

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5144
Name: Mull Drilling Company, Inc.
Address 1: 1700 N WATERFRONT PKWY
Address 2: BLDG 1200
City: WICHITA State: KS Zip: 67206 + _____
Contact Person: Mark Shreve
Phone: (316) 264-6366
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Kevin Kessler
Purchaser: Plains Marketing

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 #: _____

<u>08/17/2010</u>	<u>08/25/2010</u>	<u>09/24/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-135-25121-00-00
Spot Description: _____
NE SE NW NE Sec. 4 Twp. 16 S. R. 26 East West
694 Feet from North / South Line of Section
1421 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ness
Lease Name: Thornburg 'C' Well #: 1-4
Field Name: Judica
Producing Formation: Mississippi
Elevation: Ground: 2575 Kelly Bushing: 2584
Total Depth: 4600 Plug Back Total Depth: 4521
Amount of Surface Pipe Set and Cemented at: 222 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2005 Feet
If Alternate II completion, cement circulated from: 2005
feet depth to: 0 w/ 170 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 14700 ppm Fluid volume: 900 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite: _____
Operator Name: Walker Tank Service, Inc.
Lease Name: Walker License #: 4313
Quarter SE Sec. 14 Twp. 16 S. R. 26 East West
County: Ness Permit #: 15-135-22859-00-01

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: 11/10/2010
 Confidential Release Date: 11/09/2012
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 11/10/2010



1046598

Operator Name: Mull Drilling Company, Inc. Lease Name: Thornburg 'C' Well #: 1-4

Sec. 4 Twp. 16 S. R. 26 East West County: Ness

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: CDL/CNL/PE; DIL; Sonic & Micro	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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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	12.2500	8.6250	20	222	Common	165	3% cc, 2% gel
Production	7.875	5.5000	15.5	4575	Poz	145	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0-2005	SMD	170	

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
4	4498' - 4502'		

TUBING RECORD: Size: <u>2 7/8"</u> Set At: <u>4515'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>09/24/2010</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>10</u>	Gas Mcf <u>0</u>
	Water Bbls. <u>0</u>	Gas-Oil Ratio <u>0</u>
		Gravity <u>38</u>

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</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	Thornburg 'C' 1-4
Doc ID	1046598

Tops

Anhydrite	2011	+ 573
B/Anhydrite	2046	+ 538
Heebner Shale	3846	- 1262
Lansing	3888	- 1304
Marmaton	4234	- 1650
Ft. Scott	4395	- 1811
Cherokee Shale	4422	- 1838
Mississippi	4497	- 1913



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

November 09, 2010

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

Re: ACO1
API 15-135-25121-00-00
Thornburg 'C' 1-4
NE/4 Sec.04-16S-26W
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.

Please be advised that Mull Drilling Company, Inc. has not received the wellsite geologist's report for this well. As soon as we receive the report, one will be forwarded to your office.

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

Respectfully,
Mark Shreve

ALLIED CEMENTING CO., LLC. 038976

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley, KS

8-17-10	SEC. 4	TWP. 16	RANGE 26	CALLED OUT	ON LOCATION 3:30 pm	JOB START 6:00 pm	JOB FINISH 6:30 pm
Thompson's	WELL # 1-4	LOCATION Uteca Rd			COUNTY Ness	STATE KS	
OLD OR NEW (Circle one)				4W-T 1" Lewis			

CONTRACTOR Duke 4
 TYPE OF JOB Suifaco
 HOLE SIZE 12 1/4 T.D. 222'
 CASING SIZE 8 5/8 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 bbl

OWNER
 CEMENT
 AMOUNT ORDERED 165 com 3070 cc
290 gal

COMMON	<u>165</u>	@ <u>1365</u>	<u>2252²⁵</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>2040</u>	<u>6120</u>
CHLORIDE	<u>6</u>	@ <u>5715</u>	<u>34290</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>174</u>	@ <u>210</u>	<u>36540</u>
MILEAGE	<u>.10454 mile</u>		<u>556</u>
TOTAL			<u>3578¹⁰</u>

REMARKS:

cement did circulate
Plus down 0
Thank You

SERVICE

DEPTH OF JOB 222'
 PUMP TRUCK CHARGE 999¹⁸
 EXTRA FOOTAGE @
 MILEAGE 32 @ 700 224⁰⁰



CHARGE TO:	MWLL DRILLING
ADDRESS	
CITY, STATE, ZIP CODE	

SERVICE LOCATIONS 1. NESS CITY, KS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY
2.		THORNTONBURG "C" 1-4	NESS	KS	UTICA, KS.
3.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR FRITZLER TRUCKING	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO LOCATION
4. REFERRAL LOCATION	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE CEMENT PORT COLLAR	WELL PERMIT NO.	
INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM	
		LOG	ACCT	DF					
575		1			MILEAGE #110	40	MIL		
576D		1			PUMP CHARGE	1	JOB	2005	17
290		1			D-AIR	2	1/2 GAL		
105		1			PORT COLLAR OPENING TOOL	1	JOB		
276		1			FLOCCLE	49	lbs		
330		1			SWIFT MULTI DENSITY STANDARD	195	SK		
581		1			SERVICE CHARGE CEMENT	225	SK		
583		1			DRAINAGE	22327	1/66	44	1/54 TH

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 *Hyatt Baker MOC*
 DATE SIGNED 31 AUG 10 TIME SIGNED 1230 P.M.

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

SURVEY	AGREE	UN-DECIDED	OR
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			OR
WE UNDERSTOOD AND MET YOUR NEEDS?			OR
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			OR
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			OR
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
 SWIFT OPERATOR *John E. Katt* APPROVAL

JOB LOG

SWIFT Services, Inc.

DATE 31 AUG 10 PAGE NO. 7

CUSTOMER MULLER DRILLING WELL NO. LEASE THORNBURG "C" 1-4 JOB TYPE CEMENT PORT COLLAR TICKET NO. 18942

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1052							ON LOCATION PORT COLLAR @ 2005
	1101				✓		1000	PRESSURE UP ANNULUS - HELD
	1104	2 1/2			✓		200	OPEN PORT COLLAR TAKE ILS. RATE
	1109	4	108	✓			200	MIX CEMENT - MIX @ 11.2 PPG. 195 SX 25 SX TO PIT
	1138	3	10 1/2	✓			200	DISPLACE CEMENT -
	1142			✓			1000	CLOSE PORT COLLAR PRESSURE UP - HELD
	1147							RUN 4 ILS
	1155	3	25	✓			200	REVERSE CEMENT OUT
	1210							WASH TRUCK
	1230							JOB COMPLETE



CHARGE TO: MULL DRUG

ADDRESS: _____

CITY, STATE, ZIP CODE: _____

SERVICE LOCATIONS 1. <u>AKKS</u>	WELL/PROJECT NO. <u>1-4</u>	LEASE <u>THORNBERG-C</u>	COUNTY/PARISH <u>NESS</u>	STATE <u>KS</u>	CITY
2. <u>NESS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <u>DUMWELL 24</u>	SHIPPED VIA <u>EST</u>	DELIVERED TO <u>421 New Sun, Hts, KS</u>
3.	WELL TYPE <u>OIL</u>	WELL CATEGORY <u>DEVELOP</u>	JOB PURPOSE <u>LONGSTRING</u>	WELL PERMIT NO. <u>15-235-2511</u>	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS				

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		QTY.	
		LOC	ACCT	DF		UM	UM		
575		1			MILEAGE #112	40	mi		
578		1			Pump Service	1	ea		
221		1			LIGNOCEL	2	ea		
220		1			FLOCHECK 21	1000	ea		
290		1			DAIR	2	ea		
400		1			GUIDESIDE	1	ea	5 1/2	ea
402		1			CENTRALIZER	10	ea	5 1/2	ea
403		1			BANDS	2	ea	5 1/2	ea
404		1			POT COLLAR	1	ea	5 1/2	ea
410		1			TOP PULL	1	ea	5 1/2	ea
413		1			ROW WALK SCREENER	14	ea	70	ea
415		1			TRUSS FLOW COLLAR W/FLUP	1	ea	5 1/2	ea

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, INDEMNIFY, 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 08-26-10 TIME SIGNED 0030 AM PM

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

SURVEY	AGREE	UN-DECIDED	NO AG
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
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	

CUSTOMER DID NOT WISH TO RESPOND

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

SWIFT OPERATOR DAVEASH APPROVAL _____



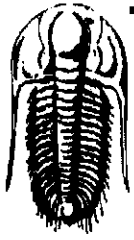
PO Box 466
 Ness City, KS 67560
 Off: 785-798-2300

TICKET CONTINUATION

CUSTOMER MULLORLG	WELL F.H. THORNDURF - C
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LINE NO.	QUANTITY	UNIT	DESCRIPTION	PRICE	AMOUNT	WEIGHT	VOLUME
419	1		ROTATING HEAD RENTAL	1 EA		5 1/2 cu	
580	1		ADDITIONAL HRS - CIRC	1 HR			
327	2		SD-SD PIZ 2/2 GEL	175	350		
276	2		FUDGE	44	88	LB	
283	2		SALT	850	1700	LB	
286	2		HALLS	100	200	LB	
581	2		SERVICE CHARGE	175	350		
583	2		SLAYAGE	290.75	581.50		
SERVICE CHARGE				CUBIC FEET			
TOTAL WEIGHT				LOADED MILES		TON MILES	





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.
 1700 N. Waterfront Parkway
 Building 1200
 Wichita, KS. 67206
 ATTN: Kevin Kessler

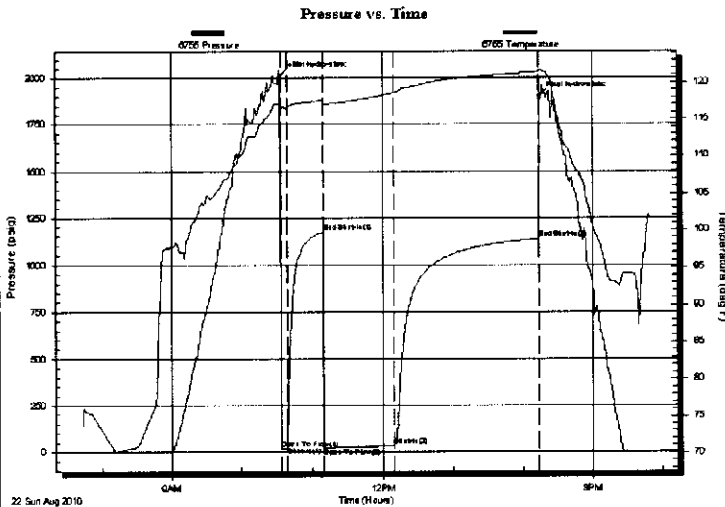
ATHornburg C #1-4
4-20s-23w-Ness
 Job Ticket: 39038 **DST#: 1**
 Test Start: 2010.08.22 @ 07:43:45

GENERAL INFORMATION:

Formation: **Lansing-"H-I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:33:45
 Time Test Ended: 15:48:15
 Test Type: Conventional Bottom Hole
 Tester: Jason McLemore
 Unit No: 32
 Interval: **4040.00 ft (KB) To 4110.00 ft (KB) (TVD)**
 Reference Elevations: 2584.00 ft (KB)
 Total Depth: 4110.00 ft (KB) (TVD) 2575.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Good KB to GRVCF: 9.00 ft

Serial #: 6755 Inside
 Press@RunDepth: 32.59 psig @ 4077.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.08.22 End Date: 2010.08.22 Last Calib.: 2010.08.22
 Start Time: 07:43:47 End Time: 15:48:15 Time On Btm: 2010.08.22 @ 10:33:15
 Time Off Btm: 2010.08.22 @ 14:14:30

TEST COMMENT: IFP-Weak Blow ,Built to 3/4"
 IS-Dead
 FFP-Weak Blow ,Built to 3/4"
 FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.64	117.36	Initial Hydro-static
1	17.42	116.65	Open To Flow (1)
6	27.99	116.54	Shut-In(1)
37	1174.74	117.57	End Shut-In(1)
37	20.73	117.10	Open To Flow (2)
97	32.59	118.61	Shut-In(2)
221	1138.62	121.43	End Shut-In(2)
222	1901.95	121.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Drilling Mud	0.63

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

AThornburg C #1-4

1700 N. Waterfront Parkway
Building 1200
Wichita, KS. 67206
ATTN: Kevin Kessler

4-20s-23w-Ness

Job Ticket: 39038

DST#: 1

Test Start: 2010.08.22 @ 07:43:45

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Drilling Mud	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

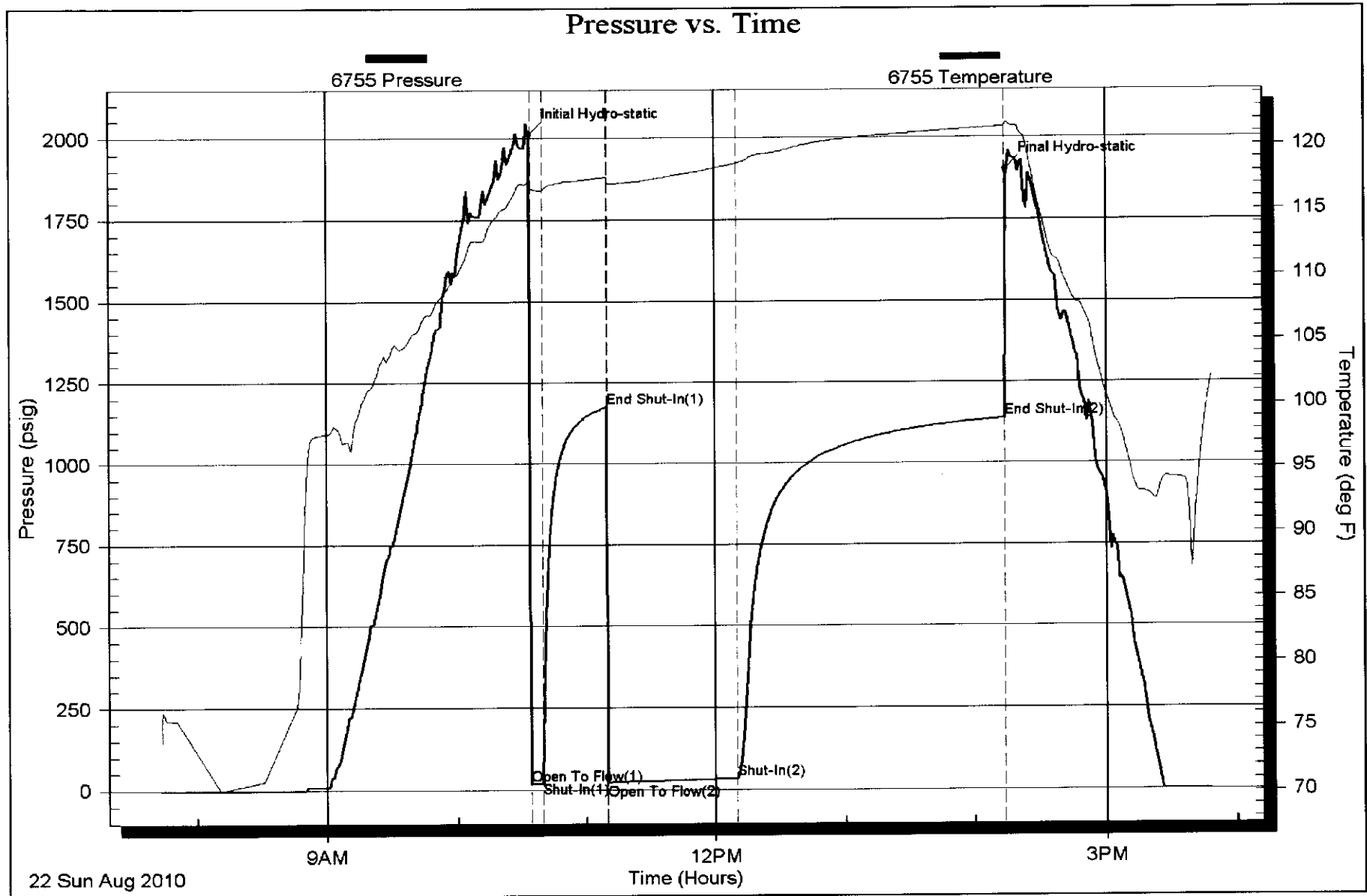
Num Gas Bombs: 0

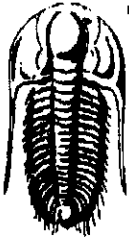
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.
 1700 N. Waterfront Parkway
 Building 1200
 Wichita, KS. 67206
 ATTN: Kevin Kessler

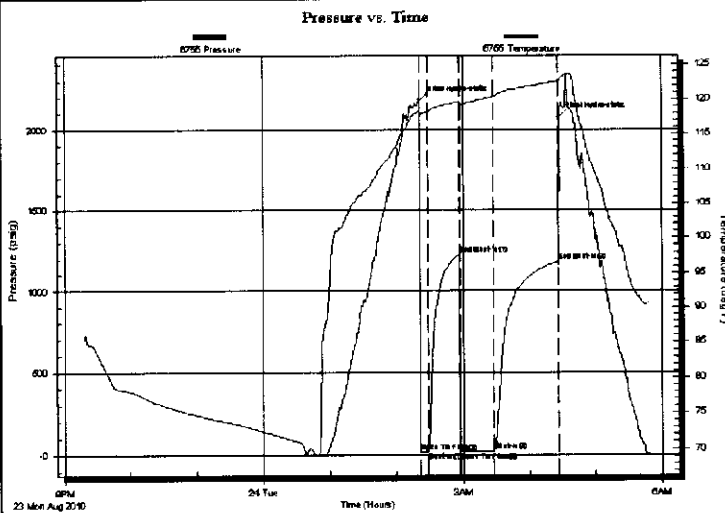
AThornburg C #1-4
4-20s-23w-Ness
 Job Ticket: 39039 **DST#: 2**
 Test Start: 2010.08.23 @ 21:18:15

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **02:21:30** Tester: **Jason McLemore**
 Time Test Ended: **05:49:45** Unit No: **32**
 Interval: **4380.00 ft (KB) To 4420.00 ft (KB) (TVD)** Reference Elevations: **2584.00 ft (KB)**
 Total Depth: **4420.00 ft (KB) (TVD)** **2575.00 ft (CF)**
 Hole Diameter: **7.80 inches** Hole Condition: **Good** KB to GR/CF: **9.00 ft**

Serial #: 6755 **Inside**
 Press@RunDepth: **23.09 psig @ 4384.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.08.23** End Date: **2010.08.24** Last Calib.: **2010.08.24**
 Start Time: **21:18:17** End Time: **05:49:45** Time On Btm: **2010.08.24 @ 02:21:15**
 Time Off Btm: **2010.08.24 @ 04:26:45**

TEST COMMENT: **IFP-Weak Blow, 1/2"**
ISI-Dead
FFP-Dead
FSI-Dead



PRESSURE SUMMARY

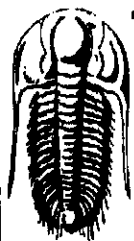
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.83	118.51	Initial Hydro-static
1	21.40	117.18	Open To Flow (1)
8	21.63	118.20	Shut-In(1)
36	1225.88	119.69	End Shut-In(1)
37	22.00	119.23	Open To Flow (2)
66	23.09	120.34	Shut-In(2)
125	1184.61	122.53	End Shut-In(2)
126	2077.17	122.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.
1700 N. Waterfront Parkway
Building 1200
Wichita, KS. 67206
ATTN: Kevin Kessler

ATHornburg C #1-4
4-20s-23w-Ness
Job Ticket: 39039 **DST#: 2**
Test Start: 2010.08.23 @ 21:18:15

Mud and Cushion Information

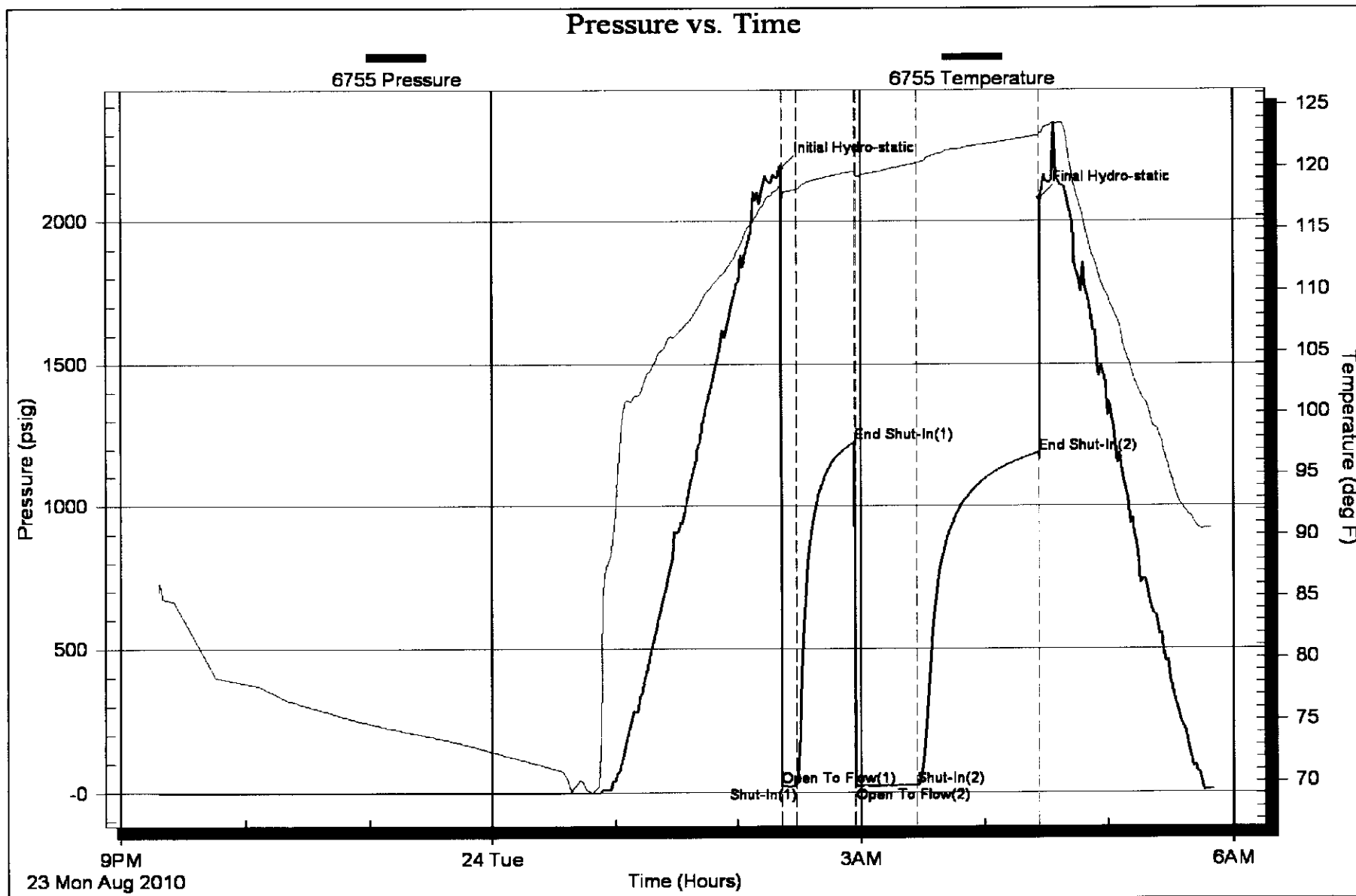
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: inches			

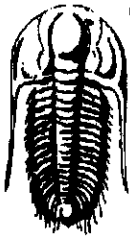
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling Mud	0.070

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:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.
1700 N. Waterfront Parkway
Building 1200
Wichita, KS. 67206
ATTN: Kevin Kessler

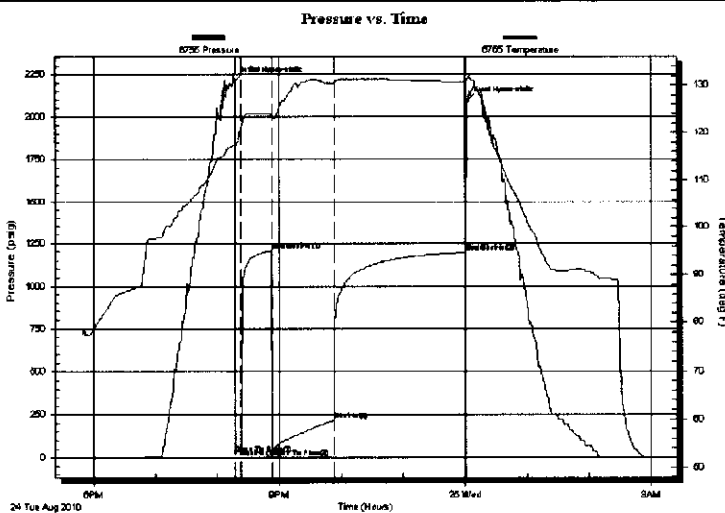
ATHornburg C #1-4
4-20s-23w-Ness
Job Ticket: 39040 **DST#: 3**
Test Start: 2010.08.24 @ 17:49:38

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 20:17:53
 Tester: Jason McLemore
 Time Test Ended: 02:58:38
 Unit No: 32
 Interval: **4440.00 ft (KB) To 4505.00 ft (KB) (TVD)**
 Reference Elevations: 2584.00 ft (KB)
 Total Depth: 4505.00 ft (KB) (TVD) 2575.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Good KB to GRVCF: 9.00 ft

Serial #: 6755 Inside
 Press@RunDepth: 218.71 psig @ 4477.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.08.24 End Date: 2010.08.25 Last Calib.: 2010.08.25
 Start Time: 17:49:40 End Time: 02:58:38 Time On Btm: 2010.08.24 @ 20:17:23
 Time Off Btm: 2010.08.25 @ 00:02:08

TEST COMMENT: IFP-Fair Blow ,Built to 6"
 ISI-Dead
 FFP-Good Blow ,BOB in 11 Min.
 FSI-Blow back Built to 3"



PRESSURE SUMMARY

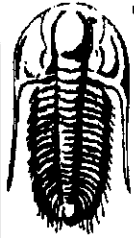
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.52	117.61	Initial Hydro-static
1	22.97	116.82	Open To Flow (1)
6	51.85	120.81	Shut-In(1)
36	1206.64	123.93	End Shut-In(1)
36	53.58	123.31	Open To Flow (2)
96	218.71	130.35	Shut-In(2)
224	1196.10	130.67	End Shut-In(2)
225	2095.25	130.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	Frothy Muddy Oil-30%G-40%O-30%M	4.21
220.00	Gassy Oil-20%G-80%O	3.09
0.00	320' Gas In Pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

ATHornburg C #1-4

1700 N. Waterfront Parkway
Building 1200
Wichita, KS. 67206
ATTN: Kevin Kessler

4-20s-23w-Ness

Job Ticket: 39040

DST#: 3

Test Start: 2010.08.24 @ 17:49:38

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
300.00	Frothy Muddy Oil-30%G-40%O-30%M	4.208
220.00	Gassy Oil-20%G-80%O	3.086
0.00	320' Gas In Pipe	0.000

Total Length: 520.00 ft

Total Volume: 7.294 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

