



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

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: _____



1046598

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
---	---

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	Thornburg 'C' 1-4
Doc ID	1046598

Tops

Name	Top	Datum
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:

Daleys KS

DATE	8-17-10	SEC.	4	TWP.	16	RANGE	2-6	CALLED OUT	ON LOCATION	3:30 pm	JOB START	6:00 pm	JOB FINISH	6:30 pm
LEASE #	Thompson's		WELL #		1-4	LOCATION	Utica Rd		COUNTY	Wes	STATE	KS		
OLD OR NEW	(circle one)					40-7	11' LWS							

CONTRACTOR Duke Y OWNER _____

TYPE OF JOB SURFACE

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

CASING SIZE 8 3/4 DEPTH 272

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

EQUIPMENT

PUMP TRUCK CEMENTER Scotty
431 HELPER Rilly
BULK TRUCK
327 DRIVER Scotty
BULK TRUCK
_____ DRIVER _____

CEMENT
AMOUNT ORDERED 165 COM 3070 cc
2970 cc

COMMON 165 @ 1365 2257 25
POZMIX @ _____
GEL 3 @ 2040 61 20
CHLORIDE 6 @ 5715 342 90
ASC @ _____

HANDLING 174 @ 210 365 40
MILEAGE .104548 mile @ _____ 556 80
TOTAL 3578 5

REMARKS:

Cement did circulate

SERVICE

DEPTH OF JOB _____ 222'
PUMP TRUCK CHARGE _____ 999 00
EXTRA FOOTAGE @ _____
MILEAGE 37 @ 7 00 274 00
MANIFOLD @ _____

CHARGE TO: MWU Dals.

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 1223

PLUG & FLOAT EQUIPMENT

1-8 7/8 plug @ _____ 49 00
@ _____
@ _____
@ _____

TOTAL 49 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



CHARGE TO: **WELL DRILLING**

ADDRESS

CITY, STATE, ZIP CODE

TICKET
18942

PAGE 1 OF 1

SERVICE LOCATIONS
1. **NESS CITY, KS**

WELL/PROJECT NO. **THORNBERG "C" 1-4** LEASE **NESS** COUNTY/PARISH **NESS** STATE **KS** CITY **UTICA, KS.** DATE **31 AUG 10** OWNER

TICKET TYPE SERVICE SALES CONTRACTOR **FRITZLER TRUCKING** RIG NAME/NO. SHIPPED VIA DELIVERED TO **LOCATION** ORDER NO.

WELL TYPE **OIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **CEMENT PORT COLLAR** WELL PERMIT NO. WELL LOCATION **4N, 12W, S INTO**

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOG	ACCT	DP			U/M			
575		1			MILEAGE #110	40	MIL		5 ⁰⁰	200 ⁰⁰
576D		1			Pump CHARGE	1	JOB	2005 FT	1100 ⁰⁰	1100 ⁰⁰
290		1			D-AIR	2	QAL		35 ⁰⁰	70 ⁰⁰
105		1			PORT COLLAR OPENING TOOL	1	JOB		300 ⁰⁰	300 ⁰⁰
276		1			FLOCELE	49	lbs		1 ⁵⁰	73 ⁵⁰
330		1			SWIFT MULTI DENSITY STANDARD	195	SK		15 ⁰⁰	2925 ⁰⁰
581		1			SERVICE CHARGE CEMENT	225	SK		1 ⁵⁰	337 ⁵⁰
583		1			DRAYAGE	22327	lbs	44654 TM	1 ⁵⁰	446 ⁵⁴

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 *Phyllis Pohn* MOC
DATE SIGNED **31 AUG 10** TIME SIGNED **1230** 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
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	

PAGE TOTAL	5254
TAX 6.3%	212.22
TOTAL	5064.70

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

SWIFT OPERATOR *Janet Katt* APPROVAL

Thank You!

03/14/2010 10:04 PM 1101010334 MUU-UNIT_TELLS:00 MUU_MUUNITA 00001/002

JOB LOG

SWIFT Services, Inc.

DATE 31 AUG 10 PAGE NO.

CUSTOMER
MALL DRILLING

WELL NO.

LEAVE

JOB TYPE

THORNBURG "C" 1-4 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 @ 20DS
1101				✓			1000	PRESSURE UP ANNULUS - HELD
1104	2 1/2			✓			200	OPEN PORT COLLAR TAKE I.S.S. 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 SETS
1155	3		25	✓			200	REVERSE CEMENT DWT
1210								WASH TRUCK
1230								JOB COMPLETE
								TANKS #110
								JASON, SEPT, LANE



CHARGE TO: OMULDRG
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
18069

PAGE 1 OF 2

SERVICE LOCATIONS:
 1. HAKS WELL/PROJECT NO. 1-1 LEASE THORNBURG-C COUNTY/PARISH NESS STATE KS CITY DATE 08-26-10 OWNER
 2. NESS CONTRACTOR RIG NAME/NO. (D)UMDRG # 4 SHIPPED VIA 47 DELIVERED TO 4211 W. 5th St, Hts, KS ORDER NO.
 3. WELL TYPE OIL WELL CATEGORY DEVELOP JOB PURPOSE LONGSTRING WELL PERMIT NO. KS-135-25121 WELL LOCATION 54.716, R26
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRCE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE #112	40	mi			5.00	200	00
578		1			Pump Service	1	EA			1400.00	1400	00
221		1			LIQUID HCL	2	Gal			25.00	50	00
230		1			FLOCHECK 21	1000	Gal			2.50	2500	00
290		1			DAIR	2	Gal			35.00	70	00
400		1			SHADE	1	EA	5 1/2	L	155.00	155	00
402		1			CENTRALIZER	10	EA	5 1/2	L	55.00	550	00
403		1			BRIST	2	EA	5 1/2	L	200.00	400	00
404		1			PACT COLLAR	1	EA	5 1/2	L	1900.00	1900	00
410		1			TOP RUN	1	EA	5 1/2	L	100.00	100	00
413		1			ROW WALL SCRATCHER	14	EA	70	FT	40.00	560	00
415		1			FAST FLOW COLLAR w/FLUP	1	EA	5 1/2	L	330.00	330	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 08-26-10 TIME SIGNED 0030 A.M. P.M.

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

SURVEY	AGREE	UN-DECEIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL	8215 00
WE UNDERSTOOD AND MET YOUR NEEDS?				PAGE TOTAL	3228 00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				SUB TOTAL	11,443 03
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				NESS TAX 6.3%	572 65
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	12,015 68
<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.
 SWIFT OPERATOR DAVEASH APPROVAL: _____

Thank You!

11/08/2010 14:31 PM 1101010334 MDU-UTRY_WELLS.CO 7 MDU WULFTH 0001/0003



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

TICKET CONTINUATION

TICKET No. 18069

CUSTOMER MULLORLG WELL J-H, THORNBURG-C DATE 08-26-10 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	QUANTITY	TIME	DESCRIPTION	UNIT				PRICE		AMOUNT	
					QTY	UNIT	QTY	UNIT	PRICE	AMOUNT		
419		1		ROTATING HEAD RENTAL	1	EA	5 1/2	hr	150	00	150	00
580		1		ADDITIONAL HRS - CIRC	1	HR			200	00	200	00
327		2		SD-SD PZ PASEL	175	SH			8	75	1531	25
276		2		FIDCELE	44	LB			1.50		66	00
283		2		SALT	850	LB			15		127	50
286		2		HAARD	100	LB			6	00	600	00
581		2		SERVICE CHELMT	175	SH			1	50	262	50
583		2		SPAYAGE	290	78	77		1	00	290	78
SERVICE CHARGE					CUBIC FEET							
TOTAL WEIGHT					LOADED MILES				TON MILES			

CONTINUATION TOTAL 3228.03

11/08/2010 14:51 FAX 1101018334 MUC-CHEY_WELLS, CU 002/003

JOB LOG

SWIFT Services, Inc.

DATE 08-26-12 PAGE NO. 1

CUSTOMER MULLDREG WELL NO. 1-4 LEASE ZHOBBERBURN-C JOB TYPE CONCRETE TICKET NO. 18089

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMP		PRESSURE (PSI)	CASING	DESCRIPTION OF OPERATION AND MATERIALS
				T	C			
0310								DUPLICATION
								CMZ: 17500 SD PRODUCTION, 10' WATER, 1' LIME, 20' 1/2" P&G
								R204000 SET SPACER 45555 J 4419 SUSPENS 4531
								5 1/2" 15.5% FORT GUMMONT #60 10005 FT
								CEMT-1-8, 59.61 BONEY 1.60
								70' SPACERS, SUSPENS FORT GUMMONT
0115								START CEMENT FORT
0302								70' SPACERS, 10' P&G
0315								BREAK CEMENT, 1/2" P&G, 10' SPACERS
0509			7					PUS RA 30,
0505		5.0	5			200		MCL FLOW
			24					FIDUCIAL, 1000 GMS
			5					MCL FLOW
			34					SD 50% CAT
0520		7.0	0					DROP 500 PUS, WASHOUT PL
			25			200		START SUSP
			95			300		CAT ON BIT
			100			500		START SUSP
			105			600		
			105			700		
0535		4.7	107.8			1500		LAMPING
								RELEASE
0615								JOB COMPLETE
								THANK YOU!
								JOHN JOHNSON, LANE



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

ATHornburg C #1-4

1700 N. Waterfront Parkw ay
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

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 GR/CF: 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:

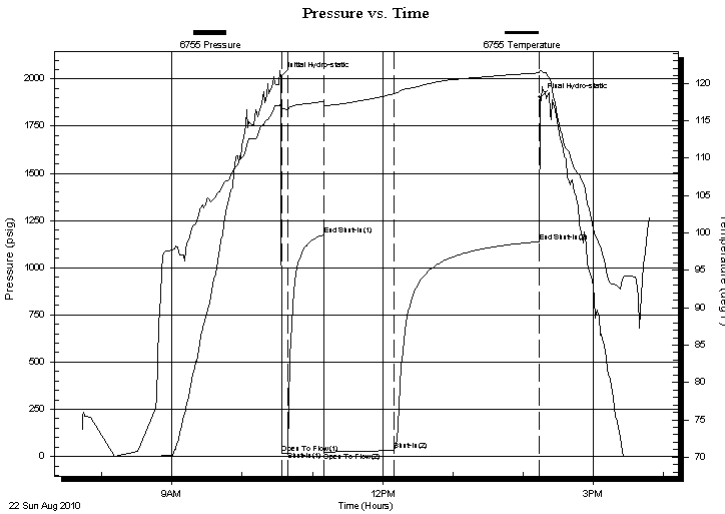
2010.08.22 @ 10:33:15

Time Off Btm:

2010.08.22 @ 14:14:30

TEST COMMENT: IFP-Weak Blow ,Built to 3/4"
ISI-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

Gas Rates

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

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 Parkw ay
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 bbbl
45.00	Drilling Mud	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

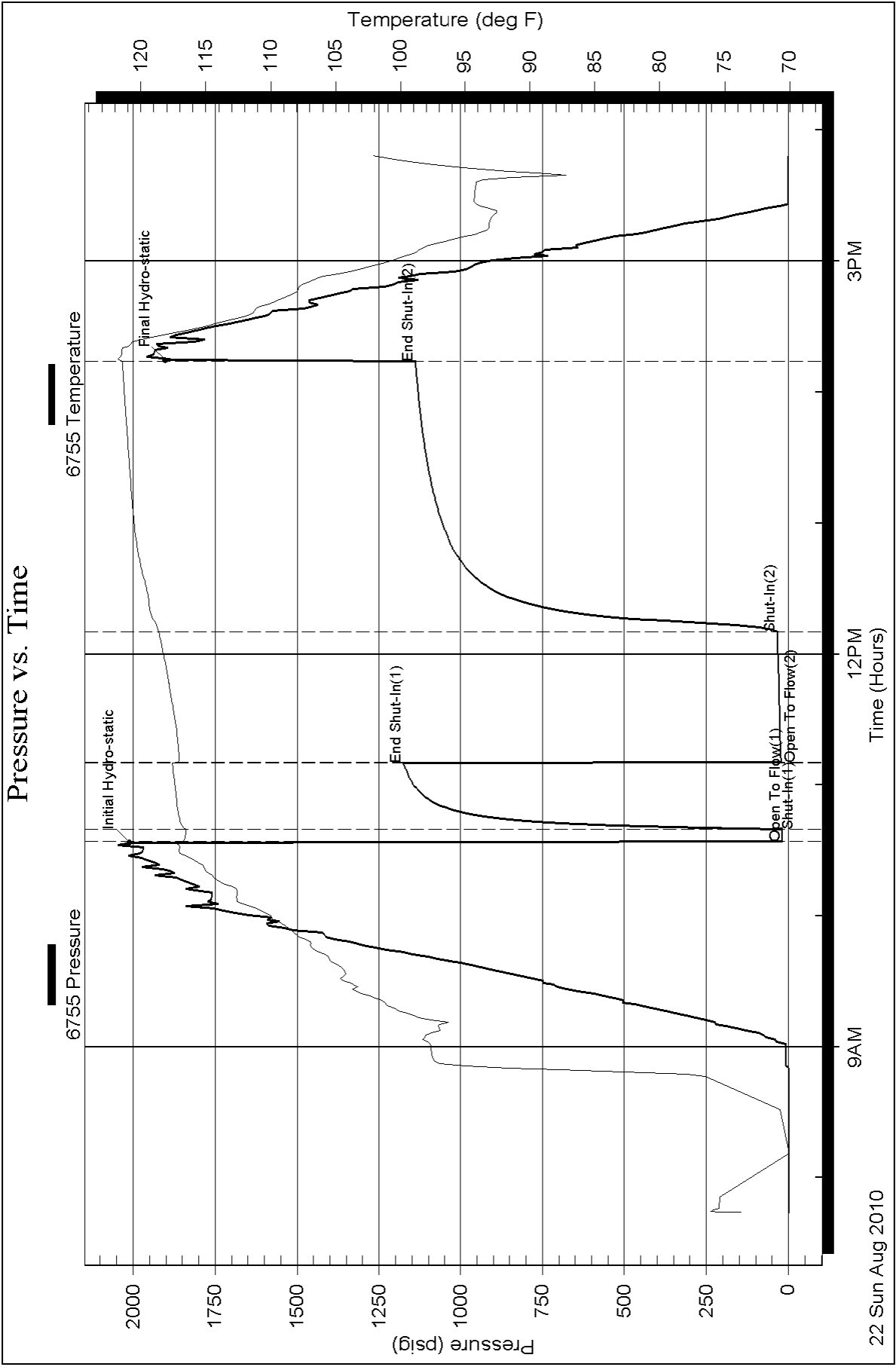
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

ATHornburg C #1-4

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

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)

Time Tool Opened: 02:21:30

Time Test Ended: 05:49:45

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

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

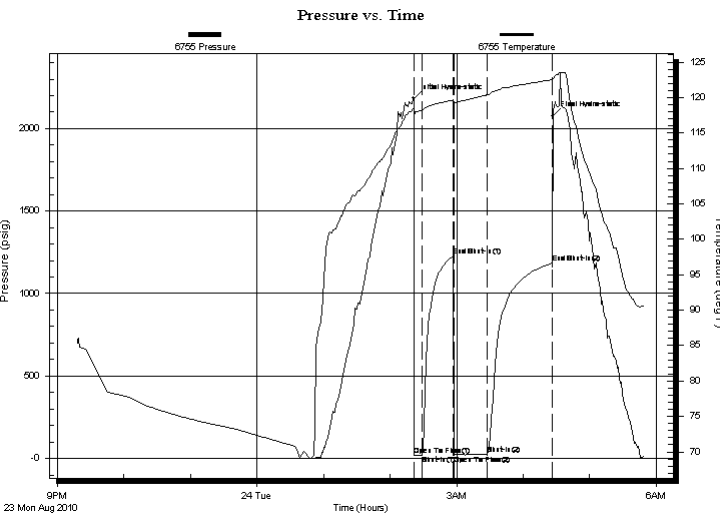
Time Off Btm: 2010.08.24 @ 04:26:45

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.

ATHornburg C #1-4

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

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:

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 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

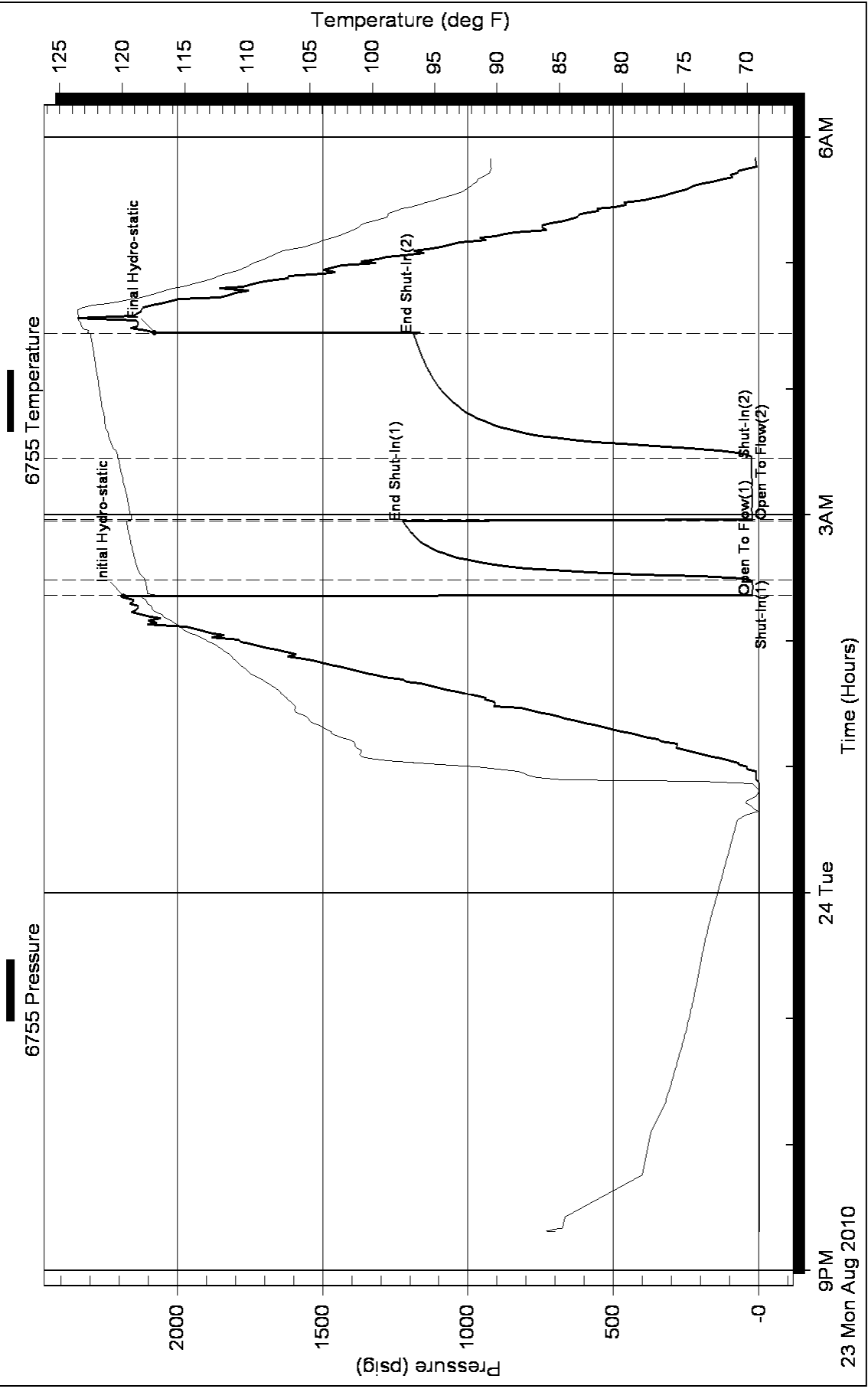
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

ATHornburg C #1-4

1700 N. Waterfront Parkw ay
 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

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:17:53

Time Test Ended: 02:58:38

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

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 GR/CF: 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

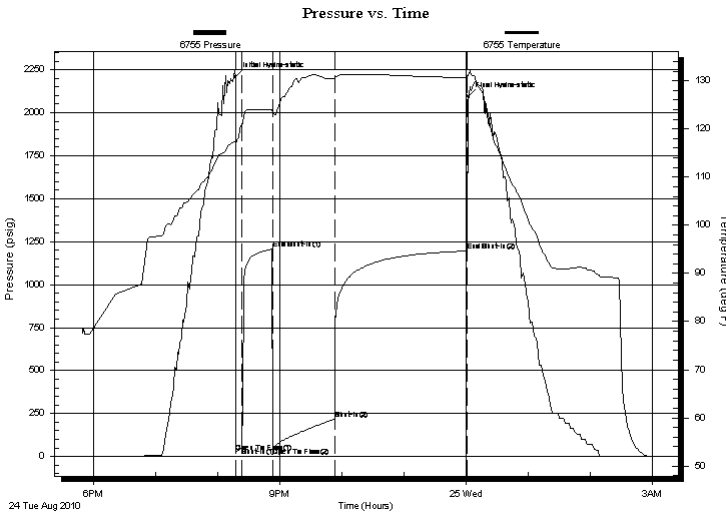
TEST COMMENT: IFP-Fair Blow ,Built to 6"

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 Parkw ay
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 bbl
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:

Pressure vs. Time

