

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

CONFIDENTIAL

Operator: License # 31160  
Name: Phillips Exploration Co, LC  
Address 2338 Bromfield Circle  
  
City/State/Zip Wichita, Kansas 67226

Purchaser: NCRA  
Operator Contact Person: James B Phillips

Phone (316) 687-9983  
Contractor: Name: White & Ellis Drilling  
License: 5420

Wellsite Geologist: James B Phillips

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 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  PBSD  
 Conmingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_  
12/16/97 12/21/97 1/20/98  
Spud Date Date Reached TD Completion Date

KCC  
FEB 05  
CONFIDENTIAL

API NO. 15- 155-2142500-00

County Reno

SW - SW - NW Sec. 20 Twp. 23 S Rge. 07 X W

2970 Feet from S (circle one) Line of Section  
4950 Feet from E (circle one) Line of Section

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

Lease Name Miller Well # 1-20"A"  
Field Name Wildcat

Producing Formation Kansas City (Hertha)

Elevation: Ground 1598 KB 1603

Total Depth 3800 PBD 3761

Amount of Surface Pipe Set and Cemented at 225 Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

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

Drilling Fluid Management Plan ALT 1 JH 7-6-98  
(Data must be collected from the Reserve Pit)

Chloride content 10000 ppm Fluid volume 800 bbls

Dewatering method used evaporation & hauling

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

Operator Name: C & C Tank Service, Inc

Lease Name Roach SWD License No. 30708

SW Quarter Sec. 14 Twp. 23 S Rng. 09 X W

County Reno Docket No. D22208

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 James B Phillips  
Title President Date 2/4/98  
Subscribed and sworn to before me this 4th day of February, 1998.  
Notary Public Bruce G Bumgarner  
Date Commission Expires August 9, 1999

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  
 STATE  (Specify)

BRUCE G. BUMGARNER  
NOTARY PUBLIC  
STATE OF KANSAS  
MY APPT. EXPIRES

RELEASED

APR 09 1998

FROM CONFIDENTIAL

02-05-98

Operator Name Phillips Exploration Co., L.C. Lease Name Miller Well # 1-20"A"

Sec. 20 Twp. 23S Rge. 07  East  West  
 County Reno

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:  
 Dual Ind, FDC/CNL

Name	Formation (Top), Depth and Datum		Sample
	Top	Datum	
Heebner	2864	-1261	
Br Lime	3060	-1457	
B/KC	3467	-1864	
Cherokee Sh	3566	-1963	
Miss Chert	3650	-2047	
Kind Shale	3722	-2119	
TD	3800	-2197	

CASING RECORD <input type="checkbox"/> New <input checked="" 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 1/4	8 5/8	20	225	60/40Poz	200	3%CC, 2%gel
Production	7 7/8	5 1/2	15.5	3785	HowcoEA-2	125	10%salt, 1%gel
			5% Cal Seal	6 of	1% Halad 322, 5% sk Gilsonite		

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth
	4	3436 to 3444	1500 gal	15% HCL	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 7/8	3670	none	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.			Producing Method		
2/1/98			<input type="checkbox"/> Flowing <input checked="" 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
	10	TSTM	0		38

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

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled 3436-3444

Production Interval:  Other (Specify) \_\_\_\_\_



HALLIBURTON ENERGY SERVICES

1906-Q

CHARGE TO:  
**PHILLIPS EXPLORATION**  
 ADDRESS  
 CITY, STATE, ZIP CODE

CUSTOMER COPY

TICKET

No.

308276 - 1

RELEASED

PAGE 1 OF 2

SERVICE LOCATIONS 1. <b>PRATT KS 2555</b>	WELL/PROJECT NO. <b>1-20A</b>	LEASE <b>MILLER</b>	COUNTY/PARISH <b>Reno</b>	STATE <b>KS</b>	CITY/OFFSHORE LOCATION <b>PRATT</b>	DATE <b>12-22-97</b>	OWNER <b>SARVA</b>	
2.	TICKET TYPE <input type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <b>WHITE ELLIS D&amp;K</b>	RIG NAME/NO. <b># 9</b>	SHIPPED VIA <b>CT</b>	DELIVERED TO <b>FROM CONFIDENTIAL TULLSTILL</b>	ORDER NO.	
3.	<input type="checkbox"/> SALES		WELL TYPE <b>01</b>	WELL CATEGORY <b>01</b>	JOB PURPOSE <b>035</b>	WELL PERMIT NO. <b>KT 15155214250022</b>	WELL LOCATION <b>20-235-7W</b>	
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS						

FEB 03  
 CONFIDENTIAL

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
			LOC	ACCT	DF		QTY.	U/M	QTY.	U/M	
	000-117		1			MILEAGE RTP TRK # 52504	60	hrs	3	20	192 -
	000-119		1			CREW MILEAGE	60	hrs	1	95	117 -
	001-016		1			PUMP CHARGE	3735	FT	6	hrs	1311 -
	030-016		1			SW TOP Plug	1	EA	5/8 IN	66	66 -
	12A	825-205	1			GUIDE SHOE	1	EA	5/8 IN	121	121 -
	24A	815-19251	1			INSERT FLOAT VALVE	1	EA	5/8 IN	121	121 -
	27	815-19313	1			FILL WAP UNIT	1	EA	5/8 IN	76	76 -
	40	806-60022	1			CENTRALIZER	4	EA	5/8 IN	67	268 -
	320	806-71430	1			CEMENT BASKET	1	EA	5/8 IN	116	116 -
	018-315		1			MUD FLUSH	800	gals		75	375 -
	018-303		1			CLAYFLOTT	2	gals		30	60 -
	001-013		1			Add Hrs	2	hrs	per hr	291	582 -
	001-018		1			Add Hrs	1	hrs	per hr	291	291 -
			1			Bulk T # 425232					3259 107

**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.

TYPE LOCK	SUB SURFACE SAFETY VALVE WAS:		PAGE TOTAL <b>7048</b>
BEAN SIZE	<input type="checkbox"/> PULLED & RETURN	<input type="checkbox"/> PULLED <input type="checkbox"/> RUN	
DEPTH	TYPE OF EQUALIZING SUB.	CASING PRESSURE	FROM CONTINUATION PAGE(S)
SPACERS	TUBING SIZE	TUBING PRESSURE	WELL DEPTH
	TREE CONNECTION	TYPE VALVE	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

**X** *Cassey Coats*

DATE SIGNED: **12-22-97** TIME SIGNED: **03:45**

A.M.  P.M.

do  do not require IPC (Instrument Protection).  Not offered

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <i>Cassey Coats</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <b>X</b> <i>Cassey Coats</i>	HALLIBURTON OPERATOR/ENGINEER <b>Tom J. Seiba</b>	EMP # <b>61622</b>	HALLIBURTON APPROVAL
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## TERMS AND CONDITIONS

(1296)

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, Inc. (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.

# ALLIED CEMENTING CO., INC.

4493

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

SERVICE POINT:

At Bend

DATE <u>12-16-97</u>	SEC <u>20</u>	TWP. <u>23</u>	RANGE <u>7</u>	CALLED OUT <u>10:00 AM</u>	ON LOCATION <u>12:00 PM</u>	JOB START <u>3:00 PM</u>	JOB FINISH <u>3:35 PM</u>
LEASE <u>Miller</u>	WELL # <u>1-20</u>	LOCATION <u>"14 &amp; 4th St RD - 3E, 1/4 S, E/4th</u>			COUNTY <u>Lea</u>	STATE <u>Ka</u>	

OLD OR NEW (Circle one)

**CONFIDENTIAL**

CONTRACTOR White's Eddy Rig # 8

TYPE OF JOB Surface

HOLE SIZE 12 1/4" T.D. 225'

CASING SIZE 8 5/8" DEPTH 224'

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

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

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

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

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

CEMENT LEFT IN CSG. 15'

PERFS. Dimp = 13 1/2 bls,

OWNER Same CEMENT

AMOUNT ORDERED 200 lbs 6 3/4 4 3/4 L.C.

2 7/8 Hel RELEASED

**EQUIPMENT**

PUMP TRUCK CEMENTER James D

# 181 HELPER Bob B

BULK TRUCK DRIVER Richard

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

BULK TRUCK DRIVER \_\_\_\_\_

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

COMMON	<u>120</u>	@	<u>6.35</u>	<u>762.00</u>
POZMIX	<u>80</u>	@	<u>3.25</u>	<u>260.00</u>
GEL	<u>3</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>8</u>	@	<u>28.00</u>	<u>224.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>200</u>	@	<u>1.05</u>	<u>210.00</u>
MILEAGE	<u>38</u>			<u>304.00</u>
RELEASED				

TOTAL \$ 1788.50

APR 09 1999.

**REMARKS:**

FROM CONFIDENTIAL SERVICE

Ran 224' of 8 5/8" cas. Broke circulation  
mixed 200 lbs 6 3/4 4 3/4 L.C., 2 7/8 Hel,  
Released Plug. Displaced with fresh  
water.

Cement did circulate.

Richard

DEPTH OF JOB	<u>224'</u>			
PUMP TRUCK CHARGE				<u>470.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>38</u>	@	<u>2.85</u>	<u>108.30</u>
PLUG <u>1-8 5/8 Warden</u>		@	<u>45.00</u>	<u>45.00</u>
		@		
		@		

TOTAL \$ 623.30

CHARGE TO: Phillips Exploration Co. L.C.

STREET 2338 Bramfield Circle

CITY Wichita STATE Ka ZIP 67226

**FLOAT EQUIPMENT**

	@		
	@		
	@		
	@		
	@		

ORIGINAL

APR 09 1999 TOTAL

TAX FROM CONFIDENTIAL

TOTAL CHARGE \$ 2411.80

DISCOUNT \$ 361.77 IF PAID IN 30 DAYS

FEB 05

CONFIDENTIAL Net \$ 2050.03

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

SIGNATURE

Donald A. Daniel Rig #9

COMMISSION

## GENERAL TERMS AND CONDITIONS

**DEFINITIONS:** In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—**SERVICE CONDITIONS AND LIABILITIES:** 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

**WARRANTIES:** 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

ORIGINAL

Well Name:  
Company:  
Location:  
Date:

Miller #1-20A  
Phillips Exploration Co. L.C.  
20-23S-7W  
Reno County Kansas  
12-23-97

15-155-21425

KCC

FEB 05

CONFIDENTIAL

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : Phillips Exploration DATE 12-19-97  
 WELL NAME: Miller #1-20A KB 1603.00 ft TICKET NO: 10886 DST #1  
 LOCATION : 20-23S-7W Reno Co KS GR 1598.00 ft FORMATION: KC Hertha  
 INTERVAL : 3420.00 To 3463.00 ft TD 3463.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	10270	10270	13548			PF Fr. 1425 to 1510 hr
SI 45	Range(Psi )	4150.0	4150.0	4075.0	0.0	0.0	IS Fr. 1510 to 1555 hr
SF 60	Clock(hrs)	12hr	12hr	12hr			SF Fr. 1555 to 1655 hr
FS 60	Depth(ft )	3423.0	3423.0	3426.0	0.0	0.0	FS Fr. 1655 to 1755 hr

	Field	1	2	3	4	
A. Init Hydro	1661.0	1660.0	0.0	0.0	0.0	T STARTED 1245 hr
B. First Flow	62.0	92.0	0.0	0.0	0.0	T ON BOTM 1420 hr
B1. Final Flow	41.0	47.0	0.0	0.0	0.0	T OPEN 1425 hr
C. In Shut-in	1081.0	1016.0	0.0	0.0	0.0	T PULLED 1755 hr
D. Init Flow	62.0	62.0	0.0	0.0	0.0	T OUT 2030 hr
E. Final Flow	52.0	56.0	0.0	0.0	0.0	
F. Fl Shut-in	1184.0	1195.0	0.0	0.0	0.0	
G. Final Hydro	1661.0	1676.0	0.0	0.0	0.0	
Inside/Outside	o	o	i			

RECOVERY

Tot Fluid 70.00 ft of 0.00 ft in DC and 70.00 ft in DP  
 10.00 ft of Heavy oil cut mud 3% gas 22% oil 75% water  
 60.00 ft of Heavy oil and gas cut mud  
 0.00 ft of 30% gas 22% oil 48% mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:  
 Weak building to a strong blow in 15 min.

Final Flow:  
 Strong blow throughout

SAMPLES:  
 SENT TO:

TOOL DATA-----

Tool Wt. 2900.00 lb  
 Wt Set On Packer 20000.00 lb  
 Wt Pulled Loose 60000.00 lb  
 Initial Str Wt 43000.00 lb  
 Unseated Str Wt 47000.00 lb  
 Bot Choke 0.75 in  
 Hole Size 7.88 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.50 in  
 D.C. Length 0.00 ft  
 D.P. Length 3420.00 ft

MUD DATA-----

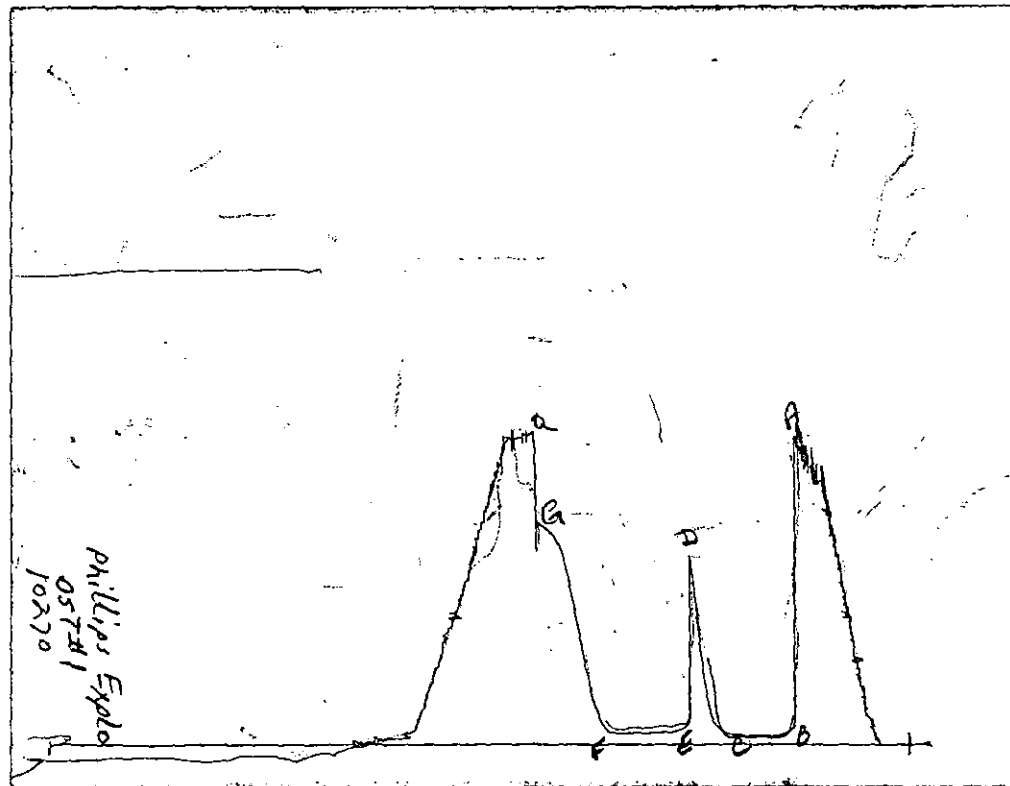
Mud Type Chemical  
 Weight 9.00 lb  
 Vis. 44.00 S/  
 W.L. 9.60 in  
 F.C. 0.00 in  
 Mud Drop

Amt. of fill 0.00 ft  
 Btm. H. Temp. 105.00 F  
 Hole Condition  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out  
 Tool Chased  
 Tester Ray Schwager  
 Co. Rep. Jim Phillips  
 Contr. White & Ellis  
 Rig #  
 Unit #  
 Pump T.

Test Successful: Y



CHART PAGE



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

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 10886

Well Name & No. <u>Miller #1-20A</u>	Test No. <u>1</u>	Date <u>12-</u>
Company <u>Phillips Exploration Company L.C.</u>	Zone Tested <u>K.C. Hepta</u>	
Address <u>2338 Bromfield Circle Wichita, Ks 67226</u>		Elevation <u>1603</u> KB <u>1598</u> GL
Co. Rep / Geo. <u>Jim Phillips</u>	Cont. <u>White &amp; Ellis</u>	Est. Ft. of Pay <u>    </u> Por. <u>    </u> %
Location: Sec. <u>20</u>	Twp. <u>23'</u>	Rge. <u>7"</u> Co. <u>Peno</u> State <u>Ks</u>
No. of Copies <u>Reg</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) <u>N</u>

Interval Tested <u>3420-3463</u>	Initial Str Wt./Lbs. <u>43000</u>	Unseated Str Wt./Lbs. <u>47000</u>
Anchor Length <u>43</u>	Wt. Set Lbs. <u>20000</u>	Wt. Pulled Loose/Lbs. <u>60000</u>
Top Packer Depth <u>3415</u>	Tool Weight <u>2900</u>	
Bottom Packer Depth <u>3420</u>	Hole Size — 7 7/8" <u>yes</u>	Rubber Size — 6 3/4" <u>yes</u>
Total Depth <u>3463</u>	Wt. Pipe Run <u>    </u>	Drill Collar Run <u>    </u>
Mud Wt. <u>9</u> LCM <u>-</u> Vis. <u>44</u> WL <u>9.6</u>	Drill Pipe Size <u>4 1/2 X H</u>	Ft. Run <u>3420</u>
Blow Description <u>IEP - WEAK building to a STRONG Blow in 15 min</u> <u>FFP - STRONG Blow throughout</u>		

Recovery — Total Feet <u>70</u>	GIP <u>1540</u>	Ft. in DC <u>    </u>	Ft. in DP <u>70</u>
Rec. <u>10</u> Feet Of <u>Heavy Oil cut mud</u>	<u>3</u> % gas	<u>22</u> % oil	<u>    </u> % water <u>75</u> % mud
Rec. <u>60</u> Feet Of <u>HEAVY OIL + gas cut mud</u>	<u>30</u> % gas	<u>22</u> % oil	<u>    </u> % water <u>48</u> % mud
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> % gas	<u>    </u> % oil	<u>    </u> % water <u>    </u> % mud
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> % gas	<u>    </u> % oil	<u>    </u> % water <u>    </u> % mud
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> % gas	<u>    </u> % oil	<u>    </u> % water <u>    </u> % mud

BHT <u>105°</u>	°F Gravity <u>    </u>	°API D@ <u>    </u>	°F Corrected Gravity <u>    </u>	°API <u>    </u>
RW <u>    </u> @ <u>    </u>	°F Chlorides <u>    </u>	ppm Recovery Chlorides <u>5000</u>	ppm System <u>    </u>	
(A) Initial Hydrostatic Mud <u>1661</u>	PSI	Recorder No. <u>10270</u>	T-Started <u>12:45 pm</u>	
(B) First Initial Flow Pressure <u>62</u>	PSI	(depth) <u>3423</u>	T-Open <u>2:25 pm</u>	
(C) First Final Flow Pressure <u>41</u>	PSI	Recorder No. <u>13548</u>	T-Pulled <u>5:55 pm</u>	
(D) Initial Shut-in Pressure <u>1018</u>	PSI	(depth) <u>3426</u>	T-Out <u>8:30 pm</u>	
(E) Second Initial Flow Pressure <u>62</u>	PSI	Recorder No. <u>    </u>		
(F) Second Final Flow Pressure <u>52</u>	PSI	(depth) <u>    </u>		
(G) Final Shut-in Pressure <u>1184</u>	PSI	Initial Opening <u>45</u>	Test <input checked="" type="checkbox"/>	
(H) Final Hydrostatic Mud <u>1661</u>	PSI	Initial Shut-in <u>45</u>	Jars <u>    </u>	

Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/>
Final Shut-in <u>60</u>	Straddle <u>    </u>
	Circ. Sub <u>    </u>
	Sampler <u>    </u>
	Extra Packer <u>    </u>
	Elect. Rec. <u>    </u>
	Other <u>    </u>

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Approved By 