

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

API NO. 15- 077-21303 0000

ORIGINAL

County Harper County, Kansas

N/2 - SW/4 SE/4 Sec. 14 Twp. 31S Rge. 9 <sup>E</sup>XXXV

1240 Feet from S/N (circle one) Line of Section

1980 Feet from E/W (circle one) Line of Section

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

Lease Name Morris Well # 2

Field Name Spivey-Grabs

Producing Formation Mississippian

Elevation: Ground 1603 KB 1611

Total Depth 4500' PBTD 4500'

Amount of Surface Pipe Set and Cemented at 264 Feet

Multiple Stage Cementing Collar Used? Yes X No

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

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

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan ALT 1 8/7/97 6-19-97  
(Data must be collected from the Reserve Pit)

Chloride content 54,000 ppm Fluid volume 450 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

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

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

Quarter Sec. Twp. S Rng. E/W

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

Operator: License # 5144

Name: Mull Drilling Co., Inc.

Address P.O. Box 2758

City/State/Zip Wichita, Kansas 67201-2758

Purchaser: Foxx Transport, LLC

Operator Contact Person: Mark A. Shreve

Phone ( 316 ) 264-6366

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Roger Martin

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SLD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, MSW, Expl., Cathodic, etc)

If Workovers:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

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

06-14-96 06-21-96 06-22-96  
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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

Signature [Signature] Mark A. Shreve

Title President Date 9/23/96

Subscribed and sworn to before me this 23 day of September, 19 96.

Notary Public Tannis L. Tritt

Date Commission Expires March 26, 1999

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

TANNIS L. TRITT  
Notary Public - State of Kansas  
My Appt. Expires 3-26-99

RECEIVED  
KANSAS CORP COM  
9-24-96  
9-24-96  
9-24-96

Operator Name Mull Drilling Co., Inc. Lease Name Morris Well # 2  
 Sec. 14 Twp. 31S Rge. 9  East  West  
 County Harper County, Kansas

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

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3441	- 1828
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Douglas	3542	- 1911
List All E.Logs Run:		Lansing	3617	- 2004
DIL, Den-Neutron & Microlog		Stark Shale	4056	- 2443
		BKC	4158	- 2545
		Marmaton	4188	- 2575
		Cherokee	4286	- 2673
		Miss	4360	- 2747

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	20#	264'	60/40 Poz	165	3%cc 2%gel
Production	7-7/8"	5-1/2"	14#	4498'	ASC 60/40 Poz	100 1/25	4% gel

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4388'-4396'	500 gal 15% FE Acid	4388-96'
		32,000 gal 35# Boragel and	4388-96'
		52,000# 12/20 Brown Sand	

TUBING RECORD	Size 2 3/8"	Set At 4362'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SMD or Inj. July 16, 1996	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. 21.5	Gas Mcf 76	Water Bbls. 66	Gas-Oil Ratio 3534 Gravity 27.8

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

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

Production Interval: 4388'-4396'

# ALLIED CEMENTING CO., INC.

6157

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

ORIGINAL

SERVICE POINT: med. lodge

DATE <u>6-14-96</u>	SEC. <u>14</u>	TWP. <u>31s</u>	RANGE <u>9w</u>	CALLED OUT <u>1:30p.m.</u>	ON LOCATION <u>3:30p.m.</u>	JOB START <u>6:00p.m.</u>	JOB FINISH <u>6:30p.m.</u>
LEASE <u>Morris</u>		WELL # <u>2</u>	LOCATION <u>Keystone Church, 1E-1 3/4s-w 2 In</u>		COUNTY <u>Harper</u>	STATE <u>Ks.</u>	

OLD OR  NEW (Circle one)

CONTRACTOR Duke #2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 265

CASING SIZE 8 5/8 x 20 DEPTH 264

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

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

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

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

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

CEMENT LEFT IN CSG. 15ft.

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

OWNER Mull Drlg. Co.

CEMENT

AMOUNT ORDERED 165555.60/40/3% CMC<sup>2</sup> + 2% Gel

COMMON	<u>99</u>	@	<u>6.10</u>	<u>603.90</u>
POZMIX	<u>66</u>	@	<u>3.15</u>	<u>207.90</u>
GEL	<u>3</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5</u>	@	<u>28.00</u>	<u>140.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>165</u>	@	<u>1.05</u>	<u>173.25</u>
MILEAGE	<u>165 x 28</u>		<u>.04</u>	<u>184.80</u>

TOTAL \$1338.35

EQUIPMENT

PUMP TRUCK CEMENTER Larry D.

# 265 HELPER Carl B.

BULK TRUCK

# 256 DRIVER Tims

BULK TRUCK

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

REMARKS:

Mix + Pump 165555.60/40/3% CMC<sup>2</sup> + 2% Gel Cement In. Stop Pumps Release Plug. Pump + Displace Plug w/ 16 1/4 Bbls Fresh H<sub>2</sub>O. Displace In. Stop Pumps - Shut In Cement Circ to Surface.

SERVICE

DEPTH OF JOB	<u>264'</u>		
PUMP TRUCK CHARGE	<u>0-300'</u>		<u>445.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>28</u>	@	<u>2.35</u> <u>65.80</u>
PLUG	<u>Wooden 8 7/8"</u>	@	<u>45.00</u> <u>45.00</u>
		@	
		@	

RECEIVED  
INDAS  
COMM  
6-19-96  
TOTAL \$555.80

CHARGE TO: Mull Drlg. Co. Inc.

STREET PO Box 2758

CITY Wichita STATE Ko ZIP 67201

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.

TAX \_\_\_\_\_

TOTAL CHARGE \$ 1894.15

DISCOUNT \$ 378.83 IF PAID IN 30 DAYS

NET \$ 1515.32

SIGNATURE [Signature]

BLO

## 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. 6160

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

## ORIGINAL

SERVICE POINT:  
med. lodge

DATE <u>6-21-96</u>	SEC. <u>14</u>	TWP. <u>3 1/2</u>	RANGE <u>9W</u>	CALLED OUT <u>2:00 P.M.</u>	ON LOCATION <u>7:45 P.M.</u>	JOB START <u>12:00 A.M.</u>	JOB FINISH <u>1:15 A.M.</u>
LEASE <u>MORRIS</u>		WELL # <u>2</u>	LOCATION <u>Keystone, E-1/2S-W/3</u>			COUNTY <u>Harper</u>	STATE <u>KS.</u>

OLD OR NEW (Circle one)

CONTRACTOR Duke #2

TYPE OF JOB Production CSG.

HOLE SIZE 7 7/8 T.D. 4500

CASING SIZE 5 1/2 x 11 1/4 DEPTH 4499'

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

DRILL PIPE 4 1/2 x-hole DEPTH 4500'

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

PRES. MAX 1000 MINIMUM 250

MEAS. LINE \_\_\_\_\_ SHOE JOINT 4293

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

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

OWNER mull Drlg. Co.  
CEMENT

AMOUNT ORDERED 500 Gallons mud Clean  
100sxs. Asc + 5# Kol-Seal  
25sxs. 60/40/4% Gel

COMMON	<u>15</u>	@	<u>6.10</u>	<u>91.50</u>
POZMIX	<u>10</u>	@	<u>3.15</u>	<u>31.50</u>
GEL	<u>1</u>	@	<u>9.50</u>	<u>9.50</u>
CHLORIDE		@		
<u>A.S.C.</u>	<u>100</u>	@	<u>7.85</u>	<u>785.00</u>
<u>Kol-Seal</u>	<u>500#</u>	@	<u>.38</u>	<u>190.00</u>
<u>MUD CLEAN</u>	<u>500 GALS</u>	@	<u>.75</u>	<u>375.00</u>
		@		
		@		
HANDLING	<u>125</u>	@	<u>1.05</u>	<u>131.25</u>
MILEAGE	<u>125 x .28</u>		<u>.04</u>	<u>140.00</u>

### EQUIPMENT

PUMP TRUCK CEMENTER HARRY D.  
# 265 HELPER CARL B.

BULK TRUCK DRIVER Jim H.  
# 242

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

TOTAL \$1753.75

### REMARKS:

mix + Pump 500 Gallons mud-Clean  
15sxs. 60/40/4% Gel Rathole  
10sxs. 60/40/4% Gel mousehole  
100sxs. CLASS A, Asc + 5# Kol-  
Seal. Cement In. Stop Pumps  
Release Plug. Displace w/114  
Bbls Fresh H<sub>2</sub>O. Bump Plug.  
Release PSI. Float Held

### SERVICE

DEPTH OF JOB	<u>4499'</u>			
PUMP TRUCK CHARGE				<u>1090.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>28</u>	@	<u>3.35</u>	<u>65.80</u>
PLUG <u>Rubber 5 1/2"</u>		@	<u>50.00</u>	<u>50.00</u>
		@		
		@		

TOTAL \$1205.80

CHARGE TO: mull Drlg. Co. Inc.

STREET Box 2758

CITY Wichita STATE Ko ZIP 67201

### FLOAT EQUIPMENT

<u>5/2</u>				
<u>1-Reg. Guide Shoe</u>	@	<u>168.00</u>		<u>168.00</u>
<u>1-AFD Insert</u>	@	<u>263.00</u>		<u>263.00</u>
<u>5-Turbo Cent.</u>	@	<u>56.00</u>		<u>280.00</u>
	@			
	@			

TOTAL \$711.00

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

SIGNATURE Carl P. Smalley

TAX \_\_\_\_\_

TOTAL CHARGE \$ 3670.55

DISCOUNT \$ 734.11 IF PAID IN 30 DAYS

NET \$ 2936.44

RECEIVED  
KANSAS CORP COMM  
JUN 19 12 37

## 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.

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

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

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

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

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

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

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

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

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

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

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

2. More specifically:

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

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

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

ORIGINAL

Weatherford  
 ZIYANE 12h MOORE, OK 73160

Media GREENFIELD TP

North Drlg \_\_\_\_\_ Co. Date 6/15/82

Well 2 Depth 215'

Location Wagon's Degree 1°

By ONE

RECEIVED  
 KANSAS CORP CORP  
 1986 SEP 24 P 12:22

Weatherford  
 ZIYANE 12h MOORE, OK 73160

Media GREENFIELD TP

North Drlg \_\_\_\_\_ Co. Date 6-20-82

Well 2 Depth 2326

Location Wagon's Degree 1°

By SA/STC



**HALLIBURTON ENERGY SERVICES**

HAL 1906-N

CHARGE TO: Mull Detuzing Company  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

RECEIVED No. 968562  
 KANSAS CORP COMM  
 1995 SEP 24 P. 12. 22

TICKET 968562 - [ ]  
 PAGE 1 OF 2

1. SERVICE LOCATIONS <u>1. T. BARK, KANSAS 65555</u>	WELL PROJECT NO. <u>#2</u>	LEASE <u>MORRIS</u>	COUNTY/PARISH <u>HARPER</u>	STATE <u>Ks.</u>	CITY/OFFSHORE LOCATION <u>Zunda Kansas</u>	DATE <u>7-9-96</u>	OWNER <u>SANE</u>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Shannon Well Services</u>	RIG NAME/NO <u>DIA</u>	SHIPPED <u>OK</u>	DELIVERED TO <u>Location</u>	ORDER NO. <u>SANE</u>
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Oil Development</u>	JOB PURPOSE <u>BOB Gel G.</u>	WELL PERMIT NO. <u>DIA</u>	WELL LOCATION <u>14, 315, 9W</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M	
<del>303-111</del>	ORIGINAL	1			MILEAGE For Stimulation Equipment	80 Miles		Suits	2.99	1196.
301-085		1			Minimum Pump Charges	4 Hrs		2 Pumps	2784.00	4368.
301-200		1			Proportioner Charge	25 BPM		1 ea.	2787.25	2787.
307-157		1			Proportional Pre-Mix Chemicals	2 Hrs		1 ea.	484.60	968.
307-785		1			FORWARD II	1 Job		1 ea.	1732.50	1732.
300-131		1			Delivery Charge Large Unit	4 Hrs		1 unit	65.00	260.
307-660		1			Flow Meter	1 Day		1 ea.	231.00	231.
307-802		1			Roboratus Downometer	1 Job		1 ea.	488.25	488.
310-145	1			BOB Gel G.	35#		32000 Gal	7.85	8792.	
314-163	1			Clay Fix II	82 Gal			28.00	2296.	

<b>LEGAL TERMS:</b> Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, <b>PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY</b> provisions.  MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS  X DATE SIGNED <u>7-9-96</u> TIME SIGNED <u>08:00</u> <input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M. <input type="checkbox"/> <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered	SUB SURFACE SAFETY VALVE WAS <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN			SURVEY			AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <u>23,119.</u>  FROM CONTINUATION PAGE(S) <u>17,783.</u>  SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <u>49902.</u>
	TYPE LOCK	DEPTH		OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?						
	BEAN SIZE	SPACERS		WE UNDERSTOOD AND MET YOUR NEEDS?						
	TYPE OF EQUALIZING SUB	CASING PRESSURE		OUR SERVICE WAS PERFORMED WITHOUT DELAY?						
	TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?						
TREE CONNECTION			TYPE VALVE			ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				
						<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

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

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <u>Michael Polley</u>	CUSTOMER OR CUSTOMER'S AGENT SIGNATURE <u>[Signature]</u>	HALLIBURTON OPERATOR/ENGINEER <u>Ruet Dutoit</u>	EMP # <u>86660</u>	HALLIBURTON APPROVAL
--	--	---	-----------------------	----------------------

07-09-96 19:40 P.02  
FRX NO.: 3166727508  
FROM: HALLIBURTON SERVICES





TICKET CONTINUATION

ORIGINAL

TICKET No. 968562

HALLIBURTON ENERGY SERVICES

RECEIVED

CUSTOMER Mull Drilling Company

WELL Morris #2

DATE 7-9-96

PAGE 2 OF 2

FORM 1811 R-10

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT	
		LOC	ACCT	OF		U/M	U/M			
510-198	1996 SEP	271	P 12	22	Oklahoma #1 100 Mesh Sand White Bulk	50	BKS.	9.09	454.	
510-156		1			12/20 Bedy Sand Bulk Brown	520	BKS.	9.28	4825.	
218-702		1			LoSuef-259	30	Gal	39.00	1170.	
314-200		1			Cat-1	8	Gal	5.10	40.	
314-712		1			Adomite Aqua	250	#	2.70	675.	
310-400		1			Cat-3	32	Gal	15.15	484.	
311-050		1			SP Breaker	32	#	5.40	172.	
313-396		1			BE-6	6	#	70.00	420.	
301-197		1			Fluid Prod Maint Handling Charge	3-4.0	# PPG	19,000 Gal	.04	760.
301-197		1			Fluid Prod Maint Handling Charge	4.3-6.0	# PPG	3,000 Gal	.11	330.
313-615		1			PeoPlak	25	Gal	100.00	2500.	
313-620		1			ES-5	11	Gal	50.00	550.	
300-111		1			M. Large For PeoPlak	300	Miles	1 unit	2.99	897.
307-805		1			PeoPlak Processing Unit	1	Job	1 unit	635.00	635.
314-237		1			Operator Charge			1 unit	125.00	125.
218-791		1			Musol-A	30	Gal	23.00	690.	
314-237		1			Diesel	30	Gal	1.50	45.	
314-237		1			Clean-up Soap	15	#	1.50	22.	
207-001	201-001	1			Fe Acid	1000	Gal	15%	1.72	1720.
210-013		1			HAI-BSM	.5	Gal	58.25	29.	
218-702		1			LoSuef-259	1	Gal	39.00	39.	
					SERVICE CHARGE			CUBIC FEET		
500-340		1			MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES		
					57,000	40 miles	1140			
								1.05	1197.	

ORIGINAL

FORM: HALLIBURTON SERVICES FAX NO.: 3166727508 07-09-96 19:41 P.03

No. B 338489

CONTINUATION TOTAL 17,783.



DATE: 7-9-96  
PAGE NO.

JOB LOG HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Mull Deering Co.		#2		Morris		Boer Gul G.		968562	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	08:30								Called Out
	09:00								OO location ORIGINAL
	08:20								Held Safety Mtg.
	08:41								Pump 1000 Gal 15% FE Acid Down 5.5" Csg.
	08:46	20.0	1000						Acid In Start Clay Fix Wt. Flush
	08:51		4500				20		Hole loaded
	08:53	.25					1209		Psi w/ Beaker's
	08:54	1.0					1304		Beaker's
	08:55	3.0					1090		Increase Rate
	08:56	11.0					685		Increase Rate
	08:57		5500				743		Flush In Shut Down
	08:57						493		ISIP
	08:57.5								Vacuum 30 sec.
									Swab back Acid Job.
	11:45								Held Safety Meeting
	12:02								Prime Pumps
	12:04						3120		Psi Test Lines
	12:06	23.6							Start 5000 Gal Gel Pad
	12:11	24.0	4500				1160		Hole loaded establish Rate
	12:12	24.0	5000				1169		Start 5000 Gal Gel w/ 1.0" 100 Mesh
	12:17	25.0	10000				868		Start 5000 Gal Gel Pad.
	12:22	25.8	15,000				1004		Pad In Start 3000 Gal Gel w/ 1.0" 12/20 Sand
	12:25	25.7	18,000				924		Start 3000 Gal Gel w/ 2.0" 12/20 Sand
	12:27	25.7	19,496				855		1.0" 12/20 on Bottom
	12:28	25.7	21,000				831		Start 4000 Gal Gel w/ 3.0" 12/20 Sand
	12:30	25.7	22,496				793		2.0" 12/20 on Bottom
	12:32	25.7	25,000				794		Start 4000 Gal Gel w/ 4.0" 12/20 Sand
	12:32	25.7	25,496				781		3.0" 12/20 on Bottom
	12:36	25.7	29,000				827		Start 1000 Gal Gel w/ 5.0" 12/20
	12:37	25.7	30,000				839		Start 2000 Gal Gel w/ 5.0" 12/20 w/ PeaPlok
	12:40	25.7	32,000				909		Sand In Start Clay Fix Wt. Flush
	12:41	30.0	36,400				1131		5.0" 12/20 on Bottom Incr. Rate
	12:44						1350		Flush In Shut Down
	12:44						1183		ISIP
	12:56						230		12 min Thank you.
	12:59						61		15 min Quiet Detail of Post Fire Crew

IKAJIS AS CORP  
 RECEIVED  
 SEP 24 11 12 AM '96

# FRACTURING SERVICE TREATING REPORT

FORM 42012 R-4

FROM: HALLIBURTON SERVICES

FAX NO.: 3166727568

07-09-96 19:43 P.05  
BILLED ON TICKET NO. 968562

**WELL DATA**

Field MISSISSIPPI Sec. 14 Twp. 31S Rng. 9W County HARPER State Ks.

Formation Name MISSISSIPPI Type CHERT

Formation Thickness From \_\_\_\_\_ To \_\_\_\_\_

Initial Prod: Oil \_\_\_\_\_ Bpd. Water \_\_\_\_\_ Bpd. Gas \_\_\_\_\_ Mcfd.

Present Prod: Oil \_\_\_\_\_ Bpd. Water \_\_\_\_\_ Bpd. Gas \_\_\_\_\_ Mcfd.

Isolation Tool # \_\_\_\_\_ Mandrel Size \_\_\_\_\_ Extensions \_\_\_\_\_ In.

Packer Type \_\_\_\_\_ Set At \_\_\_\_\_

Bottom Hole Temp. \_\_\_\_\_ RBPE \_\_\_\_\_

Head Or Flange \_\_\_\_\_ Pbitd \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	14#	5.5	KB	4490	4400-2500
LINER						
TUBING						
OPEN HOLE						
PERFORATIONS				4388	4396	45PF
PERFORATIONS						
PERFORATIONS						

**MATERIALS**

Treat. Fluid BORAGEL Density 35 Lb./Gal. API

Displ. Fluid CLAFIX WATER Density 8.38 Lb./Gal. API

Prop. Type 100 MESH Size 100 Lb. 5000

Prop. Type BRADY Size 12/20 Lb. 52,000

Radioactive Tracer \_\_\_\_\_ Carrier \_\_\_\_\_ Units-MCI \_\_\_\_\_

Surfactant Type LOSURF259 Gal. 30 @ 1 /1000 Gal.

Surfactant Type \_\_\_\_\_ Gal. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Fluid Loss Type ADDMITF Gal.-Lb. 250 @ 25 /1000 Gal.

Gelling Agent LGC IV Gal.-Lb. 280 @ 8.75 /1000 Gal.

Gelling Agent \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Breaker Type SP Gal.-Lb. 32 @ 1 /1000 Gal.

Breaker Type CAT-3 Gal.-Lb. 32 @ 1 /1000 Gal.

Crosslinker CL-31 Gal.-Lb. 24 @ 75 /1000 Gal.

Stabilizer \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Buffer Type \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Buffer Type \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Bactericide CAT-1 Gal.-Lb. 8 @ 1 Tank /1000 Gal.

Non-Foamer \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Clay Control CLAFIX II Gal.-Lb. 82 @ 2 /1000 Gal.

Diverter \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Friction Reducer \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_ Size \_\_\_\_\_ S.G. \_\_\_\_\_

Other \_\_\_\_\_

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-9-96</u>	DATE <u>7-9-96</u>	DATE <u>7-9-96</u>	DATE <u>7-9-96</u>
TIME <u>0930</u>	TIME <u>0600</u>	TIME <u>0800</u>	TIME <u>14:30</u>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
		ORIGINAL
		SEE ATTACHED SHEET
		RECEIVED KANSAS COLL. DIV. 1996 SEP 24 12:22

**ACID DATA**

Acid Type FE % 15 Gal.-Bbl. 500

Acid Type \_\_\_\_\_ % \_\_\_\_\_ Gal.-Bbl. \_\_\_\_\_

Surfactant Type LOSURF259 Gal. 1 @ 2 /1000 Gal.

Surfactant Type \_\_\_\_\_ Gal. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

NE Agent Type \_\_\_\_\_ Gal. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Clay Control Type \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Corrosion Inhibitor HAI-85M Gal.-Lb. 1/2 @ 1 /1000 Gal.

Corrosion Inhibitor \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Cracking Inhibitor \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Iron Sequester \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

Friction Reducer \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

**PRESSURES IN PSI**

Circulating \_\_\_\_\_ Displacement \_\_\_\_\_

Breakdown \_\_\_\_\_ Maximum \_\_\_\_\_

Average \_\_\_\_\_ Fracture Gradient \_\_\_\_\_

ISIP 1183 5 Min. \_\_\_\_\_ 10 Min. 200 15 Min. 61

**HYDRAULIC HORSEPOWER**

Ordered \_\_\_\_\_ Available \_\_\_\_\_ Used \_\_\_\_\_

AVERAGE RATE IN BPM

Treating 25 Displ. 29 Overall 26

Customer Representative X

Copies Requested \_\_\_\_\_

**SUMMARY**

Preflush: Bbl.-Gal. \_\_\_\_\_ Type \_\_\_\_\_

Load & Bkdn: Bbl.-Gal. \_\_\_\_\_ Pad: Scf.-Bbl. 10000

Treatment: Bbl. 22,000 Displ: Bbl. 4400

Gas Assist \_\_\_\_\_ Tons-Scf \_\_\_\_\_ Scf./Bbl. \_\_\_\_\_

Foam Quality \_\_\_\_\_ Total Volume Foam \_\_\_\_\_ Bbl.-Gal. \_\_\_\_\_

Total Volume: Bbl.-Gal. 36,400 Fluid-Foam \_\_\_\_\_

866 BBL TOTAL REMARKS  
SEE JOB LOG loaded for frac.

Halliburton Operator Kurt Dutoit



# Ricketts Testing, Inc.

# ORIGINAL

Company MULL DRILLING COMPANY, INC. Lease & Well No. MORRIS #2  
 Elevation 1613 K.B. Formation MISSISSIPPI Effective Pay \_\_\_\_\_ ft. Ticket No. 1821  
 Date 6-20-96 Sec. 14 Twp. 31S Range 9W County HARPER State KANSAS  
 Test Approved by ROGER MARTIN Ricketts Representative JIM RICKETTS  
 Formation Test No. 1 Interval Tested from 4311 ft. to 4386 ft. Total Depth 4386 ft.  
 Packer Depth 4311 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 4308 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) 4316 ft. Recorder Number 13307 Cap. 4650  
 Bottom Recorder Depth (Outside) 4383 ft. Recorder Number 13306 Cap. 4625  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_  
 Drilling Contractor Duke Drilling Rig #2 Drill Collar Length \_\_\_\_\_ I.D. \_\_\_\_\_ in.  
 Mud Type Chemical Viscosity 42 Weight Pipe Length \_\_\_\_\_ I.D. \_\_\_\_\_ in.  
 Weight 9.4 Water Loss 10.5 cc. Drill Pipe Length 4291 I.D. 3.25 in.  
 Chlorides 5,000 P.P.M. Test Tool Length \_\_\_\_\_ ft. Tool Size 5 1/2 in.  
 Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 75 ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Gravity Oil \_\_\_\_\_ Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Weak blow building to a medium blow, 9" in water Initial Flow Period, surging. Weak blow building to 7" in water, then to 4" Final Flow Period. Surging throughout test.

Recovered 55 ft. of Very slightly oil cut mud. 1% Oil  
 Recovered 560 ft. of Gas in pipe.  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer (s) 7:10 AM. Time Started Off Bottom 11:40 AM. Maximum Temperature 117°  
 Initial Hydrostatic Pressure.....(A) 2156 P.S.I.  
 Initial Flow Period..... Minutes 15 (B) 35 P.S.I. to (C) 35 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 256 P.S.I.  
 Final Flow Period..... Minutes 90 (E) 61 P.S.I. to (F) 69 P.S.I.  
 Final Closed In Period..... Minutes 120 (G) 270 P.S.I.  
 Final Hydrostatic Pressure.....(H) 2135 P.S.I.

# RICKETTS TESTING, INC.

## Pressure Data

Date 6-20-96 Test Ticket No. 1821  
 Recorder No. 13306 Capacity 4625 Location 4383 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1613 K.B. Well Temperature 117 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud _____	2156 P.S.I.	7:10 A.M.	
B First Initial Flow Pressure _____	35 P.S.I.	15 Mins.	15 Mins.
C First Final Flow Pressure _____	35 P.S.I.	45 Mins.	45 Mins.
D Initial Closed-in Pressure _____	256 P.S.I.	90 Mins.	90 Mins.
E Second Initial Flow Pressure _____	61 P.S.I.	120 Mins.	120 Mins.
F Second Final Flow Pressure _____	69 P.S.I.		
G Final Closed-in Pressure _____	270 P.S.I.		
H Final Hydrostatic Mud _____	2135 P.S.I.		

### PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>40</u> Inc.	
of <u>5</u> mins. and a final inc. of _____ Min.		of <u>3</u> mins. and a final inc. of _____ Min.		of <u>5</u> mins. and a final inc. of _____ Min.		of <u>3</u> mins. and a final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	35	0	35	0	61	0	69
P 2 5	35	3	47	5	61	3	71
P 3 10	35	6	61	10	64	6	73
P 4 15	35	9	79	15	66	9	75
P 5 20		12	89	20	67	12	79
P 6 25		15	110	25	68	15	87
P 7 30		18	123	30	69	18	95
P 8 35		21	140	35	69	21	104
P 9 40		24	154	40	69	24	111
P10 45		27	172	45	69	27	117
P11 50		30	184	50	69	30	123
P12 55		33	195	55	69	33	129
P13 60		36	211	60	69	36	136
P14 65		39	228	65	69	39	147
P15 70		42	244	70	69	42	155
P16 75		45	256	75	69	45	163
P17 80		48		80	69	48	170
P18 85		51		85	69	51	177
P19 90		54		90	69	54	181
P20 95		57				57	187
		60				60	193

# RICKETTS TESTING

## Pressure Data

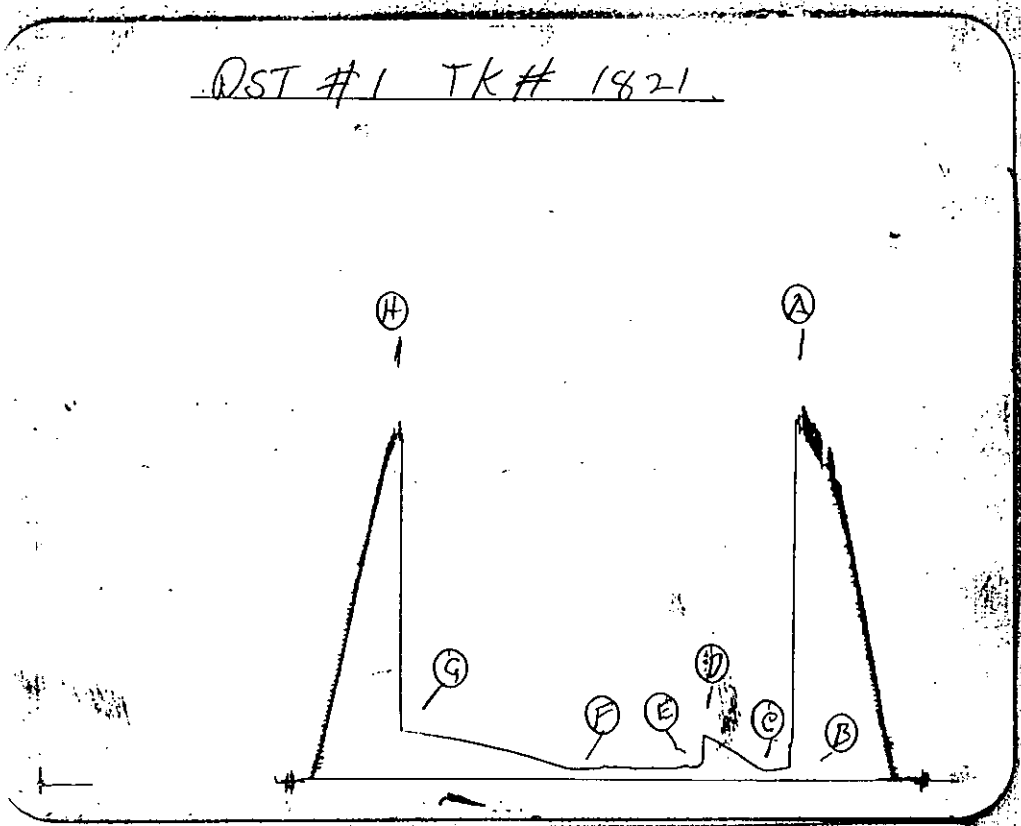
Date \_\_\_\_\_ Test Ticket No. 1821  
 Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A	Initial Hydrostatic Mud _____ P.S.I.	Open Tool _____ M		
B	First Initial Flow Pressure _____ P.S.I.	First Flow Pressure _____ Mins.		
C	First Final Flow Pressure _____ P.S.I.	Initial Closed-in Pressure _____ Mins.		
D	Initial Closed-in Pressure _____ P.S.I.	Second Flow Pressure _____ Mins.		
E	Second Initial Flow Pressure _____ P.S.I.	Final Closed-in Pressure _____ Mins.		
F	Second Final Flow Pressure _____ P.S.I.			
G	Final Closed-in Pressure _____ P.S.I.			
H	Final Hydrostatic Mud _____ P.S.I.			

### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.
	Press.	Point Minutes	Press.	Point Minutes
P 1	_____	_____	_____	63
P 2	_____	_____	_____	66
P 3	_____	_____	_____	69
P 4	_____	_____	_____	72
P 5	_____	_____	_____	75
P 6	_____	_____	_____	78
P 7	_____	_____	_____	81
P 8	_____	_____	_____	84
P 9	_____	_____	_____	87
P10	_____	_____	_____	90
P11	_____	_____	_____	93
P12	_____	_____	_____	96
P13	_____	_____	_____	99
P14	_____	_____	_____	102
P15	_____	_____	_____	105
P16	_____	_____	_____	108
P17	_____	_____	_____	111
P18	_____	_____	_____	114
P19	_____	_____	_____	117
P20	_____	_____	_____	120

DST #1 TK# 1821





# Ricketts Testing, Inc.

## ORIGINAL

Company MULL DRILLING COMPANY, INC. Lease & Well No. MORRIS #2  
 Elevation 1613 K.B. Formation MISSISSIPPI Effective Pay \_\_\_\_\_ ft. Ticket No. 1822  
 Date 6-21-96 Sec. 14 Twp. 31S Range 9W County HARPER State KANSAS  
 Test Approved by ROGER MARTIN Ricketts Representative JIM RICKETTS

Formation Test No. 2 Interval Tested from 4368 ft. to 4420 ft. Total Depth 4500 ft.  
 Packer Depth 4368 ft. Size 6 3/4 in. Packer Depth 4423 ft. Size 6 3/4 in.  
 Packer Depth 4420 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4373 ft. Recorder Number 13307 Cap. 4650  
 Bottom Recorder Depth (Outside) 4376 ft. Recorder Number 13306 Cap. 4625  
 Below Straddle Recorder Depth 4497 ft. Recorder Number 13310 Cap. 4750

Drilling Contractor Duke Drilling Rig #2 Drill Collar Length \_\_\_\_\_ I.D. \_\_\_\_\_ in.  
 Mud Type Chemical Viscosity 48 Weight Pipe Length \_\_\_\_\_ I.D. \_\_\_\_\_ in.  
 Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 4348 I.D. 3.25 in.  
 Chlorides 5000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.  
 Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 52'w/80'tailpipe ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Gravity Oil \_\_\_\_\_ Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Strong blow throughout test. Gas to surface on Final shut in.

Recovered 125 ft. of Oil cut mud. 6% Oil 10% Gas 84% Mud  
 Recovered 62 ft. of Water & oil cut mud. 5% Oil 20% Water 75% Mud  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Remarks: DST Fluid Chlorides 16,000 PPM

Time Set Packer (s) 6:00 A.M. Time Started Off Bottom 10:00 A.M. Maximum Temperature 122°  
 Initial Hydrostatic Pressure \_\_\_\_\_ (A) 2141 P.S.I.  
 Initial Flow Period \_\_\_\_\_ Minutes 15 (B) 69 P.S.I. to  
 (C) 69 P.S.I.  
 Initial Closed In Period \_\_\_\_\_ Minutes 42 (D) 540 P.S.I.  
 Final Flow Period \_\_\_\_\_ Minutes 90 (E) 95 P.S.I. to  
 (F) 104 P.S.I.  
 Final Closed In Period \_\_\_\_\_ Minutes 87 (G) 553 P.S.I.  
 Final Hydrostatic Pressure \_\_\_\_\_ (H) 2127 P.S.I.



# RICKETTS TESTING, INC.

## Pressure Data

Date 6-21-96 Test Ticket No. 1822  
 Recorder No. 13307 Capacity 4650 Location 4373 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1613 K.B. Well Temperature 122 °F  
 Point Pressure Time Given Time Computed  
 A Initial Hydrostatic Mud 2141 P.S.I. Open Tool 6:00 A M  
 B First Initial Flow Pressure 69 P.S.I. First Flow Pressure 15 Mins. 15 Mins.  
 C First Final Flow Pressure 69 P.S.I. Initial Closed-in Pressure 45 Mins. 42 Mins.  
 D Initial Closed-in Pressure 540 P.S.I. Second Flow Pressure 90 Mins. 90 Mins.  
 E Second Initial Flow Pressure 95 P.S.I. Final Closed-in Pressure 90 Mins. 87 Mins.  
 F Second Final Flow Pressure 104 P.S.I.  
 G Final Closed-in Pressure 553 P.S.I.  
 H Final Hydrostatic Mud 2127 P.S.I.

### PRESSURE BREAKDOWN

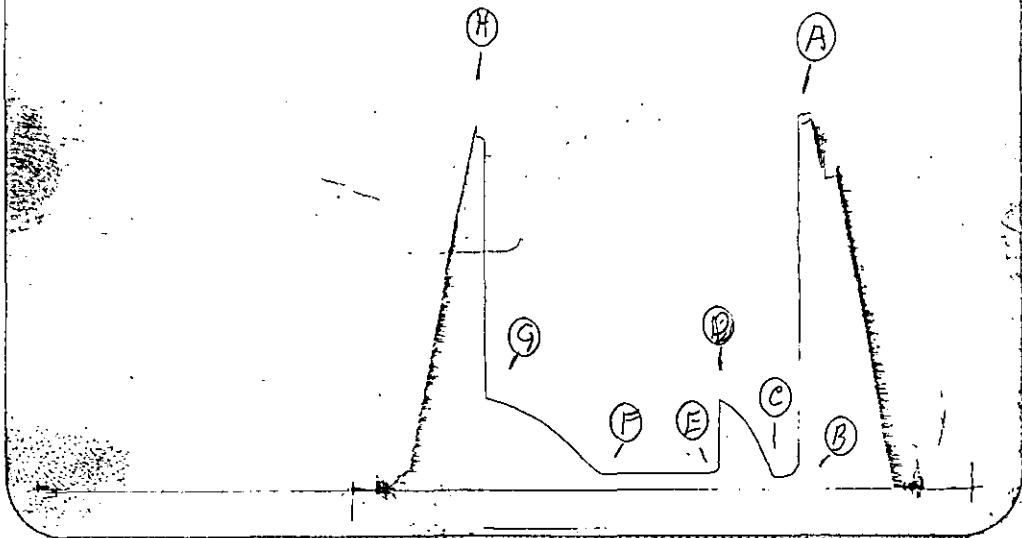
First Flow Pressure Breakdown: 3 Inc. Initial Shut-In Breakdown: 14 Inc. Second Flow Pressure Breakdown: 18 Inc. Final Shut-In Breakdown: 29 Inc.  
 of 5 mins. and a final inc. of \_\_\_\_\_ Min. of 3 mins. and a final inc. of \_\_\_\_\_ Min. of 5 mins. and a final inc. of \_\_\_\_\_ Min. of 3 mins. and a final inc. of \_\_\_\_\_ Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	0	69	0	69	0	104
P 2	5	3	97	5	95	3	109
P 3	10	6	159	10	95	6	122
P 4	15	9	215	15	97	9	146
P 5	20	12	273	20	99	12	169
P 6	25	15	320	25	102	15	193
P 7	30	18	355	30	103	18	220
P 8	35	21	394	35	104	21	245
P 9	40	24	424	40	104	24	273
P10	45	27	451	45	104	27	294
P11	50	30	475	50	104	30	315
P12	55	33	496	55	104	33	346
P13	60	36	515	60	104	36	357
P14	65	39	525	65	104	39	379
P15	70	42	540	70	104	42	394
P16	75	45		75	104	45	409
P17	80	48		80	104	48	424
P18	85	51		85	104	51	438
P19	90	54		90	104	54	452
P20	95	57				57	461
		60				60	475



DST# 2 TK# 1822

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Below STRADDLE TK# 1822

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