



WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

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

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

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

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

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

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

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

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1047340

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	MARS 1-4
Doc ID	1047340

Tops

Name	Top	Datum
Anhydrite	1496	+767
B/Anhydrite	1536	+727
Heebner Shale	3706	-1443
Lansing	3753	-1490
B/KC	4087	-1824
Marmaton	4108	-1845
Pawnee	4190	-1927
Ft. Scott	4264	-2001
Cherokee Shale	4290	-2027
Cherokee Sand	4350	-2087
Mississippi	4381	-2118



*Mark Parkinson, Governor  
Thomas E. Wright, Chairman  
Joseph F. Harkins, Commissioner  
Ward Loyd, Commissioner*

November 30, 2010

Mark Shreve  
Mull Drilling Company, Inc.  
1700 N WATERFRONT PKWY  
BLDG 1200  
WICHITA, KS 67206

Re: ACO1  
API 15-135-25115-00-00  
MARS 1-4  
NE/4 Sec.04-20S-23W  
Ness County, Kansas

Dear Production Department:

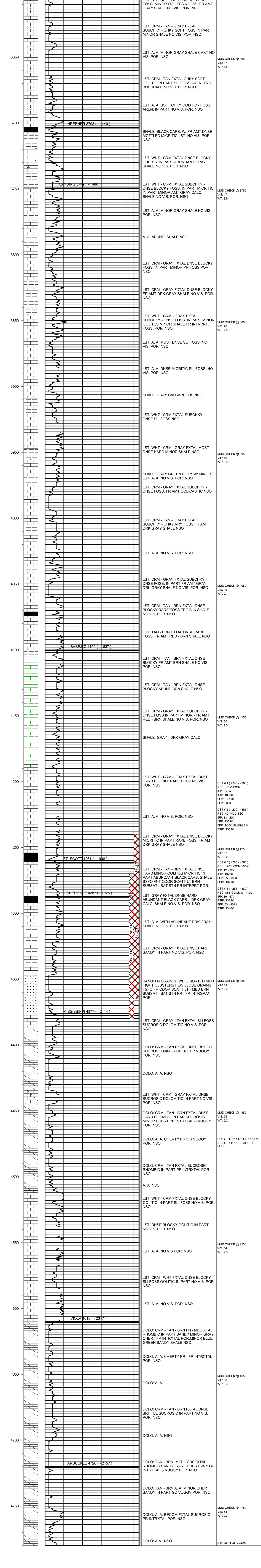
We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Mark Shreve

**KEVIN L. KESSLER**  
**CONSULTING PETROLEUM GEOLOGIST**  
 ( 316 ) 522-7338

<b>OPERATOR : MULL DRILLING CO. INC.</b> <b>LEASE : MARS WELL # : 1 - 4</b> <b>LOCATION : 1783' FNL &amp; 335' FEL</b> <b>SEC: 04 TWP : 20 S RGE : 23 W</b> <b>COUNTY : NESS STATE : KANSAS</b>		<b>ELEVATION</b> <b>KB : 2263</b> <b>GL : 2254</b> <b>MEASUREMENTS FROM KB</b>																																																								
<b>CONTRACTOR : DUKE DRILLING RIG # 4</b> <b>COMM: 08 / 04 / 2010</b> <b>COMP : 08 / 15 / 2010</b> <b>RTD : 4780</b> <b>LOG TD : 4495</b> <b>SAMPLES SAVED FROM : 3600</b> <b>TO: RTD</b> <b>GEOLOGICAL SUPERVISION FROM : 3600</b> <b>TO: RTD</b> <b>MUD UP : 3600</b> <b>TYPE MUD : CHEMICAL</b>		<b>CASING RECORD</b> <b>SURFACE : 8 5/8 @ 221'</b> <b>PRODUCTION :</b> <b>5 1/2 @ 4780'</b>																																																								
<table border="1"> <thead> <tr> <th>FORMATION</th> <th>TOP</th> <th>LOG</th> <th>DATUM</th> <th>TOP</th> <th>SAMPLE</th> <th>DATUM</th> <th>STRUCT. COMP.</th> </tr> </thead> <tbody> <tr> <td>HEEBNER</td> <td>3706</td> <td></td> <td>- 1443</td> <td>3703</td> <td></td> <td>- 1440</td> <td>+ 04</td> </tr> <tr> <td>LANSING</td> <td>3752</td> <td></td> <td>- 1489</td> <td>3749</td> <td></td> <td>- 1486</td> <td>+ 05</td> </tr> <tr> <td>FT. SCOTT</td> <td>4264</td> <td></td> <td>- 2001</td> <td>4261</td> <td></td> <td>- 1998</td> <td>FLAT</td> </tr> <tr> <td>CHEROKEE</td> <td>4290</td> <td></td> <td>- 2028</td> <td>4287</td> <td></td> <td>- 2025</td> <td>- 06</td> </tr> <tr> <td>MISSISSIPPI</td> <td>4380</td> <td></td> <td>- 2117</td> <td>4377</td> <td></td> <td>- 2114</td> <td>- 03</td> </tr> <tr> <td>ARBUCKLE</td> <td>NOT LOGGED</td> <td></td> <td></td> <td>4720</td> <td></td> <td>- 2457</td> <td>N. A.</td> </tr> </tbody> </table>		FORMATION	TOP	LOG	DATUM	TOP	SAMPLE	DATUM	STRUCT. COMP.	HEEBNER	3706		- 1443	3703		- 1440	+ 04	LANSING	3752		- 1489	3749		- 1486	+ 05	FT. SCOTT	4264		- 2001	4261		- 1998	FLAT	CHEROKEE	4290		- 2028	4287		- 2025	- 06	MISSISSIPPI	4380		- 2117	4377		- 2114	- 03	ARBUCKLE	NOT LOGGED			4720		- 2457	N. A.	<b>ELECTRICAL SURVEYS :</b> <b>DIL</b> <b>CNL / CDL</b> <b>MICRO</b> <b>SONIC</b>
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<b>REFERENCE WELL FOR STRUCTURAL COMPARISON :</b> <b>MULL # 1 - 4 MINOR - STUM SEC. 04 - T 20 S - R 23 W NESS COUNTY KANSAS</b>																																																										



**COMMENTS:**

**DUE TO MARGINAL DST RESULTS THIS WELL WAS DRILLED DOWN TO THE ARBUCKLE TO BE USED AS A SWDW**

**KEVIN L. KESSLER**

# DIAMOND TESTING

## Drill Test Report

### General Information

Company Name MULL DRLG.

Contact ERNIE MORRISON  
Well Name MARS #1-4  
Unique Well ID DST#1 FT. SCOTT 4240-4290  
Surface Location SEC 4-20s-23w NESS Co. Ks.  
Field WILDCAT  
Well Type Vertical

Job Number M011  
Representative MIKE COCHRAN  
Well Operator MULL DRLG.  
Report Date 2010/08/10  
Prepared By MIKE COCHRAN

### Test Information

Test Type CONVENTIONAL  
Formation DST#1 FT. SCOTT 4240-4290  
Well Fluid Type 01 Oil  
Test Purpose (AEUB) Initial Test

Start Test Time  
Final Test Time

Start Test Date 2010/08/10  
Final Test Date 2010/08/10

Gauge Name 30037  
Test Type Name

### Test Results

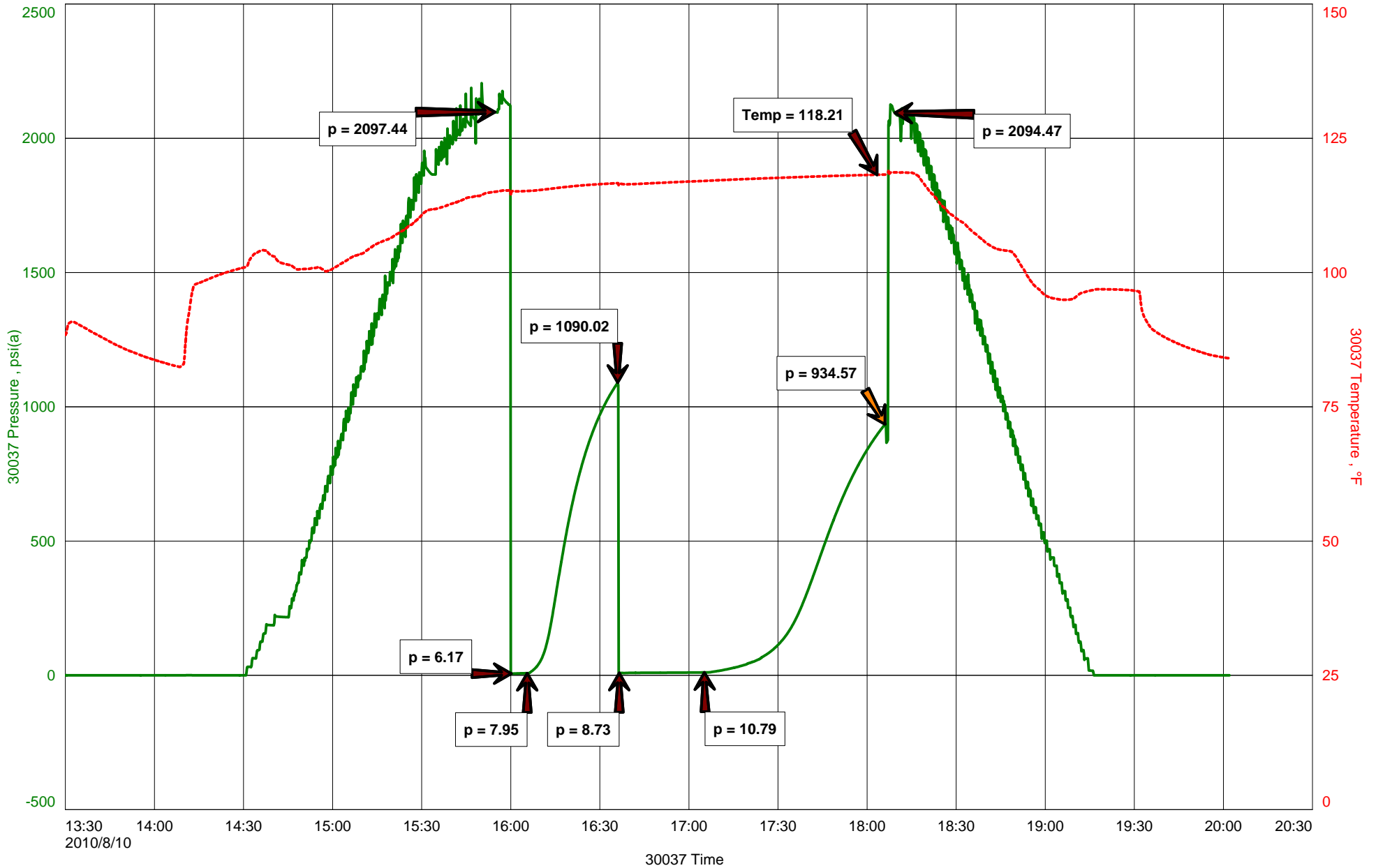
RECOVERY: 10' VSOSM  
10' TOTAL FLUID

TOOL SAMPLE: 1%OIL, 99% MUD

MULL DRLG.  
DST#1 FT. SCOTT 4240-4290  
Start Test Date: 2010/08/10  
Final Test Date: 2010/08/10

MARS #1-4  
Formation: DST#1 FT. SCOTT 4240-4290  
Pool: WILDCAT  
Job Number: M011

# MARS #1-4





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: MARS1-4DST1

TIME ON: 13:30:00  
TIME OFF: 20:03

Company MULL DRLG Lease & Well No. MARS #1-4  
Contractor DUKE DRLG. RIG #4 Charge to MULL DRLG.  
Elevation 2263 Formation FT. SCOTT Effective Pay \_\_\_\_\_ Ft. Ticket No. M011  
Date 08-10-2010 Sec. 4 Twp. 20 S Range 23 W County NESS State KANSAS  
Test Approved By KEVIN KESSLER Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 4240 ft. to 4290 ft. Total Depth 4290 ft.  
Packer Depth 4235 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.  
Packer Depth 4240 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4229 ft. Recorder Number 30037 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4287 ft. Recorder Number 13386 Cap. 3,875 P.S.I.  
Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.

Mud Type CHEMICAL Viscosity 58 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
Weight 9.5 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 4,300 P.P.M. Drill Pipe Length 4215 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number - Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 50 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' DRILL PIPE Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: VERY WEAK SURFACE BLOW (NO BB)  
2nd Open: NO BLOW (NO BB)

Recovered <u>10</u> ft. of <u>VSOSM</u>	
Recovered <u>10</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
<b>TOOL SAMPLE: 1% OIL, 99% MUD</b>	Total

Time Set Packer(s) 4:00 P.M. <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 6:06 P.M. <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 118

Initial Hydrostatic Pressure..... (A) 2097 P.S.I.  
Initial Flow Period..... Minutes 5 (B) 6 P.S.I. to (C) 8 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 1090 P.S.I.  
Final Flow Period..... Minutes 30 (E) 9 P.S.I. to (F) 11 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 935 P.S.I.  
Final Hydrostatic Pressure..... (H) 2094 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

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

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

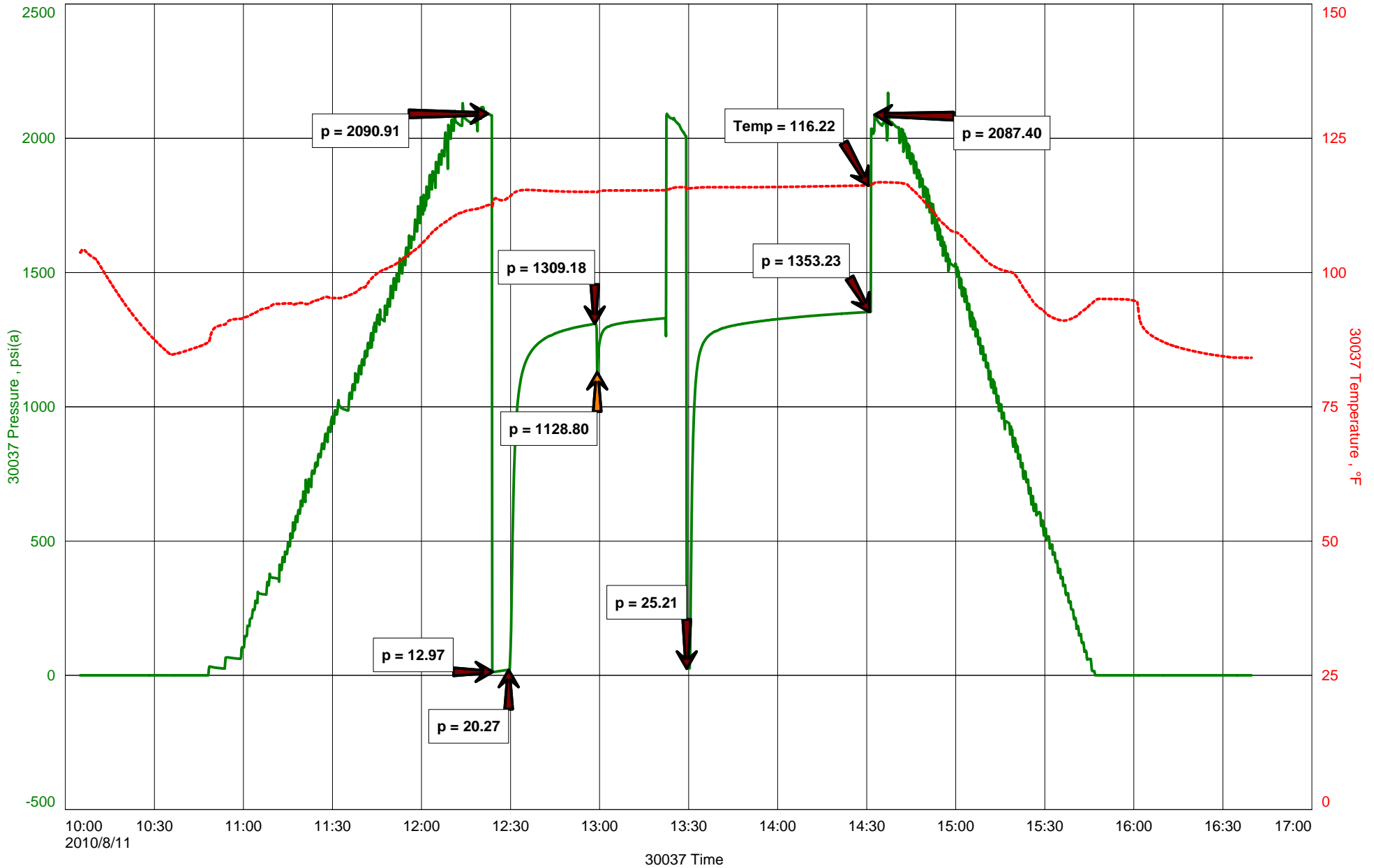
Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

MULL DRLG.  
DST#2 CHEROKEE SAND 4270-4355  
Start Test Date: 2010/08/11  
Final Test Date: 2010/08/11

MARS #1-4  
Formation: DST#2 CHEROKEE SAND 4270-4355  
Pool: WILDCAT  
Job Number: M012

# MARS #1-4



# DIAMOND TESTING

## Drill Test Report

### General Information

Company Name MULL DRLG.

Contact ERNIE MORRISON  
Well Name MARS #1-4  
Unique Well ID DST#2 CHEROKEE SAND 4270-4355  
Surface Location SEC 4-20s-23w NESS Co. Ks.  
Field WILDCAT  
Well Type Vertical

Job Number M012  
Representative MIKE COCHRAN  
Well Operator MULL DRLG.  
Report Date 2010/08/11  
Prepared By MIKE COCHRAN

### Test Information

Test Type CONVENTIONAL  
Formation DST#2 CHEROKEE SAND 4270-4355  
Well Fluid Type 01 Oil  
Test Purpose (AEUB) Initial Test

Start Test Time 10:05:00  
Final Test Time 16:41:00

Start Test Date 2010/08/11  
Final Test Date 2010/08/11

Gauge Name 30037  
Test Type Name

### Test Results

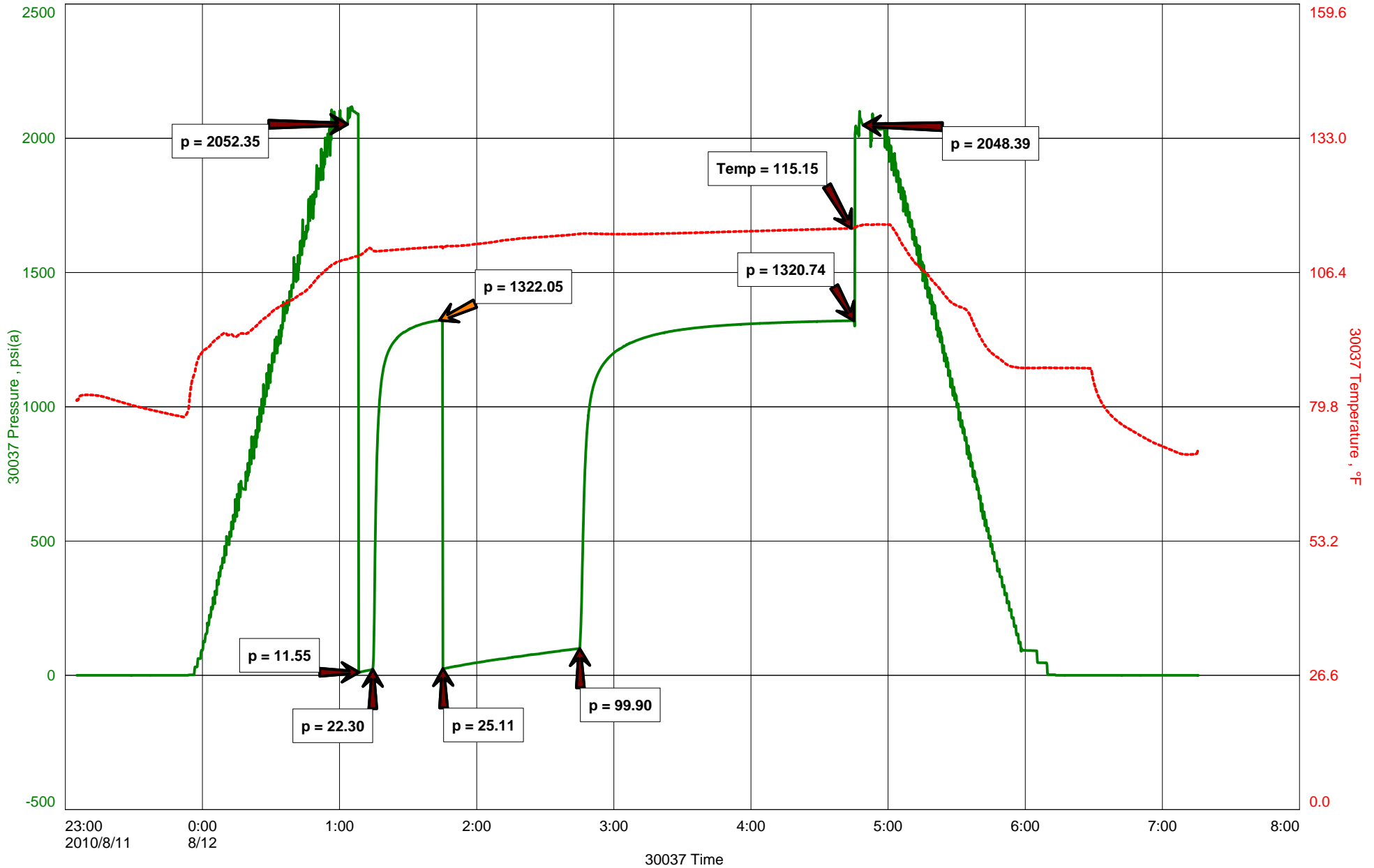
RECOVERED: 10' OSM 3% OIL 97% MUD  
30' OSM 2% OIL 98% MUD  
40' TOTAL FLUID

TOOL SAMPLE: 5% OIL, 95% MUD

MULL DRLG.  
DST#3 CHEROKEE SAND 4265-4365  
Start Test Date: 2010/08/11  
Final Test Date: 2010/08/12

MARS #1-4  
Formation: DST#3 CHEROKEE SAND 4265-4365  
Pool: WILDCAT  
Job Number: M013

# MARS #1-4





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

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

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
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Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# DIAMOND TESTING

## Drill Test Report

### General Information

Company Name MULL DRLG.

Contact ERNIE MORRISON  
Well Name MARS #1-4  
Unique Well ID DST#3 CHEROKEE SAND 4265-4365  
Surface Location SEC 4-20s-23w NESS Co. Ks.  
Field WILDCAT  
Well Type Vertical

Job Number M013  
Representative MIKE COCHRAN  
Well Operator MULL DRLG.  
Report Date 2010/08/12  
Prepared By MIKE COCHRAN

### Test Information

Test Type CONVENTIONAL  
Formation DST#3 CHEROKEE SAND 4265-4365  
Well Fluid Type 01 Oil  
Test Purpose (AEUB) Initial Test

Start Test Time 23:05:00  
Final Test Time 07:16:00

Start Test Date 2010/08/11  
Final Test Date 2010/08/12

Gauge Name 30037  
Test Type Name

### Test Results

RECOVERED: 10' GCO, 7% GAS, 93% OIL GRAVITY 31.6 @ 60 DEG.  
62' GOCM, 2% GAS, 14% OIL, 84% MUD  
62' GOCM, 2% GAS, 10% OIL, 88% MUD  
62' GOCM, 10% GAS, 24% OIL, 66% MUD  
196' TOTAL FLUID

TOOL SAMPLE: 2% GAS, 18% OIL, 80% MUD

# DIAMOND TESTING

## Drill Test Report

### General Information

Company Name MULL DRLG.

Contact ERNIE MORRISON  
Well Name MARS #1-4  
Unique Well ID DST#4 CHEROKEE SAND 4285-4380  
Surface Location SEC 4-20s-23w NESS Co. Ks.  
Field WILDCAT  
Well Type Vertical

Job Number M014  
Representative MIKE COCHRAN  
Well Operator MULL DRLG.  
Report Date 2010/08/13  
Prepared By MIKE COCHRAN

### Test Information

Test Type CONVENTIONAL  
Formation DST#4 CHEROKEE SAND 4285-4380  
Well Fluid Type 01 Oil  
Test Purpose (AEUB) Initial Test

Start Test Time 13:37:00  
Final Test Time 00:49:00

Start Test Date 2010/08/12  
Final Test Date 2010/08/13

Gauge Name 30037  
Test Type Name

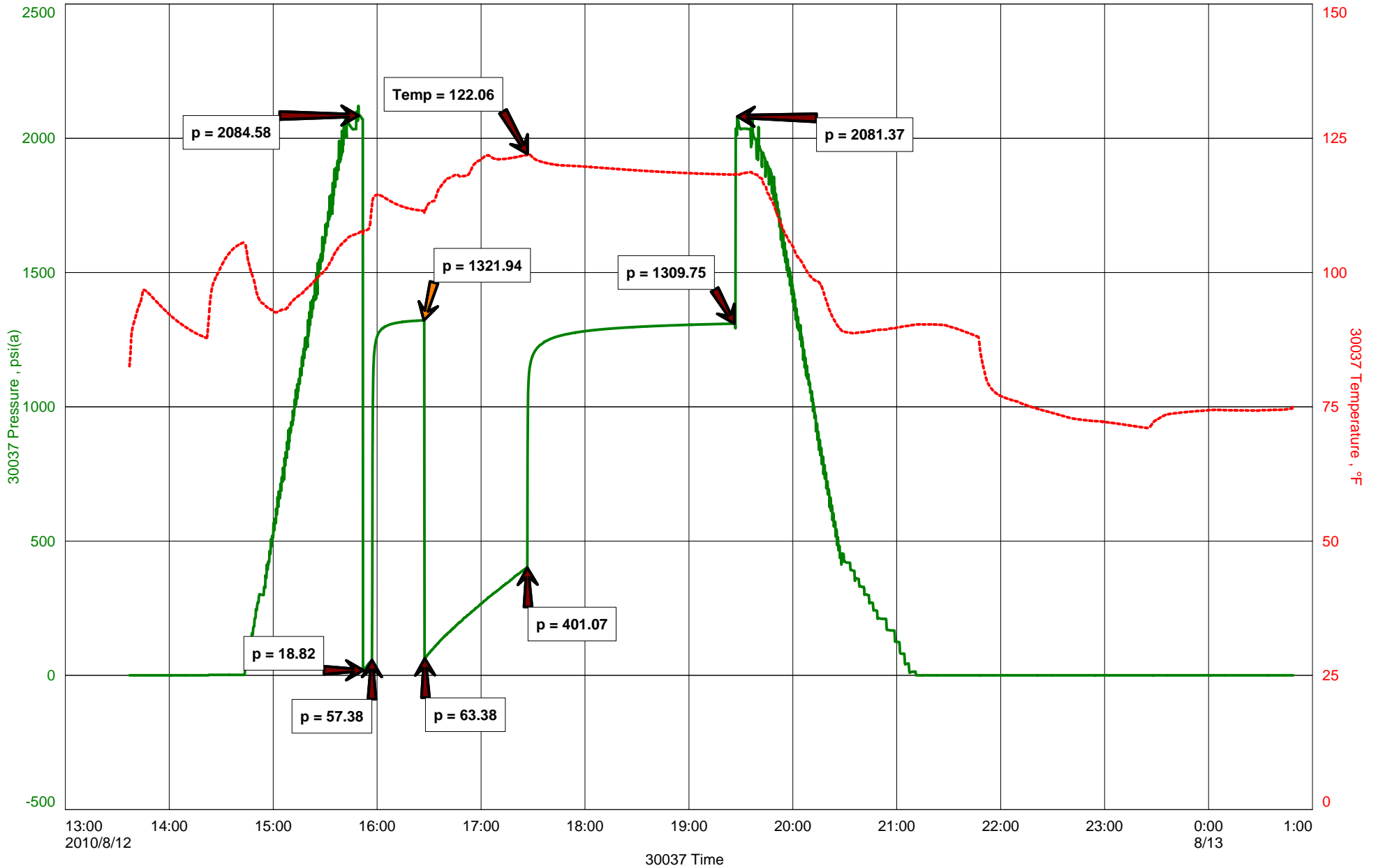
### Test Results

RECOVERY: SEE FIELD TICKET

MULL DRLG.  
DST#4 CHEROKEE SAND 4285-4380  
Start Test Date: 2010/08/12  
Final Test Date: 2010/08/13

MARS #1-4  
Formation: DST#4 CHEROKEE SAND 4285-4380  
Pool: WILDCAT  
Job Number: M014

# MARS #1-4







**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

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

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

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# ALLIED CEMENTING CO., LLC. 038923

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Dodge, KS

DATE <u>8/4/10</u>	SEC. <u>4</u>	TWP. <u>20</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00 pm</u>	JOB FINISH <u>8:30 pm</u>
LEASE <u>Moss</u>	WELL # <u>1-4</u>	LOCATION <u>Moss City 7 S 2 E 12 S</u>		COUNTY <u>Moss</u>	STATE <u>KS</u>		
OLD OR NEW (circle one) <u>NEW</u>							

CONTRACTOR Duke #4 OWNER Samuel

TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 221 2/4'  
 CASING SIZE 8 5/8 DEPTH 201 2/4'  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 DEPTH 201 2/4'  
 TOOL DEPTH

PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15'  
 PERFS.  
 DISPLACEMENT 1318 Blt H<sub>2</sub>O

EQUIPMENT  
 PUMP TRUCK CEMENTER Alan  
 # 402 HELPER Wayne  
 BULK TRUCK DRIVER Jason  
 BULK TRUCK DRIVER

HANDLING 174 SK1 @ 2.10 365.40  
 MILEAGE 10.45 mile - Maintenance 312.75  
 TOTAL 333.75

REMARKS:  
Run 8 5/8 casing Circulating Mix SK1  
 Casing 10000 200 gel, Displace Plug w/ 13.18 Blt H<sub>2</sub>O  
 H<sub>2</sub>O

DEPTH OF JOB  
 PUMP TRUCK CHARGE 999.00  
 EXTRA FOOTAGE @  
 MILEAGE 10 @ 7.00  
 MANIFOLD @  
 TOTAL 1069.00

CHARGE TO: Mull Drilling Co

STREET CITY STATE ZIP

PLUG & FLOAT EQUIPMENT  
8 5/8 Wooded Plug @ 67.00  
 @  
 @  
 @  
 @  
 TOTAL 67.00

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer-and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rich Wheeler  
 SIGNATURE Rich Wheeler

SALES TAX (if Any)  
 TOTAL CHARGES  
 DISCOUNT IF PAID IN 30 DAYS

Attn: Bill



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2500



**Invoice**

DATE	INVOICE #
8/18/2010	18926

BILL TO  
Mull Drilling Co. Inc.  
PO Box 393  
Cheyenne Wells, CO 80810

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator.
Net 30	#1-4	Mars	Ness	Wild West Well S...	Oil	Development	Cement Port Collar	Jason.
PRICE REF.	DESCRIPTION			QTY	UM	UNIT PRICE	AMOUNT	
575D	Mileage - 1 Way			15	Miles	5.00	75.00	
576D-D	Pump Charge - Port Collar - 1499 Feet.			1	Job	1,100.00	1,100.00	
105	Port Collar Tool Rental With Man			1	Each	300.00	300.00T	
290	D-Air			1	Gallon(s)	35.00	35.00T	
276	Floccle			44	Lb(s)	1.50	66.00T	
330	Swift Multi-Density Standard (MIDCON II)			175	Sacks	15.00	2,625.00T	
581D	Service Charge Cement			175	Sacks	1.50	262.50	
582D	Minimum Drayage Charge			1	Each	250.00	250.00	
	Subtotal						4,713.50	
	Sales Tax Ness County					6.30%	190.64	
<p>RECEIVED 24 2010 Accounting Wichita, KS</p> <p>203 AFE SEP 23 2010 W &amp; R</p>								

**We Appreciate Your Business!**

Total

\$4,904.14



CHARGE TO: **MULH Drilling**

ADDRESS

CITY, STATE, ZIP CODE

TICKET  
18875

PAGE 1 OF 1

SERVICE LOCATIONS

1. **NESS city KS**

WELL/PROJECT NO. **1-4** LEASE **MARS** COUNTY/PARISH **NESS** STATE **KS** CITY **NESS city** DATE **10 SEP 10** OWNER

2. TICKET TYPE  SERVICE  SALES CONTRACTOR **Wind Water** RIG NAME/NO. SHIPPED  VACT DELIVERED TO **LOCATION** ORDER NO.

3. WELL TYPE **oil** WELL CATEGORY **Development** JOB PURPOSE **Cement pads** WELL PERMIT NO. WELL LOCATION **8-5 25 south side**

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			UM			
575		1			MILEAGE TRK 114	10	mi		5.00	50.00
578		1			Pump Charge	1	ea		1400.00	1400.00
325		1			STANDARD cement			50	lbs	600.00
292		1			HALAD-322			25	lbs	175.00
290		1			DAIR			1/2	gal	35.00
581		1			Service charge	50	hrs		1.50	75.00
582		1			Drayage (min)	1	ea		250.00	250.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

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

X *[Signature]*  
DATE SIGNED TIME SIGNED **1155**  A.M.  P.M.

REMIT PAYMENT TO:  
**SWIFT SERVICES, INC.**  
P.O. BOX 466  
NESS CITY, KS 67560  
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				2567	50
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	2617.43

NESS TAX 6.3% 49.93

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

SWIFT OPERATOR *ABC* APPROVAL

Thank You!



**FIELD TICKET & TREATMENT REPORT  
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-14-10	5659	Mars 1-4	4	203	230	Neos
CUSTOMER	Mailing Address		TRUCK #	DRIVER	TRUCK #	DRIVER
Well Digs Co.	1700 N. West Street Parkersburg, IA 50201		520	John Soper (Squack)		
CITY	STATE	ZIP CODE	466-1127	Alison (Purka)		
W. White	Ken	67206				

JOB TYPE Prod HOLE SIZE 7 7/8 HOLE DEPTH 4780' CASING SIZE & WEIGHT 5 7/8 11.6#

CASING DEPTH 4730' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_

SLURRY WEIGHT \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING \_\_\_\_\_

DISPLACEMENT 1116 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 6 BBL

REMARKS - Safety meeting, big up to Plog + Cure, big up to track and mixed lead 120 sks paper, 80 gal 10# Fluorid

Tail: 150 sks paper, 10% salt, 2% Col, 25% CFI-110

Clear Pump + lines, release Plog and Displace 1076 BBL Water @ 900# Max

Handled Plus @ 1300' released measure, had slight leak, shut in

Thank You  
Walt Diakel

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 C		PUMP CHARGE		
5406	10	MILEAGE 10 mile from nearest camp	27.30 <sup>00</sup>	273.00
1131	150	694 per	4.50	675.00
1124	150	3/30 per	13.00	1950.00
1111	861 #	Salt	11.20	9644.40
1118 B	256 #	Coal	1.20	307.20
1107	58 #	Fire Seal	2.50	145.00
1135	32 #	CFI-110	9.00	288.00
1144 G	500 gal	Fluorid	1.00	500.00
5407	12.83	Ten miles Delivery	1.50	19.25
4203	1	6 cube shoe (5%)	184.00	184.00
4228 B		AEI insert "	145.00	145.00
4136		14" Timber Centralizer	69.00	966.00
4104		3" Baskets	263.00	789.00
4310		Perf Collar	1750.00	1750.00
5611		Rotating Head	125.00	125.00
4406		1-5/8 Rubber Plug	75.00	75.00
		Less 20% Subtotal = 12,182.00	2,436.52	9,746.08
		SALES TAX		560.26
		ESTIMATED TOTAL		10,306.34
		DATE		3/19/10

AUTHORIZATION [Signature] TITLE Prod Sgt

735941

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form