

CONFIDENTIAL

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

6/18/12

KCC

OPERATOR: License # 5144

Name: Mull Drilling Company, Inc. JUN 18 2010

Address 1: 1700 N. Waterfront Parkway, Bldg. #1200

Address 2:

City: Wichita State: KS Zip: 67206 + 6637

Contact Person: Mark Shreve

Phone: (316) 264-6366

CONTRACTOR: License # 5929 RECEIVED KANSAS CORPORATION COMMISSION

Name: Duke Drilling Co., Inc. JUN 21 2010

Wellsite Geologist: Kevin Kessler

Purchaser: N/A CONSERVATION DIVISION WICHITA, KS

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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 #:

3/5/10 3/13/10 3/13/10

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 063-21830-00-00

Spot Description:

SW NW NE NE Sec. 25 Twp. 15 S. R. 27 East West

609 Feet from North / South Line of Section

1,131 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Gove

Lease Name: Steffens Well #: 1-25

Field Name: Whitney

Producing Formation: N/A

Elevation: Ground: 2497' Kelly Bushing: 2506'

Total Depth: 4450' Plug Back Total Depth: N/A

Amount of Surface Pipe Set and Cemented at: 220 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 PAUS 6-24-10

(Data must be collected from the Reserve Pit)

Chloride content: 1,000 ppm Fluid volume: 16,200 bbls

Dewatering method used: Evaporation

Location of fluid disposal if hauled offsite:

Operator Name:

Lease Name: License #:

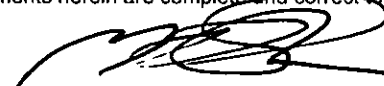
Quarter Sec. Twp. S. R. East West

County: Permit #:

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 of 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.

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.

Signature: 

Title: President/COO Date: 6/18/2010

KCC Office Use ONLY

- Letter of Confidentiality Received Date: 6-18-10
- Confidential Release Date:
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: NS Date: 6-24-10

PA

Operator Name: Mull Drilling Company, Inc.

Lease Name: Steffens

JUN 18 2010

Well #: 1-25

Sec. 25 Twp. 15 S. R. 27 East West

County: Gove

CONFIDENTIAL

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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<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	Anhydrite	1953	(+ 553)
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	B/Anhydrite	1990	(+ 516)
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner Shale	3748	(-1242)
List All E. Logs Run:		B/Kansas City	4089	(-1583)
Superior: CDL/CNL; DIL; Sonic & Micro		Fort Scott	4284	(-1778)
		Cherokee Shale	4312	(-1806)
		Mississippian	4372	(-1866)

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#	220'	Common	160	3% gel, 2% cc

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 <i>(Amount and Kind of Material Used)</i>	Depth

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 JUN 21 2010
 CONSERVATION DIVISION
 WICHITA, KS

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio Gravity

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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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ALLIED CEMENTING CO., LLC. 039135

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

CC
JUN 18 2010
CONFIDENTIAL

SERVICE POINT: Oakley, KS

DATE <u>3/5/10</u>	SEC <u>25</u>	TWP. <u>15</u>	RANGE <u>27</u>	CALLED OUT	ON LOCATION <u>3:00pm</u>	JOB START <u>7:30pm</u>	JOB FINISH <u>5:00pm</u>
LEASE <u>Steffens</u> WELL # <u>1-25</u>		LOCATION <u>Pen-Dennis 5 1/4 E 3 1/2 N</u>		COUNTY <u>Cove</u>		STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>W 5 W into</u>			

CONTRACTOR Duke Y

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 222'

CASING SIZE 8 1/8 DEPTH 222

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 13 1/8

OWNER Same

CEMENT

AMOUNT ORDERED 160 SKs Com 3" OCL

2" Ogel

COMMON	<u>160</u>	@	<u>13 65</u>	<u>2184 00</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>20 40</u>	<u>61 20</u>
CHLORIDE	<u>6</u>	@	<u>51 12</u>	<u>309 00</u>
ASC		@		

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JUN 21 2010
CONSERVATION DIVISION
WICHITA, KS

HANDLING	<u>169 SKs</u>	@	<u>2 10</u>	<u>354 00</u>
MILEAGE	<u>104 SK/mi</u>			<u>507 00</u>
				TOTAL <u>3416 10</u>

EQUIPMENT

PUMP TRUCK CEMENTER Alan

422 HELPER Wayne

BULK TRUCK

347 DRIVER Darrin

BULK TRUCK

DRIVER

REMARKS:

Cement did accumulate.

Thank You
Alan Wayne Darrin

CHARGE TO: Mull Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>222'</u>		
PUMP TRUCK CHARGE			<u>999 00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>30 miles</u>	@	<u>7 00</u>
MANIFOLD		@	
		@	
		@	
TOTAL <u>1209 00</u>			

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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

ALLIED CEMENTING CO., LLC. 33857

KCC

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

JUN 18 2010

SERVICE POINT Russell

CONFIDENTIAL

DATE <u>3-13-10</u>	SEC. <u>23</u>	TWP. <u>15</u>	RANGE <u>27</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00am</u>	JOB FINISH <u>8:30am</u>
LEASE <u>Stephens</u>	WELL # <u>1-23</u>	LOCATION <u>Utica W to Quintell Rd</u>			COUNTY <u>Cone</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>4N SW INTO</u>			

CONTRACTOR Duke
 TYPE OF JOB Rotary Plug
 HOLE SIZE 7 7/8 T.D. 4450
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 V-H DEPTH 1960'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER _____
 CEMENT AMOUNT ORDERED 205 60/40 4% L.e.l
1/4 #10

COMMON	<u>123</u>	@	<u>13.65</u>	<u>1678.95</u>
POZMIX	<u>82</u>	@	<u>7.60</u>	<u>623.20</u>
GEL	<u>7</u>	@	<u>20.40</u>	<u>142.80</u>
CHLORIDE		@		
ASC		@		
<u>Fl. Seal 51</u>		@	<u>2.45</u>	<u>124.95</u>
RECEIVED KANSAS CORPORATION COMMISSION JUN 21 2010 CONSERVATION DIVISION WICHITA, KS				
HANDLING	<u>205</u>	@	<u>2.25</u>	<u>461.25</u>
MILEAGE	<u>110/SK/mile</u>			<u>615.00</u>
				TOTAL <u>3646.15</u>

EQUIPMENT

PUMP TRUCK CEMENTER Craig
 # 417 HELPER Craig
 BULK TRUCK DRIVER John
 # 378
 BULK TRUCK DRIVER _____
 # _____

REMARKS:

1st Plug @ 1960 25SK
2nd Plug @ 900 100SK
3rd Plug @ 270 40SK
4th hole 40' 10 SK
30 SK

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 990.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 30 @ 7.00 210.00
 MANIFOLD _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL 1200.00

PLUG & FLOAT EQUIPMENT

8 5/8 Western Plug @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES ~~3646.15~~

DISCOUNT _____ IF PAID IN 30 DAYS

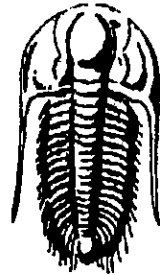
CHARGE TO: Mall Drilling Transi
 STREET _____
 CITY _____ STATE _____ ZIP _____

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

No Copy



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co., Inc.**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

25 15S 27W Gove KS

Steffens #1-25

Start Date: 2010.03.10 @ 00:39:05

End Date: 2010.03.10 @ 08:45:29

Job Ticket #: 37803 DST #: 1

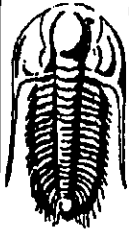
**KCC
JUN 18 2010
CONFIDENTIAL**

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

**RECEIVED
KANSAS CORPORATION COMMISSION**

JUN 21 2010

**CONSERVATION DIVISION
WICHITA, KS**



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Co., Inc.
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

Steffens #1-25
25 15S 27W Gove KS
Job Ticket: 37803 **DST#: 1**
Test Start: 2010.03.10 @ 00:39:05

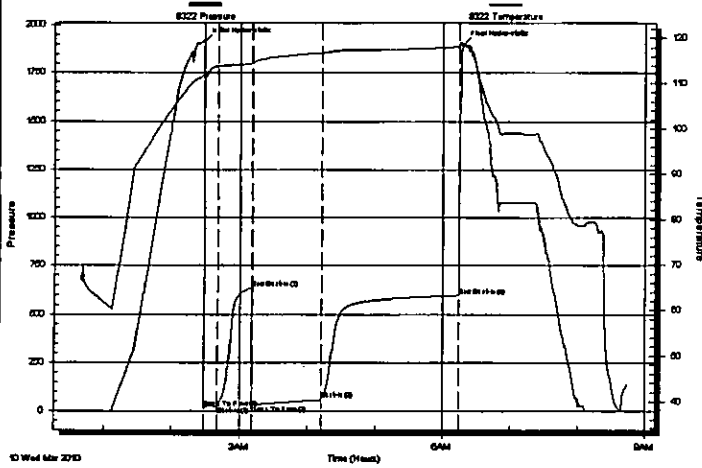
GENERAL INFORMATION:

Formation: **Lans, H, I, J**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 02:28:15
Time Test Ended: 08:45:29
Interval: **3940.00 ft (KB) To 4030.00 ft (KB) (TVD)**
Total Depth: **4030.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Brandon Domsch**
Unit No: **48**
Reference Elevations: **2506.00 ft (KB)**
2497.00 ft (CF)
KB to GR/CF: **9.00 ft**

Serial #: 8322 **Inside**
Press@RunDepth: **59.29 psig @ 3941.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.03.10** End Date: **2010.03.10** Last Calib.: **2010.03.10**
Start Time: **00:39:05** End Time: **08:45:29** Time On Btm: **2010.03.10 @ 02:28:00**
Time Off Btm: **2010.03.10 @ 06:17:29**

TEST COMMENT: IF: Built to 5 1/2 inches.
IS: No return.
FF: BOB in 22 mins.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

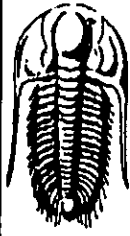
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1916.00	111.60	Initial Hydro-static
1	18.62	111.15	Open To Flow (1)
12	28.42	113.83	Shut-In(1)
42	633.92	114.35	End Shut-In(1)
43	29.97	114.51	Open To Flow (2)
104	59.29	116.83	Shut-In(2)
227	595.71	118.11	End Shut-In(2)
230	1899.04	118.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	O&GCM 10%g 30%o 60%m	0.84
40.00	SOCM 10%o 90%m	0.56
0.00	GIP = 320 FT	0.00
0.00	API = NA	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co., Inc.

Steffens #1-25

1700 N Waterfront Pkwy
Wichita, KS 67206

25 15S 27W Gove KS

Job Ticket: 37803

DST#: 1

ATTN: Kevin Kessler

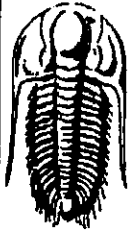
Test Start: 2010.03.10 @ 00:39:05

Tool Information

Drill Pipe:	Length: 3932.00 ft	Diameter: 3.80 inches	Volume: 55.16 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 55.16 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3940.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3913.00	
Shut In Tool	5.00			3918.00	
Hydraulic tool	5.00			3923.00	
Jars	5.00			3928.00	
Safety Joint	3.00			3931.00	
Packer	5.00			3936.00	28.00 Bottom Of Top Packer
Packer	4.00			3940.00	
Stubb	1.00			3941.00	
Recorder	0.00	8322	inside	3941.00	
Recorder	0.00	8166	inside	3941.00	
Perforations	21.00			3962.00	
Change Over Sub	1.00			3963.00	
Drill Pipe	61.00			4024.00	
Change Over Sub	1.00			4025.00	
Bullnose	5.00			4030.00	90.00 Bottom Packers & Anchor
Total Tool Length:	118.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co., Inc.

Steffens #1-25

1700 N Waterfront Pkwy
Wichita, KS 67206

25 15S 27W Gove KS

Job Ticket: 37803

DST#: 1

ATTN: Kevin Kessler

Test Start: 2010.03.10 @ 00:39:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	O&GCM 10%g 30%o 60%m	0.842
40.00	SOCM 10%o 90%m	0.561
0.00	GIP = 320 FT	0.000
0.00	API = N/A	0.000

Total Length: 100.00 ft Total Volume: 1.403 bbf

Num Fluid Samples: 0

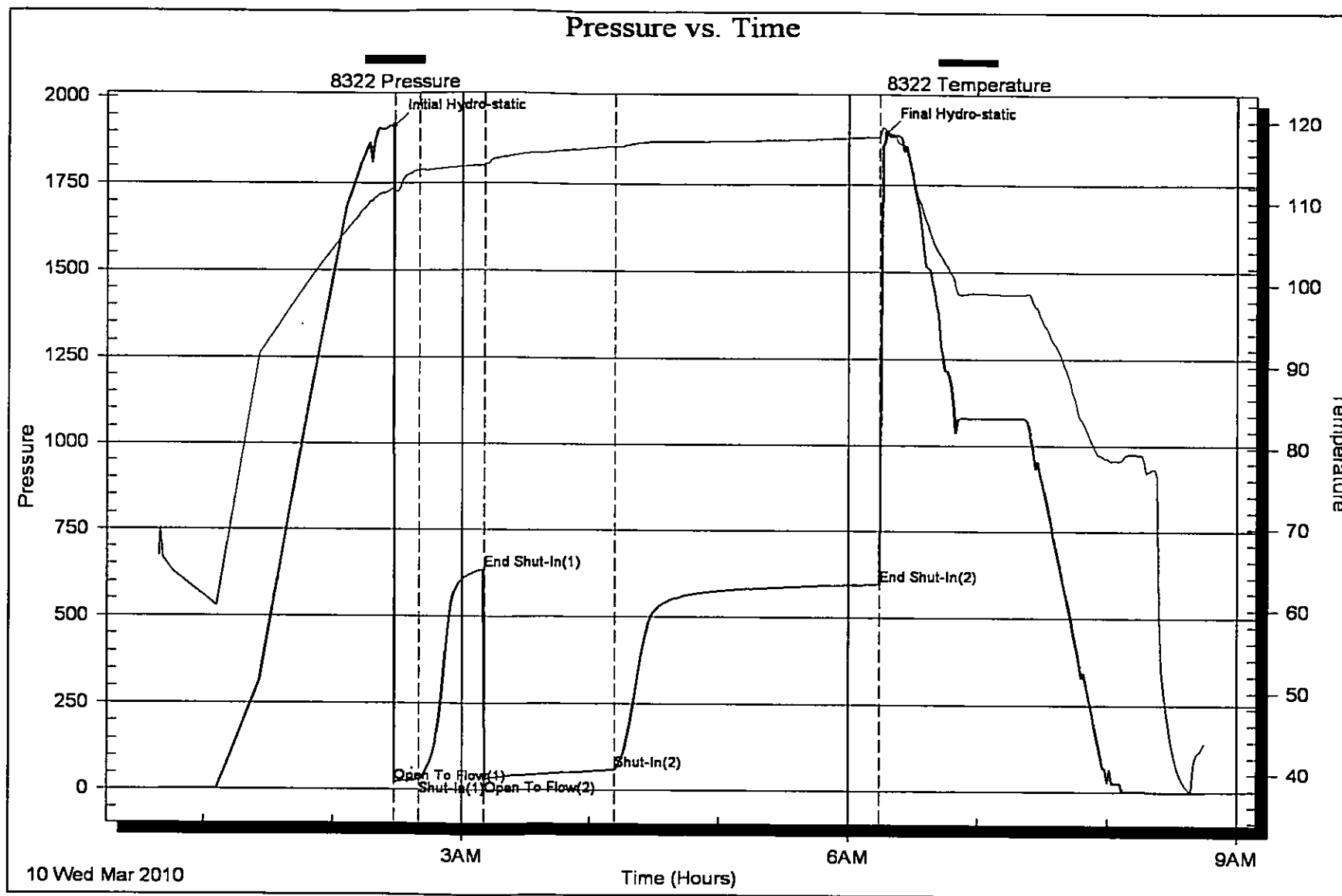
Num Gas Bombs: 0

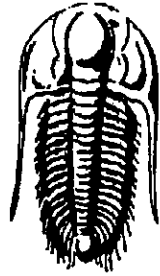
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co., Inc.**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

25 15S 27W Gove KS

Steffens #1-25

Start Date: 2010.03.10 @ 16:39:05

End Date: 2010.03.10 @ 22:00:14

Job Ticket #: 37804 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Mull Drilling Co., Inc.

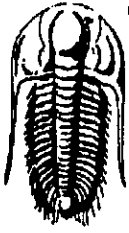
Steffens #1-25

25 15S 27W Gove KS

DST # 2

Lans, K

2010.03.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Co., Inc.
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

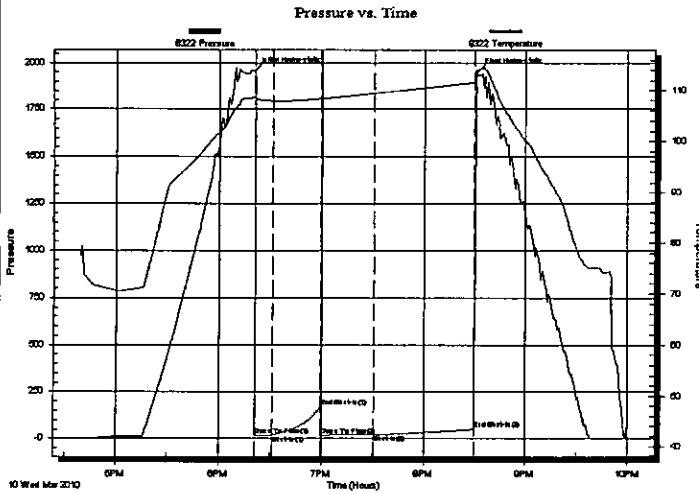
Steffens #1-25
25 15S 27W Gove KS
Job Ticket: 37804 DST#: 2
Test Start: 2010.03.10 @ 16:39:05

GENERAL INFORMATION:

Formation: **Lans, K**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 18:21:15
Time Test Ended: 22:00:14
Interval: **4020.00 ft (KB) To 4060.00 ft (KB) (TVD)**
Total Depth: **4060.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Brandon Domsch**
Unit No: **48**
Reference Elevations: **2506.00 ft (KB)**
2497.00 ft (CF)
KB to GR/CF: **9.00 ft**

Serial #: 8322 Inside
Press@RunDepth: **20.18 psig @ 4021.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.03.10** End Date: **2010.03.10** Last Calib.: **2010.03.10**
Start Time: **16:39:05** End Time: **22:00:14** Time On Btm: **2010.03.10 @ 18:20:30**
Time Off Btm: **2010.03.10 @ 20:31:15**

TEST COMMENT: IF: Built to 3/4 inch.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

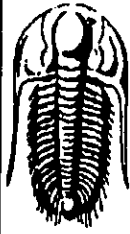
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.91	108.55	Initial Hydro-static
1	17.04	108.28	Open To Flow (1)
11	18.55	107.87	Shut-In(1)
40	168.57	108.34	End Shut-In(1)
40	19.56	108.32	Open To Flow (2)
71	20.18	109.38	Shut-In(2)
130	51.62	111.63	End Shut-In(2)
131	1951.62	113.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%am	0.07
0.00	GIP = 0	0.00

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co., Inc.

Steffens #1-25

1700 N Waterfront Pkwy
Wichita, KS 67206

25 15S 27W Gove KS

Job Ticket: 37804

DST#: 2

ATTN: Kevin Kessler

Test Start: 2010.03.10 @ 16:39:05

Tool Information

Drill Pipe:	Length: 4022.00 ft	Diameter: 3.80 inches	Volume: 56.42 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 56.42 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4020.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3993.00	
Shut In Tool	5.00			3998.00	
Hydraulic tool	5.00			4003.00	
Jars	5.00			4008.00	
Safety Joint	3.00			4011.00	
Packer	5.00			4016.00	28.00 Bottom Of Top Packer
Packer	4.00			4020.00	
Stubb	1.00			4021.00	
Recorder	0.00	8322	Inside	4021.00	
Recorder	0.00	8166	Inside	4021.00	
Perforations	2.00			4023.00	
Change Over Sub	1.00			4024.00	
Drill Pipe	30.00			4054.00	
Change Over Sub	1.00			4055.00	
Bullnose	5.00			4060.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co., Inc.
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

Steffens #1-25
25 15S 27W Gove KS
Job Ticket: 37804 DST#: 2
Test Start: 2010.03.10 @ 16:39:05

Mud and Cushion Information

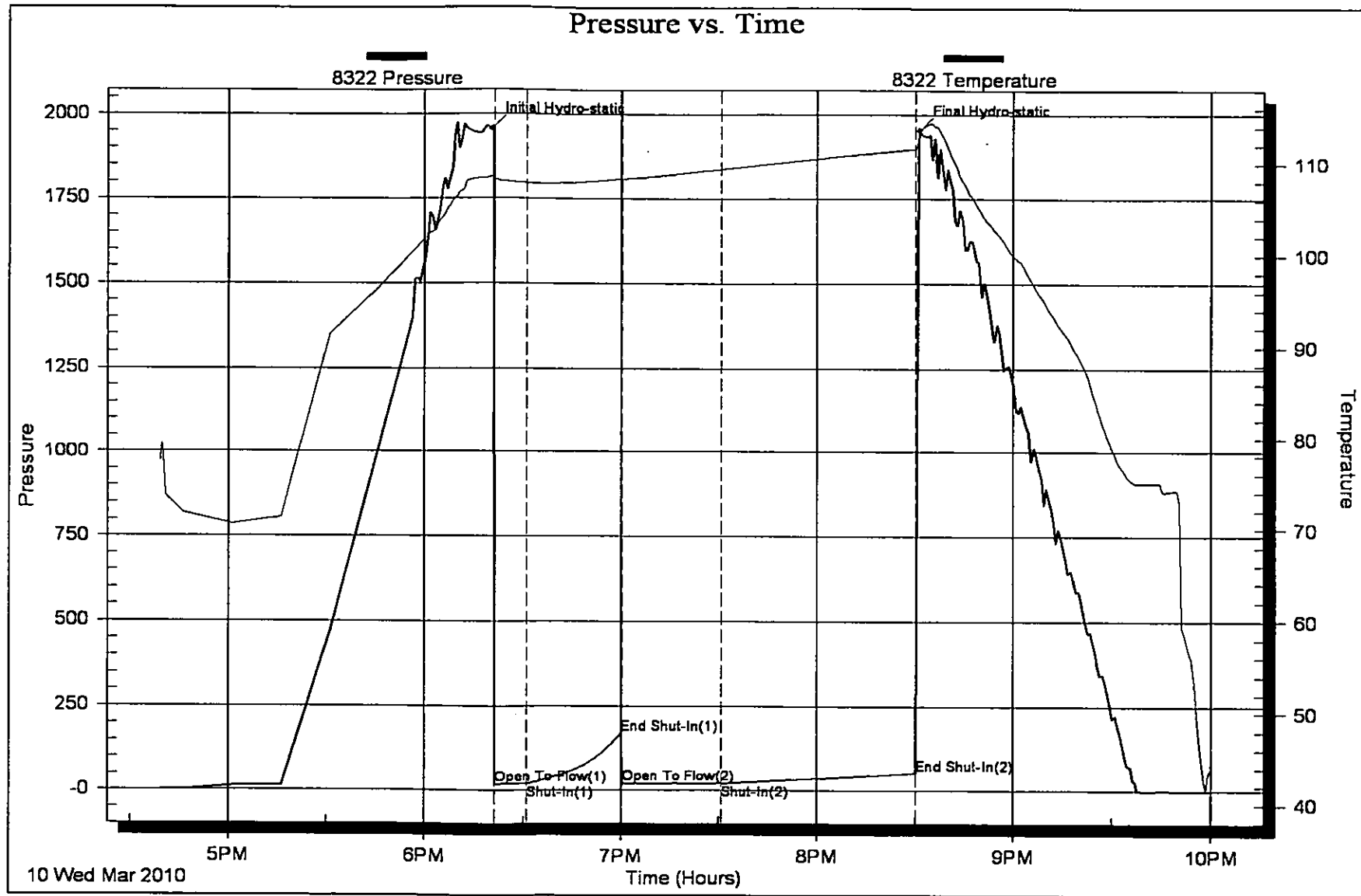
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.55 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: 1.00 inches			

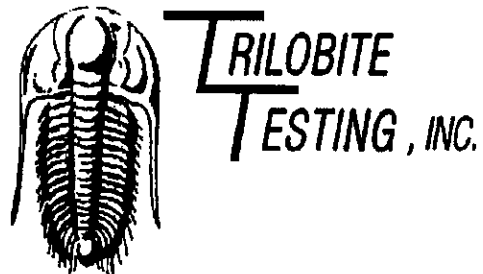
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M 100% m	0.070
0.00	GP = 0	0.000

Total Length: 5.00 ft Total Volume: 0.070 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co., Inc.**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

25 15S 27W Gove KS

Steffens #1-25

Start Date: 2010.03.12 @ 04:24:05

End Date: 2010.03.12 @ 10:21:14

Job Ticket #: 37805 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Co., Inc.
 1700 N Waterfront Pkwy
 Wichita, KS 67206
 ATTN: Kevin Kessler

Steffens #1-25
25 15S 27W Gove KS
 Job Ticket: 37805 DST#: 3
 Test Start: 2010.03.12 @ 04:24:05

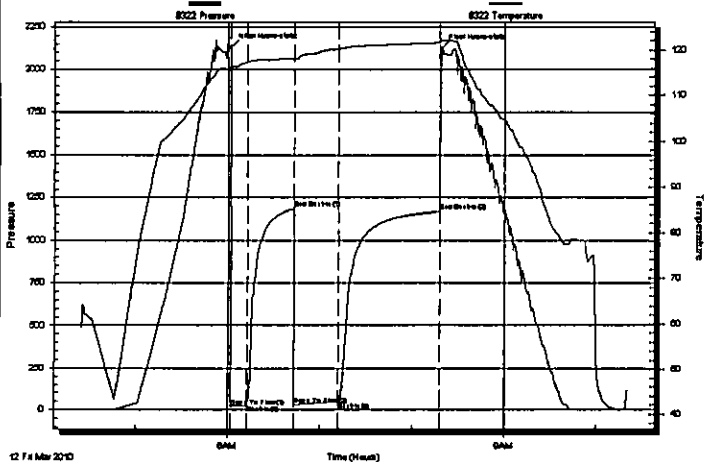
GENERAL INFORMATION:

Formation:	Ft Scott - Miss.	Test Type:	Conventional Bottom Hole
Deviated:	No Whipstock: ft (KB)	Tester:	Brandon Domsch
Time Tool Opened:	06:01:45	Unit No:	48
Time Test Ended:	10:21:14	Reference Elevations:	2506.00 ft (KB)
Interval:	4260.00 ft (KB) To 4390.00 ft (KB) (TVD)		2497.00 ft (CF)
Total Depth:	4390.00 ft (KB) (TVD)	KB to GR/CF:	9.00 ft
Hole Diameter:	7.88 inches	Hole Condition:	Fair

Serial #: 8322	Inside	Capacity:	8000.00 psig
Press@RunDepth:	45.26 psig @ 4261.00 ft (KB)	Last Calib.:	2010.03.12
Start Date:	2010.03.12	End Date:	2010.03.12
Start Time:	04:24:05	End Time:	10:21:14
		Time On Btm:	2010.03.12 @ 06:01:30
		Time Off Btm:	2010.03.12 @ 08:19:15

TEST COMMENT: IF: Built to 1 3/4 inch.
 IS: No return.
 FF:
 FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

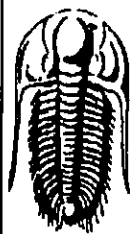
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2128.10	116.14	Initial Hydro-static
1	20.24	115.71	Open To Flow (1)
11	27.95	117.41	Shut-In(1)
41	1184.59	118.06	End Shut-In(1)
42	31.33	118.13	Open To Flow (2)
70	45.26	120.27	Shut-In(2)
137	1169.31	121.56	End Shut-In(2)
138	2123.66	122.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 15%o 85% m	0.42
60.00	CO&G 25%g 75%o	0.84
0.00	GIP = 30 ft	0.00
0.00	API = 38@50F = 39	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co., Inc.

Steffens #1-25

1700 N Waterfront Pkwy
Wichita, KS 67206

25 15S 27W Gove KS

Job Ticket: 37805

DST#: 3

ATTN: Kevin Kessler

Test Start: 2010.03.12 @ 04:24:05

Tool Information

Drill Pipe:	Length: 4244.00 ft	Diameter: 3.80 inches	Volume: 59.53 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 59.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4260.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	130.00 ft			
Tool Length:	158.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4233.00	
Shut In Tool	5.00			4238.00	
Hydraulic tool	5.00			4243.00	
Jars	5.00			4248.00	
Safety Joint	3.00			4251.00	
Packer	5.00			4256.00	28.00 Bottom Of Top Packer
Packer	4.00			4260.00	
Stubb	1.00			4261.00	
Recorder	0.00	8322	inside	4261.00	
Recorder	0.00	8166	inside	4261.00	
Perforations	29.00			4290.00	
Change Over Sub	1.00			4291.00	
Drill Pipe	93.00			4384.00	
Change Over Sub	1.00			4385.00	
Bullnose	5.00			4390.00	130.00 Bottom Packers & Anchor

Total Tool Length: 158.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co., Inc.
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

Steffens #1-25
25 15S 27W Gove KS
Job Ticket: 37805 DST#: 3
Test Start: 2010.03.12 @ 04:24:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.55 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3500.00 ppm		
Filter Cake: 1.00 inches		

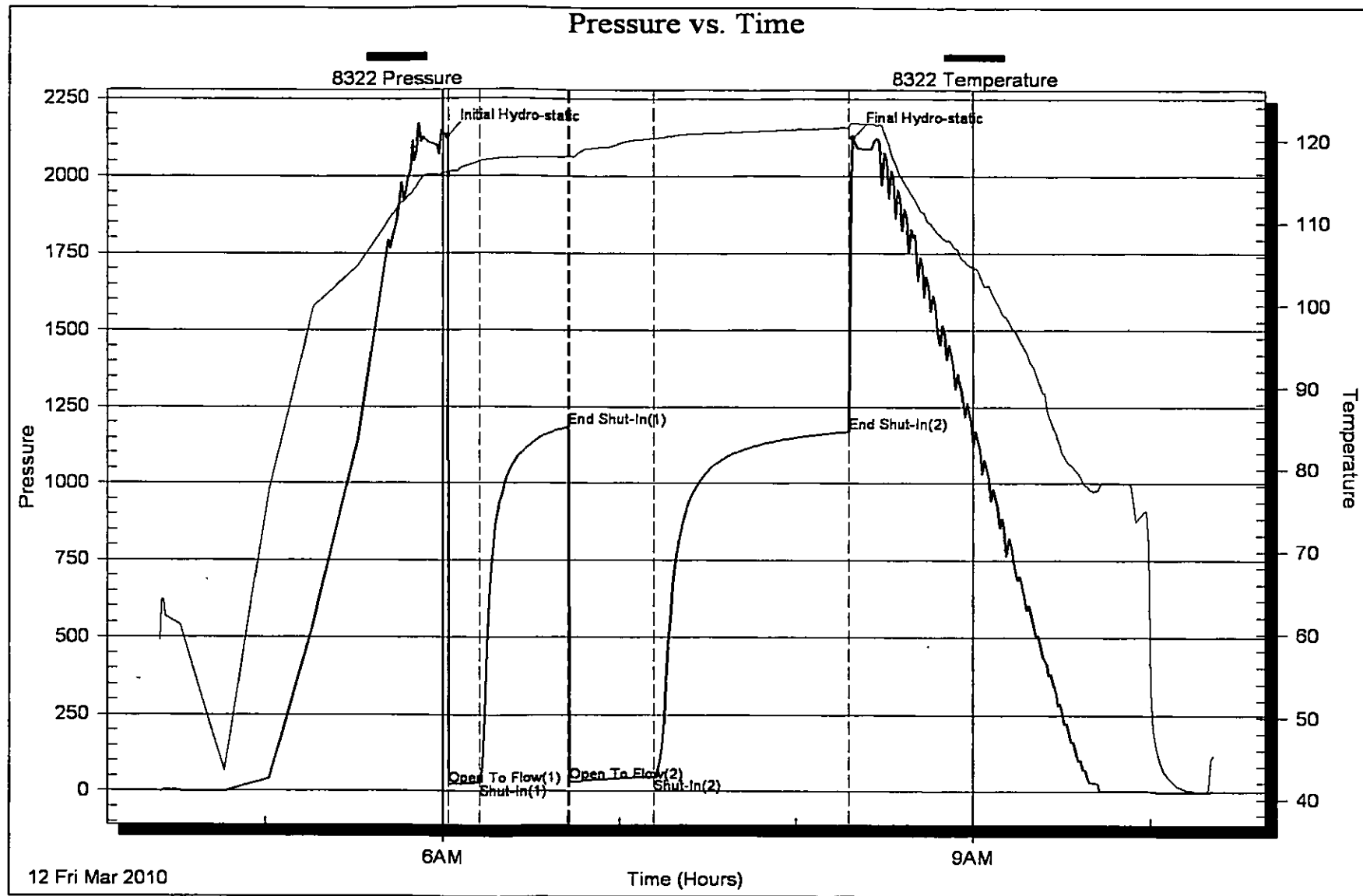
Recovery Information

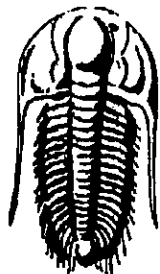
Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 15%o 85%m	0.421
60.00	CO&G 25%g 75%o	0.842
0.00	GIP = 30 ft	0.000
0.00	API = 38@50F = 39	0.000

Total Length: 90.00 ft Total Volume: 1.263 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co., Inc.**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

25 15S 27W Gove KS

Steffens #1-25

Start Date: 2010.03.12 @ 17:19:05

End Date: 2010.03.13 @ 01:04:44

Job Ticket #: 37806 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Co., Inc.
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

Steffens #1-25
25 15S 27W Gove KS
Job Ticket: 37806 DST#: 4
Test Start: 2010.03.12 @ 17:19:05

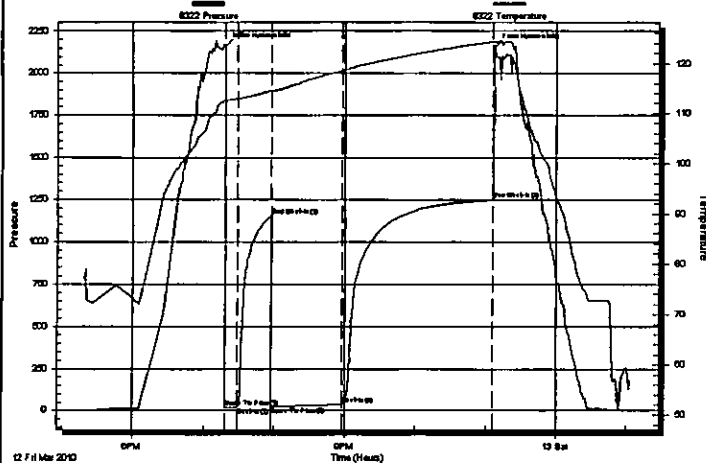
GENERAL INFORMATION:

Formation: Miss.
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:18:30
Time Test Ended: 01:04:44
Interval: 4390.00 ft (KB) To 4400.00 ft (KB) (TVD)
Total Depth: 4400.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Brandon Domsch
Unit No: 48
Reference Elevations: 2506.00 ft (KB)
2497.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8322 Inside
Press@RunDepth: 36.72 psig @ 4391.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.03.12 End Date: 2010.03.13 Last Calib.: 2010.03.13
Start Time: 17:19:05 End Time: 01:04:44 Time On Btm: 2010.03.12 @ 19:18:00
Time Off Btm: 2010.03.12 @ 23:07:15

TEST COMMENT: IF: Built to 1 1/2 inches.
IS: No return.
FF: Built to 3 1/2 inches.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.08	112.72	Initial Hydro-static
1	17.60	112.02	Open To Flow (1)
11	21.07	112.79	Shut-In(1)
40	1154.52	114.55	End Shut-In(1)
40	22.33	114.42	Open To Flow (2)
100	36.72	118.52	Shut-In(2)
229	1249.23	124.34	End Shut-In(2)
230	2158.41	124.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 10% @ 90% m	0.28
40.00	CO 100% @	0.56
0.00	GIP = 0	0.00
0.00	API = 36 @ 40F = 38	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co., Inc.
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

Steffens #1-25
25 15S 27W Gove KS
Job Ticket: 37806 DST#: 4
Test Start: 2010.03.12 @ 17:19:05

Tool Information

Drill Pipe:	Length: 4368.00 ft	Diameter: 3.80 inches	Volume: 61.27 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4390.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4363.00	
Shut In Tool	5.00			4368.00	
Hydraulic tool	5.00			4373.00	
Jars	5.00			4378.00	
Safety Joint	3.00			4381.00	
Packer	5.00			4386.00	28.00 Bottom Of Top Packer
Packer	4.00			4390.00	
Stubb	1.00			4391.00	
Recorder	0.00	8322	Inside	4391.00	
Recorder	0.00	8166	Inside	4391.00	
Perforations	4.00			4395.00	
Bullnose	5.00			4400.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co., Inc.
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

Steffens #1-25
25 15S 27W Gove KS
Job Ticket: 37806 DST#: 4
Test Start: 2010.03.12 @ 17:19:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.76 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM 10%o 90%m	0.281
40.00	CO 100%o	0.561
0.00	GP = 0	0.000
0.00	API = 36@40F = 38	0.000

Total Length: 60.00 ft Total Volume: 0.842 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

