTION	TYPE VALVE	GRB-TOTAL APPLICABLE TARIFFS WILL BE ADDED TO INVOICE	9218 33



JOB SUMMARY

REGION	North America	WVA/COUNTRY	Mid Continent	TICKET #	234491	TICKET DATE	1-29-98
WELL ID / EMP #	HIO 105 H7616	EMPLOYEE NAME	Jako du Toit	WELL / STATE	Kansas	COUNTY	Wade
LOCATION	Liberal	COMPANY	Beedco Drilg.	WELL DEPARTMENT	Zonal Isolation		
TICKET AMOUNT	14109.16	WELL TYPE	02	CUSTOMER REF / PHONE			
WELL LOCATION	Land	DEPARTMENT	Zonal Isolation	APPLY UNIT	ORIGINAL		
WELL NAME	Adams KC14	SEC / TRIP / END	A 36 S 30 W	JOB PURPOSE CODE	010		

WELL EMP NAME	EMP NO	EXPOSURE HOURS	WELL EMP NAME	EMP NO	EXPOSURE HOURS	WELL EMP NAME	EMP NO	EXPOSURE HOURS
D. Melrose	93301							
S. Jamison	J 832							
S. Grant	H 4529							
S. Jellard	H 4317							

WELL UNIT NUMBERS	RT MILES	WELL UNIT NUMBERS	RT MILES	WELL UNIT NUMBERS	RT MILES	WELL UNIT NUMBERS	RT MILES
39242	30						
52935-7508	20						
50404-7508	45						
50502-6612	45						

Form Name: \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness: \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type: \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp.: \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data: \_\_\_\_\_ Total Depth \_\_\_\_\_

DATE	CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
1-28-98	11:00	1-29-98	20:15	01:47

WELL DATA

TYPE AND SIZE	QTY	MAKE
Float Collar 1/2" x 3/4"	1	H
Float Shoe P		
Guide Shoe 8 3/4"	1	O
Centrizers 8 3/4"	3	
Bottom Plug		W
Top Plug 5W 8 3/4"	1	
Head P- 8 3/4"	1	C
Packer		
Other		O

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	24	954	KIS	1457
Line					
Line					
Top D.P.					
Open Hole					SHOTS/FT.
Perforations					
Perforations					
Perforations					

MATERIALS

ITEM	UNIT	QTY	REMARKS
Treat. Fluid	Density		Lb/Gal
Disp. Fluid	Density		Lb/Gal
Prop. Type	Size		Lb.
Acid Type	Gal.		%
Surfactant	Gal.		in
MI Agent	Gal.		in
Fluid Loss	Gal/Lb		in
Gelling Agent	Gal/Lb		in
Fric. Red.	Gal/Lb		in
Breaker	Gal/Lb		in
Blocking Agent	Gal/Lb		
Paraben Beta	Dry		
Other			
Other			
Other			

HOURS ON LOCATION

DATE	HOURS	OPERATING HOURS	DESCRIPTION OF JOB
TOTAL			

ORDERED \_\_\_\_\_ HYDRALIC HOSE/POWER \_\_\_\_\_ Used \_\_\_\_\_  
 TREATED \_\_\_\_\_ AVERAGE RATES IN BPM \_\_\_\_\_  
 FEET 42 \_\_\_\_\_ CEMENT LEFT IN PIPE \_\_\_\_\_ Shoe joint Reason \_\_\_\_\_

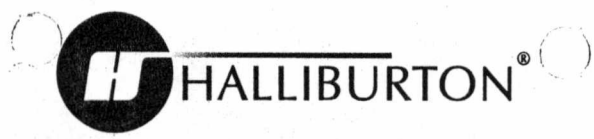
CEMENT DATA

STAGE	SACKS	CEMENT	BULK/BKS	ADDITIVES	YIELD	LBS/GAL
	350	Midcon	B	3% OC, 1/2" or flocc k	323	11.1
	150	Hem Plus	B	2% oc, 1/2" or flocc k	1.52	14.8

Item	Unit	QTY	REMARKS
Circulating	Displacement		
Breakdown	Maximum		
Average	Frac Gradient		
Shut in: instant	5 Min	15 Min	
Preflush	Gal - BBI		Type
Load & Bleed	Gal - BBI		Prod: BBI - Gal
Treatment	Gal - BBI		Disp: BBI - Gal 90.5
Cement Slurr	Gal - BBI		TC 35
Total Volume	Gal - BBI		

THE INFORMATION STATED HEREIN IS CORRECT. \_\_\_\_\_

CUSTOMER COPY



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

INVOICE

HALLIBURTON ENERGY SERVICES, INC.

INVOICE NO.	DATE
233709	02/10/1998

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
ADAMS K C 1-4	BEADE	KS	SAFE		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
LIBERAL		SHOWN BELOW	02/10/1998		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
712202	CHARLES JOHNSON			COMPANY TRUCK	37103

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

**ORIGINAL**

DIRECT CORRESPONDENCE TO:  
P O BOX 1598  
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - PLUS TO ABANDON					
000-117	MILEAGE CEMENTING ROUND TRIP	30	MI	3.65	109.50
		1	UNT		
000-119	MILEAGE FOR CREW	30	MI	2.15	64.50
		1	UNT		
009-019	MUDDING 2K SPOT CEMENT OR MUD	1490	FT	1,875.00	1,805.00
		1	UNT		
504-043	CEMENT - PREMIUM	70	SK	15.94	1,115.80
506-105	POZNIX A	3843	LB	.077	296.30
506-121	HALLIBURTON-CEL 2%	3	LB	.00	0.00
507-277	HALLIBURTON-CEL BENTONITE	5	SK	22.90	114.50
500-207	BULK SERVICE CHARGE	140	CFT	1.34	187.60
500-306	MILEAGE CNTG M4T DEL OR RETURN	263.65	TRIP	1.25	329.56

JOB PURPOSE SUBTOTAL

INVOICE SUBTOTAL

DISCOUNT-(BID)

INVOICE BID AMOUNT

- \*-KANSAS STATE SALES TAX
- \*-LIBERAL CITY SALES TAX
- \*-SEWARD COUNTY SALES TAX

INVOICE TOTAL - PLEASE PAY THIS AMOUNT

1998 MAY 21 A 10:52  
RECEIVED  
KANSAS CORP COMM

**RECEIVED**  
FEB 1 1998

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.

ORIGINAL

15-119-20989

WELL NAME:  
COMPANY:  
LOCATION:

Adams K.C. 1-4  
Quinque Operating Company  
4-35S-30W  
Meade County, Kansas  
2/13/98

DATE:



TRILOBITE TESTING L.L.C.

OPERATOR : Quinque Oper. Co. DATE 2-6-98  
 WELL NAME : Adams K.C. 1-4 KB 2532.00 ft TICKET NO: 11005 DST #1  
 LOCATION : 4-35S-30W Meade Co. GR 2520.00 ft FORMATION: St.Louis  
 INTERVAL : 6260.00 To 6286.00 ft TD 6286.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF	5	Rec.	1566	1566	2357		PF Fr. 1433 to 1438 hr
SI	30	Range(Psi )	4250.0	4250.0	4950.0	0.0	0.0 IS Fr. 1438 to 1508 hr
SF	30	Clock(hrs)	12hr.	12hr	Elec		SF Fr. 1508 to 1538 hr
FS	60	Depth(ft )	6286.0	6286.0	6262.0	0.0	0.0 FS Fr. 1538 to 1638 hr

	Field	1	2	3	4
A. Init Hydro	3150.0	3170.0	3053.0	0.0	0.0
B. First Flow	162.0	165.0	48.0	0.0	0.0
B1. Final Flow	162.0	152.0	38.0	0.0	0.0
C. In Shut-in	1226.0	1238.0	1265.0	0.0	0.0
D. Init Flow	129.0	142.0	36.0	0.0	0.0
E. Final Flow	151.0	159.0	94.0	0.0	0.0
F. Fl Shut-in	1205.0	1215.0	1191.0	0.0	0.0
G. Final Hydro	2844.0	2890.0	2910.0	0.0	0.0
Inside/Outside	O	I	I		

T STARTED 1209 hr  
 T ON BOTM 1433 hr  
 T OPEN 1433 hr  
 T PULLED 1638 hr  
 T OUT 1900 hr

TOOL DATA-----

Tool Wt. 2500.00 lbs  
 Wt Set On Packer 25000.00 lbs  
 Wt Pulled Loose 110000.00 lbs  
 Initial Str Wt 100000.00 lbs  
 Unseated Str Wt 100000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.80 in  
 D Col. ID 3.20 in  
 D. Pipe ID 3.80 in  
 D.C. Length 623.00 ft  
 D.P. Length 5663.00 ft

RECOVERY

Tot Fluid 186.00 ft of 186.00 ft in DC and 0.00 ft in DP  
 1860.00 ft of gas in pipe  
 0.00 ft of  
 186.00 ft of gassy oil cut mud 50% gas 40% oil 7%water  
 0.00 ft of 3% mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

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

MUD DATA-----

Mud Type Chemical  
 Weight 9.10 lb/c  
 Vis. 48.00 S/L  
 W.L. 8.90 in3  
 F.C. 0.00 in  
 Mud Drop

BLOW DESCRIPTION

Initial Flow:  
 Off bottom of bucket in 1 1/2 min

Final Flow:  
 Off bottom of bucket in 2 mins.

Amt. of fill 0.00 ft  
 Btm. H. Temp. 137.00 F  
 Hole Condition  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00

SAMPLES:  
 SENT TO:

Cushion Type  
 Reversed Out N  
 Tool Chased N  
 Tester Steve Eisenhour  
 Co. Rep. Gary Wilkins  
 Contr. Beredco  
 Rig # 4  
 Unit #  
 Pump T.

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Adams K.C. 1-4  
 LOCATION : 4-35S-30W Meade Co.  
 TICKET No. 11005 D.S.T. No. 1 DATE 2-6-98  
 TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27  
 INTERVAL TOOL .....  
 BOTTOM PACKERS AND ANCHOR ..... 26  
 TOTAL TOOL ..... 53  
 DRILL COLLAR ANCHOR IN INTERVAL .....  
 D.C. ANCHOR STND.Stands Single Total  
 D.P. ANCHOR STND.Stands Single Total  
 TOTAL ASSEMBLY ..... 53  
 D.C. ABOVE TOOLS.Stands7 Single Total 623  
 D.P. ABOVE TOOLS.Stands63 Single Total 5625  
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS ..  
 TOTAL DEPTH ..... 6286  
 TOTAL DRILL PIPE ABOVE K.B. .... 15

REMARKS:  
 no fluid sampler run.

P.O. SUB @ top of tool	6234
C.O. SUB	
S.I. TOOL shut-in	6239
HMV hdy.tool	6244
JARS jars	6249
SAFETY JOINT safety joint	6251
PACKER packer	6256
PACKER packer	6260
DEPTH	
STUBB stubb	6261
ANCHOR Elect.recorder	
sub	6262
pick-up sub	
5"perf.	6267
5"perf.	6272
5"perf.	6277
5"perf.	6282
T.C. DEPTH	
2"perf.	6284
BULLNOSE	
T.D. bullplug	6286

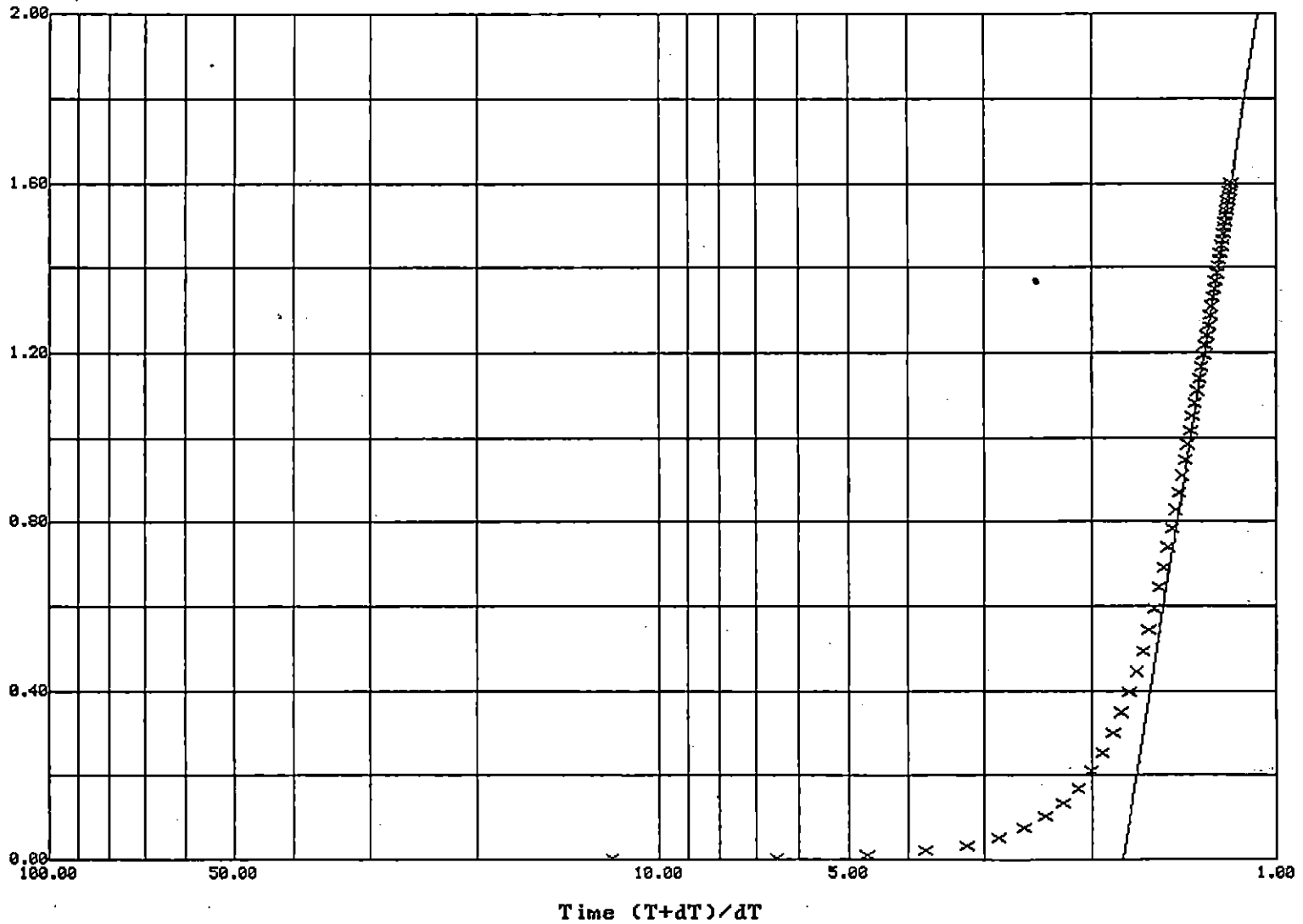
# P<sup>2</sup> Horner Plot: shut-in #1

Tk. 11005 Quingue Adams K.C. #1-4 D.S.T.1 2-6-98

Slope: 9.1798 PSig<sup>2</sup>/10<sup>6</sup>/cycle

Ext. Pressure: 1508.1423 PSig

Pressure ( PSig<sup>2</sup>/10<sup>6</sup> )



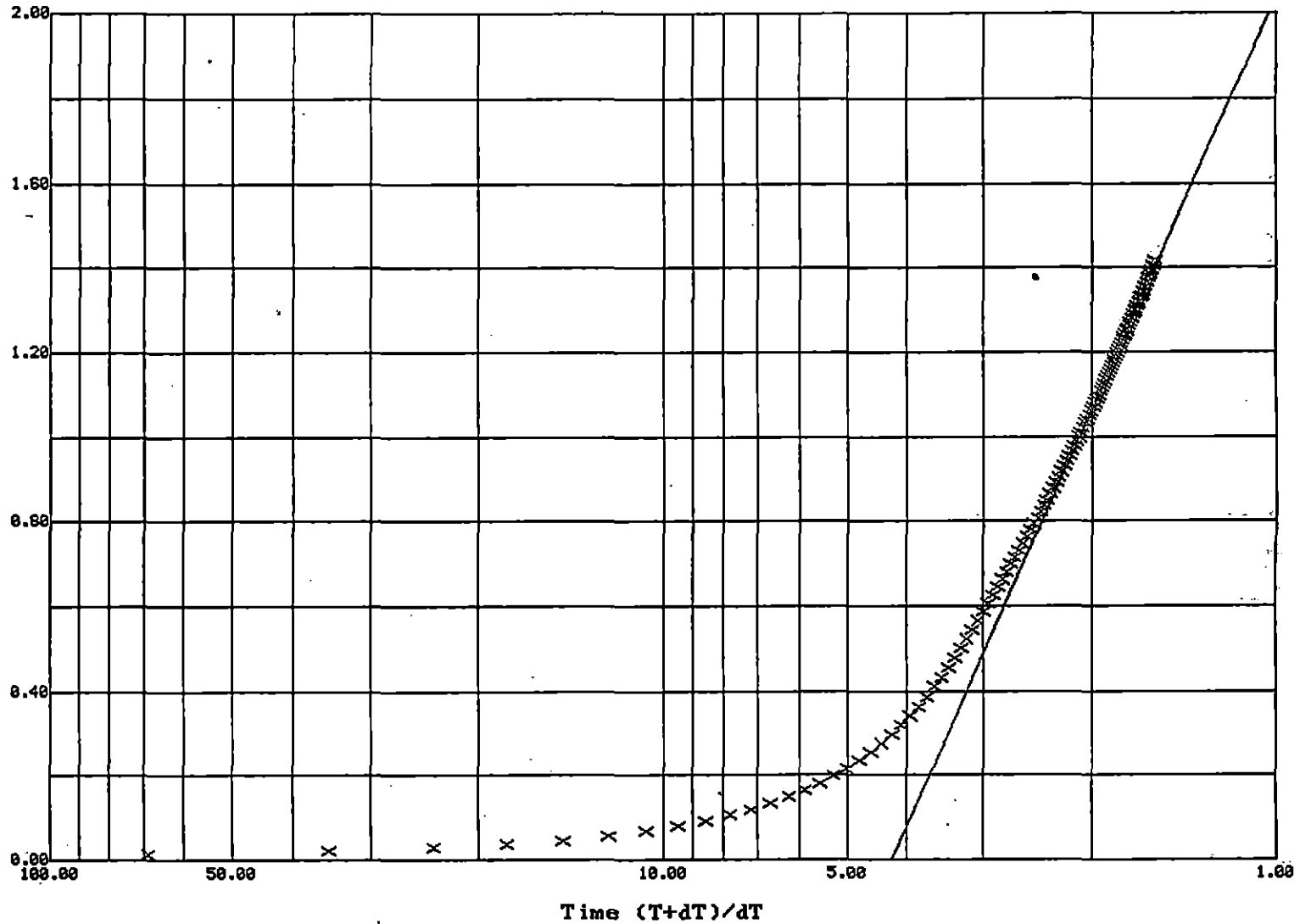
# P<sup>2</sup> Horner Plot: shut-in #2

Tk.11005 Quingue Adams K.C. #1-4 D.S.T.1 2-6-98

Slope: 3.2840 PSig<sup>2</sup>/10<sup>6</sup>/cycle

Ext. Pressure: 1432.3234 PSig

Pressure ( PSig<sup>2</sup>/10<sup>6</sup> )



# TEST HISTORY

Tk. 11005 Quingue Adams K.C. #1-4 D.S.T.1 2-6-98

## Flag Points

	t (Min.)	P (PSIg)
R:	0.00	3053.29
B:	0.00	48.08
C:	5.50	38.43
D:	30.00	1265.29
E:	0.00	36.16
F:	28.50	93.91
G:	59.50	1190.76
Q:	0.00	2910.02

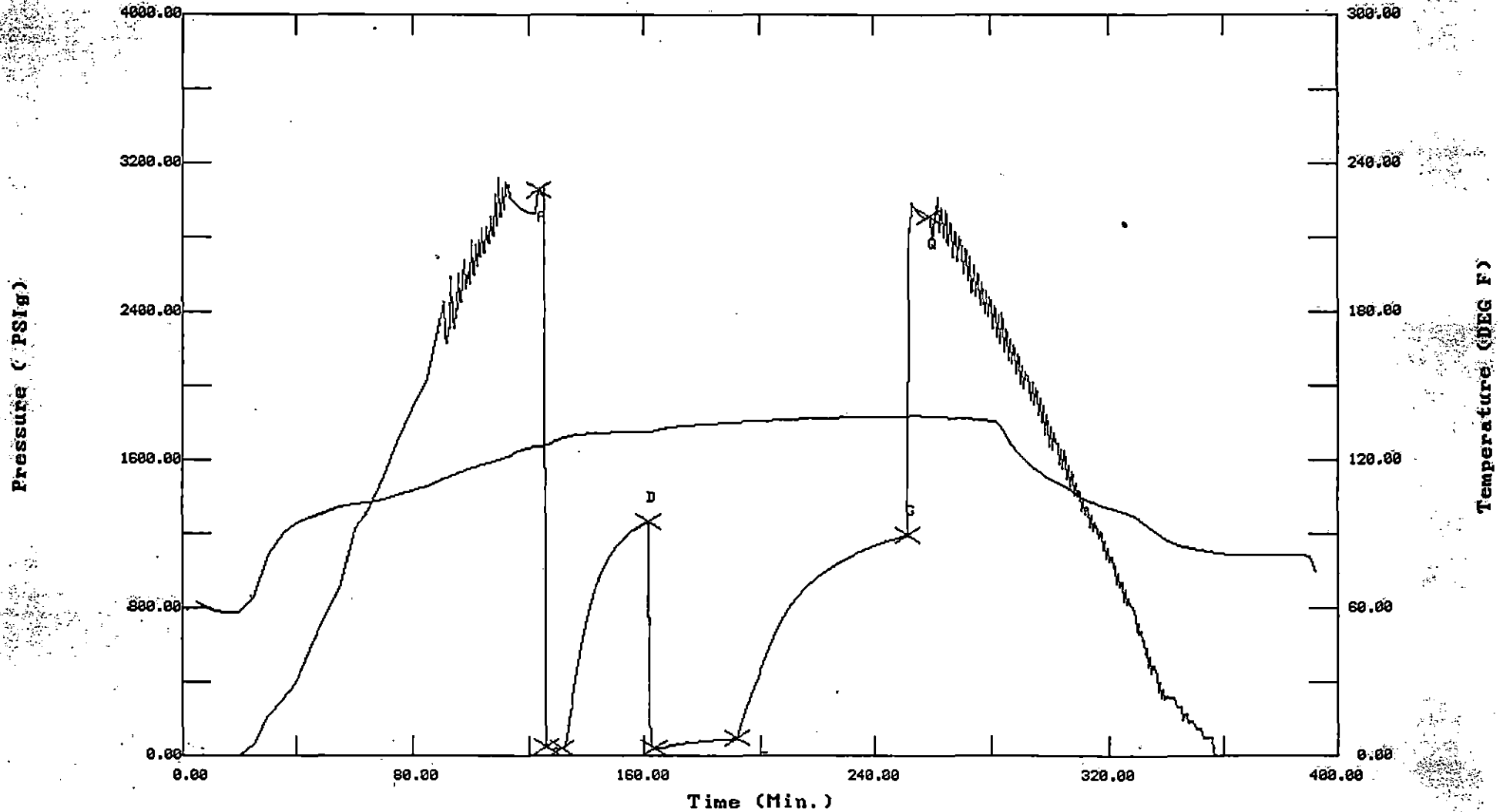
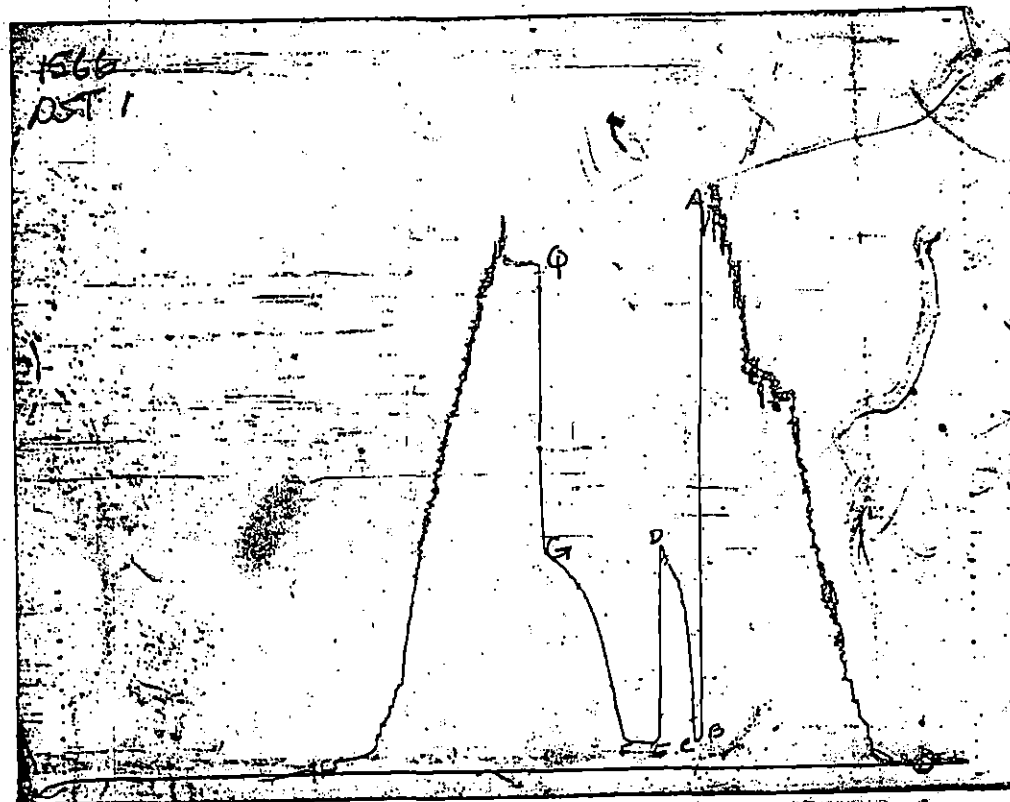


CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk.11005 Quingue Adams K.C. #1-4 D.S.T.1 2-6-98

DATE: 02/07/36 TIME: 06:28:16

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	123.50	3053.3	0.0	125.33		
***** Start Flow 1	0.00	48.1	0.0	125.74		
	0.50	53.0	5.0	125.85		
	1.00	34.4	-13.7	126.08		
	1.50	30.5	-17.5	126.39		
	2.00	27.6	-20.5	126.74		
	2.50	27.9	-20.2	127.09		
	3.00	34.7	-13.4	127.43		
	3.50	34.3	-13.8	127.74		
	4.00	31.9	-16.2	128.02		
	4.50	34.3	-13.8	128.26		
	5.00	36.6	-11.5	128.49		
***** End Flow 1	5.50	38.4	-9.7	128.69		
***** Start Shutin 1	0.00	38.4	0.0	128.69	0.0000	0.001
	0.50	38.7	0.3	128.87	12.0000	0.001
	1.00	52.4	14.0	129.03	6.5000	0.003
	1.50	98.1	59.7	129.18	4.6667	0.01
	2.00	142.2	103.7	129.32	3.7500	0.020
	2.50	185.1	146.7	129.45	3.2000	0.034
	3.00	228.9	190.4	129.57	2.8333	0.052
	3.50	274.0	235.6	129.68	2.5714	0.075
	4.00	319.7	281.2	129.78	2.3750	0.102
	4.50	365.2	326.7	129.87	2.2222	0.133
	5.00	411.8	373.4	129.95	2.1000	0.170
	5.50	458.2	419.8	130.03	2.0000	0.210
	6.00	502.6	464.2	130.11	1.9167	0.253
	6.50	547.2	508.8	130.18	1.8462	0.299
	7.00	590.4	552.0	130.24	1.7857	0.349
	7.50	629.8	591.4	130.30	1.7333	0.397
	8.00	667.5	629.0	130.36	1.6875	0.446
	8.50	703.7	665.3	130.41	1.6471	0.495
	9.00	738.3	699.9	130.46	1.6111	0.545
	9.50	771.1	732.7	130.51	1.5789	0.595
	10.00	802.7	764.2	130.55	1.5500	0.644
	10.50	832.3	793.9	130.60	1.5238	0.693
	11.00	860.1	821.7	130.64	1.5000	0.740
	11.50	885.9	847.5	130.67	1.4783	0.785
	12.00	910.3	871.8	130.71	1.4583	0.829
	12.50	932.7	894.3	130.75	1.4400	0.870
	13.00	953.7	915.3	130.79	1.4231	0.910
	13.50	973.4	935.0	130.82	1.4074	0.947
	14.00	991.8	953.3	130.86	1.3929	0.984
	14.50	1008.8	970.4	130.88	1.3793	1.018
	15.00	1025.0	986.6	130.91	1.3667	1.051
	15.50	1039.9	1001.5	130.94	1.3548	1.081
	16.00	1054.2	1015.8	130.97	1.3438	1.111
	16.50	1067.6	1029.1	131.00	1.3333	1.140
	17.00	1080.3	1041.9	131.02	1.3235	1.167
	17.50	1092.3	1053.9	131.04	1.3143	1.193
	18.00	1103.6	1065.2	131.07	1.3056	1.218
	18.50	1114.6	1076.1	131.09	1.2973	1.242

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk.11005 Quingue Adams K.C. #1-4 D.S.T.1 2-6-98

DATE: 02/07/36 TIME: 06:28:16

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
19.00	1124.9	1086.4	131.11	1.2895	1.265
19.50	1134.5	1096.1	131.15	1.2821	1.287
20.00	1143.9	1105.5	131.17	1.2750	1.309
20.50	1152.9	1114.5	131.19	1.2683	1.329
21.00	1161.2	1122.8	131.21	1.2619	1.348
21.50	1169.3	1130.8	131.23	1.2558	1.367
22.00	1177.3	1138.9	131.25	1.2500	1.386
22.50	1184.6	1146.2	131.27	1.2444	1.403
23.00	1191.4	1153.0	131.29	1.2391	1.420
23.50	1198.4	1160.0	131.30	1.2340	1.436
24.00	1204.9	1166.4	131.32	1.2292	1.452
24.50	1211.2	1172.8	131.34	1.2245	1.467
25.00	1217.4	1178.9	131.36	1.2200	1.482
25.50	1223.1	1184.6	131.37	1.2157	1.496
26.00	1228.6	1190.2	131.38	1.2115	1.509
26.50	1234.2	1195.7	131.41	1.2075	1.523
27.00	1239.1	1200.7	131.42	1.2037	1.535
27.50	1244.1	1205.6	131.44	1.2000	1.548
28.00	1249.0	1210.6	131.46	1.1964	1.560
28.50	1253.6	1215.2	131.47	1.1930	1.572
29.00	1258.1	1219.6	131.49	1.1897	1.583
29.50	1262.6	1224.2	131.50	1.1864	1.594
30.00	1265.3	1226.9	131.52	1.1833	1.601

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

\*\*\*\*\* Start Flow 2

0.00	36.2	0.0	131.71
0.50	34.7	-1.5	131.84
1.00	32.6	-3.5	131.97
1.50	33.0	-3.2	132.12
2.00	34.2	-1.9	132.25
2.50	36.3	0.2	132.38
3.00	38.0	1.8	132.51
3.50	39.8	3.6	132.63
4.00	42.5	6.3	132.74
4.50	43.5	7.4	132.85
5.00	46.3	10.2	132.95
5.50	49.7	13.5	133.04
6.00	50.1	13.9	133.12
6.50	51.6	15.4	133.20
7.00	54.0	17.8	133.28
7.50	56.3	20.1	133.35
8.00	57.8	21.7	133.41
8.50	58.1	21.9	133.48
9.00	61.6	25.4	133.53
9.50	62.2	26.0	133.59
10.00	63.6	27.4	133.65
10.50	64.2	28.0	133.71
11.00	65.4	29.2	133.76
11.50	66.5	30.4	133.81
12.00	68.5	32.3	133.85
12.50	68.9	32.7	133.91
13.00	70.2	34.0	133.95
13.50	70.6	34.4	133.99



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk.11005 Quingue Adams K.C. #1-4 D.S.T.1 2-6-98

DATE: 02/07/36 TIME: 06:28:16

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
14.00	71.8	35.7	134.03		
14.50	71.1	34.9	134.08		
15.00	71.8	35.7	134.11		
15.50	74.2	38.0	134.16		
16.00	73.8	37.6	134.20		
16.50	74.6	38.4	134.23		
17.00	75.4	39.2	134.28		
17.50	75.9	39.7	134.31		
18.00	77.0	40.8	134.35		
18.50	77.6	41.5	134.38		
19.00	79.0	42.8	134.42		
19.50	79.6	43.5	134.45		
20.00	79.4	43.2	134.50		
20.50	81.3	45.2	134.53		
21.00	81.4	45.2	134.57		
21.50	82.9	46.7	134.60		
22.00	83.6	47.4	134.64		
22.50	84.1	47.9	134.67		
23.00	83.5	47.3	134.71		
23.50	84.8	48.6	134.74		
24.00	85.8	49.7	134.78		
24.50	85.5	49.3	134.82		
25.00	86.9	50.7	134.85		
25.50	86.1	49.9	134.89		
26.00	88.2	52.0	134.92		
26.50	88.7	52.5	134.96		
27.00	89.4	53.2	135.00		
27.50	89.9	53.7	135.04		
28.00	90.9	54.7	135.07		
28.50	93.9	57.7	135.11		
***** End Flow 2					
***** Start Shutin 2					
0.00	93.9	0.0	135.11	0.0000	0.009
0.50	121.6	27.7	135.14	69.0000	0.015
1.00	145.8	51.9	135.18	35.0000	0.021
1.50	169.2	75.3	135.21	23.6667	0.029
2.00	191.9	97.9	135.25	18.0000	0.037
2.50	214.8	120.9	135.27	14.6000	0.046
3.00	237.8	143.9	135.31	12.3333	0.057
3.50	260.2	166.3	135.34	10.7143	0.068
4.00	282.2	188.3	135.37	9.5000	0.080
4.50	303.7	209.8	135.39	8.5556	0.092
5.00	324.8	230.9	135.42	7.8000	0.105
5.50	345.8	251.9	135.45	7.1818	0.120
6.00	366.2	272.3	135.47	6.6667	0.134
6.50	386.0	292.1	135.50	6.2308	0.149
7.00	405.8	311.9	135.53	5.8571	0.165
7.50	425.3	331.4	135.56	5.5333	0.181
8.00	445.3	351.4	135.58	5.2500	0.198
8.50	465.0	371.0	135.60	5.0000	0.216
9.00	485.0	391.1	135.62	4.7778	0.235
9.50	504.6	410.7	135.66	4.5789	0.255
10.00	524.5	430.6	135.67	4.4000	0.275

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk.11005 Quingue Adams K.C. #1-4 D.S.T.1 2-6-98  
 DATE: 02/07/36 TIME: 06:28:16

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
10.50	544.3	450.4	135.71	4.2381	0.296
11.00	564.1	470.2	135.72	4.0909	0.318
11.50	583.6	489.7	135.75	3.9565	0.341
12.00	603.0	509.1	135.78	3.8333	0.364
12.50	621.9	528.0	135.81	3.7200	0.387
13.00	640.4	546.5	135.85	3.6154	0.410
13.50	658.2	564.3	135.89	3.5185	0.433
14.00	675.3	581.4	135.93	3.4286	0.456
14.50	692.0	598.1	135.97	3.3448	0.479
15.00	707.9	614.0	136.01	3.2667	0.501
15.50	723.0	629.1	136.04	3.1935	0.523
16.00	737.8	643.9	136.08	3.1250	0.544
16.50	751.7	657.8	136.12	3.0606	0.565
17.00	765.4	671.5	136.16	3.0000	0.586
17.50	778.2	684.3	136.19	2.9429	0.606
18.00	790.5	696.6	136.23	2.8889	0.625
18.50	802.1	708.2	136.26	2.8378	0.643
19.00	813.7	719.8	136.30	2.7895	0.662
19.50	824.6	730.7	136.33	2.7436	0.680
20.00	835.2	741.3	136.36	2.7000	0.697
20.50	845.3	751.4	136.39	2.6585	0.715
21.00	854.8	760.9	136.41	2.6190	0.731
21.50	864.4	770.5	136.44	2.5814	0.747
22.00	873.5	779.6	136.46	2.5455	0.763
22.50	882.4	788.5	136.49	2.5111	0.779
23.00	891.0	797.1	136.52	2.4783	0.794
23.50	899.4	805.5	136.54	2.4468	0.809
24.00	907.4	813.5	136.56	2.4167	0.823
24.50	915.2	821.3	136.58	2.3878	0.838
25.00	922.8	828.9	136.61	2.3600	0.852
25.50	930.2	836.3	136.62	2.3333	0.865
26.00	937.4	843.5	136.66	2.3077	0.879
26.50	944.3	850.4	136.68	2.2830	0.892
27.00	951.1	857.2	136.70	2.2593	0.905
27.50	957.9	864.0	136.72	2.2364	0.917
28.00	964.2	870.3	136.75	2.2143	0.930
28.50	970.4	876.5	136.76	2.1930	0.942
29.00	976.5	882.6	136.79	2.1724	0.954
29.50	982.5	888.6	136.81	2.1525	0.965
30.00	988.3	894.4	136.82	2.1333	0.977
30.50	994.0	900.1	136.84	2.1148	0.988
31.00	999.4	905.5	136.86	2.0968	0.999
31.50	1004.9	911.0	136.89	2.0794	1.010
32.00	1010.0	916.1	136.91	2.0625	1.020
32.50	1015.4	921.4	136.93	2.0462	1.031
33.00	1020.3	926.4	136.94	2.0303	1.041
33.50	1025.3	931.4	136.96	2.0149	1.051
34.00	1030.0	936.1	136.98	2.0000	1.061
34.50	1034.7	940.8	137.00	1.9855	1.071
35.00	1039.4	945.5	137.03	1.9714	1.080
35.50	1043.7	949.8	137.04	1.9577	1.089

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk.11005 Quingue Adams K.C. #1-4 D.S.T.1 2-6-98

DATE: 02/07/36

TIME: 06:28:16

Time	Pressure PSig	delta P PSig	Temp DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
36.00	1048.2	954.3	137.06	1.9444	1.099
36.50	1052.6	958.7	137.07	1.9315	1.108
37.00	1056.6	962.7	137.09	1.9189	1.116
37.50	1060.9	967.0	137.11	1.9067	1.126
38.00	1065.0	971.1	137.13	1.8947	1.134
38.50	1069.1	975.2	137.14	1.8831	1.143
39.00	1072.9	979.0	137.15	1.8718	1.151
39.50	1076.8	982.9	137.16	1.8608	1.159
40.00	1080.5	986.6	137.18	1.8500	1.167
40.50	1084.2	990.3	137.19	1.8395	1.175
41.00	1087.9	994.0	137.21	1.8293	1.184
41.50	1091.5	997.6	137.21	1.8193	1.191
42.00	1095.2	1001.3	137.23	1.8095	1.199
42.50	1098.6	1004.7	137.24	1.8000	1.207
43.00	1102.0	1008.1	137.26	1.7907	1.214
43.50	1105.5	1011.6	137.26	1.7816	1.222
44.00	1108.8	1014.9	137.28	1.7727	1.229
44.50	1112.0	1018.0	137.29	1.7640	1.236
45.00	1115.0	1021.1	137.30	1.7556	1.243
45.50	1118.4	1024.5	137.31	1.7473	1.251
46.00	1121.5	1027.6	137.31	1.7391	1.258
46.50	1124.5	1030.5	137.32	1.7312	1.264
47.00	1127.5	1033.6	137.34	1.7234	1.271
47.50	1130.6	1036.7	137.34	1.7158	1.278
48.00	1133.4	1039.4	137.35	1.7083	1.284
48.50	1136.1	1042.2	137.36	1.7010	1.291
49.00	1139.0	1045.1	137.37	1.6939	1.297
49.50	1141.8	1047.9	137.37	1.6869	1.304
50.00	1144.7	1050.8	137.38	1.6800	1.310
50.50	1147.4	1053.5	137.40	1.6733	1.316
51.00	1150.1	1056.1	137.40	1.6667	1.323
51.50	1152.7	1058.7	137.41	1.6602	1.329
52.00	1155.3	1061.4	137.41	1.6538	1.335
52.50	1157.9	1064.0	137.41	1.6476	1.341
53.00	1160.5	1066.6	137.43	1.6415	1.347
53.50	1163.1	1069.2	137.44	1.6355	1.353
54.00	1165.5	1071.6	137.45	1.6296	1.358
54.50	1167.9	1074.0	137.46	1.6239	1.364
55.00	1170.3	1076.4	137.46	1.6182	1.370
55.50	1172.8	1078.9	137.46	1.6126	1.375
56.00	1175.1	1081.2	137.47	1.6071	1.381
56.50	1177.4	1083.5	137.47	1.6018	1.386
57.00	1179.7	1085.8	137.49	1.5965	1.392
57.50	1181.9	1088.0	137.49	1.5913	1.397
58.00	1184.3	1090.4	137.50	1.5862	1.403
58.50	1186.5	1092.6	137.51	1.5812	1.408
59.00	1188.7	1094.8	137.51	1.5763	1.413
59.50	1190.8	1096.9	137.51	1.5714	1.418

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

\*\*\*\*\* Final Hydro. 259.00 2910.0 0.0 137.43

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 11005

Well Name & No: Adams KC1-4 Test No: OST 1 Date 2-6-98  
Company Quinque Operating Company Zone Tested St. Louis  
Address P.O. Box 2738 Liberal, Kans 67905 Elevation 2532 KB 2530 GL  
Co. Rep/Geo. Michael Moore cont. Beredco Inc #4 Est. FL of Pay      Por.      %  
Location: Sec. 4 Twp. 35 S Rge. 30 W Co. Meade State Kans  
No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N) Y Evaluation (Y, N)     

Interval Tested 6260 - 6286 Initial Str Wt/Lbs. 100,000 Unseated Str Wt/Lbs. 100,000  
Anchor Length 26 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 110,000  
Top Packer Depth 6255 Tool Weight 2,500  
Bottom Packer Depth 6260 Hole Size 7 7/8" Rubber Size 6 3/4"  
Total Depth 6286 Wt. Pipe Run      Drill Collar Run 623  
Mud Wt. 9.1\* LCM 2\* Vis. 48 WL 8.9 Drill Pipe Size 4 1/2 X H Ft. Run 5663  
Blow Description IF-off bottom of bucket in 1 1/2 min.  
FF-off bottom of bucket in 2 min.

Recovery — Total Feet 2046 GIP 1860 FL in DC 465 Ft. in DP 1395  
Rec. 146 Feet Of gassy 0.0 m 50 % gas 40 % oil 7 % water 3 % 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 137 °F Gravity      °API D@      °F Corrected Gravity      °API  
RW 20 @ 70 °F Chlorides 32,000 ppm Recovery Chlorides 1500 ppm System  
(A) Initial Hydrostatic Mud 3053 PSI Recorder No. 2357 T-Started 12:09  
(B) First Initial Flow Pressure 48 PSI (depth) 6262 T-Open 14:33  
(C) First Final Flow Pressure 38 PSI Recorder No. 1566 T-Pulled 16:38  
(D) Initial Shut-in Pressure 1265 PSI (depth) 6286 T-Out 19:00  
(E) Second Initial Flow Pressure 36 PSI Recorder No.       
(F) Second Final Flow Pressure 94 PSI (depth)       
(G) Final Shut-in Pressure 1191 PSI Initial Opening 5 Test Conventional  
(H) Final Hydrostatic Mud 2910 PSI Initial Shut-in 30 Jars     

Final Flow 30 Safety Joint       
Final Shut-in 60 Straddle       
Circ. Sub       
Sampler       
Extra Packer       
Elect. Rec.       
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

TRILOBITE TESTING L.L.C.

OPERATOR : Quinque Operating Co.  
 WELL NAME: Adams K.C.1-4  
 LOCATION : 4-35S-30W Meade Co.  
 INTERVAL : 5725.00 To 5856.00 ft

DATE 2-9-98  
 KB 2532.00 ft  
 GR 2520.00 ft  
 TD 6553.00 ft  
 TICKET NO: 11006 DST #2  
 FORMATION: Morrow&Chester  
 TEST TYPE: CONV. STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 5 Rec.	1566	1566	2357	1051		PF Fr. 0740 to 0745 hr
SI 45 Range (Psi )	4250.0	4250.0	4995.0	4300.0	0.0	IS Fr. 0745 to 0830 hr
SF 60 Clock (hrs)	12hr.	12hr.	elec.	12hr		SF Fr. 0830 to 0930 hr
FS 120 Depth (ft )	5851.0	5851.0	5727.0	6550.0	0.0	FS Fr. 0930 to 1130 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2748.0	0.0	0.0	T STARTED 0441 hr
B. First Flow	0.0	0.0	275.0	0.0	0.0	T ON BOTM 0740 hr
B1. Final Flow	0.0	0.0	392.0	0.0	0.0	T OPEN 0740 hr
C. In Shut-in	0.0	0.0	1830.0	0.0	0.0	T PULLED 1130 hr
D. Init Flow	0.0	0.0	439.0	0.0	0.0	T OUT 1500 hr
E. Final Flow	0.0	0.0	1290.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1828.0	0.0	0.0	
G. Final Hydro	0.0	0.0	2614.0	0.0	0.0	
Inside/Outside	0	0	i	s		

TOOL DATA-----

Tool Wt. 58000.00 lbs  
 Wt Set On Packer 25000.00 lbs  
 Wt Pulled Loose 130000.00 lbs  
 Initial Str Wt 102000.00 lbs  
 Unseated Str Wt 112000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.80 in  
 D Col. ID 0.00 in  
 D. Pipe ID 3.80 in  
 D.C. Length 0.00 ft  
 D.P. Length 5698.00 ft

RECOVERY

Tot Fluid 2833.00 ft of 0.00 ft in DC and 2833.00 ft in DP  
 1724.00 ft of gassy mud 4%gas 96%mud  
 1109.00 ft of watery mud 55%water 45%mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 SALINITY 61000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type Chem.  
 Weight 9.00 lb/c  
 Vis. 78.00 S/L  
 W.L. 8.90 in3  
 F.C. 0.00 in  
 Mud Drop

BLOW DESCRIPTION

Initial Flow:  
 Off bottom of bucket in 1 min.

Final Flow:  
 Off bottom of bucket in 2 min.

Amt. of fill 0.00 ft  
 Btm. H. Temp. 135.00 F  
 Hole Condition  
 % 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 Steve Eisenhour  
 Co. Rep. Michael Moore  
 Contr. Beredco  
 Rig # 4  
 Unit #  
 Pump T.

SAMPLES: Caraway Analytical L.L.C.  
 SENT TO:

Test Successful: Y

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

WELL NAME: Adams K.C.1-4

LOCATION : 4-35S-30W Meade Co.

TICKET No. 11006 D.S.T. No. 2 DATE 2-9-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 38

TOTAL TOOL ..... 65

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands7 Single Total 623tail

D.P. ANCHOR STND.Stands 1 Single 2 Total 93;62tl.

TOTAL ASSEMBLY ..... 843

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands61 Single 1 Total 5728

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 6571

TOTAL DEPTH ..... 6553

TOTAL DRILL PIPE ABOVE K.B. .... 18

REMARKS:  
no fluid sampler run.

clock No. 1566 stop on this test.

The straddle recorder looks like  
it may have been plug in the collar.

gas surfaced in final shut-in

P.O. SUB @ TOP OF TOOL	5699
C.O. SUB	
S.I. TOOL SHUT-IN TOOL	5704
HDY. TOOL	5709
HMV	
JARS	
JARS	5714
SAFETY JIONT	5716
SAFETY JOINT	
PACKER	5721
DEPTH PACKER	5725
STUBB	
ANCHOR STUBB	5726
RECORDER SUB	5727
ELECT.RECORDER	
NO. 2357	5727
5"PERF.	5732
5"PERF.	5737
C.O. SUB	5738
93"DP.	5831
CO. SUB	5832
19"PERF.	5851
T.C. AK-1 1566	5851
DEPTH BLANK OFF SUB	
PACKER PACKER	5856
5"PERF.	5861
3"PERF.	5864
PACKER CO.	5865
DRILL COLLARS	
623"	6488
DRILL PIPE	
62"	6550
CO. SUB	6551
AK-1 RECORDER	
BULLNOSE 1051	6550
T.D. BULLPLUG	6553

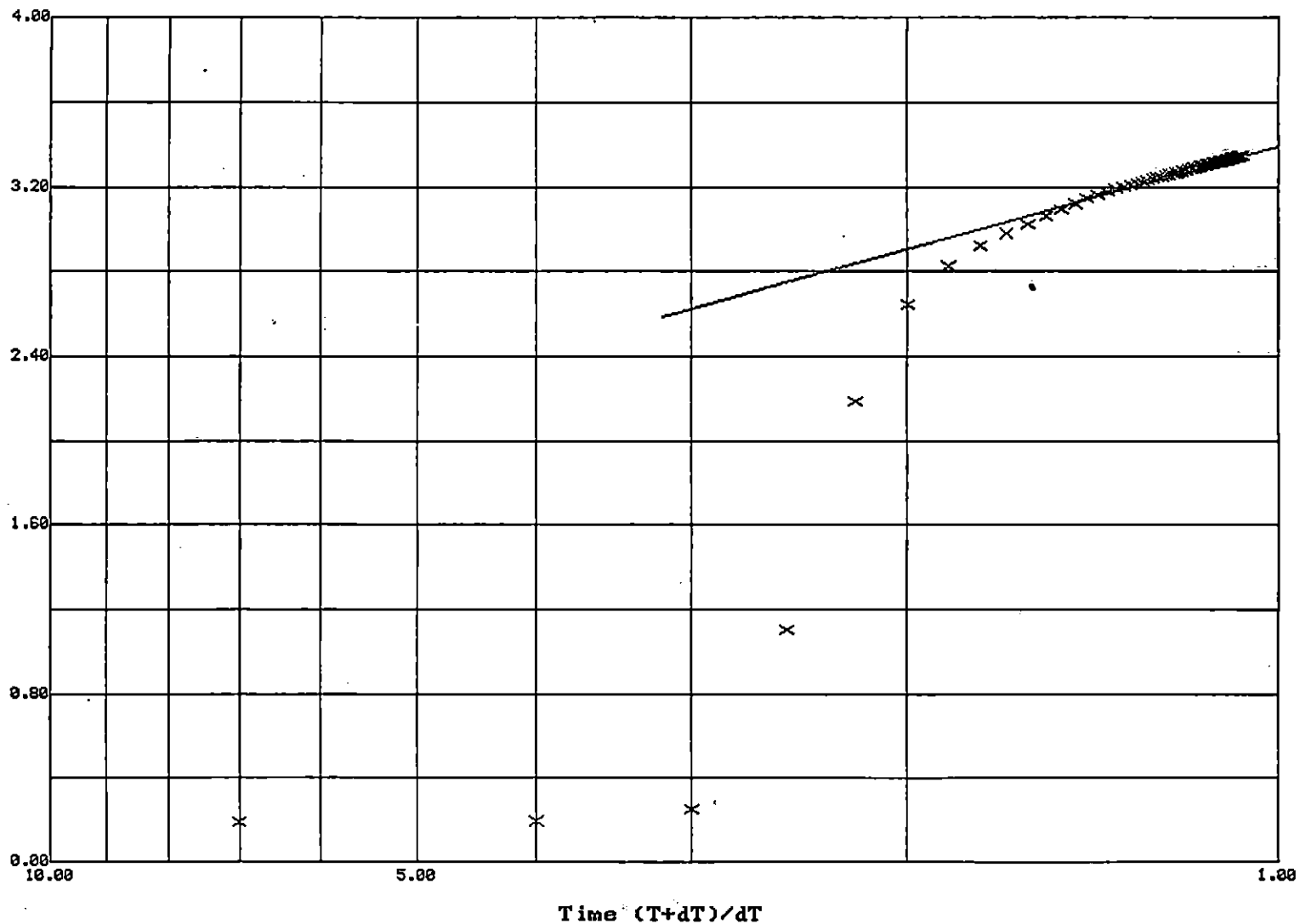
# P<sup>2</sup> Horner Plot: shut-in #1

Tk. 11006 Quinque Operating Co. Adams K.C.#1-4 D.S.T.2

Slope: 1.6130 PSig<sup>2</sup>/10<sup>6</sup>/cycle

Ext. Pressure: 1842.6096 PSig

Pressure ( PSig<sup>2</sup>/10<sup>6</sup> )



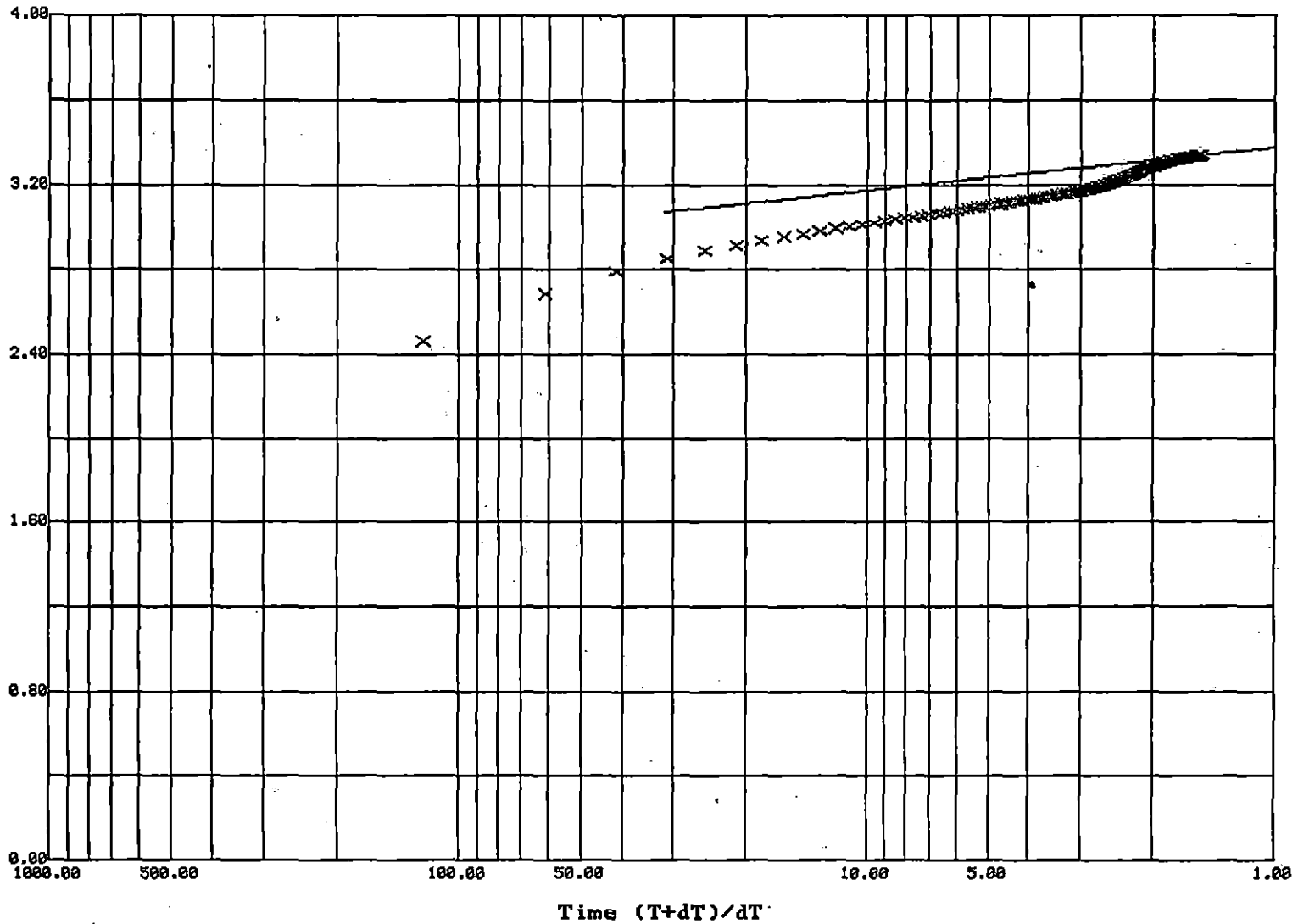
# P<sup>2</sup> Horner Plot: shut-in #2

Tk. 11006 Quinque Operating Co. Adams K.C.#1-4 D.S.T.2

Slope: 0.1992 PSig<sup>2</sup>/10<sup>6</sup>/cycle

Ext. Pressure: 1837.2112 PSig

Pressure ( PSig<sup>2</sup>/10<sup>6</sup> )





# TEST HISTORY

Tk. 11006 Quinque Operating Co. Adams K.C.#1-4 D.S.T.2

Flag Points

t (Min.) P (PSig)

A:	0.00	2748.04
B:	0.00	275.19
C:	3.00	392.02
D:	45.50	1830.45
E:	0.00	439.51
F:	57.50	1289.63
G:	119.00	1827.52
Q:	0.00	2613.76

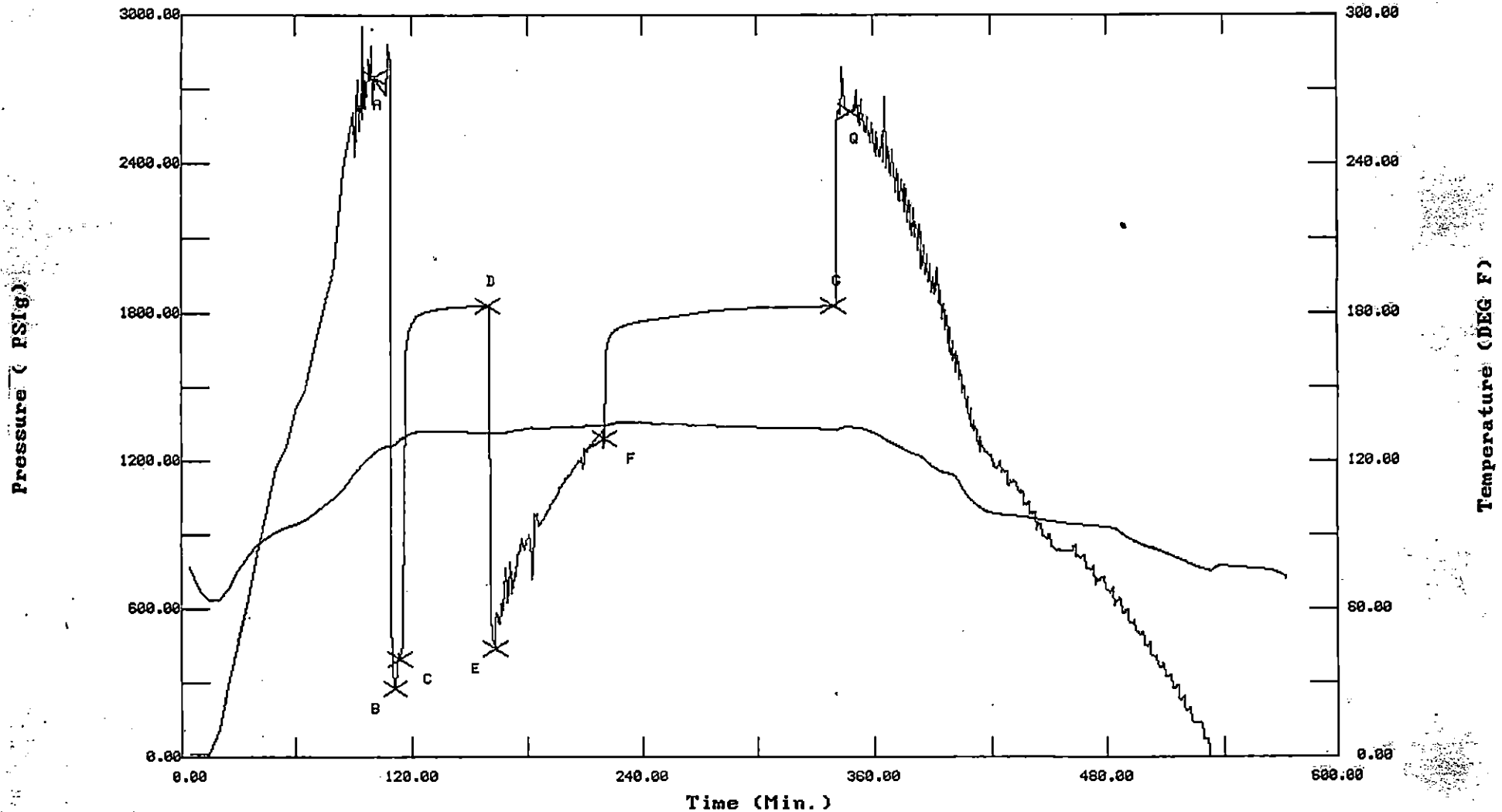


CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk. 11006 Quinque Operating Co. Adams K.C.#1-4 D.S.T.2

DATE: 02/12/36

TIME: 02:30:06

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	101.00	2748.0	0.0	123.37		
***** Start Flow 1	0.00	275.2	0.0	126.50		
	0.50	289.5	14.3	126.83		
	1.00	343.8	68.7	127.19		
	1.50	355.8	80.7	127.57		
	2.00	418.3	143.1	127.95		
	2.50	392.0	116.8	128.31		
***** End Flow 1	3.00	392.0	116.8	128.63		
***** Start Shutin 1	0.00	392.0	0.0	128.63	0.0000	0.154
	0.50	438.9	46.8	128.92	7.0000	0.193
	1.00	439.6	47.6	129.19	4.0000	0.193
	1.50	500.7	108.7	129.45	3.0000	0.251
	2.00	1051.5	659.5	129.72	2.5000	1.106
	2.50	1478.5	1086.5	129.97	2.2000	2.186
	3.00	1626.4	1234.4	130.21	2.0000	2.645
	3.50	1681.2	1289.2	130.42	1.8571	2.827
	4.00	1708.9	1316.9	130.62	1.7500	2.920
	4.50	1726.6	1334.6	130.73	1.6667	2.981
	5.00	1739.1	1347.1	130.96	1.6000	3.025
	5.50	1749.4	1357.4	131.10	1.5455	3.060
	6.00	1758.4	1366.3	131.23	1.5000	3.092
	6.50	1766.6	1374.6	131.35	1.4615	3.121
	7.00	1773.4	1381.4	131.45	1.4286	3.145
	7.50	1778.8	1386.7	131.54	1.4000	3.164
	8.00	1782.8	1390.8	131.61	1.3750	3.178
	8.50	1786.4	1394.4	131.68	1.3529	3.191
	9.00	1789.2	1397.1	131.74	1.3333	3.201
	9.50	1791.8	1399.7	131.79	1.3158	3.210
	10.00	1794.1	1402.1	131.84	1.3000	3.219
	10.50	1796.1	1404.1	131.88	1.2857	3.226
	11.00	1798.1	1406.1	131.92	1.2727	3.233
	11.50	1800.1	1408.1	131.94	1.2609	3.240
	12.00	1801.5	1409.5	131.96	1.2500	3.245
	12.50	1803.1	1411.1	132.00	1.2400	3.251
	13.00	1804.3	1412.3	132.00	1.2308	3.255
	13.50	1805.6	1413.6	132.01	1.2222	3.260
	14.00	1806.8	1414.8	132.03	1.2143	3.264
	14.50	1807.8	1415.8	132.03	1.2069	3.268
	15.00	1808.9	1416.9	132.03	1.2000	3.272
	15.50	1810.0	1418.0	132.04	1.1935	3.276
	16.00	1810.7	1418.7	132.04	1.1875	3.279
	16.50	1811.6	1419.6	132.04	1.1818	3.282
	17.00	1812.6	1420.6	132.03	1.1765	3.285
	17.50	1813.3	1421.2	132.04	1.1714	3.288
	18.00	1814.1	1422.1	132.03	1.1667	3.291
	18.50	1814.8	1422.7	132.03	1.1622	3.293
	19.00	1815.4	1423.4	132.02	1.1579	3.296
	19.50	1816.2	1424.2	132.01	1.1538	3.299
	20.00	1816.8	1424.8	132.00	1.1500	3.301
	20.50	1817.4	1425.3	132.00	1.1463	3.303
	21.00	1818.0	1425.9	131.99	1.1429	3.305

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk. 11006 Quinque Operating Co. Adams K.C.#1-4 D.S.T.2

DATE: 02/12/36

TIME: 02:30:06

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
21.50	1818.5	1426.4	131.97	1.1395	3.307
22.00	1818.9	1426.9	131.96	1.1364	3.308
22.50	1819.5	1427.4	131.95	1.1333	3.310
23.00	1820.1	1428.0	131.95	1.1304	3.313
23.50	1820.3	1428.3	131.93	1.1277	3.313
24.00	1820.9	1428.9	131.92	1.1250	3.316
24.50	1821.2	1429.2	131.92	1.1224	3.317
25.00	1821.2	1429.2	131.90	1.1200	3.317
25.50	1821.7	1429.7	131.88	1.1176	3.319
26.00	1821.8	1429.8	131.87	1.1154	3.319
26.50	1822.2	1430.2	131.85	1.1132	3.321
27.00	1822.6	1430.5	131.83	1.1111	3.322
27.50	1823.0	1431.0	131.82	1.1091	3.323
28.00	1823.2	1431.2	131.81	1.1071	3.324
28.50	1823.5	1431.5	131.80	1.1053	3.325
29.00	1823.8	1431.8	131.78	1.1034	3.326
29.50	1824.2	1432.1	131.77	1.1017	3.328
30.00	1824.4	1432.4	131.76	1.1000	3.328
30.50	1824.8	1432.8	131.74	1.0984	3.330
31.00	1824.9	1432.9	131.73	1.0968	3.330
31.50	1825.3	1433.2	131.72	1.0952	3.332
32.00	1825.6	1433.6	131.71	1.0938	3.333
32.50	1825.9	1433.9	131.69	1.0923	3.334
33.00	1826.3	1434.3	131.68	1.0909	3.336
33.50	1826.5	1434.5	131.67	1.0896	3.336
34.00	1826.8	1434.7	131.66	1.0882	3.337
34.50	1827.2	1435.2	131.64	1.0870	3.339
35.00	1827.4	1435.3	131.63	1.0857	3.339
35.50	1827.5	1435.5	131.62	1.0845	3.340
36.00	1828.1	1436.1	131.60	1.0833	3.342
36.50	1828.2	1436.2	131.59	1.0822	3.342
37.00	1828.3	1436.3	131.59	1.0811	3.343
37.50	1828.3	1436.3	131.57	1.0800	3.343
38.00	1828.3	1436.3	131.56	1.0789	3.343
38.50	1828.4	1436.4	131.55	1.0779	3.343
39.00	1828.4	1436.4	131.54	1.0769	3.343
39.50	1828.5	1436.5	131.52	1.0759	3.344
40.00	1828.8	1436.8	131.51	1.0750	3.344
40.50	1828.9	1436.9	131.50	1.0741	3.345
41.00	1829.3	1437.3	131.48	1.0732	3.346
41.50	1829.3	1437.3	131.48	1.0723	3.346
42.00	1829.4	1437.3	131.47	1.0714	3.347
42.50	1829.6	1437.6	131.45	1.0706	3.348
43.00	1829.8	1437.8	131.44	1.0698	3.348
43.50	1829.9	1437.9	131.44	1.0690	3.349
44.00	1829.9	1437.9	131.42	1.0682	3.349
44.50	1830.0	1438.0	131.41	1.0674	3.349
45.00	1830.4	1438.4	131.40	1.0667	3.351
45.50	1830.4	1438.4	131.39	1.0659	3.351
***** End Shut-in 1					
***** Start Flow 2	0.00	438.5	0.0	131.27	
	0.50	551.2	112.7	131.27	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk. 11006 Quinque Operating Co. Adams K.C.#1-4 D.S.T.2  
 DATE: 02/12/36 TIME: 02:30:06

Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
1.00	581.6	143.1	131.26		
1.50	576.8	138.3	131.27		
2.00	551.0	112.5	131.29		
2.50	539.8	101.3	131.32		
3.00	594.7	156.2	131.32		
3.50	615.3	176.8	131.37		
4.00	591.5	153.0	131.42		
4.50	687.1	248.6	131.48		
5.00	657.1	218.6	131.52		
5.50	758.2	319.7	131.57		
6.00	670.7	232.2	131.62		
6.50	624.5	186.0	131.69		
7.00	681.0	242.5	131.79		
7.50	673.7	235.2	131.90		
8.00	787.2	348.6	132.02		
8.50	659.6	221.1	132.09		
9.00	749.9	311.4	132.13		
9.50	683.6	245.1	132.19		
10.00	742.1	303.6	132.25		
10.50	720.3	281.8	132.31		
11.00	741.7	303.2	132.36		
11.50	803.8	365.3	132.39		
12.00	816.6	378.1	132.40		
12.50	827.4	388.8	132.45		
13.00	830.0	391.4	132.50		
13.50	835.9	397.4	132.58		
14.00	882.3	443.8	132.65		
14.50	852.2	413.7	132.74		
15.00	857.6	419.1	132.83		
15.50	838.1	399.6	132.92		
16.00	867.2	428.7	133.01		
16.50	876.1	437.6	133.09		
17.00	883.2	444.7	133.16		
17.50	890.3	451.8	133.23		
18.00	896.9	458.4	133.29		
18.50	876.3	437.8	133.35		
19.00	783.8	345.3	133.40		
19.50	717.1	278.6	133.45		
20.00	749.8	311.3	133.36		
20.50	954.9	516.4	133.24		
21.00	981.6	543.1	133.12		
21.50	975.1	536.6	133.02		
22.00	984.5	546.0	132.95		
22.50	981.1	542.6	132.90		
23.00	934.9	496.3	132.88		
23.50	936.5	497.9	132.88		
24.00	941.2	502.7	132.90		
24.50	945.5	507.0	132.93		
25.00	951.4	512.9	132.97		
25.50	957.8	519.3	133.01		
26.00	963.4	524.9	133.07		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk. 11006 Quinque Operating Co. Adams K.C.#1-4 D.S.T.2

DATE: 02/12/36 TIME: 02:30:06

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
26.50	973.1	534.5	133.13		
27.00	982.9	544.4	133.18		
27.50	989.0	550.5	133.23		
28.00	997.9	559.4	133.27		
28.50	1003.0	564.5	133.32		
29.00	1010.1	571.5	133.37		
29.50	1018.8	580.3	133.40		
30.00	1024.6	586.1	133.45		
30.50	1031.9	593.4	133.48		
31.00	1037.8	599.2	133.51		
31.50	1043.6	605.0	133.53		
32.00	1050.3	611.7	133.57		
32.50	1057.6	619.1	133.59		
33.00	1068.2	629.7	133.61		
33.50	1074.9	636.3	133.62		
34.00	1088.6	650.1	133.65		
34.50	1094.0	655.5	133.66		
35.00	1099.8	661.3	133.67		
35.50	1105.6	667.1	133.68		
36.00	1110.8	672.3	133.68		
36.50	1119.4	680.9	133.70		
37.00	1124.3	685.8	133.65		
37.50	1129.2	690.7	133.69		
38.00	1134.3	695.8	133.68		
38.50	1138.0	699.5	133.68		
39.00	1141.3	702.8	133.67		
39.50	1146.1	707.6	133.67		
40.00	1151.1	712.5	133.68		
40.50	1156.9	718.3	133.69		
41.00	1163.2	724.7	133.70		
41.50	1167.4	728.9	133.70		
42.00	1173.9	735.4	133.73		
42.50	1178.6	740.1	133.76		
43.00	1189.3	750.8	133.77		
43.50	1194.3	755.8	133.81		
44.00	1198.2	759.7	133.84		
44.50	1202.0	763.5	133.87		
45.00	1207.6	769.1	133.90		
45.50	1212.2	773.7	133.93		
46.00	1170.7	732.2	133.96		
46.50	1199.2	760.6	133.98		
47.00	1249.3	810.7	134.01		
47.50	1240.1	801.6	134.04		
48.00	1237.6	799.1	134.06		
48.50	1246.0	807.5	134.07		
49.00	1250.6	812.1	134.08		
49.50	1255.9	817.4	134.09		
50.00	1262.9	824.3	134.10		
50.50	1267.6	829.0	134.11		
51.00	1271.9	833.4	134.13		
51.50	1277.2	838.7	134.14		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk. 11006 Quinque, Operating Co. Adams K.C.#1-4 D.S.T.2  
 DATE: 02/12/36 TIME: 02:30:06

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	52.00	1281.0	842.5	134.16		
	52.50	1285.8	847.3	134.18		
	53.00	1292.0	853.5	134.21		
	53.50	1296.9	858.4	134.23		
	54.00	1300.5	861.9	134.25		
	54.50	1304.1	865.6	134.28		
	55.00	1308.3	869.8	134.30		
	55.50	1312.5	874.0	134.32		
	56.00	1317.6	879.1	134.35		
	56.50	1322.7	884.2	134.39		
	57.00	1254.0	815.5	134.40		
***** End Flow 2	57.50	1289.6	851.1	134.44		
***** Start Shutin 2	0.00	1289.6	0.0	134.44	0.0000	1.663
	0.50	1569.3	279.6	134.48	122.0000	2.463
	1.00	1639.2	349.6	134.52	61.5000	2.687
	1.50	1671.2	381.6	134.58	41.3333	2.793
	2.00	1688.9	399.2	134.63	31.2500	2.852
	2.50	1700.4	410.7	134.69	25.2000	2.891
	3.00	1708.4	418.8	134.78	21.1667	2.919
	3.50	1714.8	425.2	134.85	18.2857	2.941
	4.00	1719.8	430.2	134.94	16.1250	2.958
	4.50	1724.2	434.6	135.01	14.4444	2.973
	5.00	1727.9	438.3	135.09	13.1000	2.986
	5.50	1731.1	441.5	135.18	12.0000	2.997
	6.00	1733.9	444.3	135.25	11.0833	3.007
	6.50	1736.7	447.1	135.32	10.3077	3.016
	7.00	1739.0	449.3	135.37	9.6429	3.024
	7.50	1741.0	451.4	135.43	9.0667	3.031
	8.00	1743.1	453.5	135.49	8.5625	3.038
	8.50	1744.9	455.2	135.52	8.1176	3.045
	9.00	1746.5	456.9	135.56	7.7222	3.050
	9.50	1748.3	458.7	135.59	7.3684	3.057
	10.00	1750.0	460.3	135.61	7.0500	3.062
	10.50	1751.4	461.8	135.63	6.7619	3.067
	11.00	1752.8	463.2	135.63	6.5000	3.072
	11.50	1754.3	464.6	135.64	6.2609	3.077
	12.00	1755.3	465.7	135.64	6.0417	3.081
	12.50	1756.7	467.1	135.64	5.8400	3.086
	13.00	1757.9	468.2	135.63	5.6538	3.090
	13.50	1758.9	469.2	135.63	5.4815	3.094
	14.00	1760.0	470.4	135.62	5.3214	3.098
	14.50	1760.7	471.1	135.60	5.1724	3.100
	15.00	1761.9	472.3	135.58	5.0333	3.104
	15.50	1762.6	473.0	135.56	4.9032	3.107
	16.00	1763.5	473.9	135.54	4.7812	3.110
	16.50	1764.4	474.8	135.52	4.6667	3.113
	17.00	1765.2	475.5	135.51	4.5588	3.116
	17.50	1766.1	476.5	135.48	4.4571	3.119
	18.00	1766.9	477.3	135.46	4.3611	3.122
	18.50	1767.6	478.0	135.45	4.2703	3.124
	19.00	1768.4	478.7	135.44	4.1842	3.127

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk. 11006 Quinque Operating Co. Adams K.C.#1-4 D.S.T.2

DATE: 02/12/36

TIME: 02:30:06

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
19.50	1769.0	479.4	135.41	4.1026	3.129
20.00	1769.5	479.9	135.39	4.0250	3.131
20.50	1770.4	480.7	135.38	3.9512	3.134
21.00	1771.1	481.5	135.36	3.8810	3.137
21.50	1771.6	482.0	135.34	3.8140	3.139
22.00	1772.4	482.8	135.32	3.7500	3.141
22.50	1772.7	483.1	135.30	3.6889	3.143
23.00	1773.4	483.8	135.29	3.6304	3.145
23.50	1774.0	484.3	135.27	3.5745	3.147
24.00	1774.5	484.9	135.25	3.5208	3.149
24.50	1775.1	485.5	135.23	3.4694	3.151
25.00	1775.7	486.1	135.23	3.4200	3.153
25.50	1776.2	486.6	135.20	3.3725	3.155
26.00	1776.7	487.0	135.19	3.3269	3.157
26.50	1777.4	487.8	135.18	3.2830	3.159
27.00	1777.7	488.0	135.17	3.2407	3.160
27.50	1778.3	488.6	135.17	3.2000	3.162
28.00	1778.8	489.1	135.16	3.1607	3.164
28.50	1779.4	489.8	135.15	3.1228	3.166
29.00	1780.0	490.4	135.15	3.0862	3.168
29.50	1780.4	490.7	135.16	3.0508	3.170
30.00	1781.0	491.4	135.14	3.0167	3.172
30.50	1781.5	491.9	135.12	2.9836	3.174
31.00	1782.3	492.7	135.11	2.9516	3.177
31.50	1782.8	493.2	135.11	2.9206	3.178
32.00	1783.3	493.7	135.09	2.8906	3.180
32.50	1783.7	494.1	135.08	2.8615	3.182
33.00	1784.3	494.7	135.07	2.8333	3.184
33.50	1784.8	495.2	135.05	2.8060	3.186
34.00	1785.3	495.7	135.03	2.7794	3.187
34.50	1785.9	496.3	135.01	2.7536	3.189
35.00	1786.4	496.8	134.99	2.7286	3.191
35.50	1786.9	497.3	134.97	2.7042	3.193
36.00	1787.4	497.8	134.94	2.6806	3.195
36.50	1788.0	498.4	134.92	2.6575	3.197
37.00	1788.4	498.8	134.90	2.6351	3.198
37.50	1789.0	499.4	134.87	2.6133	3.201
38.00	1789.6	500.0	134.86	2.5921	3.203
38.50	1790.1	500.5	134.83	2.5714	3.204
39.00	1790.8	501.1	134.81	2.5513	3.207
39.50	1791.2	501.6	134.78	2.5316	3.208
40.00	1791.8	502.1	134.76	2.5125	3.210
40.50	1792.4	502.7	134.74	2.4938	3.213
41.00	1793.0	503.4	134.72	2.4756	3.215
41.50	1793.7	504.1	134.70	2.4578	3.217
42.00	1794.2	504.6	134.67	2.4405	3.219
42.50	1795.0	505.3	134.65	2.4235	3.222
43.00	1795.5	505.9	134.62	2.4070	3.224
43.50	1796.2	506.6	134.61	2.3908	3.226
44.00	1796.7	507.1	134.59	2.3750	3.228
44.50	1797.1	507.5	134.56	2.3596	3.230



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk. 11006 Quinque Operating Co. Adams K.C.#1-4 D.S.T.2

DATE: 02/12/36

TIME: 02:30:06

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
45.00	1797.7	508.1	134.53	2.3444	3.232
45.50	1798.3	508.7	134.51	2.3297	3.234
46.00	1799.0	509.4	134.49	2.3152	3.236
46.50	1799.5	509.9	134.48	2.3011	3.238
47.00	1800.1	510.4	134.46	2.2872	3.240
47.50	1800.7	511.0	134.43	2.2737	3.242
48.00	1801.2	511.5	134.41	2.2604	3.244
48.50	1801.7	512.0	134.39	2.2474	3.246
49.00	1802.6	513.0	134.37	2.2347	3.249
49.50	1803.3	513.6	134.35	2.2222	3.252
50.00	1803.8	514.1	134.34	2.2100	3.254
50.50	1804.4	514.7	134.32	2.1980	3.256
51.00	1804.8	515.1	134.28	2.1863	3.257
51.50	1805.3	515.7	134.27	2.1748	3.259
52.00	1805.8	516.2	134.25	2.1635	3.261
52.50	1806.4	516.7	134.24	2.1524	3.263
53.00	1807.0	517.4	134.22	2.1415	3.265
53.50	1807.5	517.8	134.20	2.1308	3.267
54.00	1808.1	518.5	134.18	2.1204	3.269
54.50	1808.6	519.0	134.17	2.1101	3.271
55.00	1809.2	519.6	134.15	2.1000	3.273
55.50	1809.6	520.0	134.14	2.0901	3.275
56.00	1810.1	520.5	134.12	2.0804	3.277
56.50	1810.7	521.1	134.10	2.0708	3.279
57.00	1811.2	521.5	134.08	2.0614	3.280
57.50	1811.6	521.9	134.07	2.0522	3.282
58.00	1812.1	522.5	134.04	2.0431	3.284
58.50	1812.5	522.9	134.03	2.0342	3.285
59.00	1812.9	523.3	134.02	2.0254	3.287
59.50	1813.5	523.9	134.00	2.0168	3.289
60.00	1813.6	524.0	133.99	2.0083	3.289
60.50	1814.0	524.4	133.97	2.0000	3.291
61.00	1814.3	524.6	133.96	1.9918	3.292
61.50	1814.7	525.1	133.94	1.9837	3.293
62.00	1814.8	525.1	133.92	1.9758	3.293
62.50	1815.0	525.4	133.91	1.9680	3.294
63.00	1815.4	525.7	133.89	1.9603	3.295
63.50	1815.6	526.0	133.88	1.9528	3.296
64.00	1815.9	526.3	133.87	1.9453	3.298
64.50	1816.4	526.7	133.85	1.9380	3.299
65.00	1816.6	527.0	133.84	1.9308	3.300
65.50	1816.9	527.2	133.82	1.9237	3.301
66.00	1817.1	527.5	133.80	1.9167	3.302
66.50	1817.4	527.7	133.79	1.9098	3.303
67.00	1817.7	528.1	133.78	1.9030	3.304
67.50	1817.9	528.2	133.77	1.8963	3.305
68.00	1818.2	528.6	133.75	1.8897	3.306
68.50	1818.4	528.7	133.74	1.8832	3.306
69.00	1818.5	528.9	133.72	1.8768	3.307
69.50	1818.7	529.1	133.71	1.8705	3.308
70.00	1819.0	529.4	133.69	1.8643	3.309

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk. 11006 Quinque Operating Co. Adams K.C.#1-4 D.S.T.2

DATE: 02/12/36 TIME: 02:30:06

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
70.50	1819.4	529.8	133.68	1.8582	3.310
71.00	1819.5	529.9	133.66	1.8521	3.311
71.50	1819.8	530.2	133.65	1.8462	3.312
72.00	1819.9	530.3	133.63	1.8403	3.312
72.50	1820.1	530.5	133.62	1.8345	3.313
73.00	1820.4	530.8	133.60	1.8288	3.314
73.50	1820.6	531.0	133.59	1.8231	3.315
74.00	1820.8	531.2	133.58	1.8176	3.315
74.50	1820.9	531.3	133.56	1.8121	3.316
75.00	1821.2	531.6	133.55	1.8067	3.317
75.50	1821.4	531.8	133.54	1.8013	3.317
76.00	1821.5	531.9	133.53	1.7961	3.318
76.50	1821.6	531.9	133.52	1.7908	3.318
77.00	1821.6	531.9	133.50	1.7857	3.318
77.50	1821.6	532.0	133.49	1.7806	3.318
78.00	1821.7	532.1	133.48	1.7756	3.319
78.50	1822.1	532.4	133.47	1.7707	3.320
79.00	1822.1	532.5	133.46	1.7658	3.320
79.50	1822.2	532.6	133.44	1.7610	3.321
80.00	1822.4	532.8	133.43	1.7563	3.321
80.50	1822.4	532.8	133.42	1.7516	3.321
81.00	1822.7	533.1	133.41	1.7469	3.322
81.50	1822.8	533.2	133.39	1.7423	3.323
82.00	1822.8	533.2	133.38	1.7378	3.323
82.50	1822.9	533.3	133.38	1.7333	3.323
83.00	1823.1	533.4	133.35	1.7289	3.324
83.50	1823.2	533.5	133.33	1.7246	3.324
84.00	1823.2	533.6	133.33	1.7202	3.324
84.50	1823.5	533.9	133.31	1.7160	3.325
85.00	1823.5	533.9	133.31	1.7118	3.325
85.50	1823.7	534.1	133.29	1.7076	3.326
86.00	1823.7	534.1	133.28	1.7035	3.326
86.50	1823.9	534.3	133.27	1.6994	3.327
87.00	1823.9	534.3	133.26	1.6954	3.327
87.50	1823.9	534.3	133.25	1.6914	3.327
88.00	1824.2	534.5	133.24	1.6875	3.328
88.50	1824.2	534.5	133.23	1.6836	3.328
89.00	1824.2	534.6	133.21	1.6798	3.328
89.50	1824.3	534.7	133.20	1.6760	3.328
90.00	1824.5	534.9	133.19	1.6722	3.329
90.50	1824.6	535.0	133.19	1.6685	3.329
91.00	1824.7	535.0	133.17	1.6648	3.329
91.50	1824.7	535.0	133.16	1.6612	3.329
92.00	1824.8	535.2	133.15	1.6576	3.330
92.50	1824.9	535.3	133.14	1.6541	3.330
93.00	1825.1	535.5	133.14	1.6505	3.331
93.50	1825.1	535.5	133.12	1.6471	3.331
94.00	1825.3	535.7	133.11	1.6436	3.332
94.50	1825.3	535.7	133.11	1.6402	3.332
95.00	1825.2	535.6	133.10	1.6368	3.332
95.50	1825.4	535.8	133.09	1.6335	3.332

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk. 11006 Quinque Operating Co. Adams K.C.#1-4 D.S.T.2

DATE: 02/12/36 TIME: 02:30:06

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
96.00	1825.6	536.0	133.08	1.6302	3.333
96.50	1825.6	536.0	133.07	1.6269	3.333
97.00	1825.6	536.0	133.06	1.6237	3.333
97.50	1825.6	536.0	133.05	1.6205	3.333
98.00	1825.6	536.0	133.04	1.6173	3.333
98.50	1825.7	536.1	133.03	1.6142	3.333
99.00	1825.8	536.2	133.02	1.6111	3.334
99.50	1825.8	536.2	133.02	1.6080	3.334
100.00	1826.0	536.4	133.01	1.6050	3.334
100.50	1826.1	536.5	133.00	1.6020	3.335
101.00	1826.2	536.6	132.99	1.5990	3.335
101.50	1826.1	536.5	132.98	1.5961	3.335
102.00	1826.0	536.4	132.98	1.5931	3.334
102.50	1826.2	536.5	132.96	1.5902	3.335
103.00	1826.2	536.5	132.96	1.5874	3.335
103.50	1826.3	536.6	132.95	1.5845	3.335
104.00	1826.4	536.8	132.95	1.5817	3.336
104.50	1826.4	536.8	132.93	1.5789	3.336
105.00	1826.4	536.8	132.93	1.5762	3.336
105.50	1826.5	536.9	132.92	1.5735	3.336
106.00	1826.6	537.0	132.92	1.5708	3.336
106.50	1826.6	537.0	132.91	1.5681	3.336
107.00	1826.6	537.0	132.90	1.5654	3.336
107.50	1826.7	537.0	132.90	1.5628	3.337
108.00	1826.7	537.0	132.89	1.5602	3.337
108.50	1826.8	537.1	132.88	1.5576	3.337
109.00	1826.8	537.1	132.87	1.5550	3.337
109.50	1826.8	537.1	132.87	1.5525	3.337
110.00	1826.9	537.3	132.86	1.5500	3.338
110.50	1827.0	537.4	132.85	1.5475	3.338
111.00	1826.8	537.2	132.85	1.5450	3.337
111.50	1826.9	537.3	132.85	1.5426	3.338
112.00	1826.9	537.3	132.83	1.5402	3.338
112.50	1827.0	537.4	132.82	1.5378	3.338
113.00	1827.1	537.5	132.82	1.5354	3.338
113.50	1827.1	537.5	132.81	1.5330	3.338
114.00	1827.1	537.5	132.80	1.5307	3.338
114.50	1827.4	537.8	132.80	1.5284	3.339
115.00	1827.3	537.7	132.78	1.5261	3.339
115.50	1827.3	537.7	132.79	1.5238	3.339
116.00	1827.3	537.6	132.78	1.5216	3.339
116.50	1827.3	537.6	132.79	1.5193	3.339
117.00	1827.3	537.6	132.76	1.5171	3.339
117.50	1827.3	537.7	132.76	1.5149	3.339
118.00	1827.6	538.0	132.75	1.5127	3.340
118.50	1827.4	537.8	132.76	1.5105	3.340
119.00	1827.5	537.9	132.75	1.5084	3.340
***** End Shut-in 2					
***** Final Hydro.	348.00	2613.8	0.0	133.51	

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

1-316-624-2578

## Test Ticket

No. 11006

Well Name & No. Adams KC 1-4 Test No. D547 Date 2-19-98  
 Company Quinque Operating Co. Zone Tested Marmou & Chester  
 Address P.O. Box 2738 Liberal KS, 67905 Elevation 2532 KB 2520 GL  
 (Co. Rep) / Geo. Michael Moore cont. Beredeo #4 Est. Fl. of Pay      Por.      %  
 Location: Sec. 4 Twp. 35 S Rge. 30 W Co. Meade State Kans  
 No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N) Y Evaluation (Y, N)     

Interval Tested 5725-5856 Initial Str Wt/Lbs. 102,000 Unseated Str Wt/Lbs. 117,000  
 Anchor Length 131 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 130,000  
 Top Packer Depth 5720 Tool Weight 58,000  
 Bottom Packer Depth 5725 Hole Size — 7 7/8" — Rubber Size — 6 3/4" —  
 Total Depth 6553 Wt. Pipe Run      Drill Collar Run       
 Mud Wt. 9.0 LCM 4# Vis. 78 WL 8.9 Drill Pipe Size 4 1/2 x 11 FL Run 5698

Blow Description FF-off bottom of bucket in 1 min.  
FF-off bottom of bucket in 2 min.  
Notes - clock stop on recorder No. 1566, and straddle record  
look like it plug in Drill collar.

Recovery — Total Feet	GIP	Fl. in DC	Fl. in DP
2833	3069	4	2833
Rec. 1724	Feet Of <u>gassy mud</u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u>	%mud <u>96</u>
Rec. 1109	Feet Of <u>watery mud</u>	%gas <u>    </u> %oil <u>    </u> %water <u>55</u>	%mud <u>95</u>
Rec. <u>    </u>	Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u>	%mud <u>    </u>
Rec. <u>    </u>	Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u>	%mud <u>    </u>
Rec. <u>    </u>	Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u>	%mud <u>    </u>

BHT 135 °F Gravity      °API D@      °F Corrected Gravity      °API

RW 0.70 @ 70 °F Chlorides 61,000 ppm Recovery Chlorides 21,000 ppm System

(A) Initial Hydrostatic Mud 2748 PSI Recorder No. 2357 T-Started 04:41  
 (B) First Initial Flow Pressure 275 PSI (depth) 5727 T-Open 07:40  
 (C) First Final Flow Pressure 392 PSI Recorder No. 1566 T-Pulled 11:30  
 (D) Initial Shut-In Pressure 1830 PSI (depth) 5851 T-Out 15:00  
 (E) Second Initial Flow Pressure 439 PSI Recorder No. 1051  
 (F) Second Final Flow Pressure 1290 PSI (depth) 6550  
 (G) Final Shut-In Pressure 1828 PSI Initial Opening 5 Test Conventional  
 (H) Final Hydrostatic Mud 2614 PSI Initial Shut-in 45 Jars   
 Final Flow 60 Safety Joint   
 Final Shut-In 120 Straddle  n/c  
 Circ. Sub.       
 Sampler       
 Extra Packer  Shale n/c  
 Elect. Rec.   
 Other     

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Approved By: [Signature]