

**CONFIDENTIAL**

SIDE ONE

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

API NO. 15- 193-20,656-0000

County Thomas **ORIGINAL**

W/2. W/2 NE- Sec. 11 Twp. 6 Rge. 33W EV

1320 Feet from S/W (circle one) Line of Section

2310 Feet from S/W (circle one) Line of Section

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

Lease Name Franklin Well # 1

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

Producing Formation Pawnee, L/KC

Elevation: Ground 3095 xB 3105

Total Depth 4580 P8TD 4508

Amount of Surface Pipe Set and Cemented at 287 Feet

Multiple Stage Cementing Collar Used? X Yes \_\_\_\_\_ No

If yes, show depth set 2679 Feet

If Alternate II completion, cement circulated from 2679

feet depth to surface w/ 900 sx cat.

Operator: License # 4767

Name: Ritchie Exploration, Inc.

Address 8100 E. 22nd N. #700

City/State/Zip Wichita, KS 67226

Purchaser: Koch Oil

Operator Contact Person: Lisa Thimmesch

Phone ( 316 ) 691-9500

Contractor: Name: White & Ellis

License: 5420

Wellsite Geologist: J. Christian

Designate Type of Completion  
X New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover

X Oil \_\_\_\_\_ SWD \_\_\_\_\_ SLOW \_\_\_\_\_ 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 \_\_\_\_\_ P8TD

\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_

\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_

\_\_\_\_\_ Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

12-10-96 12-21-96 2-6-97

Spud Date Date Reached TD Completion Date

Drilling Fluid Management Plan AH-2, 9-24-98 U.C.  
Data must be collected from the Reserve Pit) DK'd by Dist. 4.

Chloride content 4500 ppm Fluid volume 698 bbls

De-watering method used evaporation

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

Operator Name \_\_\_\_\_

License No. \_\_\_\_\_

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

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

RELEASED  
5-18-99  
MAY 18 1999  
FROM CONFIDENTIAL

KEEP THIS INFORMATION CONFIDENTIAL  
APR 22  
CONFIDENTIAL

42597

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 Lisa Thimmesch

Title President Date 4/23/97

Subscribed and sworn to before me this 23rd day of April 19 97

Notary Public Lisa Thimmesch

Date Commission Expires \_\_\_\_\_

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

LISA THIMMESCH  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. 8-28-99

Operator Name Ritchie Exploration, Inc. Lease Name Franklin Well # 1

Sec. 11 Twp. 6 Rgs. 33W  East  West  
 County Thomas

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.)

Log Formation (Top), Depth and Datum  Sample Name Top Datum

See attached sheet

List All E.Logs Run:  
 Array Induction Shallow Focused Log,  
 Compensated Neutron Compensated Photo-Density Log  
 Temperature Log, Gamma Ray Correlation Log

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediates, 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"		287'	60/40 poz	165	2%gel 4%CC
production	7 7/8"	4 1/2"	10.5#	4574'	ASC	235	10%salt 5#/sx Gilsoni

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	3975-4124	Common	100	
<input type="checkbox"/> Plug Back TD				
<input checked="" 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
3	4346'-52' Pawnee	1000 gal 15% NE	Pawnee
3	4145'-54' L/KC J	1000 gal 15% NE	J zone
3	4060'-4062' L/KC F	150 gal 15% NE, w/fe	F zone

TUBING RECORD Size 2 3/8" Set At 4444 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 2-7-97 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	32.57		30 BW		

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

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled

Production Interval \_\_\_\_\_

**RITCHIE EXPLORATION, INC.**

125 N. Market - Suite 1000  
Wichita, Kansas 67202-1775  
316-267-4375 FAX 316-267-3026

**ORIGINAL**

**RELEASED**

**MAY 18 1999**

**CONFIDENTIAL**

**FROM CONFIDENTIAL**

#1 Franklin  
W/2 W/2 NE  
Section 11-6S-33W  
Thomas County, Kansas  
API# 15-193-20,656  
White & Ellis Rig #9  
Elevation: 3095' GL 3105' KB (Elevation raised 2' per tool pusher)

Log Tops

Anhydrite 2700'(+ 405)  
B/Anhy 2734'(+ 371)  
Topeka 3718'(- 613)  
Heebner 3945'(- 840)  
Toronto 3976'(- 871)  
Lansing 3990'(- 885)  
Stark 4164'(-1059)  
B/KC 4224'(-1119)  
Marmaton 4236'(-1131)  
Pawnee 4344'(-1239)  
Fort Scott 4407'(-1302)  
Cher Sh 4425'(-1320)  
Cher Lm 4443'(-1338)  
Mississippi 4548'(-1443)  
LTD 4574'(-1469)

PLEASE KEEP THIS  
INFORMATION  
CONFIDENTIAL

KCC  
APR 22  
CONFIDENTIAL

DST #1 from 3942' to 4006' (Toronto and L/KC "A" zone). Recovered 90' of mud and 1221' of water.

IFP:104-387#/30"; ISIP:1243#/30";  
FFP:460-617#/30"; FSIP:1233#/30".

DST #2 from 4007' to 4026' (L/KC "C" zone). Recovered 1' of mud.

IFP:10-10#/30"; ISIP:10#/30";  
FFP:10-10#/30"; FSIP:20#/30".

DST #3 from 4022' to 4040' (L/KC "D" zone). Recovered 30' of mud and 488' water.

IFP:52-115#/30"; ISIP:1285#/30";  
FFP:198-240#/30"; FSIP:1254#/30".

DST #4 from 4039' to 4070' (L/KC "F" zone). Recovered 180' of gas in pipe, 65' of oil, 61' of mud cut oil (80% oil, 20% mud), and 122' of mud cut oil (75% oil, 25% mud). Total fluid 248'.

IFP:31-41#/30"; ISIP:1181#/45";  
FFP:73-83#/45"; FSIP:1150#/60".

CONFIDENTIAL

ORIGINAL

DST #5 from 4118' to 4170' (L/KC "J" zone). Recovered 90' of mud cut oil (50% oil, 50% mud), 150' heavy oil cut mud (35% oil, 65% mud), and 30' muddy water (60% water, 40% mud). Total fluid 270' (36% oil, 57% mud, 7% water).  
IFP:52-73#/45"; ISIP:188#/60";  
FFP:125-135#/45"; FSIP:188#/60".

RELEASED

DST #6 from 4282' to 4373' (Pawnee). Recovered 5' of mud.  
IFP:20-20#/30"; ISIP:83#/45";  
FFP:20-20#/30"; FSIP:73#/45".

MAY 18 1999

FROM CONFIDENTIAL

KCC

APR 22

CONFIDENTIAL

PLEASE KEEP THIS  
INFORMATION  
CONFIDENTIAL

11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100

# ALLIED CEMENTING CO., INC.

5253

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

SERVICE POINT:

Oakley

ORIGINAL

DATE <u>12-10-96</u>	SEC. <u>11</u>	TWP. <u>5</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>5:15 AM</u>	JOB START <u>9:20 AM</u>	JOB FINISH <u>10:00 AM</u>
LEASE <u>Franklin</u>	WELL# <u>1</u>	LOCATION <u>Colby 10N-4E-3.S.</u>			COUNTY <u>Thomas</u>	STATE <u>Kan</u>	

OLD OR NEW (Circle one)

CONFIDENTIAL

CONTRACTOR White + Ellis Drly #9

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 288'

CASING SIZE 8 5/8 DEPTH 287'

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

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

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

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

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

CEMENT LEFT IN CSG. 15'

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

OWNER Same

CEMENT

AMOUNT ORDERED 165 SKS 60/40 P02  
3% CC - 2% Gel

COMMON	<u>99</u>	SKS	@	<u>7.20</u>	<u>712.80</u>
POZMIX	<u>66</u>	SKS	@	<u>3.15</u>	<u>207.90</u>
GEL	<u>3</u>	SKS	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5</u>	SKS	@	<u>28.00</u>	<u>140.00</u>

RELEASED

MAY 18 1999

EQUIPMENT

FROM CONFIDENTIAL

PUMP TRUCK CEMENTER Walt

# 102 HELPER Walt

BULK TRUCK

# 218 DRIVER Dean

BULK TRUCK

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

HANDLING	<u>165</u>	SKS	@	<u>1.05</u>	<u>173.25</u>
MILEAGE	<u>4¢</u>	per SK/mile			<u>231.00</u>

NO

TOTAL 1,493.45

APR 22

REMARKS:

CONFIDENTIAL SERVICE

Cement Did Cure

Donald A. Newel

DEPTH OF JOB					
PUMP TRUCK CHARGE					<u>445.00</u>
EXTRA FOOTAGE			@		
MILEAGE	<u>35-</u>	miles	@	<u>2.85</u>	<u>99.75</u>
PLUG	<u>8 5/8</u>	Surface	@		<u>45.00</u>

TOTAL 589.75

CHARGE TO: Ritchie Explorations, Inc

STREET 125 N. Market #1000

CITY Wichita STATE Kansas ZIP 67202

FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_

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

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

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. Newel Rig #9

## 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.



## 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 willful 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.





## 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.

# ALLIED CEMENTING CO., INC.

6760

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

ORIGINAL

SERVICE POINT:

*R*

DATE <i>1-9-97</i>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>Franklin</i> WELL # <i>1</i>			LOCATION <i>Colby 11N 42E 4S</i>			COUNTY <i>Thomas</i>	STATE <i>Ks</i>
OLD OR NEW (Circle one)							

CONTRACTOR \_\_\_\_\_

TYPE OF JOB *Backside Squeezer*

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_

CASING SIZE *4 1/2* DEPTH \_\_\_\_\_

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

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

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

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

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

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

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

OWNER \_\_\_\_\_

**CONFIDENTIAL** CEMENT

AMOUNT ORDERED *200<sup>50</sup>/<sub>50</sub> 6% gel*

COMMON	<i>100</i>	@	<i>720</i>	<i>720.00</i>
POZMIX	<i>100</i>	@	<i>315</i>	<i>315.00</i>
GEL	<i>10</i>	@	<i>950</i>	<i>95.00</i>
CHLORIDE		@		
		@		
		@		
		@		
		@		
HANDLING		@	<i>105</i>	<i>210.00</i>
MILEAGE <i>34m</i>		@	<i>04</i>	<i>272.00</i>

MAY 18 1999

**EQUIPMENT**

*177*

PUMP TRUCK # \_\_\_\_\_ CEMENTER *Dave* FROM CONFIDENTIAL

HELPER *Neil*

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

BULK TRUCK # *218* DRIVER *Jason*

TOTAL *1612.00*

APR 22

**CONFIDENTIAL SERVICE**

**REMARKS:**

*max 300 psi*

*shut in @ 100 psi*

DEPTH OF JOB				
PUMP TRUCK CHARGE				<i>445.00</i>
EXTRA FOOTAGE		@		
MILEAGE <i>34</i>		@	<i>285</i>	<i>96.90</i>
PLUG		@		
		@		
		@		

TOTAL *541.90*

CHARGE TO: *Ritchie Exploration*

STREET *125 N Market #1000*

CITY *Wichita* STATE *Kan* ZIP *67202*

**FLOAT EQUIPMENT**

	@		
	@		
	@		
	@		
	@		

TOTAL \_\_\_\_\_

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

SIGNATURE \_\_\_\_\_

TAX \_\_\_\_\_

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

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

## 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.



# 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.

CONFIDENTIAL

ORIGINAL

DST REPORT

APR 22

RELEASED

CONFIDENTIAL

GENERAL INFORMATION

MAY 18 1999

15-193-20656

DATE : 12/15/96	TICKET : 21847
CUSTOMER : RITCHIE EXPLORATION INC	LEASE : FRANKLIN
WELL : #1	GEOLOGIST : CHRISTIAN
ELEVATION: 3105 KB	FORMATION: TORONTO-L KANS. CITY
SECTION : 11	TOWNSHIP : 6S
RANGE : 33W	STATE : KS
GAUGE SN#: 13551	CLOCK : 12
COUNTY: THOMAS	
RANGE : 4150	

WELL INFORMATION

PERFORATION INTERVAL FROM: 3942.00 ft	TO: 4006.00 ft	TVD: 4006.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 3945.0 ft	3948.0 ft	
TEMPERATURE: 112.0		
DRILL COLLAR LENGTH: 0.0 ft	I.D.: 0.000 in	
WEIGHT PIPE LENGTH : 0.0 ft	I.D.: 0.000 in	
DRILL PIPE LENGTH : 3919.0 ft	I.D.: 3.800 in	
TEST TOOL LENGTH : 23.0 ft	TOOL SIZE : 5.500 in	
ANCHOR LENGTH : 64.0 ft	ANCHOR SIZE: 5.500 in	
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE: 0.750 in	
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE : 4.5XH	
PACKER DEPTH: 3937.0 ft	SIZE: 6.750 in	
PACKER DEPTH: 3942.0 ft	SIZE: 6.750 in	
PACKER DEPTH: 0.0 ft	SIZE: 0.000 in	
PACKER DEPTH: 0.0 ft	SIZE: 0.000 in	

MUD INFORMATION

DRILLING CON. : WHITE & ELLIS	VISCOSITY : 46.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 8.000 cc
WEIGHT : 8.900 ppg	SERIAL NUMBER:
CHLORIDES : 1600 ppm	REVERSED OUT?: NO
JARS-MAKE :	
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET IN 3 MINUTES. FINAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET IN 6 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	0.0	0.0	0.0	100.0	MUD
1221.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 34000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	1.2624	STB	AVERAGE WATER RATE:	411.0283	STB/D
WATER VOLUME:	17.1262	STB			
TOTAL FLUID :	18.3886	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1905.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	104.00	387.00
INITIAL SHUT-IN	30.00		1243.00
FINAL FLOW	30.00	460.00	617.00
FINAL SHUT-IN	30.00		1233.00

FINAL HYDROSTATIC PRESSURE: 1884.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1900.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	101.90	376.26
INITIAL SHUT-IN	30.00		1226.24
FINAL FLOW	30.00	445.93	598.35
FINAL SHUT-IN	30.00		1227.11

FINAL HYDROSTATIC PRESSURE: 1887.00



FLUID SAMPLE REPORT

GENERAL INFORMATION

DATE : 12/15/96	TICKET : 21847
CUSTOMER : RITCHIE EXPLORATION INC	LEASE : FRANKLIN
WELL : #1 TEST: 1	GEOLOGIST: CHRISTIAN
ELEVATION: 3105 KB	FORMATION: TORONTO-L KANS. CITY
SECTION : 11	TOWNSHIP : 6S
RANGE : 33W COUNTY: THOMAS	STATE : KS
GAUGE SN#: 13551 RANGE : 4150	CLOCK : 12

SAMPLE INFORMATION

PRESSURE IN SAMPLER: 300.00 PSIG	BHT: 112.0 DEG F
TOTAL VOLUME OF SAMPLER: 3150.00 cc	
TOTAL VOLUME OF SAMPLE: 3150.00 cc	
OIL: 0.00 cc	
WATER: 3150.00 cc	
MUD: 0.00 cc	
GAS: 0.00 cc	
OTHER: 0.00 cc	

RESISTIVITY

DRILLING MUD: .22 @ 65 DEGREES F	CHLORIDE CONTENT: 34000.00 ppm
MUD PIT SAMPLE: 2.0 @ 65 DEGREES F	CHLORIDE CONTENT: 1600.00 ppm
GAS/OIL RATIO:	GRAVITY:
WHERE WAS SAMPLE DRAINED:	
REMARKS:	

Company: RITCHIE EXPLORATION INC  
 Well: #1 FRANKLIN  
 Field: TKT 21847 DST 1

[Sunday: Dec. 15, 1996]  
 Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	17:35:36	0.0000	101.90
5	0	17:36: 5	0.0080	101.90
14	0	17:37: 9	0.0260	98.42
23	0	17:38:14	0.0440	98.42
32	0	17:39:19	0.0619	99.29
41	0	17:40:24	0.0799	102.77
50	0	17:41:28	0.0979	110.61
59	0	17:42:33	0.1159	118.45
68	0	17:43:38	0.1339	126.29
77	0	17:44:43	0.1519	135.87
86	0	17:45:47	0.1699	149.81
95	0	17:46:52	0.1878	160.26
104	0	17:47:57	0.2058	174.19
113	0	17:49: 2	0.2238	187.26
122	0	17:50: 6	0.2418	199.45
131	0	17:51:11	0.2598	216.00
140	0	17:52:16	0.2778	228.19
149	0	17:53:21	0.2958	238.64
158	0	17:54:25	0.3137	249.97
167	0	17:55:30	0.3317	263.03
176	0	17:56:35	0.3497	272.61
185	0	17:57:40	0.3677	286.55
194	0	17:58:44	0.3857	299.61
203	0	17:59:49	0.4037	312.68
212	0	18: 0:54	0.4216	321.38
221	0	18: 1:59	0.4396	332.71
230	0	18: 3: 3	0.4576	344.90
239	0	18: 4: 8	0.4756	353.61
248	0	18: 5:13	0.4936	363.19
257	0	18: 6:18	0.5116	376.26
END FLOW 1				
START SHUTIN 1				
265	0	18: 7:15	0.5276	405.00
266	0	18: 7:22	0.5296	526.93
275	0	18: 8:27	0.5476	1109.15
284	0	18: 9:32	0.5655	1134.30
293	0	18:10:37	0.5835	1148.18
302	0	18:11:41	0.6015	1156.85
311	0	18:12:46	0.6195	1165.53
320	0	18:13:51	0.6375	1173.33
329	0	18:14:56	0.6555	1180.27
338	0	18:16: 0	0.6734	1185.47
347	0	18:17: 5	0.6914	1188.94
356	0	18:18:10	0.7094	1193.28
365	0	18:19:15	0.7274	1196.75
374	0	18:20:19	0.7454	1200.22
383	0	18:21:24	0.7634	1201.95
392	0	18:22:29	0.7814	1204.56
401	0	18:23:34	0.7993	1207.16
410	0	18:24:38	0.8173	1208.89
419	0	18:25:43	0.8353	1210.63
428	0	18:26:48	0.8533	1212.36
437	0	18:27:53	0.8713	1214.10
446	0	18:28:57	0.8893	1215.83

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC  
Well: #1 FRANKLIN  
Field: TKT 21847 DST 1

[Sunday: Dec. 15, 1996]  
Page 2

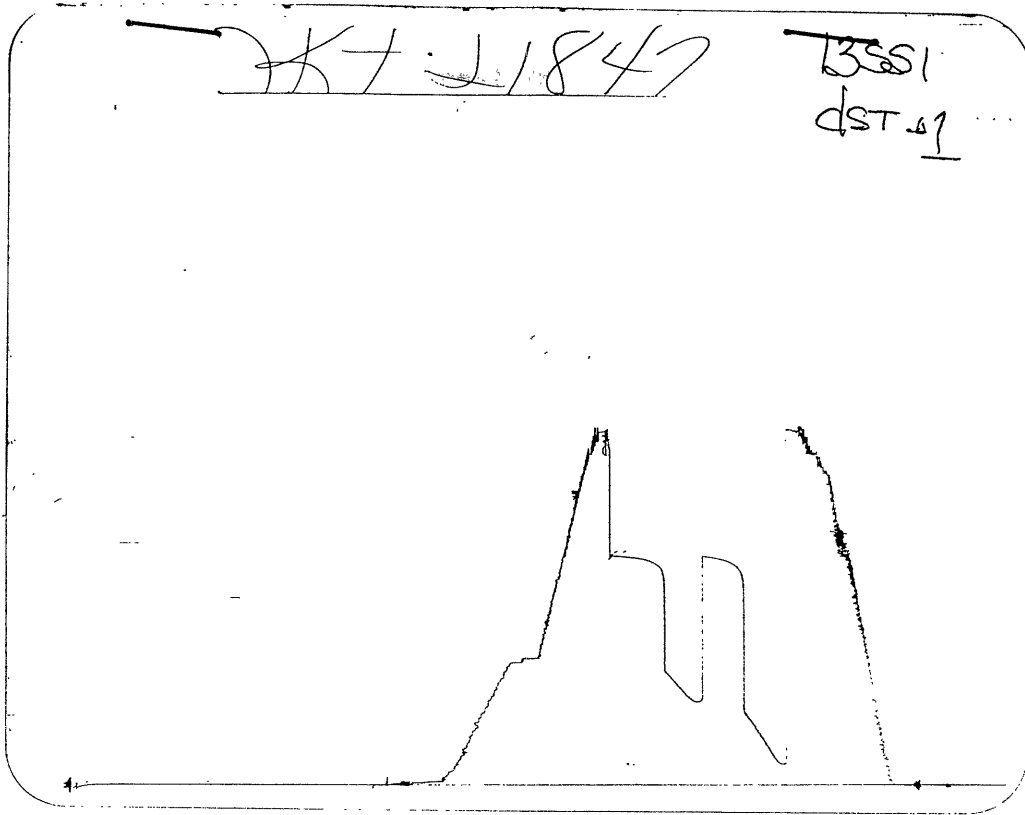
REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
455	0	18:30: 2	0.9073	1217.57
464	0	18:31: 7	0.9252	1218.43
473	0	18:32:12	0.9432	1220.17
482	0	18:33:16	0.9612	1221.03
491	0	18:34:21	0.9792	1221.90
500	0	18:35:26	0.9972	1223.64
509	0	18:36:31	1.0152	1224.50
518	0	18:37:35	1.0331	1225.37
527	0	18:38:40	1.0511	1226.24
END SHUTIN 1				
START FLOW 2				
533	0	18:39:23	1.0631	445.93
536	0	18:39:45	1.0691	445.93
545	0	18:40:50	1.0871	439.84
554	0	18:41:54	1.1051	437.22
563	0	18:42:59	1.1231	437.22
572	0	18:44: 4	1.1410	437.22
581	0	18:45: 9	1.1590	439.84
590	0	18:46:13	1.1770	443.32
599	0	18:47:18	1.1950	448.55
608	0	18:48:23	1.2130	454.64
617	0	18:49:27	1.2310	460.74
626	0	18:50:32	1.2490	468.58
635	0	18:51:37	1.2670	476.42
644	0	18:52:42	1.2849	485.13
653	0	18:53:46	1.3029	493.84
662	0	18:54:51	1.3209	503.42
671	0	18:55:56	1.3389	511.25
680	0	18:57: 1	1.3569	519.96
689	0	18:58: 5	1.3749	528.67
698	0	18:59:10	1.3928	537.38
707	0	19: 0:15	1.4108	546.96
716	0	19: 1:20	1.4288	555.67
725	0	19: 2:24	1.4468	564.38
734	0	19: 3:29	1.4648	573.09
743	0	19: 4:34	1.4828	581.80
752	0	19: 5:39	1.5008	589.64
761	0	19: 6:43	1.5187	598.35
END FLOW 2				
START SHUTIN 2				
766	0	19: 7:19	1.5287	930.19
770	0	19: 7:48	1.5367	1100.48
779	0	19: 8:53	1.5547	1135.17
788	0	19: 9:58	1.5727	1153.38
797	0	19:11: 2	1.5907	1164.66
806	0	19:12: 7	1.6087	1171.60
815	0	19:13:12	1.6266	1178.54
824	0	19:14:17	1.6446	1183.74
833	0	19:15:21	1.6626	1187.21
842	0	19:16:26	1.6806	1191.55
851	0	19:17:31	1.6986	1195.01
860	0	19:18:36	1.7166	1198.48
869	0	19:19:40	1.7346	1200.22
878	0	19:20:45	1.7525	1202.82
887	0	19:21:50	1.7705	1204.56

Company: RITCHIE EXPLORATION INC  
 Well: #1 FRANKLIN  
 Field: TKT 21847 DST 1

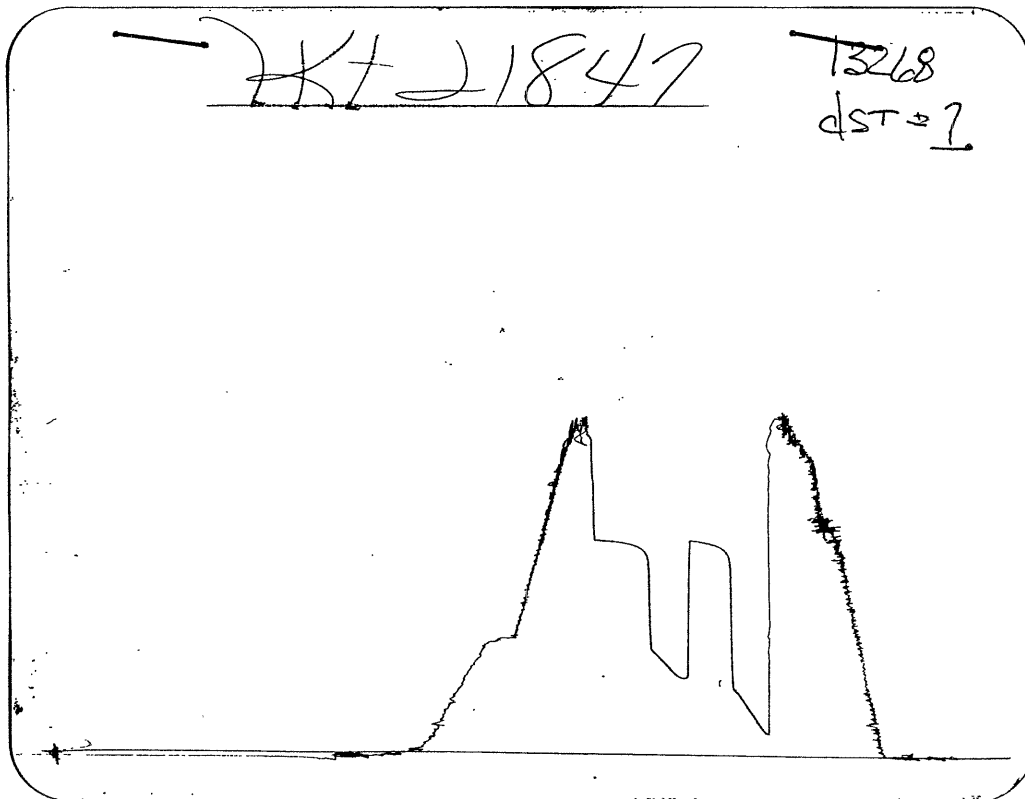
[Sunday: Dec. 15, 1996]  
 Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
896	0	19:22:55	1.7885	1206.29
905	0	19:23:59	1.8065	1208.89
914	0	19:25: 4	1.8245	1209.76
923	0	19:26: 9	1.8425	1210.63
932	0	19:27:14	1.8605	1212.36
941	0	19:28:18	1.8784	1214.10
950	0	19:29:23	1.8964	1214.96
959	0	19:30:28	1.9144	1215.83
968	0	19:31:33	1.9324	1215.83
977	0	19:32:37	1.9504	1216.70
986	0	19:33:42	1.9684	1217.57
995	0	19:34:47	1.9864	1218.43
1004	0	19:35:52	2.0043	1218.43
1013	0	19:36:56	2.0223	1220.17
1022	0	19:38: 1	2.0403	1220.17
1031	0	19:39: 6	2.0583	1221.03
1040	0	19:40:11	2.0763	1222.77
1049	0	19:41:15	2.0943	1222.77
1058	0	19:42:20	2.1122	1222.77
1067	0	19:43:25	2.1302	1223.64
1076	0	19:44:30	2.1482	1223.64
1085	0	19:45:34	2.1662	1224.50
1094	0	19:46:39	2.1842	1226.24
1103	0	19:47:44	2.2022	1227.11

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 12/16/96	TICKET : 21848
CUSTOMER : RITCHIE EXPLORATION INC	LEASE : FRANKLIN
WELL : #1 TEST: 2	GEOLOGIST: CHRISTIAN
ELEVATION: 3105 KB	FORMATION: L KANSAS CITY C
SECTION : 11	TOWNSHIP : 6S
RANGE : 33W COUNTY: THOMAS	STATE : KS
GAUGE SN#: 13551 RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4007.00 ft	TO: 4026.00 ft	TVD: 4026.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 4010.0 ft	4013.0 ft	
TEMPERATURE: 112.0		

DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3984.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 23.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 19.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 4002.0 ft	SIZE:	6.750 in
PACKER DEPTH: 4007.0 ft	SIZE:	6.750 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : WHITE & ELLIS	VISCOSITY : 45.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 8.000 cc
WEIGHT : 9.000 ppg	
CHLORIDES : 3800 ppm	SERIAL NUMBER:
JARS-MAKE :	REVERSED OUT?: NO
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK SURFACE BLOW. FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0140	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0140	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1946.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	10.00	10.00
INITIAL SHUT-IN	30.00		10.00
FINAL FLOW	30.00	10.00	10.00
FINAL SHUT-IN	30.00		20.00

FINAL HYDROSTATIC PRESSURE: 1905.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1959.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	5.23	7.84
INITIAL SHUT-IN	30.00		8.71
FINAL FLOW	30.00	7.84	9.58
FINAL SHUT-IN	30.00		21.77

FINAL HYDROSTATIC PRESSURE: 1938.00

FLUID SAMPLE REPORT

GENERAL INFORMATION

DATE : 12/16/96	TICKET : 21848
CUSTOMER : RITCHIE EXPLORATION INC	LEASE : FRANKLIN
WELL : #1                      TEST: 2	GEOLOGIST: CHRISTIAN
ELEVATION: 3105 KB	FORMATION: L KANSAS CITY C
SECTION : 11	TOWNSHIP : 6S
RANGE : 33W                      COUNTY: THOMAS	STATE : KS
GAUGE SN#: 13551                      RANGE : 4150	CLOCK : 12

SAMPLE INFORMATION

PRESSURE IN SAMPLER:	10.00 PSIG	BHT: 112.0 DEG F
TOTAL VOLUME OF SAMPLER:	3150.00 CC	
TOTAL VOLUME OF SAMPLE:	3150.00 CC	
OIL:	0.00 CC	
WATER:	0.00 CC	
MUD:	3150.00 CC	
GAS:	0.00 CC	
OTHER:	0.00 CC	

RESISTIVITY

DRILLING MUD:	CHLORIDE CONTENT: 0.00 ppm
MUD PIT SAMPLE:	CHLORIDE CONTENT: 0.00 ppm
GAS/OIL RATIO:	GRAVITY:
WHERE WAS SAMPLE DRAINED:	
REMARKS:	



Company: RITCHIE EXPLORATION INC  
Well: #1 FRANKLIN  
Field: TKT 21848 DST 2

[Monday: Dec. 16, 1996]  
Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	9:10:29	0.0000	5.23
6	0	9:11: 5	0.0100	5.23
15	0	9:12: 9	0.0280	6.10
24	0	9:13:14	0.0460	6.10
33	0	9:14:19	0.0639	6.10
42	0	9:15:24	0.0819	6.10
51	0	9:16:28	0.0999	6.10
60	0	9:17:33	0.1179	6.10
69	0	9:18:38	0.1359	6.10
78	0	9:19:43	0.1539	6.10
87	0	9:20:47	0.1719	6.10
96	0	9:21:52	0.1899	6.10
105	0	9:22:57	0.2078	6.10
114	0	9:24: 2	0.2258	6.10
123	0	9:25: 6	0.2438	6.10
132	0	9:26:11	0.2618	6.10
141	0	9:27:16	0.2798	6.10
150	0	9:28:21	0.2978	6.10
159	0	9:29:25	0.3157	6.10
168	0	9:30:30	0.3337	6.10
177	0	9:31:35	0.3517	6.97
186	0	9:32:40	0.3697	6.97
195	0	9:33:44	0.3877	6.97
204	0	9:34:49	0.4057	7.84
213	0	9:35:54	0.4236	7.84
222	0	9:36:59	0.4416	7.84
231	0	9:38: 3	0.4596	7.84
240	0	9:39: 8	0.4776	7.84
249	0	9:40:13	0.4956	7.84
END FLOW 1				
START SHUTIN 1				
256	0	9:41: 3	0.5096	7.84
258	0	9:41:18	0.5136	7.84
267	0	9:42:22	0.5316	7.84
276	0	9:43:27	0.5495	7.84
285	0	9:44:32	0.5675	8.71
294	0	9:45:37	0.5855	8.71
303	0	9:46:41	0.6035	8.71
312	0	9:47:46	0.6215	8.71
321	0	9:48:51	0.6395	8.71
330	0	9:49:56	0.6575	8.71
339	0	9:51: 0	0.6754	8.71
348	0	9:52: 5	0.6934	8.71
357	0	9:53:10	0.7114	8.71
366	0	9:54:15	0.7294	8.71
375	0	9:55:19	0.7474	8.71
384	0	9:56:24	0.7654	8.71
393	0	9:57:29	0.7833	8.71
402	0	9:58:34	0.8013	8.71
411	0	9:59:38	0.8193	8.71
420	0	10: 0:43	0.8373	8.71
429	0	10: 1:48	0.8553	8.71
438	0	10: 2:53	0.8733	8.71
447	0	10: 3:57	0.8913	8.71

Company: RITCHIE EXPLORATION INC  
 Well: #1 FRANKLIN  
 Field: TKT 21848 DST 2

[Monday: Dec. 16, 1996]  
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
456	0	10: 5: 2	0.9093	8.71
465	0	10: 6: 7	0.9272	8.71
474	0	10: 7:12	0.9452	8.71
483	0	10: 8:16	0.9632	8.71
492	0	10: 9:21	0.9812	8.71
501	0	10:10:26	0.9992	8.71
510	0	10:11:31	1.0172	8.71
519	0	10:12:35	1.0351	8.71
		END SHUTIN 1		
		START FLOW 2		
528	0	10:17:37	1.1191	7.84
537	0	10:18:42	1.1371	7.84
546	0	10:19:47	1.1550	7.84
555	0	10:20:52	1.1730	7.84
564	0	10:21:56	1.1910	7.84
573	0	10:23: 1	1.2090	7.84
582	0	10:24: 6	1.2270	8.71
591	0	10:25:11	1.2450	8.71
600	0	10:26:15	1.2629	8.71
609	0	10:27:20	1.2809	8.71
618	0	10:28:25	1.2989	8.71
627	0	10:29:30	1.3169	9.58
636	0	10:30:34	1.3349	9.58
645	0	10:31:39	1.3529	9.58
654	0	10:32:44	1.3709	9.58
663	0	10:33:49	1.3888	9.58
672	0	10:34:53	1.4068	9.58
681	0	10:35:58	1.4248	9.58
690	0	10:37: 3	1.4428	9.58
699	0	10:38: 8	1.4608	9.58
708	0	10:39:12	1.4788	9.58
717	0	10:40:17	1.4968	9.58
726	0	10:41:22	1.5147	9.58
735	0	10:42:27	1.5327	9.58
744	0	10:43:31	1.5507	9.58
753	0	10:44:36	1.5687	9.58
762	0	10:45:41	1.5867	9.58
771	0	10:46:46	1.6047	9.58
780	0	10:47:50	1.6227	9.58
		END FLOW 2		
		START SHUTIN 2		
782	0	10:48: 5	1.6266	9.58
789	0	10:48:55	1.6406	9.58
798	0	10:50: 0	1.6586	9.58
807	0	10:51: 5	1.6766	9.58
816	0	10:52: 9	1.6946	9.58
825	0	10:53:14	1.7126	9.58
834	0	10:54:19	1.7306	9.58
843	0	10:55:24	1.7485	9.58
852	0	10:56:28	1.7665	9.58
861	0	10:57:33	1.7845	10.45
870	0	10:58:38	1.8025	11.32
879	0	10:59:43	1.8205	12.19
888	0	11: 0:47	1.8385	13.06
897	0	11: 1:52	1.8565	13.06

WESTERN TESTING CO., INC.

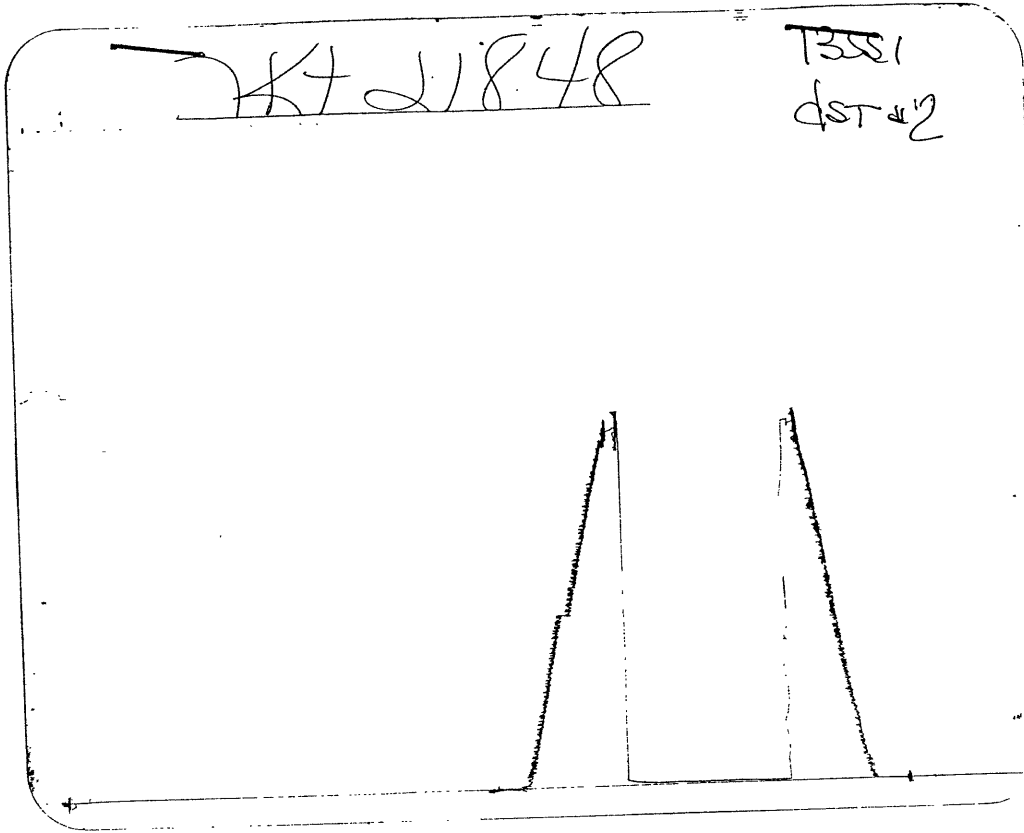
27

Company: RITCHIE EXPLORATION INC  
Well: #1 FRANKLIN  
Field: TKT 21848 DST 2

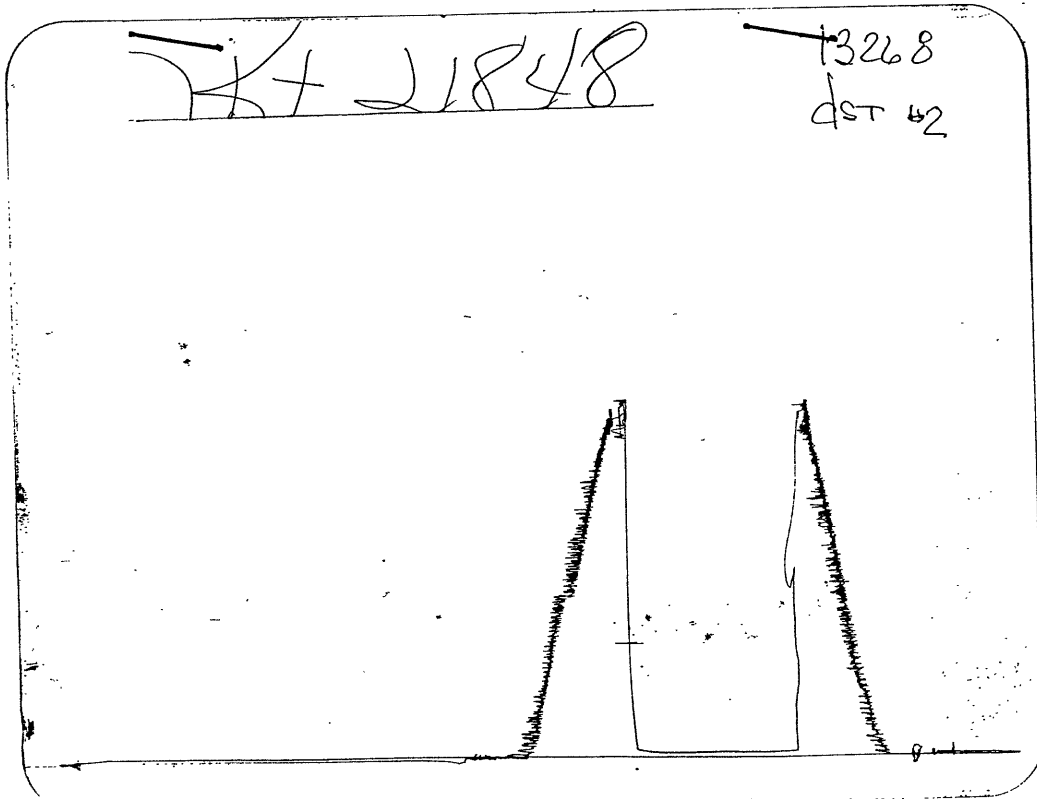
[Monday: Dec. 16, 1996]  
Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
906	0	11: 2:57	1.8744	13.94
915	0	11: 4: 2	1.8924	14.81
924	0	11: 5: 6	1.9104	15.68
933	0	11: 6:11	1.9284	16.55
942	0	11: 7:16	1.9464	17.42
951	0	11: 8:20	1.9644	19.16
960	0	11: 9:25	1.9823	20.90
969	0	11:10:30	2.0003	21.77

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

29

DST REPORT

GENERAL INFORMATION

DATE : 12/16/96 TICKET : 21849  
CUSTOMER : RITCHIE EXPLORATION INC LEASE : FRANKLIN  
WELL : #1 TEST: 3 GEOLOGIST: CHRISTIAN  
ELEVATION: 3105 KB FORMATION: L KANSAS CITY D  
SECTION : 11 TOWNSHIP : 6S  
RANGE : 33W COUNTY: THOMAS STATE : KS  
GAUGE SN#: 13551 RANGE : 4150 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4022.00 ft TO: 4040.00 ft TVD: 4040.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 4025.0 ft 4028.0 ft  
TEMPERATURE: 112.0

DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 3999.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 23.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 18.0 ft ANCHOR SIZE: 5.500 in  
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in  
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH  
PACKER DEPTH: 4017.0 ft SIZE: 6.750 in  
PACKER DEPTH: 4022.0 ft SIZE: 6.750 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : WHITE & ELLIS  
MUD TYPE : CHEMICAL VISCOSITY : 45.00 cp  
WEIGHT : 9.000 ppg WATER LOSS: 8.000 cc  
CHLORIDES : 3800 ppm  
JARS-MAKE :  
DID WELL FLOW?: NO SERIAL NUMBER:  
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET  
IN 9 MINUTES. FINAL FLOW PERIOD STRONG BLOW -  
BOTTOM OF BUCKET IN 11 MINUTES.

## DST REPORT (CONTINUED)

## FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	0.0	0.0	0.0	100.0	MUD
488.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 28000 PPM

## RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.4208 STB	AVERAGE WATER RATE:	164.2767 STB/D
WATER VOLUME:	6.8449 STB		
TOTAL FLUID :	7.2657 STB		

## FIELD TIME &amp; PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1936.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	52.00	115.00
INITIAL SHUT-IN	30.00		1285.00
FINAL FLOW	30.00	198.00	240.00
FINAL SHUT-IN	30.00		1254.00

FINAL HYDROSTATIC PRESSURE: 1915.00

## OFFICE TIME &amp; PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1921.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	58.53	134.30
INITIAL SHUT-IN	30.00		1289.94
FINAL FLOW	30.00	199.08	268.81
FINAL SHUT-IN	30.00		1288.58

FINAL HYDROSTATIC PRESSURE: 1916.00

31

FLUID SAMPLE REPORT

GENERAL INFORMATION

DATE : 12/16/96  
CUSTOMER : RITCHIE EXPLORATION INC  
WELL : #1 TEST: 3  
ELEVATION: 3105 KB  
SECTION : 11  
RANGE : 33W COUNTY: THOMAS  
GAUGE SN#: 13551 RANGE : 4150  
TICKET : 21849  
LEASE : FRANKLIN  
GEOLOGIST: CHRISTIAN  
FORMATION: L KANSAS CITY D  
TOWNSHIP : 6S  
STATE : KS  
CLOCK : 12

SAMPLE INFORMATION

PRESSURE IN SAMPLER: 100.00 PSIG BHT: 112.0 DEG F  
TOTAL VOLUME OF SAMPLER: 3150.00 CC  
TOTAL VOLUME OF SAMPLE: 3150.00 CC  
OIL: 0.00 CC  
WATER: 3150.00 CC  
MUD: 0.00 CC  
GAS: 0.00 CC  
OTHER: 0.00 CC

RESISTIVITY

DRILLING MUD: .2 @ 62 DEGREES F  
MUD PIT SAMPLE: 2.1 @ 62 DEGREES F  
GAS/OIL RATIO:  
WHERE WAS SAMPLE DRAINED:  
REMARKS:  
CHLORIDE CONTENT: 28000.00 ppm  
CHLORIDE CONTENT: 3800.00 ppm  
GRAVITY:

Company: RITCHIE EXPLORATION INC  
Well: #1 FRANKLIN  
Field: TKT 21849 DST 3

[Monday: Dec. 16, 1996]  
Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	0:26:22	0.0000	58.53
10	0	0:27:27	0.0180	57.73
19	0	0:28:32	0.0360	54.31
28	0	0:29:37	0.0541	52.64
37	0	0:30:41	0.0721	52.70
46	0	0:31:46	0.0900	52.77
55	0	0:32:51	0.1080	53.71
64	0	0:33:55	0.1259	55.52
73	0	0:35: 0	0.1439	56.45
82	0	0:36: 5	0.1618	60.00
91	0	0:37: 9	0.1797	63.55
100	0	0:38:14	0.1977	67.10
109	0	0:39:18	0.2156	71.53
118	0	0:40:22	0.2335	75.95
127	0	0:41:27	0.2514	80.37
136	0	0:42:31	0.2693	84.79
145	0	0:43:36	0.2872	89.21
154	0	0:44:40	0.3051	92.76
163	0	0:45:45	0.3230	98.05
172	0	0:46:49	0.3409	102.48
181	0	0:47:53	0.3588	106.90
190	0	0:48:58	0.3767	111.32
199	0	0:50: 2	0.3946	115.74
208	0	0:51: 7	0.4125	120.16
217	0	0:52:11	0.4304	124.58
226	0	0:53:16	0.4483	129.00
235	0	0:54:20	0.4661	134.30
END FLOW 1				
START SHUTIN 1				
243	0	0:55:11	0.4802	234.51
253	0	0:55:23	0.4836	1082.53
263	0	0:56:28	0.5016	1186.68
272	0	0:57:31	0.5191	1210.16
281	0	0:58:34	0.5368	1224.97
290	0	0:59:38	0.5546	1235.44
299	0	1: 0:43	0.5724	1242.45
308	0	1: 1:47	0.5903	1249.45
317	0	1: 2:51	0.6082	1253.86
326	0	1: 3:56	0.6260	1258.26
335	0	1: 5: 0	0.6440	1261.80
344	0	1: 6: 5	0.6619	1266.20
353	0	1: 7: 9	0.6798	1269.73
362	0	1: 8:14	0.6977	1272.40
371	0	1: 9:18	0.7157	1274.20
380	0	1:10:23	0.7336	1275.14
389	0	1:11:28	0.7516	1276.94
398	0	1:12:32	0.7695	1278.74
407	0	1:13:37	0.7875	1279.67
416	0	1:14:42	0.8055	1281.47
425	0	1:15:46	0.8234	1282.41
434	0	1:16:51	0.8414	1283.34
443	0	1:17:56	0.8594	1284.27
452	0	1:19: 0	0.8773	1286.08
461	0	1:20: 5	0.8953	1286.14



Company: RITCHIE EXPLORATION INC  
Well: #1 FRANKLIN  
Field: TKT 21849 DST 3

[Monday: Dec. 16, 1996]  
Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
470	0	1:21:10	0.9133	1287.08
479	0	1:22:14	0.9312	1288.01
488	0	1:23:19	0.9492	1288.94
497	0	1:24:24	0.9672	1289.88
506	0	1:25:28	0.9851	1289.94
END SHUTIN 1				
START FLOW 2				
515	0	1:27:50	1.0244	199.08
524	0	1:28:55	1.0424	197.40
533	0	1:30: 0	1.0605	194.86
542	0	1:31: 5	1.0785	193.18
551	0	1:32: 9	1.0965	193.25
560	0	1:33:14	1.1145	193.31
569	0	1:34:19	1.1324	194.25
578	0	1:35:23	1.1504	196.06
587	0	1:36:28	1.1684	197.00
596	0	1:37:33	1.1863	198.81
605	0	1:38:37	1.2043	200.61
614	0	1:39:42	1.2222	203.29
623	0	1:40:46	1.2401	207.71
632	0	1:41:51	1.2580	211.27
641	0	1:42:55	1.2759	214.82
650	0	1:44: 0	1.2938	219.24
659	0	1:45: 4	1.3117	222.79
668	0	1:46: 9	1.3296	227.21
677	0	1:47:13	1.3475	231.63
686	0	1:48:18	1.3655	235.18
695	0	1:49:22	1.3834	238.73
704	0	1:50:27	1.4013	243.15
713	0	1:51:31	1.4192	247.57
722	0	1:52:35	1.4371	251.99
731	0	1:53:40	1.4550	256.42
740	0	1:54:44	1.4729	260.84
749	0	1:55:49	1.4908	264.39
758	0	1:56:53	1.5087	268.81
END FLOW 2				
START SHUTIN 2				
766	0	1:57:45	1.5231	351.61
774	0	1:57:53	1.5254	1052.54
784	0	1:58:56	1.5428	1182.71
793	0	1:59:59	1.5603	1208.80
802	0	2: 1: 3	1.5780	1224.48
811	0	2: 2: 6	1.5957	1235.82
820	0	2: 3:11	1.6135	1244.56
829	0	2: 4:15	1.6314	1251.56
838	0	2: 5:19	1.6493	1256.83
847	0	2: 6:24	1.6672	1260.37
856	0	2: 7:28	1.6851	1264.77
865	0	2: 8:33	1.7030	1267.44
874	0	2: 9:37	1.7209	1270.11
883	0	2:10:42	1.7389	1271.91
892	0	2:11:47	1.7568	1273.71
901	0	2:12:51	1.7748	1275.51
910	0	2:13:56	1.7927	1277.31
919	0	2:15: 0	1.8107	1279.11

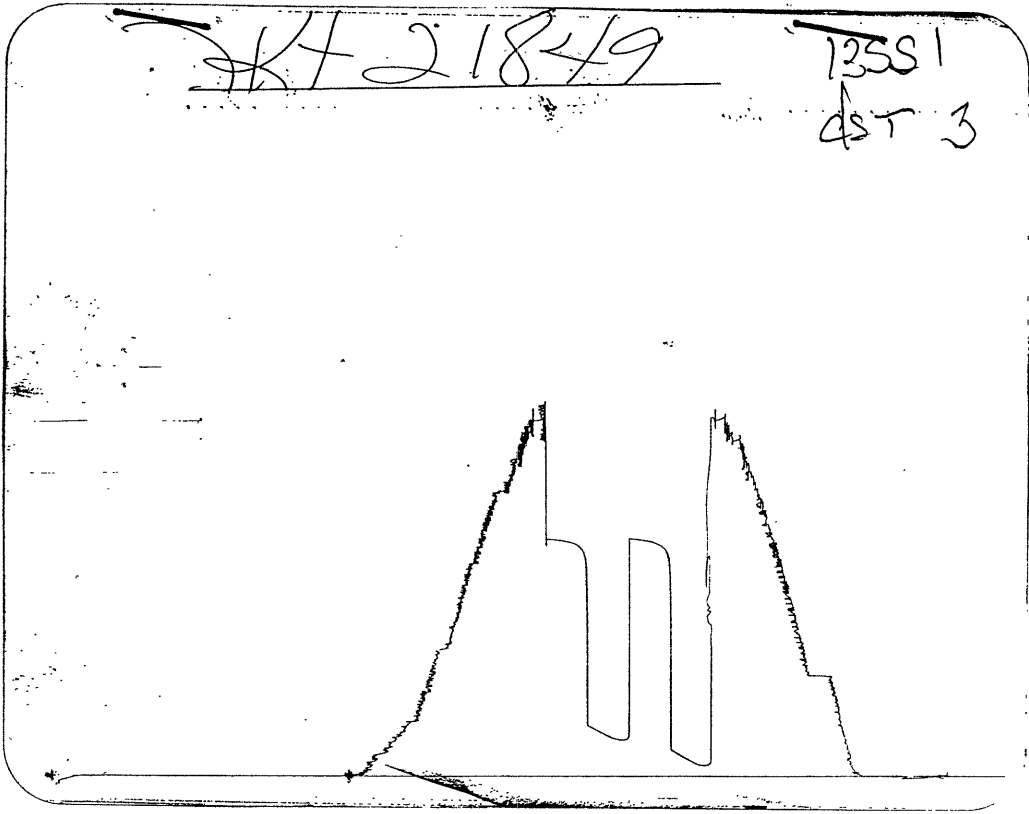
34

Company: RITCHIE EXPLORATION INC  
Well: #1 FRANKLIN  
Field: TKT 21849 DST 3

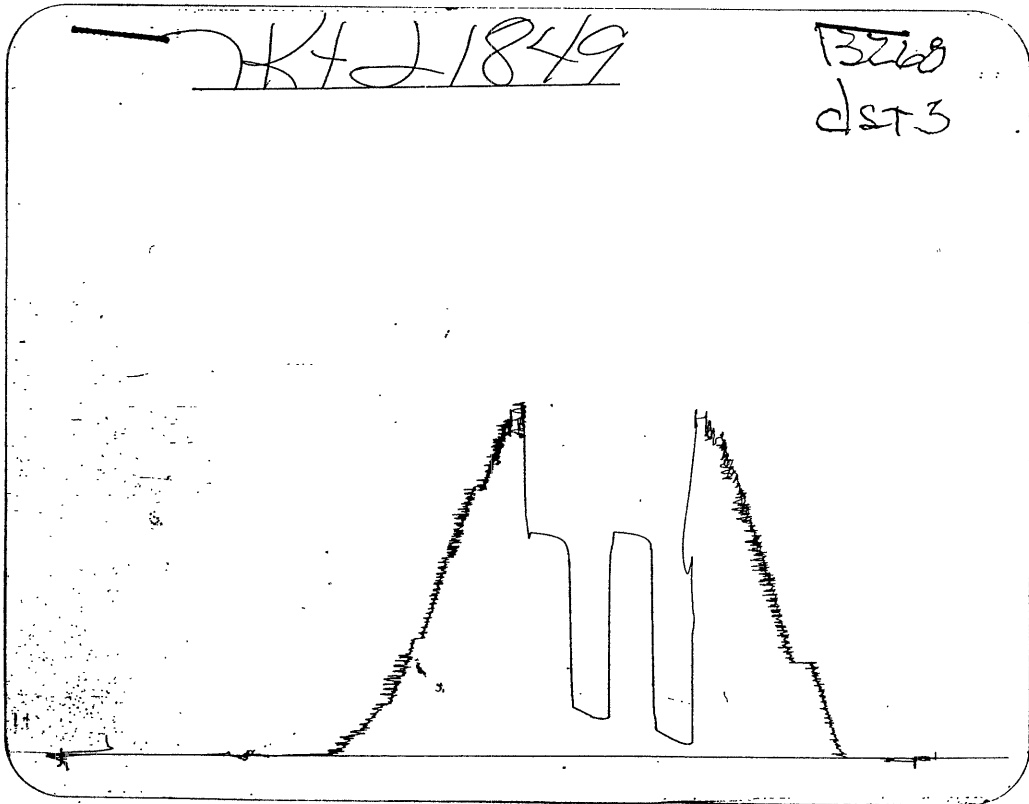
[Monday: Dec. 16, 1996]  
Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
928	0	2:16:5	1.8287	1279.18
937	0	2:17:10	1.8466	1280.11
946	0	2:18:14	1.8646	1282.78
955	0	2:19:19	1.8826	1282.85
964	0	2:20:24	1.9005	1283.78
973	0	2:21:29	1.9185	1284.71
982	0	2:22:33	1.9365	1285.65
991	0	2:23:38	1.9544	1286.58
1000	0	2:24:43	1.9724	1286.65
1009	0	2:25:47	1.9904	1287.58
1018	0	2:26:52	2.0084	1287.65
1027	0	2:27:57	2.0263	1288.58

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

36

DST REPORT

GENERAL INFORMATION

DATE : 12/17/96  
CUSTOMER : RITCHIE EXPLORATION INC  
WELL : #1 TEST: 4  
ELEVATION: 3105 KB  
SECTION : 11  
RANGE : 33W COUNTY: THOMAS  
GAUGE SN#: 13551 RANGE : 4150  
TICKET : 21850  
LEASE : FRANKLIN  
GEOLOGIST: CHRISTIAN  
FORMATION: L KANSAS CITY F  
TOWNSHIP : 6S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4039.00 ft TO: 4070.00 ft TVD: 4070.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 4042.0 ft 4045.0 ft  
TEMPERATURE: 117.0  
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 4016.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 23.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 31.0 ft ANCHOR SIZE: 5.500 in  
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in  
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH  
PACKER DEPTH: 4034.0 ft SIZE: 6.750 in  
PACKER DEPTH: 4039.0 ft SIZE: 6.750 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : WHITE & ELLIS  
MUD TYPE : CHEMICAL  
WEIGHT : 9.100 ppg  
CHLORIDES : 3500 ppm  
JARS-MAKE :  
DID WELL FLOW?: NO  
VISCOSITY : 47.00 cp  
WATER LOSS: 8.800 cc  
SERIAL NUMBER:  
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET  
IN 18 MINUTES. FINAL FLOW PERIOD STRONG BLOW -  
BOTTOM OF BUCKET IN 20 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	180 FT GAS ABOVE FLUID
65.0	100.0	0.0	0.0	0.0	OIL 39 GRAVITY @ 60 DEG F
61.0	80.0	0.0	0.0	20.0	MUD CUT OIL
122.0	75.0	0.0	0.0	25.0	MUD CUT OIL

RATE INFORMATION

OIL VOLUME:	2.8796 STB	TOTAL FLOW TIME:	75.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	66.7879 STB/D
MUD VOLUME:	0.5989 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	3.4785 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1946.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	41.00
INITIAL SHUT-IN	45.00		1181.00
FINAL FLOW	45.00	73.00	83.00
FINAL SHUT-IN	60.00		1150.00

FINAL HYDROSTATIC PRESSURE: 1946.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1945.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	33.97	44.26
INITIAL SHUT-IN	45.00		1186.66
FINAL FLOW	45.00	75.29	87.71
FINAL SHUT-IN	60.00		1145.25

FINAL HYDROSTATIC PRESSURE: 1936.00

FLUID SAMPLE REPORT
---------------------

GENERAL INFORMATION
---------------------

DATE : 12/17/96	TICKET : 21850
CUSTOMER : RITCHIE EXPLORATION INC	LEASE : FRANKLIN
WELL : #1 TEST: 4	GEOLOGIST: CHRISTIAN
ELEVATION: 3105 KB	FORMATION: L KANSAS CITY F
SECTION : 11	TOWNSHIP : 6S
RANGE : 33W COUNTY: THOMAS	STATE : KS
GAUGE SN#: 13551 RANGE : 4150	CLOCK : 12

SAMPLE INFORMATION
--------------------

PRESSURE IN SAMPLER:	150.00 PSIG	BHT:	0.0 DEG F
TOTAL VOLUME OF SAMPLER:	3150.00 CC		
TOTAL VOLUME OF SAMPLE:	2600.00 CC		
	OIL: 2600.00 CC		
	WATER: 0.00 CC		
	MUD: 0.00 CC		
	GAS: 2.60 CC		
	OTHER: 0.00 CC		

RESISTIVITY
-------------

DRILLING MUD:	CHLORIDE CONTENT: 0.00 ppm
MUD PIT SAMPLE:	CHLORIDE CONTENT: 0.00 ppm
GAS/OIL RATIO:	GRAVITY:
WHERE WAS SAMPLE DRAINED:	
REMARKS:	

Company: RITCHIE EXPLORATION INC  
Well: #1 FRANKLIN  
Field: TKT 21850 DST 4

[Tuesday: Dec. 17, 1996]  
Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
-----				
START FLOW 1				
1	0	19:40:35	0.0000	33.97
6	0	19:41:11	0.0100	33.99
11	0	19:41:47	0.0200	32.26
16	0	19:42:23	0.0300	31.41
21	0	19:42:59	0.0400	29.68
26	0	19:43:35	0.0500	29.70
31	0	19:44:11	0.0600	29.72
36	0	19:44:47	0.0700	29.73
41	0	19:45:23	0.0800	29.75
46	0	19:45:59	0.0900	29.77
51	0	19:46:35	0.1000	29.78
56	0	19:47:11	0.1099	29.80
61	0	19:47:47	0.1199	29.81
66	0	19:48:23	0.1299	29.83
71	0	19:48:59	0.1399	29.85
76	0	19:49:34	0.1499	29.86
81	0	19:50:10	0.1599	30.75
86	0	19:50:46	0.1699	30.77
91	0	19:51:22	0.1799	31.66
96	0	19:51:58	0.1899	31.67
101	0	19:52:34	0.1998	31.69
106	0	19:53:10	0.2098	31.71
111	0	19:53:46	0.2198	31.72
116	0	19:54:22	0.2298	32.61
121	0	19:54:58	0.2398	33.50
126	0	19:55:34	0.2498	33.51
131	0	19:56:10	0.2598	33.53
136	0	19:56:46	0.2698	33.55
141	0	19:57:22	0.2798	33.56
146	0	19:57:58	0.2898	33.58
151	0	19:58:34	0.2997	35.34
156	0	19:59:10	0.3097	35.35
161	0	19:59:46	0.3197	35.37
166	0	20: 0:22	0.3297	35.39
171	0	20: 0:58	0.3397	37.15
176	0	20: 1:34	0.3497	38.03
181	0	20: 2:10	0.3597	38.05
186	0	20: 2:46	0.3697	38.07
191	0	20: 3:22	0.3796	38.08
196	0	20: 3:57	0.3896	38.97
201	0	20: 4:33	0.3996	39.86
206	0	20: 5: 9	0.4096	40.74
211	0	20: 5:45	0.4196	42.50
216	0	20: 6:21	0.4296	44.26
END FLOW 1				
START SHUTIN 1				
219	0	20: 6:42	0.4354	66.05
221	0	20: 6:55	0.4391	98.28
226	0	20: 7:27	0.4478	239.39
232	0	20: 8: 0	0.4570	564.27
237	0	20: 8:31	0.4657	718.45
242	0	20: 9: 4	0.4748	812.53
247	0	20: 9:39	0.4844	858.71
252	0	20:10:14	0.4941	890.95

Company: RITCHIE EXPLORATION INC  
Well: #1 FRANKLIN  
Field: TKT 21850 DST 4

[Tuesday: Dec. 17, 1996]  
Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
257	0	20:10:49	0.5039	917.97
262	0	20:11:24	0.5137	941.50
267	0	20:12: 0	0.5236	952.84
272	0	20:12:35	0.5335	963.30
277	0	20:13:11	0.5434	975.51
282	0	20:13:47	0.5533	985.98
287	0	20:14:22	0.5632	994.71
292	0	20:14:58	0.5731	1000.82
297	0	20:15:34	0.5830	1008.64
302	0	20:16: 9	0.5930	1016.46
307	0	20:16:45	0.6029	1026.02
312	0	20:17:21	0.6128	1032.11
317	0	20:17:57	0.6227	1037.33
322	0	20:18:33	0.6327	1042.55
327	0	20:19: 8	0.6426	1047.77
332	0	20:19:44	0.6526	1052.99
337	0	20:20:20	0.6625	1057.34
342	0	20:20:56	0.6725	1062.56
347	0	20:21:32	0.6824	1066.92
352	0	20:22: 7	0.6924	1072.14
357	0	20:22:43	0.7023	1076.49
362	0	20:23:19	0.7123	1080.84
367	0	20:23:55	0.7223	1084.33
372	0	20:24:31	0.7322	1088.68
377	0	20:25: 7	0.7422	1092.17
382	0	20:25:42	0.7521	1095.65
387	0	20:26:18	0.7621	1099.14
392	0	20:26:54	0.7721	1102.62
397	0	20:27:30	0.7820	1106.11
402	0	20:28: 6	0.7920	1109.60
407	0	20:28:42	0.8019	1112.21
412	0	20:29:18	0.8119	1114.83
417	0	20:29:54	0.8219	1117.45
422	0	20:30:30	0.8319	1120.07
427	0	20:31: 5	0.8418	1122.69
432	0	20:31:41	0.8518	1125.31
437	0	20:32:17	0.8618	1127.92
442	0	20:32:53	0.8717	1130.54
447	0	20:33:29	0.8817	1133.16
452	0	20:34: 5	0.8917	1134.91
457	0	20:34:41	0.9016	1137.53
462	0	20:35:17	0.9116	1140.15
467	0	20:35:53	0.9216	1141.90
472	0	20:36:28	0.9316	1143.65
477	0	20:37: 4	0.9415	1146.27
482	0	20:37:40	0.9515	1148.89
487	0	20:38:16	0.9615	1149.77
492	0	20:38:52	0.9715	1151.52
497	0	20:39:28	0.9814	1152.41
502	0	20:40: 4	0.9914	1154.16
507	0	20:40:40	1.0014	1156.78
512	0	20:41:16	1.0114	1157.66
517	0	20:41:52	1.0214	1159.41
522	0	20:42:28	1.0313	1160.29
527	0	20:43: 4	1.0413	1162.05

WESTERN TESTING CO., INC.



Company: RITCHIE EXPLORATION INC  
Well: #1 FRANKLIN  
Field: TKT 21850 DST 4

[Tuesday: Dec. 17, 1996]  
Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
532	0	20:43:39	1.0513	1163.80
537	0	20:44:15	1.0613	1165.55
542	0	20:44:51	1.0712	1167.30
547	0	20:45:27	1.0812	1168.18
552	0	20:46: 3	1.0912	1169.93
557	0	20:46:39	1.1012	1171.68
562	0	20:47:15	1.1112	1172.57
567	0	20:47:51	1.1211	1174.32
572	0	20:48:27	1.1311	1175.20
577	0	20:49: 3	1.1411	1176.95
582	0	20:49:39	1.1511	1177.84
587	0	20:50:15	1.1611	1178.72
592	0	20:50:51	1.1711	1179.61
597	0	20:51:27	1.1810	1180.49
602	0	20:52: 2	1.1910	1181.37
607	0	20:52:38	1.2010	1183.12
612	0	20:53:14	1.2110	1184.01
617	0	20:53:50	1.2210	1184.89
622	0	20:54:26	1.2309	1185.78
627	0	20:55: 2	1.2409	1186.66
		END SHUTIN 1		
		START FLOW 2		
630	0	20:57:39	1.2846	75.29
635	0	20:58:15	1.2946	75.30
640	0	20:58:51	1.3046	72.71
645	0	20:59:27	1.3146	70.11
650	0	21: 0: 3	1.3246	69.26
655	0	21: 0:39	1.3346	68.40
660	0	21: 1:15	1.3446	68.42
665	0	21: 1:51	1.3546	67.56
670	0	21: 2:27	1.3646	67.58
675	0	21: 3: 3	1.3746	66.73
680	0	21: 3:39	1.3846	65.87
685	0	21: 4:15	1.3946	65.89
690	0	21: 4:51	1.4046	65.90
695	0	21: 5:27	1.4145	65.92
700	0	21: 6: 3	1.4245	65.94
705	0	21: 6:39	1.4345	65.95
710	0	21: 7:15	1.4445	65.97
715	0	21: 7:51	1.4545	65.99
720	0	21: 8:27	1.4645	66.87
725	0	21: 9: 3	1.4745	66.89
730	0	21: 9:39	1.4845	67.78
735	0	21:10:15	1.4945	67.79
740	0	21:10:51	1.5045	67.81
745	0	21:11:27	1.5144	67.83
750	0	21:12: 3	1.5244	68.71
755	0	21:12:39	1.5344	68.73
760	0	21:13:15	1.5444	68.75
765	0	21:13:51	1.5544	68.76
770	0	21:14:27	1.5644	70.52
775	0	21:15: 3	1.5744	70.54
780	0	21:15:39	1.5844	70.56
785	0	21:16:14	1.5943	71.44
790	0	21:16:50	1.6043	72.33

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC  
 Well: #1 FRANKLIN  
 Field: TKT 21850 DST 4

[Tuesday: Dec. 17, 1996]  
 Page 4

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
795	0	21:17:26	1.6143	72.35
800	0	21:18: 2	1.6243	73.23
805	0	21:18:38	1.6343	73.25
810	0	21:19:14	1.6443	74.14
815	0	21:19:50	1.6543	74.15
820	0	21:20:26	1.6643	75.04
825	0	21:21: 2	1.6743	75.06
830	0	21:21:38	1.6842	75.95
835	0	21:22:14	1.6942	75.96
840	0	21:22:50	1.7042	76.85
845	0	21:23:26	1.7142	76.87
850	0	21:24: 2	1.7242	77.75
855	0	21:24:38	1.7342	77.77
860	0	21:25:14	1.7442	77.79
865	0	21:25:50	1.7542	78.67
870	0	21:26:26	1.7641	79.56
875	0	21:27: 2	1.7741	80.45
880	0	21:27:38	1.7841	81.34
885	0	21:28:14	1.7941	81.35
890	0	21:28:50	1.8041	81.37
895	0	21:29:25	1.8141	81.39
900	0	21:30: 1	1.8241	82.27
905	0	21:30:37	1.8340	83.16
910	0	21:31:13	1.8440	83.18
915	0	21:31:49	1.8540	83.19
920	0	21:32:25	1.8640	83.21
925	0	21:33: 1	1.8740	84.10
930	0	21:33:37	1.8840	84.11
935	0	21:34:13	1.8940	85.00
940	0	21:34:49	1.9040	85.02
945	0	21:35:25	1.9140	85.91
950	0	21:36: 1	1.9239	85.92
955	0	21:36:37	1.9339	85.94
960	0	21:37:13	1.9439	86.83
965	0	21:37:49	1.9539	87.71
		END FLOW 2		
		START SHUTIN 2		
968	0	21:38:10	1.9597	106.88
970	0	21:38:23	1.9634	145.21
975	0	21:38:56	1.9724	255.84
981	0	21:39:32	1.9824	484.05
986	0	21:40: 2	1.9909	665.23
991	0	21:40:36	2.0002	735.79
996	0	21:41:10	2.0098	789.81
1001	0	21:41:46	2.0197	796.79
1006	0	21:42:21	2.0294	827.29
1011	0	21:42:56	2.0392	847.34
1016	0	21:43:32	2.0491	862.16
1021	0	21:44: 7	2.0590	876.11
1026	0	21:44:43	2.0689	888.32
1031	0	21:45:18	2.0787	900.53
1036	0	21:45:54	2.0886	911.00
1041	0	21:46:30	2.0986	918.86
1046	0	21:47: 5	2.1085	925.84
1051	0	21:47:41	2.1184	932.82

43  
Company: RITCHIE EXPLORATION INC  
Well: #1 FRANKLIN  
Field: TKT 21850 DST 4

[Tuesday: Dec. 17, 1996]  
Page 5

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1056	0	21:48:17	2.1284	939.81
1061	0	21:48:53	2.1383	946.79
1066	0	21:49:28	2.1482	952.04
1071	0	21:50: 4	2.1582	957.28
1076	0	21:50:40	2.1681	964.26
1081	0	21:51:16	2.1781	970.37
1086	0	21:51:52	2.1880	974.75
1091	0	21:52:27	2.1980	979.12
1096	0	21:53: 3	2.2079	983.49
1101	0	21:53:39	2.2179	987.86
1106	0	21:54:15	2.2278	992.23
1111	0	21:54:51	2.2378	996.60
1116	0	21:55:27	2.2477	1000.97
1121	0	21:56: 2	2.2577	1005.32
1126	0	21:56:38	2.2676	1009.68
1131	0	21:57:14	2.2776	1013.16
1136	0	21:57:50	2.2876	1016.65
1141	0	21:58:26	2.2975	1020.13
1146	0	21:59: 2	2.3075	1023.62
1151	0	21:59:38	2.3174	1027.10
1156	0	22: 0:13	2.3274	1030.59
1161	0	22: 0:49	2.3374	1034.08
1166	0	22: 1:25	2.3473	1037.56
1171	0	22: 2: 1	2.3573	1040.18
1176	0	22: 2:37	2.3672	1043.67
1181	0	22: 3:13	2.3772	1047.15
1186	0	22: 3:49	2.3872	1049.77
1191	0	22: 4:25	2.3972	1052.39
1196	0	22: 5: 0	2.4071	1054.14
1201	0	22: 5:36	2.4171	1056.76
1206	0	22: 6:12	2.4271	1059.38
1211	0	22: 6:48	2.4370	1062.86
1216	0	22: 7:24	2.4470	1065.48
1221	0	22: 8: 0	2.4570	1068.10
1226	0	22: 8:36	2.4669	1070.72
1231	0	22: 9:12	2.4769	1072.47
1236	0	22: 9:48	2.4869	1075.09
1241	0	22:10:23	2.4969	1077.71
1246	0	22:10:59	2.5068	1078.59
1251	0	22:11:35	2.5168	1080.34
1256	0	22:12:11	2.5268	1082.96
1261	0	22:12:47	2.5367	1086.44
1266	0	22:13:23	2.5467	1087.33
1271	0	22:13:59	2.5567	1089.08
1276	0	22:14:35	2.5667	1090.83
1281	0	22:15:11	2.5766	1093.45
1286	0	22:15:47	2.5866	1094.33
1291	0	22:16:23	2.5966	1096.08
1296	0	22:16:59	2.6066	1097.83
1301	0	22:17:34	2.6166	1099.59
1306	0	22:18:10	2.6265	1101.34
1311	0	22:18:46	2.6365	1103.09
1316	0	22:19:22	2.6465	1103.97
1321	0	22:19:58	2.6565	1105.72
1326	0	22:20:34	2.6665	1106.61

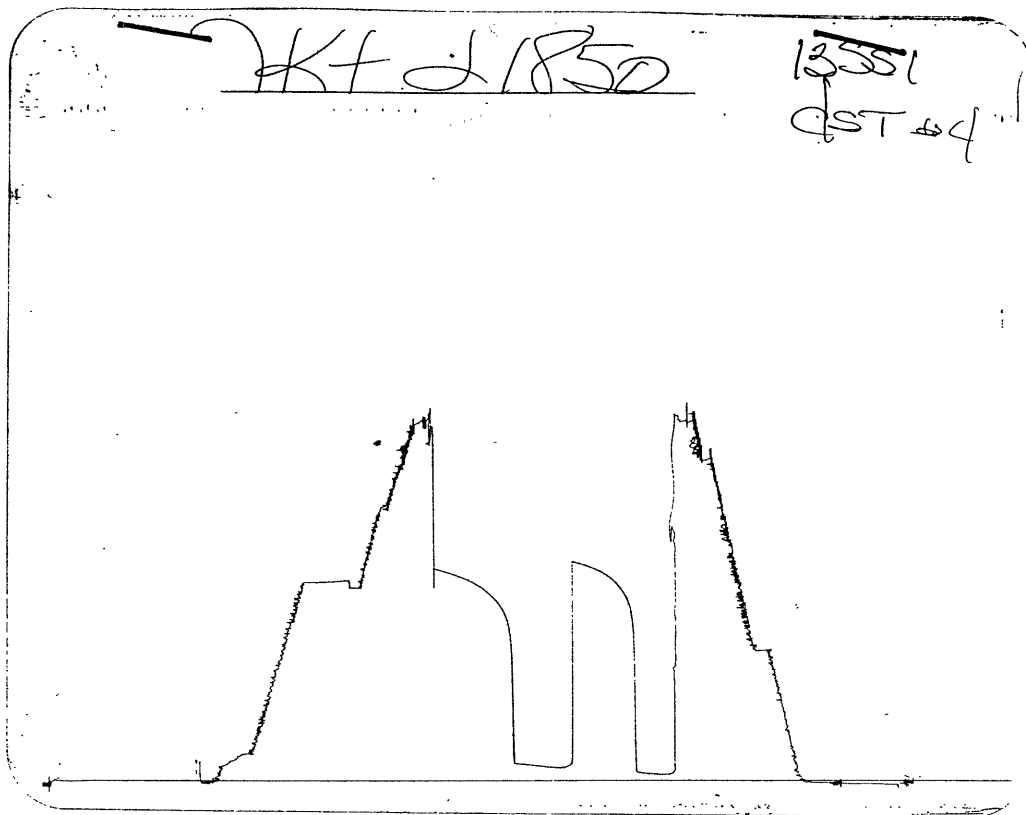
WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC  
 Well: #1 FRANKLIN  
 Field: TKT 21850 DST 4

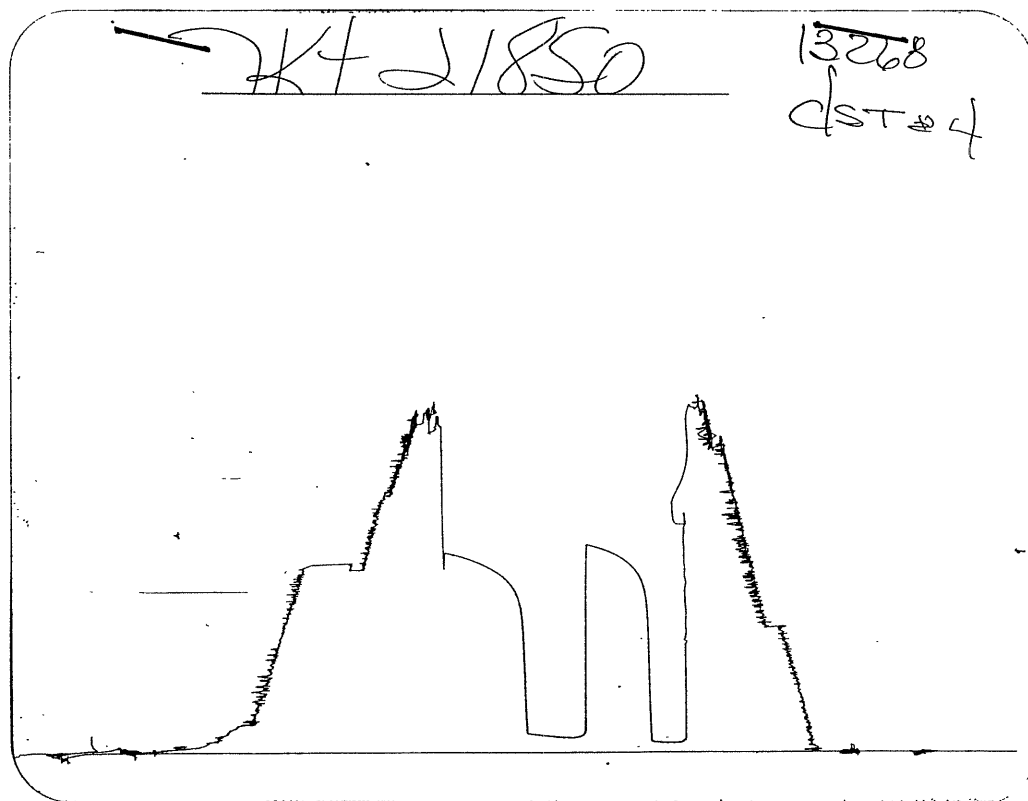
[Tuesday: Dec. 17, 1996]  
 Page 6

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1331	0	22:21:10	2.6764	1108.36
1336	0	22:21:46	2.6864	1110.11
1341	0	22:22:22	2.6964	1112.73
1346	0	22:22:58	2.7064	1113.61
1351	0	22:23:34	2.7164	1114.49
1356	0	22:24:10	2.7263	1116.25
1361	0	22:24:46	2.7363	1117.13
1366	0	22:25:21	2.7463	1118.88
1371	0	22:25:57	2.7563	1119.76
1376	0	22:26:33	2.7662	1121.52
1381	0	22:27: 9	2.7762	1123.27
1386	0	22:27:45	2.7862	1124.15
1391	0	22:28:21	2.7962	1125.03
1396	0	22:28:57	2.8062	1126.78
1401	0	22:29:33	2.8161	1127.67
1406	0	22:30: 9	2.8261	1129.42
1411	0	22:30:45	2.8361	1131.17
1416	0	22:31:21	2.8461	1132.92
1421	0	22:31:57	2.8561	1133.81
1426	0	22:32:33	2.8661	1134.69
1431	0	22:33: 8	2.8760	1136.44
1436	0	22:33:44	2.8860	1138.19
1441	0	22:34:20	2.8960	1138.21
1446	0	22:34:56	2.9060	1139.96
1451	0	22:35:32	2.9160	1140.84
1456	0	22:36: 8	2.9259	1141.73
1461	0	22:36:44	2.9359	1142.61
1466	0	22:37:20	2.9459	1144.36
1471	0	22:37:56	2.9559	1145.25

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

46

DST REPORT

GENERAL INFORMATION

DATE	: 12/18/96	TICKET	: 21751
CUSTOMER	: RITCHIE EXPLORATION INC	LEASE	: FRANKLIN
WELL	: #1 TEST: 5	GEOLOGIST	: CHRISTIAN
ELEVATION	: 3105 KB	FORMATION	: L KANSAS CITY J
SECTION	: 11	TOWNSHIP	: 6S
RANGE	: 33W COUNTY: THOMAS	STATE	: KS
GAUGE SN#	: 13551 RANGE : 4150	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4118.00 ft	TO:	4170.00 ft	TVD:	4170.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4121.0 ft	4124.0 ft			
TEMPERATURE:	119.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	4095.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	23.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	52.0 ft	ANCHOR SIZE:	5.500 in		
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in		
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH		
PACKER DEPTH:	4113.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	4118.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	WHITE & ELLIS		
MUD TYPE :	CHEMICAL	VISCOSITY :	48.00 cp
WEIGHT :	9.000 ppg	WATER LOSS:	10.400 cc
CHLORIDES :	4000 ppm		
JARS-MAKE :		SERIAL NUMBER:	
DID WELL FLOW?:	NO	REVERSED OUT?:	NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET  
IN 20 MINUTES. FINAL FLOW PERIOD FAIR BLOW - 6  
INCHES IN WATER.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	50.0	0.0	0.0	50.0	MUD CUT OIL
150.0	35.0	0.0	0.0	65.0	OIL CUT MUD
30.0	0.0	0.0	60.0	40.0	MUDDY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 35000 PPM

RATE INFORMATION

OIL VOLUME:	1.3676 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	53.8612 STB/D
MUD VOLUME:	2.1671 STB	AVERAGE WATER RATE:	6.7327 STB/D
WATER VOLUME:	0.2525 STB		
TOTAL FLUID :	3.7871 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1977.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	52.00	73.00
INITIAL SHUT-IN	60.00		188.00
FINAL FLOW	45.00	125.00	135.00
FINAL SHUT-IN	60.00		188.00

FINAL HYDROSTATIC PRESSURE: 1925.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1983.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	42.68	80.13
INITIAL SHUT-IN	60.00		167.22
FINAL FLOW	45.00	122.81	146.32
FINAL SHUT-IN	60.00		171.58

FINAL HYDROSTATIC PRESSURE: 1928.00

FLUID SAMPLE REPORT
---------------------

GENERAL INFORMATION
---------------------

DATE : 12/18/96	TICKET : 21751
CUSTOMER : RITCHIE EXPLORATION INC	LEASE : FRANKLIN
WELL : #1                      TEST: 5	GEOLOGIST: CHRISTIAN
ELEVATION: 3105 KB	FORMATION: L KANSAS CITY J
SECTION : 11	TOWNSHIP : 6S
RANGE : 33W                      COUNTY: THOMAS	STATE : KS
GAUGE SN#: 13551                      RANGE : 4150	CLOCK : 12

SAMPLE INFORMATION
--------------------

PRESSURE IN SAMPLER:	100.00 PSIG	BHT: 119.0 DEG F
TOTAL VOLUME OF SAMPLER:	3150.00 cc	
TOTAL VOLUME OF SAMPLE:	0.00 cc	
OIL:	0.00 cc	
WATER:	2850.00 cc	
MUD:	0.00 cc	
GAS:	1.10 cc	
OTHER:	0.00 cc	

RESISTIVITY
-------------

DRILLING MUD: .2 @ 64 DEGREES F	CHLORIDE CONTENT: 35000.00 ppm
MUD PIT SAMPLE: 2. @ 64 DEGREES F	CHLORIDE CONTENT: 4000.00 ppm
GAS/OIL RATIO:	GRAVITY:
WHERE WAS SAMPLE DRAINED: RIG	
REMARKS:	



Company: RITCHIE EXPLORATION INC  
 Well: #1 FRANKLIN  
 Field: TKT 21751 DST 5

[Wednesday: Dec. 18, 1996]  
 Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
-----				
START FLOW 1				
1	0	23:36:19	0.0000	42.68
6	0	23:36:55	0.0100	42.68
11	0	23:37:31	0.0200	41.81
16	0	23:38: 7	0.0300	40.94
21	0	23:38:43	0.0400	40.06
26	0	23:39:19	0.0500	39.19
31	0	23:39:55	0.0599	38.32
36	0	23:40:31	0.0699	38.32
41	0	23:41: 7	0.0799	38.32
46	0	23:41:43	0.0899	38.32
51	0	23:42:19	0.0999	38.32
56	0	23:42:55	0.1099	38.32
61	0	23:43:31	0.1199	39.19
66	0	23:44: 7	0.1299	39.19
71	0	23:44:43	0.1399	40.06
76	0	23:45:19	0.1499	40.94
81	0	23:45:55	0.1599	41.81
86	0	23:46:31	0.1699	41.81
91	0	23:47: 7	0.1798	42.68
96	0	23:47:43	0.1898	42.68
101	0	23:48:19	0.1998	42.68
106	0	23:48:55	0.2098	44.42
111	0	23:49:30	0.2198	45.29
116	0	23:50: 6	0.2298	45.29
121	0	23:50:42	0.2398	45.29
126	0	23:51:18	0.2498	47.90
131	0	23:51:54	0.2598	47.90
136	0	23:52:30	0.2698	47.90
141	0	23:53: 6	0.2798	47.90
146	0	23:53:42	0.2898	48.77
151	0	23:54:18	0.2998	49.64
156	0	23:54:54	0.3097	50.52
161	0	23:55:30	0.3197	52.26
166	0	23:56: 6	0.3297	52.26
171	0	23:56:42	0.3397	53.13
176	0	23:57:18	0.3497	53.13
181	0	23:57:54	0.3597	53.13
186	0	23:58:30	0.3697	54.00
191	0	23:59: 6	0.3797	55.74
196	0	23:59:42	0.3897	56.61
[Thursday: Dec. 19, 1996]				
201	1	0: 0:18	0.3997	57.48
206	1	0: 0:54	0.4097	58.35
211	1	0: 1:30	0.4197	59.23
216	1	0: 2: 6	0.4296	59.23
221	1	0: 2:42	0.4396	60.10
226	1	0: 3:18	0.4496	60.97
231	1	0: 3:54	0.4596	62.71
236	1	0: 4:30	0.4696	62.71
241	1	0: 5: 6	0.4796	64.45
246	1	0: 5:42	0.4896	66.19
251	1	0: 6:18	0.4996	66.19
256	1	0: 6:54	0.5096	67.06
261	1	0: 7:30	0.5196	67.94

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC  
 Well: #1 FRANKLIN  
 Field: TKT 21751 DST 5

[Thursday: Dec. 19, 1996]  
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
266	1	0: 8: 6	0.5296	67.94
271	1	0: 8:42	0.5396	68.81
276	1	0: 9:17	0.5495	70.55
281	1	0: 9:53	0.5595	71.42
286	1	0:10:29	0.5695	71.42
291	1	0:11: 5	0.5795	72.29
296	1	0:11:41	0.5895	74.03
301	1	0:12:17	0.5995	74.90
306	1	0:12:53	0.6095	75.77
311	1	0:13:29	0.6195	75.77
316	1	0:14: 5	0.6295	76.64
321	1	0:14:41	0.6395	77.52
326	1	0:15:17	0.6495	78.39
331	1	0:15:53	0.6594	79.26
336	1	0:16:29	0.6694	80.13
341	1	0:17: 5	0.6794	80.13
END FLOW 1				
START SHUTIN 2				
346	1	0:17:41	0.6894	102.77
351	1	0:18:17	0.6994	114.10
356	1	0:18:53	0.7094	121.93
361	1	0:19:29	0.7194	126.29
366	1	0:20: 5	0.7294	131.52
371	1	0:20:41	0.7394	135.87
376	1	0:21:17	0.7494	140.22
381	1	0:21:53	0.7594	143.71
386	1	0:22:29	0.7694	145.45
391	1	0:23: 5	0.7793	148.06
396	1	0:23:41	0.7893	149.81
401	1	0:24:17	0.7993	150.68
406	1	0:24:53	0.8093	151.55
411	1	0:25:29	0.8193	152.42
416	1	0:26: 5	0.8293	153.29
421	1	0:26:41	0.8393	155.03
426	1	0:27:17	0.8493	155.90
431	1	0:27:53	0.8593	156.77
436	1	0:28:29	0.8693	157.64
441	1	0:29: 5	0.8793	158.52
446	1	0:29:40	0.8893	158.52
451	1	0:30:16	0.8993	159.39
456	1	0:30:52	0.9092	159.39
461	1	0:31:28	0.9192	161.13
466	1	0:32: 4	0.9292	161.13
471	1	0:32:40	0.9392	161.13
476	1	0:33:16	0.9492	161.13
481	1	0:33:52	0.9592	161.13
486	1	0:34:28	0.9692	162.00
491	1	0:35: 4	0.9792	162.00
496	1	0:35:40	0.9892	162.00
501	1	0:36:16	0.9992	162.00
506	1	0:36:52	1.0092	162.00
511	1	0:37:28	1.0191	162.00
516	1	0:38: 4	1.0291	162.87
521	1	0:38:40	1.0391	162.87
526	1	0:39:16	1.0491	162.87

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC.  
Well: #1 FRANKLIN  
Field: TKT 21751 DST 5

[Thursday: Dec. 19, 1996]  
Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
531	1	0:39:52	1.0591	162.87
536	1	0:40:28	1.0691	162.87
541	1	0:41: 4	1.0791	162.87
546	1	0:41:40	1.0891	162.87
551	1	0:42:16	1.0991	162.87
556	1	0:42:52	1.1091	162.87
561	1	0:43:28	1.1191	162.87
566	1	0:44: 4	1.1291	163.74
571	1	0:44:40	1.1391	163.74
576	1	0:45:16	1.1490	163.74
581	1	0:45:52	1.1590	163.74
586	1	0:46:28	1.1690	163.74
591	1	0:47: 4	1.1790	163.74
596	1	0:47:40	1.1890	163.74
601	1	0:48:16	1.1990	163.74
606	1	0:48:51	1.2090	163.74
611	1	0:49:27	1.2190	163.74
616	1	0:50: 3	1.2290	163.74
621	1	0:50:39	1.2390	163.74
626	1	0:51:15	1.2490	163.74
631	1	0:51:51	1.2589	164.61
636	1	0:52:27	1.2689	164.61
641	1	0:53: 3	1.2789	164.61
646	1	0:53:39	1.2889	164.61
651	1	0:54:15	1.2989	164.61
656	1	0:54:51	1.3089	164.61
661	1	0:55:27	1.3189	164.61
666	1	0:56: 3	1.3289	164.61
671	1	0:56:39	1.3389	165.48
676	1	0:57:15	1.3489	165.48
681	1	0:57:51	1.3589	165.48
686	1	0:58:27	1.3689	165.48
691	1	0:59: 3	1.3788	165.48
696	1	0:59:39	1.3888	166.35
701	1	1: 0:15	1.3988	166.35
706	1	1: 0:51	1.4088	166.35
711	1	1: 1:27	1.4188	166.35
716	1	1: 2: 3	1.4288	166.35
721	1	1: 2:39	1.4388	166.35
726	1	1: 3:15	1.4488	166.35
731	1	1: 3:51	1.4588	166.35
736	1	1: 4:27	1.4688	166.35
741	1	1: 5: 3	1.4788	167.22
746	1	1: 5:39	1.4888	167.22
751	1	1: 6:15	1.4987	167.22
756	1	1: 6:51	1.5087	167.22
761	1	1: 7:27	1.5187	167.22
766	1	1: 8: 3	1.5287	167.22
771	1	1: 8:39	1.5387	167.22
776	1	1: 9:14	1.5487	167.22
781	1	1: 9:50	1.5587	167.22
786	1	1:10:26	1.5687	167.22
791	1	1:11: 2	1.5787	167.22
796	1	1:11:38	1.5887	167.22
801	1	1:12:14	1.5987	167.22

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC  
 Well: #1 FRANKLIN  
 Field: TKT 21751 DST 5

[Thursday: Dec. 19, 1996]  
 Page 4

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
806	1	1:12:50	1.6087	167.22
811	1	1:13:26	1.6186	167.22
816	1	1:14: 2	1.6286	167.22
821	1	1:14:38	1.6386	167.22
826	1	1:15:14	1.6486	167.22
831	1	1:15:50	1.6586	167.22
836	1	1:16:26	1.6686	167.22
841	1	1:17: 2	1.6786	167.22
846	1	1:17:38	1.6886	167.22
851	1	1:18:14	1.6986	167.22
		END SHUTIN 1		
		START FLOW 2		
855	1	1:21:57	1.7605	122.81
860	1	1:22:33	1.7705	122.81
865	1	1:23: 9	1.7805	121.93
870	1	1:23:45	1.7905	121.93
875	1	1:24:21	1.8005	121.06
880	1	1:24:57	1.8105	121.06
885	1	1:25:33	1.8205	120.19
890	1	1:26: 9	1.8305	120.19
895	1	1:26:45	1.8405	120.19
900	1	1:27:21	1.8505	119.32
905	1	1:27:57	1.8604	119.32
910	1	1:28:33	1.8704	119.32
915	1	1:29: 9	1.8804	119.32
920	1	1:29:45	1.8904	119.32
925	1	1:30:21	1.9004	118.45
930	1	1:30:57	1.9104	118.45
935	1	1:31:33	1.9204	118.45
940	1	1:32: 9	1.9304	118.45
945	1	1:32:44	1.9404	119.32
950	1	1:33:21	1.9504	119.32
955	1	1:33:56	1.9604	119.32
960	1	1:34:32	1.9704	119.32
965	1	1:35: 8	1.9804	119.32
970	1	1:35:44	1.9903	119.32
975	1	1:36:20	2.0003	120.19
980	1	1:36:56	2.0103	120.19
985	1	1:37:32	2.0203	120.19
990	1	1:38: 8	2.0303	121.06
995	1	1:38:44	2.0403	121.93
1000	1	1:39:20	2.0503	121.93
1005	1	1:39:56	2.0603	122.81
1010	1	1:40:32	2.0703	122.81
1015	1	1:41: 8	2.0803	124.55
1020	1	1:41:44	2.0903	124.55
1025	1	1:42:20	2.1003	124.55
1030	1	1:42:56	2.1102	124.55
1035	1	1:43:32	2.1202	125.42
1040	1	1:44: 8	2.1302	126.29
1045	1	1:44:44	2.1402	126.29
1050	1	1:45:20	2.1502	127.16
1055	1	1:45:56	2.1602	127.16
1060	1	1:46:32	2.1702	127.16
1065	1	1:47: 8	2.1802	128.03

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC  
Well: #1 FRANKLIN  
Field: TKT 21751 DST 5

[Thursday: Dec. 19, 1996]  
Page 5

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1070	1	1:47:44	2.1902	128.90
1075	1	1:48:20	2.2002	128.90
1080	1	1:48:56	2.2102	129.77
1085	1	1:49:32	2.2201	131.52
1090	1	1:50: 8	2.2301	131.52
1095	1	1:50:44	2.2401	131.52
1100	1	1:51:20	2.2501	131.52
1105	1	1:51:56	2.2601	133.26
1110	1	1:52:32	2.2701	133.26
1115	1	1:53: 7	2.2801	133.26
1120	1	1:53:43	2.2901	134.13
1125	1	1:54:19	2.3001	135.00
1130	1	1:54:55	2.3101	135.00
1135	1	1:55:31	2.3201	135.00
1140	1	1:56: 7	2.3301	135.87
1145	1	1:56:43	2.3400	137.61
1150	1	1:57:19	2.3500	137.61
1155	1	1:57:55	2.3600	137.61
1160	1	1:58:31	2.3700	137.61
1165	1	1:59: 7	2.3800	137.61
1170	1	1:59:43	2.3900	138.48
1175	1	2: 0:19	2.4000	138.48
1180	1	2: 0:55	2.4100	139.35
1185	1	2: 1:31	2.4200	139.35
1190	1	2: 2: 7	2.4300	139.35
1195	1	2: 2:43	2.4400	140.22
1200	1	2: 3:19	2.4500	140.22
1205	1	2: 3:55	2.4599	140.22
1210	1	2: 4:31	2.4699	140.22
1215	1	2: 5: 7	2.4799	140.22
1220	1	2: 5:43	2.4899	141.10
1225	1	2: 6:19	2.4999	142.84
1230	1	2: 6:55	2.5099	146.32
END FLOW 2				
START SHUTIN 2				
1231	1	2: 7: 2	2.5119	146.32
1235	1	2: 7:31	2.5199	148.06
1240	1	2: 8: 7	2.5299	150.68
1245	1	2: 8:43	2.5399	153.29
1250	1	2: 9:19	2.5499	155.03
1255	1	2: 9:55	2.5599	157.64
1260	1	2:10:31	2.5699	158.52
1265	1	2:11: 7	2.5798	160.26
1270	1	2:11:43	2.5898	161.13
1275	1	2:12:19	2.5998	162.00
1280	1	2:12:55	2.6098	163.74
1285	1	2:13:30	2.6198	164.61
1290	1	2:14: 6	2.6298	165.48
1295	1	2:14:42	2.6398	166.35
1300	1	2:15:18	2.6498	166.35
1305	1	2:15:54	2.6598	166.35
1310	1	2:16:30	2.6698	166.35
1315	1	2:17: 6	2.6798	166.35
1320	1	2:17:42	2.6898	167.22
1325	1	2:18:18	2.6997	167.22

52  
Company: RITCHIE EXPLORATION INC  
Well: #1 FRANKLIN  
Field: TKT 21751 DST 5

[Thursday: Dec. 19, 1996]  
Page 6

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1330	1	2:18:54	2.7097	167.22
1335	1	2:19:30	2.7197	167.22
1340	1	2:20: 6	2.7297	167.22
1345	1	2:20:42	2.7397	168.10
1350	1	2:21:18	2.7497	168.97
1355	1	2:21:54	2.7597	168.97
1360	1	2:22:30	2.7697	168.97
1365	1	2:23: 6	2.7797	168.97
1370	1	2:23:42	2.7897	168.97
1375	1	2:24:18	2.7997	168.97
1380	1	2:24:54	2.8097	168.97
1385	1	2:25:30	2.8196	168.97
1390	1	2:26: 6	2.8296	168.97
1395	1	2:26:42	2.8396	168.97
1400	1	2:27:18	2.8496	168.97
1405	1	2:27:54	2.8596	168.97
1410	1	2:28:30	2.8696	168.97
1415	1	2:29: 6	2.8796	168.97
1420	1	2:29:42	2.8896	168.97
1425	1	2:30:18	2.8996	168.97
1430	1	2:30:54	2.9096	168.97
1435	1	2:31:30	2.9196	169.84
1440	1	2:32: 6	2.9296	169.84
1445	1	2:32:42	2.9395	169.84
1450	1	2:33:17	2.9495	169.84
1455	1	2:33:53	2.9595	169.84
1460	1	2:34:29	2.9695	169.84
1465	1	2:35: 5	2.9795	170.71
1470	1	2:35:41	2.9895	170.71
1475	1	2:36:17	2.9995	170.71
1480	1	2:36:53	3.0095	170.71
1485	1	2:37:29	3.0195	170.71
1490	1	2:38: 5	3.0295	170.71
1495	1	2:38:41	3.0395	170.71
1500	1	2:39:17	3.0495	170.71
1505	1	2:39:53	3.0594	170.71
1510	1	2:40:29	3.0694	170.71
1515	1	2:41: 5	3.0794	170.71
1520	1	2:41:41	3.0894	170.71
1525	1	2:42:17	3.0994	170.71
1530	1	2:42:53	3.1094	170.71
1535	1	2:43:29	3.1194	170.71
1540	1	2:44: 5	3.1294	170.71
1545	1	2:44:41	3.1394	170.71
1550	1	2:45:17	3.1494	170.71
1555	1	2:45:53	3.1594	170.71
1560	1	2:46:29	3.1694	170.71
1565	1	2:47: 5	3.1793	170.71
1570	1	2:47:41	3.1893	170.71
1575	1	2:48:17	3.1993	170.71
1580	1	2:48:53	3.2093	170.71
1585	1	2:49:29	3.2193	170.71
1590	1	2:50: 5	3.2293	170.71
1595	1	2:50:41	3.2393	170.71
1600	1	2:51:17	3.2493	170.71

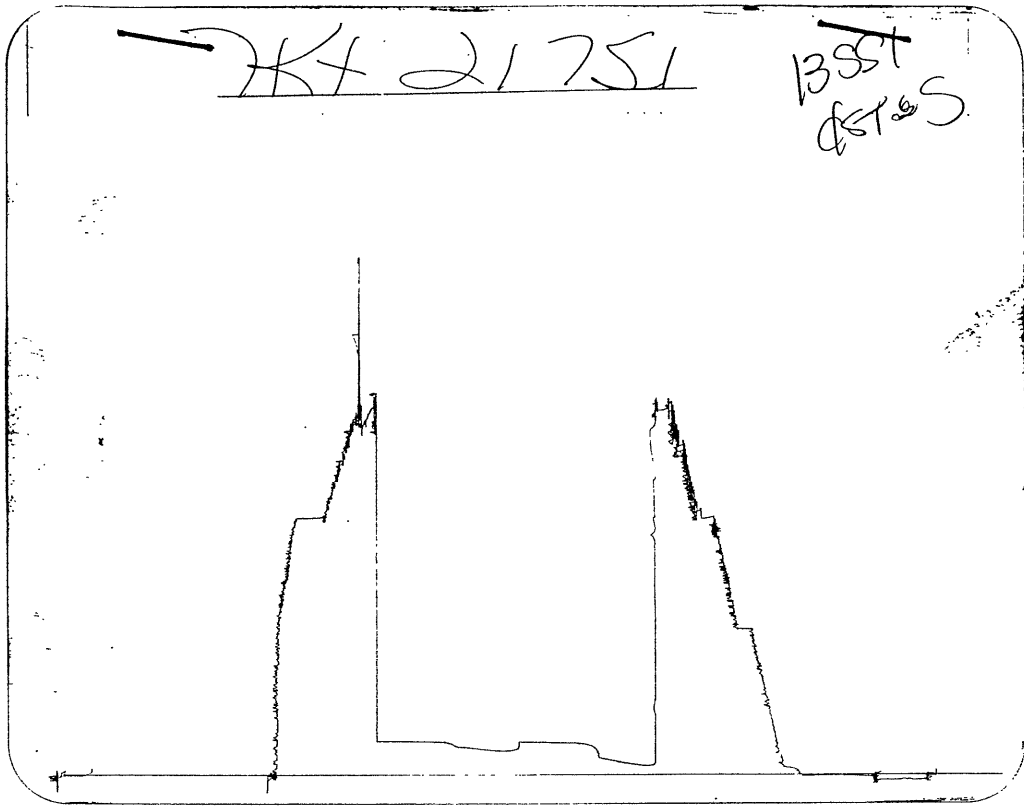
WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION, INC  
Well: #1 FRANKLIN  
Field: TKT 21751 DST 5

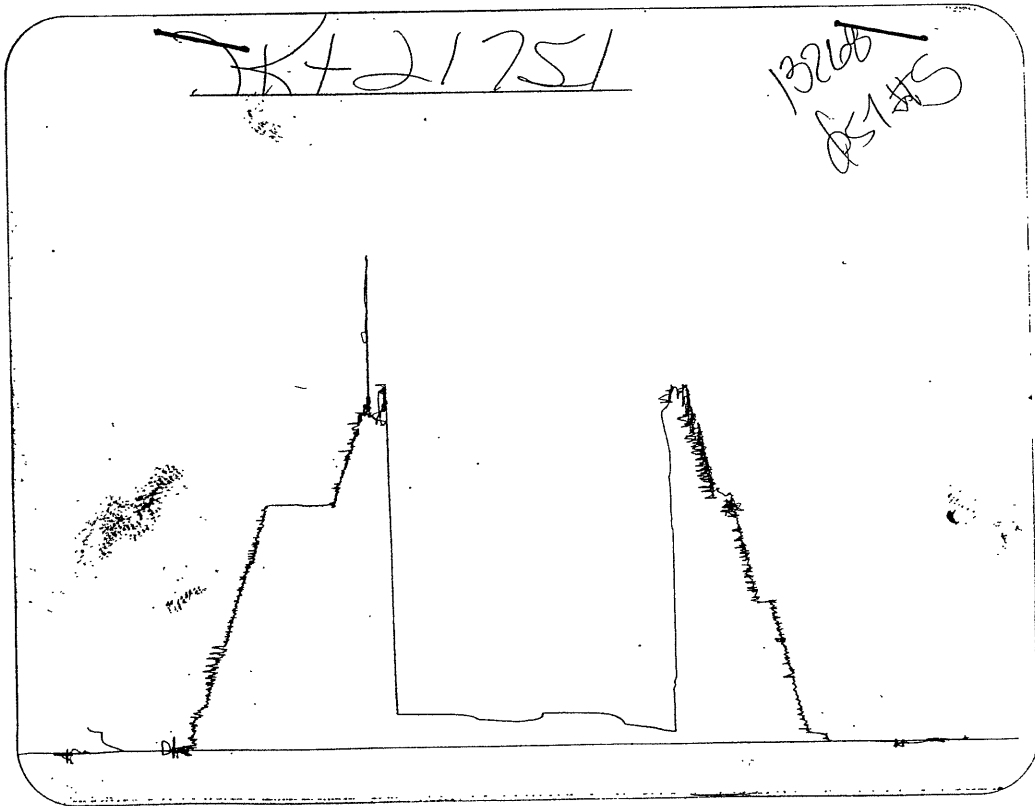
[Thursday: Dec. 19, 1996]  
Page 7

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1605	1	2:51:53	3.2593	170.71
1610	1	2:52:29	3.2693	170.71
1615	1	2:53: 5	3.2793	170.71
1620	1	2:53:40	3.2893	170.71
1625	1	2:54:16	3.2992	170.71
1630	1	2:54:52	3.3092	170.71
1635	1	2:55:28	3.3192	170.71
1640	1	2:56: 4	3.3292	171.58
1645	1	2:56:40	3.3392	171.58
1650	1	2:57:16	3.3492	171.58
1655	1	2:57:52	3.3592	171.58
1660	1	2:58:28	3.3692	171.58
1665	1	2:59: 4	3.3792	171.58
1670	1	2:59:40	3.3892	171.58
1675	1	3: 0:16	3.3992	171.58
1680	1	3: 0:52	3.4092	171.58
1685	1	3: 1:28	3.4191	171.58
1690	1	3: 2: 4	3.4291	171.58
1695	1	3: 2:40	3.4391	171.58
1700	1	3: 3:16	3.4491	171.58
1705	1	3: 3:52	3.4591	171.58
1710	1	3: 4:28	3.4691	171.58
1715	1	3: 5: 4	3.4791	171.58
1720	1	3: 5:40	3.4891	171.58
1725	1	3: 6:16	3.4991	171.58

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder



57 .

DST REPORT

GENERAL INFORMATION

DATE	: 12/20/96	TICKET	: 21752		
CUSTOMER	: RITCHIE EXPLORATION INC	LEASE	: FRANKLIN		
WELL	: #1	TEST: 6	GEOLOGIST: CHRISTIAN		
ELEVATION	: 3105 KB	FORMATION	: PAWNEE		
SECTION	: 11	TOWNSHIP	: 6S		
RANGE	: 33W	COUNTY: THOMAS	STATE	: KS	
GAUGE SN#	: 13551	RANGE	: 4150	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4282.00 ft	TO:	4373.00 ft	TVD:	4373.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4285.0 ft	4288.0 ft			
TEMPERATURE:	122.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	4259.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	23.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	91.0 ft	ANCHOR SIZE:	5.500 in		
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in		
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH		
PACKER DEPTH:	4277.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	4282.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	WHITE & ELLIS	VISCOSITY :	47.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.400 cc
WEIGHT :	9.200 ppg	SERIAL NUMBER:	
CHLORIDES :	5000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - 1 1/2 INCHES IN WATER. FINAL FLOW PERIOD VERY WEAK SURFACE BLOW.

## DST REPORT (CONTINUED)

## FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
5.0	0.0	0.0	0.0	100.0	MUD

## RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.0701 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0701 STB		

## FIELD TIME &amp; PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2122.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	20.00	20.00
INITIAL SHUT-IN	45.00		83.00
FINAL FLOW	30.00	20.00	20.00
FINAL SHUT-IN	45.00		73.00

FINAL HYDROSTATIC PRESSURE: 2112.00

## OFFICE TIME &amp; PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2130.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	49.43	50.15
INITIAL SHUT-IN	45.00		101.88
FINAL FLOW	30.00	36.25	36.10
FINAL SHUT-IN	45.00		90.30

FINAL HYDROSTATIC PRESSURE: 2118.00

FLUID SAMPLE REPORT

GENERAL INFORMATION

DATE	: 12/20/96	TICKET	: 21752
CUSTOMER	: RITCHIE EXPLORATION INC	LEASE	: FRANKLIN
WELL	: #1	TEST: 6	GEOLOGIST: CHRISTIAN
ELEVATION	: 3105 KB	FORMATION	: PAWNEE
SECTION	: 11	TOWNSHIP	: 6S
RANGE	: 33W	COUNTY: THOMAS	STATE : KS
GAUGE SN#	: 13551	RANGE : 4150	CLOCK : 12

SAMPLE INFORMATION

PRESSURE IN SAMPLER:	10.00 PSIG	BHT:	122.0 DEG F
TOTAL VOLUME OF SAMPLER:	3150.00 cc		
TOTAL VOLUME OF SAMPLE:	0.00 cc		
OIL:	0.00 cc		
WATER:	0.00 cc		
MUD:	3150.00 cc		
GAS:	2.60 cc		
OTHER:	0.00 cc		

RESISTIVITY

DRILLING MUD:	CHLORIDE CONTENT:	0.00 ppm
MUD PIT SAMPLE:	CHLORIDE CONTENT:	0.00 ppm
GAS/OIL RATIO:	GRAVITY:	
WHERE WAS SAMPLE DRAINED:		
REMARKS:		

Company: RITCHIE EXPLORATION INC  
 Well: #1 FRANKLIN  
 Field: TKT 21752 DST 6

[Friday: Dec. 20, 1996]  
 Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	11:40:52	0.0000	49.43
3	0	11:41: 7	0.0040	49.42
12	0	11:42:11	0.0219	45.90
21	0	11:43:16	0.0399	43.25
30	0	11:44:21	0.0579	42.35
39	0	11:45:25	0.0759	42.31
48	0	11:46:30	0.0939	42.27
57	0	11:47:35	0.1118	42.24
66	0	11:48:40	0.1298	43.07
75	0	11:49:44	0.1478	43.03
84	0	11:50:49	0.1658	43.87
93	0	11:51:54	0.1838	43.83
102	0	11:52:59	0.2018	44.67
111	0	11:54: 3	0.2198	44.63
120	0	11:55: 8	0.2378	46.34
129	0	11:56:13	0.2558	48.04
138	0	11:57:18	0.2738	48.00
147	0	11:58:22	0.2917	47.97
156	0	11:59:27	0.3097	47.93
165	0	12: 0:32	0.3277	47.89
174	0	12: 1:37	0.3457	47.86
183	0	12: 2:41	0.3637	47.82
192	0	12: 3:46	0.3817	47.78
201	0	12: 4:51	0.3997	47.75
210	0	12: 5:56	0.4176	47.71
219	0	12: 7: 0	0.4356	47.67
228	0	12: 8: 5	0.4536	47.64
237	0	12: 9:10	0.4716	48.47
246	0	12:10:15	0.4896	50.15
END FLOW 1				
START SHUTIN 1				
253	0	12:11: 5	0.5036	50.18
255	0	12:11:20	0.5076	51.01
264	0	12:12:24	0.5256	51.85
273	0	12:13:29	0.5436	52.68
282	0	12:14:34	0.5616	53.51
291	0	12:15:39	0.5796	56.09
300	0	12:16:44	0.5976	58.67
309	0	12:17:48	0.6156	62.11
318	0	12:18:53	0.6337	64.69
327	0	12:19:58	0.6517	68.14
336	0	12:21: 3	0.6697	70.71
345	0	12:22: 8	0.6877	72.42
354	0	12:23:13	0.7057	74.99
363	0	12:24:17	0.7237	76.70
372	0	12:25:22	0.7417	77.53
381	0	12:26:27	0.7597	79.24
390	0	12:27:32	0.7777	80.94
399	0	12:28:37	0.7957	82.65
408	0	12:29:41	0.8137	83.48
417	0	12:30:46	0.8317	86.06
426	0	12:31:51	0.8497	86.89
435	0	12:32:56	0.8677	86.86
444	0	12:34: 1	0.8857	88.56

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC  
 Well: #1 FRANKLIN  
 Field: TKT 21752 DST 6

[Friday: Dec. 20, 1996]  
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
453	0	12:35: 5	0.9037	90.27
462	0	12:36:10	0.9217	91.97
471	0	12:37:15	0.9397	91.94
480	0	12:38:20	0.9577	93.64
489	0	12:39:25	0.9757	94.48
498	0	12:40:29	0.9937	94.44
507	0	12:41:34	1.0117	95.27
516	0	12:42:39	1.0297	96.11
525	0	12:43:44	1.0476	96.94
534	0	12:44:49	1.0656	97.78
543	0	12:45:53	1.0836	98.61
552	0	12:46:58	1.1016	99.45
561	0	12:48: 3	1.1196	99.41
570	0	12:49: 8	1.1376	100.24
579	0	12:50:12	1.1556	101.08
588	0	12:51:17	1.1736	101.04
597	0	12:52:22	1.1916	101.84
606	0	12:53:27	1.2096	101.88
		END SHUTIN 1		
		START FLOW 2		
608	0	13: 1:12	1.3388	36.25
617	0	13: 2:16	1.3567	35.34
626	0	13: 3:21	1.3747	34.44
635	0	13: 4:26	1.3927	34.40
644	0	13: 5:31	1.4107	32.62
653	0	13: 6:35	1.4286	31.71
662	0	13: 7:40	1.4466	31.68
671	0	13: 8:45	1.4646	31.64
680	0	13: 9:49	1.4826	30.73
689	0	13:10:54	1.5006	30.70
698	0	13:11:59	1.5185	29.79
707	0	13:13: 4	1.5365	29.75
716	0	13:14: 8	1.5545	29.72
725	0	13:15:13	1.5725	29.68
734	0	13:16:18	1.5905	29.64
743	0	13:17:23	1.6085	29.61
752	0	13:18:27	1.6264	29.57
761	0	13:19:32	1.6444	30.40
770	0	13:20:37	1.6624	30.37
779	0	13:21:42	1.6804	30.33
788	0	13:22:46	1.6984	30.29
797	0	13:23:51	1.7164	30.26
806	0	13:24:56	1.7344	31.09
815	0	13:26: 1	1.7524	31.05
824	0	13:27: 5	1.7704	31.89
833	0	13:28:10	1.7883	32.72
842	0	13:29:15	1.8063	33.56
851	0	13:30:20	1.8243	34.39
860	0	13:31:25	1.8423	36.10
		END FLOW 2		
		START SHUTIN 2		
865	0	13:32: 1	1.8523	36.95
869	0	13:32:29	1.8603	36.93
878	0	13:33:34	1.8783	38.64
887	0	13:34:39	1.8964	40.34

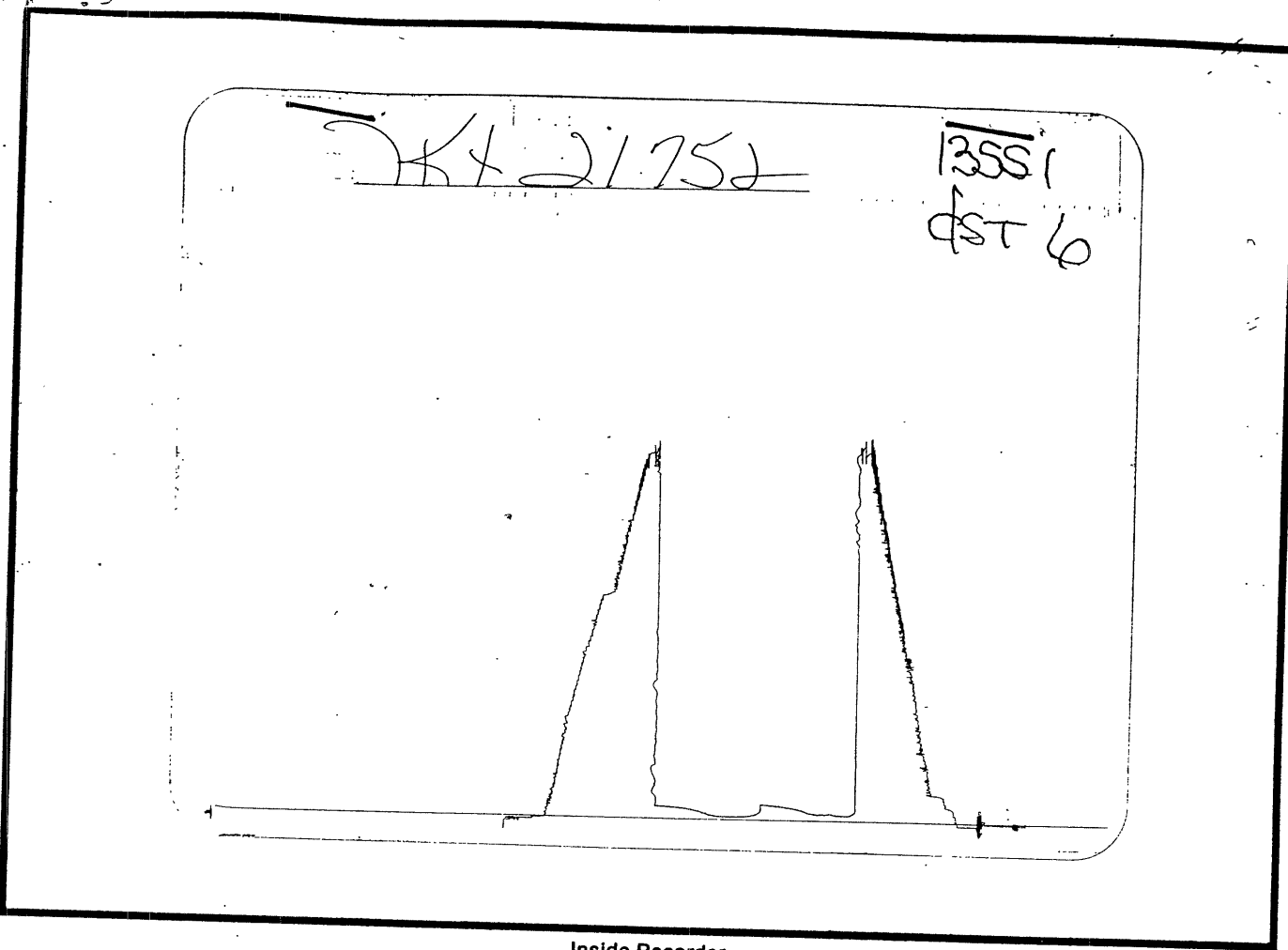
WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC  
 Well: #1 FRANKLIN  
 Field: TKT 21752 DST 6

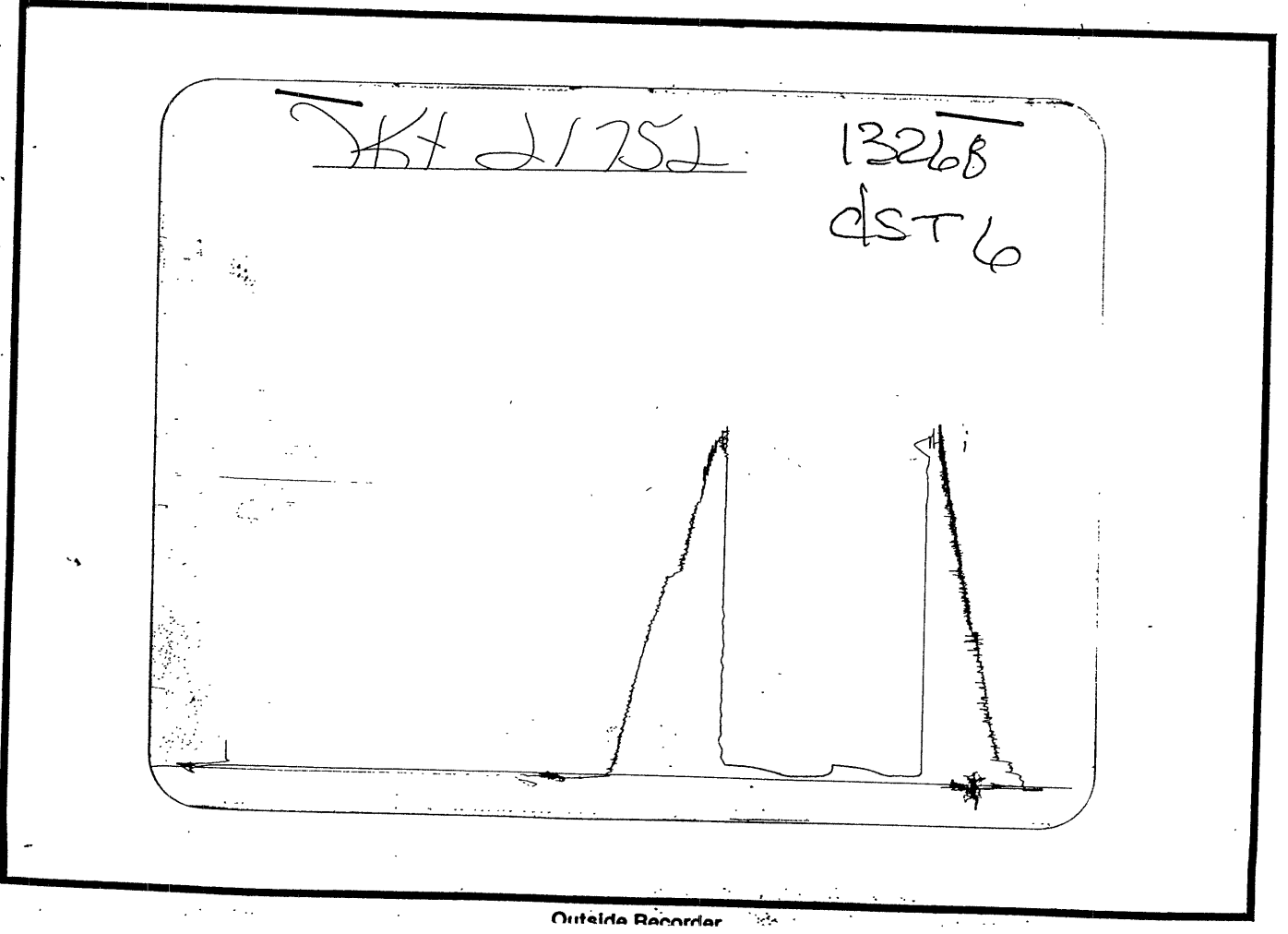
[Friday: Dec. 20, 1996]  
 Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
896	0	13:35:44	1.9144	42.05
905	0	13:36:49	1.9324	44.62
914	0	13:37:54	1.9504	48.07
923	0	13:38:58	1.9684	49.78
932	0	13:40: 3	1.9864	52.35
941	0	13:41: 8	2.0044	54.06
950	0	13:42:13	2.0224	57.50
959	0	13:43:18	2.0404	60.08
968	0	13:44:23	2.0584	61.79
977	0	13:45:27	2.0765	63.49
986	0	13:46:32	2.0945	66.07
995	0	13:47:37	2.1125	67.77
1004	0	13:48:42	2.1305	69.48
1013	0	13:49:47	2.1485	70.31
1022	0	13:50:51	2.1665	72.02
1031	0	13:51:56	2.1845	72.85
1040	0	13:53: 1	2.2025	73.69
1049	0	13:54: 6	2.2205	75.39
1058	0	13:55:11	2.2385	76.23
1067	0	13:56:15	2.2564	77.06
1076	0	13:57:20	2.2745	78.76
1085	0	13:58:25	2.2924	79.60
1094	0	13:59:30	2.3104	80.43
1103	0	14: 0:35	2.3284	81.27
1112	0	14: 1:39	2.3464	82.10
1121	0	14: 2:44	2.3644	82.94
1130	0	14: 3:49	2.3824	82.90
1139	0	14: 4:54	2.4004	82.86
1148	0	14: 5:58	2.4184	83.70
1157	0	14: 7: 3	2.4364	84.53
1166	0	14: 8: 8	2.4544	85.37
1175	0	14: 9:13	2.4724	86.20
1184	0	14:10:17	2.4904	86.16
1193	0	14:11:22	2.5083	87.00
1202	0	14:12:27	2.5263	87.83
1211	0	14:13:32	2.5443	87.80
1220	0	14:14:37	2.5623	88.63
1229	0	14:15:41	2.5803	89.46
1238	0	14:16:46	2.5983	90.30

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder