



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: \_\_\_\_\_



1048951

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Hineman Trusts 1-6
Doc ID	1048951

Tops

Name	Top	Datum
Anhydrite	2141	+ 649
B/Anhydrite	2168	+ 622
Heebner Shale	3964	-1174
B/KC	4374	-1584
Marmaton	4396	-1696
Ft. Scott	4542	-1752
Cherokee Shale	4566	-1776
Mississippian	4640	-1850

# ALLIED CEMENTING CO., LLC. 035583

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oshtemo KS

10-12-10	SEC. 6	TWP. 19	RANGE 28	CALLED OUT	ON LOCATION 1:30pm	JOB START 4:00pm	JOB FINISH 4:30pm
DATE					COUNTY Linn	STATE IA	
LEASE	WELL # 1-6	LOCATION Dixon 35-6-3145					
OLD OR NEW (Circle one)	OWNER						

CONTRACTOR Duke #4

TYPE OF JOB Surf Ace

HOLE SIZE 12 1/4 I.D. 7.30'

CASING SIZE 8 5/8 DEPTH 279'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 13.6

EQUIPMENT

PUMP TRUCK CEMENTER Ruzzy

# 431 HELPER Ruzzy

BULK TRUCK DRIVER Tenny

# 386 DRIVER

BULK TRUCK DRIVER

#

REMARKS:

cement did circulate

approx 2 hrs

plus down @ 4:30pm

Thanks Ruzzy + crew

CHARGE TO: Mull Dr's

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

OWNER

CEMENT

AMOUNT ORDERED 165 Linn 390cc  
27052

COMMON 165 @ 1365 2352 25

POZMIX @

GEL 3 @ 2000 6120

CHLORIDE 6 @ 5715 34290

ASC @

@

@

@

@

@

@

@

@

HANDLING 174 @ 19 365 96

MILEAGE 1045 km 1.0 @ 609 609

TOTAL 3630

SERVICE

DEPTH OF JOB 229'

PUMP TRUCK CHARGE 999 00

EXTRA FOOTAGE @

MILEAGE 35 @ 7 245 00

MANIFOLD @

@

@

TOTAL 1244 00

PLUG & FLOAT EQUIPMENT

1-85/6 Plug @ 53 00

@

@

@

@

TOTAL 53 00

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS





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

TICKET CONTINUATION

TICKET No. 19069

CUSTOMER MULL DRILLING WELL Henderson Trust 1-6 DATE 2007 10 PAGE 2 OF 2

PRICE REFERENCE	SEQUENCE NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE		TOTAL		
				UNIT	PRICE	UNIT	PRICE	
327		1	50/50 polymer 2% gel	265	gal	8	75	
-		1	binders gel	400	lb	-	-	
283		1	salt	1300	lb	0	75	
286		1	halad-1	100	lb	6	00	
276		1	flocele	50	lb	1	50	
280		1	floccheck 21		1000 gal	2	50	
221		1	KCL liquid		2 gal	25	00	
290		1	D-AIR		2 gal	3	50	
581		1	SERVICE CHARGE	205		1	50	
583		1	TOTAL WEIGHT	222.55	LOADED MILES	40	TON MILES	
						445.10	TM	
							6651.35	

10/28/2010 15:31 FAX 1/9/6/8994 MUC-CHEY\_WELLS.CU 4 MUC WILCHIA 0002/003

**JOB LOG**

**SWIFT Services, Inc.**

DATE 22 OCT 10 PAGE NO.

CUSTOMER MULL OIL CO WELL NO. 4/-6 LEASE Amman Trust JOB TYPE  cement long string TICKET NO. 19069

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								265 SKS 50/50/02 20/0 gel
								4 1/2" 10.5 # pipe
								Grade shoe 4690' float collar 4645'
								PORT COLLAR 22137' shoe JT 95'
								Cont 1, 3, 5, 7, 9, 11, 13, 58
								Blocked 57
	0830							on loc TEL 114
	0940							start 4 1/2" pipe in well
	1150							Drop Ball circulate. Entole
	0130	4 3/4	5				200	Pup 460 space w/ KCL
		4 3/4	24				200	Pup 100 gal Flack
		4 3/4	5				200	Pup 460 space of KCL
	0135	4 3/4	62					Plg RH - mtt [30 SKS]
	0140	6 3/4	61				200	Mix cement 255 SKS 50/50/02 20/0 gel 10% salt
								wash out pup & lines
	0200							Release plug
		6 3/4	0				200	Displace plug
		6 3/4	70				600	[Stop rotation at 63 lbf]
	0210		74				1500	Plug down
	0215							Release pressure to truck - dried up
								wash truck
	0255							Job complete
								of Centro
								Run down & Blow



CHARGE TO: MULL Drilling  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET 19153

PAGE 1 OF 1

SERVICE LOCATIONS: NESS city KS  
 1. WELL/PROJECT NO. 1-6 LEASE Hinegan Trust COUNTY/PARISH Lane STATE KS CITY Dighton DATE 1 Nov 10 OWNER  
 2. TICKET TYPE  SERVICE CONTRACTOR Wild West RIG NAME/NO. SHIPPED VIA CT DELIVERED TO Location ORDER NO.  
 3. WELL TYPE o.7 WELL CATEGORY Development JOB PURPOSE concrete post collar WELL PERMIT NO. WELL LOCATION 3-5 1-2 3-5  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
575		1			MILEAGE TRK 114	40	mi		5.00	200.00
5760		1								
576D		1			Pump Charge		1 ea		1100.00	1100.00
330		1			SMD cement	200	sk		15.00	3000.00
276		1			flocalc	50	lb		1.50	75.00
581		1			Service Charge	300	sk		1.50	450.00
583		1			Drayage	2903	lb	597.06 TB	597.06 TB	597.06
29D		1			D-AIR	1	gal		35.00	35.00

**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

DATE SIGNED [Signature] TIME SIGNED  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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5422.06
WE UNDERSTOOD AND MET YOUR NEEDS?				5457.06
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL

Lane TAX 6.3% 195.93

5652.99

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

SWIFT OPERATOR AB Campbell APPROVAL

Thank You!



**JOB LOG**

**SWIFT Services, Inc.**

DATE 12/01/10 PAJOR NO.

CUSTOMER Muller Drilling WELL NO. 1-6 LEASE Stinson Tract JOB TYPE  cement port collar TICKET NO. 19153

CHART NO.	TIME	DATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)	DESCRIPTION OF OPERATION AND MATERIALS	
				T	C		TUBING	CASING
								320 lbs SMD w/ Anacle
								Port collar - 2137'
								2 3/8" x 4 1/2"
								on loc TRK 114
	0910					100		test to 1000 psi - held
	0945		3		400			inj rate 2 1/2 bbl @ 400 psi
	1030	4	16		600			mix SMD cement 11/2 bag
	1032	4	118		600			circulate fluid to pit
								cement to surface
								[ mixed 200 lbs of SMD - 25 to pit ]
	1035	4	6		800			Flush tubing w/ H <sub>2</sub> O
								close port collar
						800		pressure to 1000 - held
	1145		85					Reverse hole clean with H <sub>2</sub> O
	1110							wash track
	1135							job complete
								Thanks
								Steve Davis, David, & Joe





# KEVIN L. KESSLER

## CONSULTING PETROLEUM GEOLOGIST

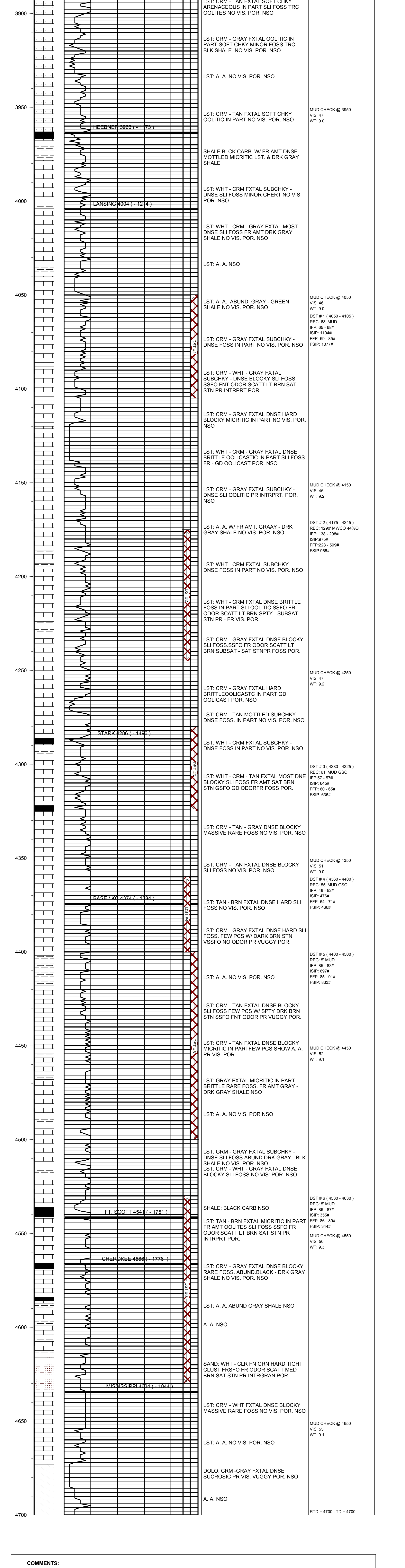
( 316 ) 522-7338

<b>OPERATOR : MULL DRILLING CO. INC.</b> <b>LEASE : HINEMAN TRUSTS WELL # : 1 - 6</b> <b>LOCATION : 1724' FSL &amp; 1718' FEL</b> <b>SEC: 06                      TWP : 19 S                      RGE : 28 W</b> <b>COUNTY : LANE                      STATE : KANSAS</b>		<b>ELEVATION</b> <b>KB : 2790</b> <b>GL : 2781</b> <b>MEASUREMENTS FROM KB</b>
<b>CONTRACTOR : DUKE DRILLING RIG # 4</b> <b>COMM : 10 / 12 / 2010                      COMP : 10 / 22 / 2010</b> <b>RTD : 4700                      LOG TD : 4700</b> <b>SAMPLES SAVED FROM : 3800                      TO: RTD</b> <b>GEOLOGICAL SUPERVISION FROM : 3800                      TO : RTD</b> <b>MUD UP : 3700                      TYPE MUD : CHEMICAL</b>		<b>CASING RECORD</b> <b>SURFACE : 8 5/8 @ 220'</b> <b>PRODUCTION :</b> <b>4 1/2 @ 4700'</b> <b>ELECTRICAL SURVEYS :</b>

FORMATION	TOP	LOG	DATUM	TOP	SAMPLE	DATUM	STRUCT. COMP.
HEEBNER	3963		- 1173	3963		- 1173	+ 27
LANSING	4004		- 1214	4004		- 1214	+ 32
STARK	4286		- 1496	4286		- 1496	+ 29
BASE / KC	4374		- 1584	4374		- 1584	+ 21
FT SCOTT	4541		- 1751	4541		- 1751	+ 24
CHEROKEE	4566		- 1776	4566		- 1776	+ 22
MISSISSIPPI	4636		- 1844	4636		- 1844	+ 26

REFERENCE WELL FOR STRUCTURAL COMPARISON :

SLAWSON # 1 HINEMAN 'G'	SEC. 06 - T 19 S - R 28 W	LANE COUNTY KANSAS
-------------------------	---------------------------	--------------------



**COMMENTS:**  
**PRODUCTION CASING WAS SET TO FURTHER EVALUATE THE PRODUCTIVITY OF THIS WELL**

KEVIN L. KESSLER



## DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC.**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

ATTN: KEVIN KESSLER

**6-19S-28W LANE**

**HINEMAN TRUST 1-6**

Start Date: 2010.10.17 @ 11:00:00

End Date: 2010.10.17 @ 18:23:30

Job Ticket #: 1038                      DST #: 1

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.10.17 @ 12:10:00

MULL DRILLING COMPANY INC. HINEMAN TRUST 1-6 6-19S-28W LANE DST # 1 LKC -EF 2010.10.17



# DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1038

**DST#: 1**

ATTN: KEVIN KESSLER

Test Start: 2010.10.17 @ 11:00:00

## GENERAL INFORMATION:

Formation: **LKC -E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:48:30

Time Test Ended: 18:23:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 62 MRT SCOTT CIT

**Interval: 4050.00 ft (KB) To 4105.00 ft (KB) (TVD)**

Reference Elevations: 2789.00 ft (KB)

Total Depth: 4105.00 ft (KB) (TVD)

2781.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6666**

**Inside**

Press @ RunDepth: 85.28 psig @ 4101.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.10.17

End Date:

2010.10.17

Last Calib.:

2010.10.17

Start Time: 11:00:00

End Time:

18:23:30

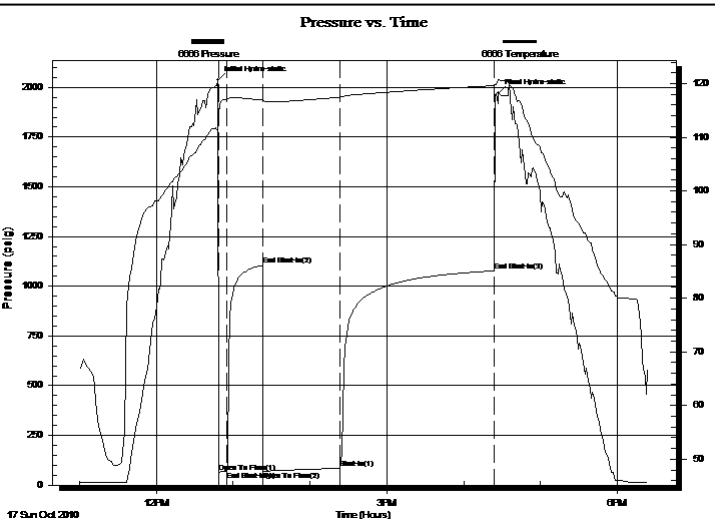
Time On Btm:

2010.10.17 @ 12:48:00

Time Off Btm:

2010.10.17 @ 16:27:00

**TEST COMMENT:** 5-INITIAL OPENING FAIR BLOW BUILT TO 2 INCHES INTO WATER  
30-INITIAL SHUT IN NO BLOW BACK  
60-FINAL OPENING WEAK BUILDING BLOW BUILT TO 3 INCHES INTO WATER  
120-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.74	111.33	Initial Hydro-static
1	65.39	114.33	Open To Flow (1)
7	68.33	117.10	End Shut-In(1)
35	1104.94	117.00	End Shut-In(2)
36	69.28	116.83	Open To Flow (2)
96	85.28	117.45	Shut-In(1)
216	1077.02	119.63	End Shut-In(3)
219	1970.12	120.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	MUD 100%MUD	0.92

## Gas Rates

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



# DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1038

**DST#: 1**

ATTN: KEVIN KESSLER

Test Start: 2010.10.17 @ 11:00:00

## GENERAL INFORMATION:

Formation: **LKC -E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:48:30

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Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 62 MRT SCOTT CIT

**Interval: 4050.00 ft (KB) To 4105.00 ft (KB) (TVD)**

Reference Elevations: 2789.00 ft (KB)

Total Depth: 4105.00 ft (KB) (TVD)

2781.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6651**

**Outside**

Press @ RunDepth: 1079.03 psig @ 4102.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.10.17

End Date:

2010.10.17

Last Calib.:

2010.10.17

Start Time: 11:08:00

End Time:

18:29:30

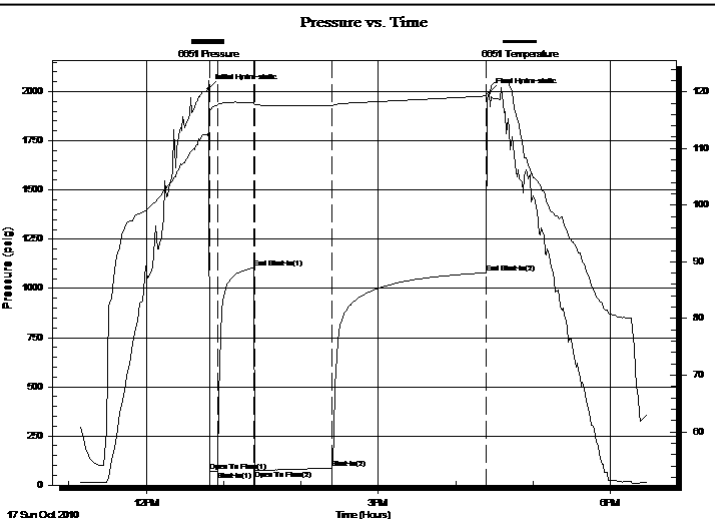
Time On Btm:

2010.10.17 @ 12:48:00

Time Off Btm:

2010.10.17 @ 16:26:00

**TEST COMMENT:** 5-INITIAL OPENING FAIR BLOW BUILT TO 2 INCHES INTO WATER  
30-INITIAL SHUT IN NO BLOW BACK  
60-FINAL OPENING WEAK BUILDING BLOW BUILT TO 3 INCHES INTO WATER  
120-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2013.43	112.91	Initial Hydro-static
1	70.96	115.74	Open To Flow (1)
8	72.58	117.64	Shut-In(1)
36	1104.74	118.07	End Shut-In(1)
36	74.45	117.69	Open To Flow (2)
96	87.25	117.58	Shut-In(2)
216	1079.03	119.27	End Shut-In(2)
218	1993.66	119.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	MUD 100%MUD	0.92

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1038

**DST#: 1**

ATTN: KEVIN KESSLER

Test Start: 2010.10.17 @ 11:00:00

## Tool Information

Drill Pipe:	Length: 4035.00 ft	Diameter: 3.88 inches	Volume: 59.01 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 59.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	0.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4050.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHUT IN TOOL	5.00			4040.00	
HYD S.I. Tool	5.00			4045.00	
TRAVEL COLER	2.00			4047.00	
Packer	3.00			4050.00	15.00 Bottom Of Top Packer
TRAVEL COLER	2.00			4052.00	
PACKER	3.00			4055.00	
CH OVER SUB	0.75			4055.75	
DRILL PIPE	31.50			4087.25	
CH OVER SUB	0.75			4088.00	
Anchor	12.00			4100.00	
Recorder	1.00	6666	Inside	4101.00	
Recorder	1.00	6651	Outside	4102.00	
BULL PLUG	3.00			4105.00	55.00 Anchor Tool

**Total Tool Length: 70.00**





# DRILL STEM TEST REPORT

## FLUID SUMMARY

MULL DRILLING COMPANY INC.  
1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206  
ATTN: KEVIN KESSLER

**HINEMAN TRUST 1-6**  
**6-19S-28W LANE**  
Job Ticket: 1038      **DST#: 1**  
Test Start: 2010.10.17 @ 11:00:00

### 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: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 2800.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

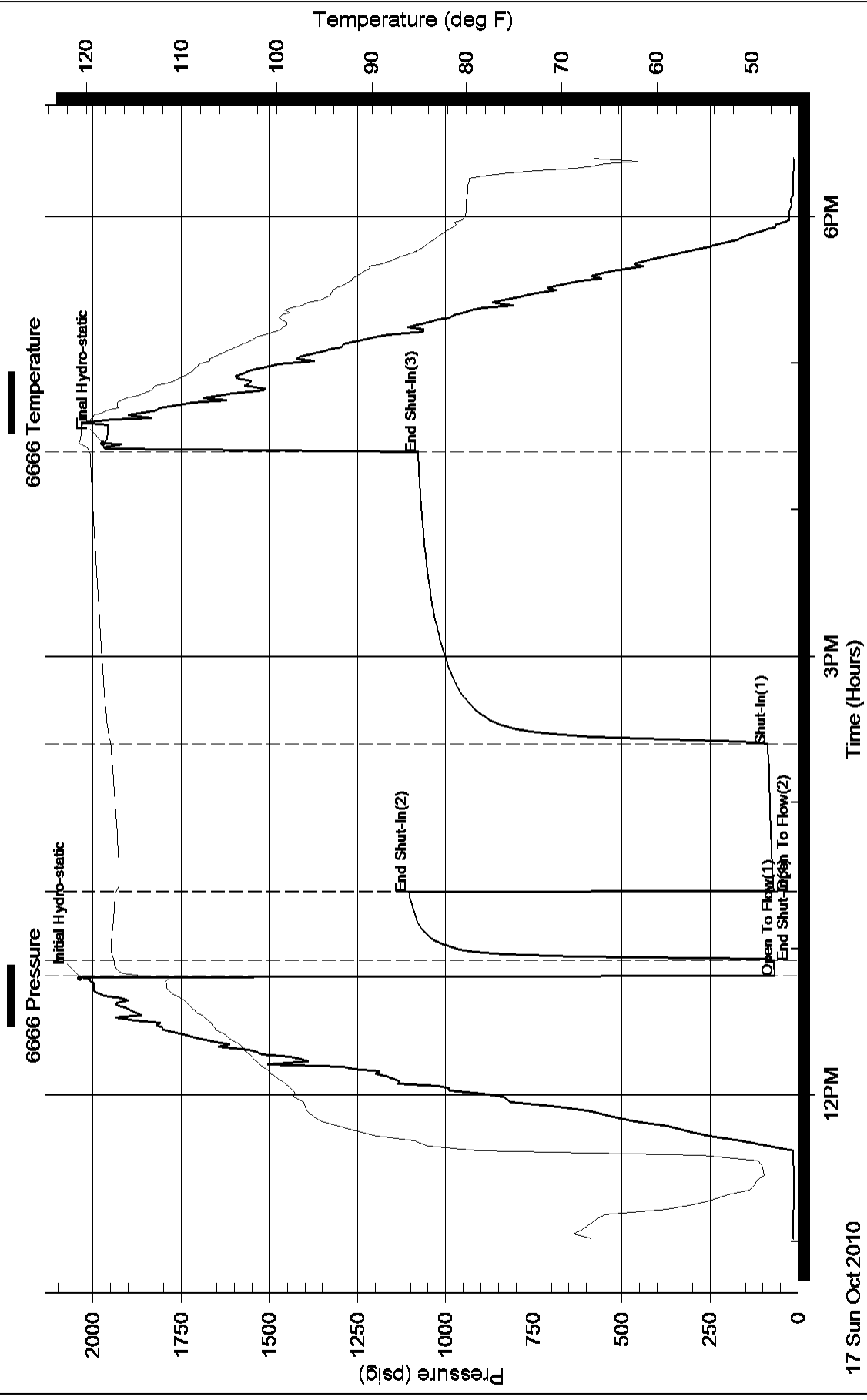
### Recovery Information

Recovery Table

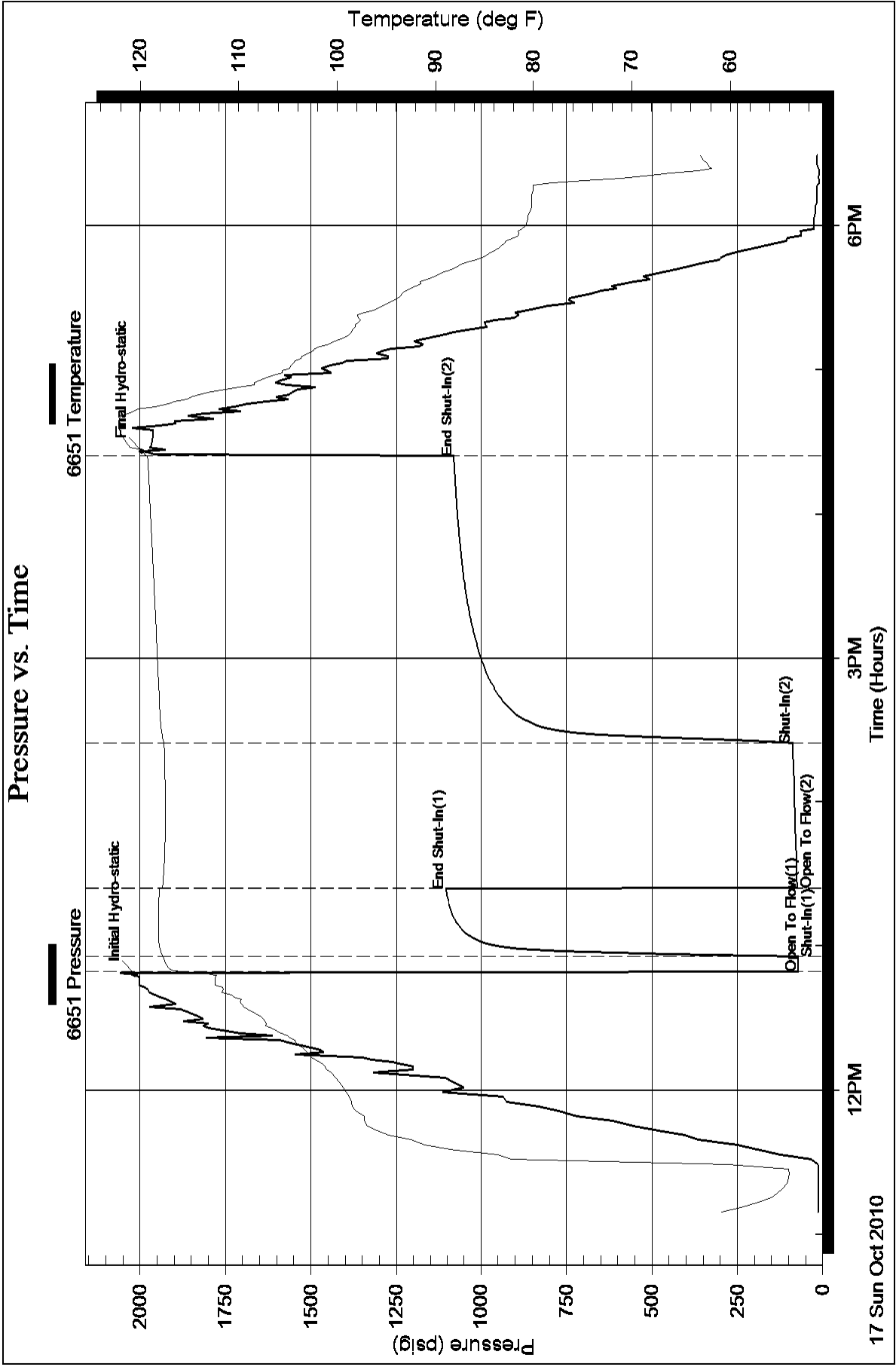
Length ft	Description	Volume bbl
63.00	MUD 100%MUD	0.921

Total Length: 63.00 ft      Total Volume: 0.921 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

# Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC.**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

ATTN: KEVIN KESSLER

**6-19S-28W LANE**

**HINEMAN TRUST 1-6**

Start Date: 2010.10.18 @ 11:00:00

End Date: 2010.10.18 @ 20:17:00

Job Ticket #: 1039                      DST #: 2

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.10.18 @ 12:04:12

MULL DRILLING COMPANY INC. HINEMAN TRUST 1-6 6-19S-28W LANE DST # 2 LKC-I-J- 2010.10.18



# DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1039

**DST#: 2**

ATTN: KEVIN KESSLER

Test Start: 2010.10.18 @ 11:00:00

## GENERAL INFORMATION:

Formation: **LKC -I-J-**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:30:00

Time Test Ended: 20:17:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 62 MRT SCOTT CIT

**Interval: 4175.00 ft (KB) To 4245.00 ft (KB) (TVD)**

Reference Elevations: 2789.00 ft (KB)

Total Depth: 4245.00 ft (KB) (TVD)

2781.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 6666**

**Inside**

Press @ RunDepth: 599.27 psig @ 4241.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.10.18

End Date: 2010.10.18

Last Calib.: 2010.10.18

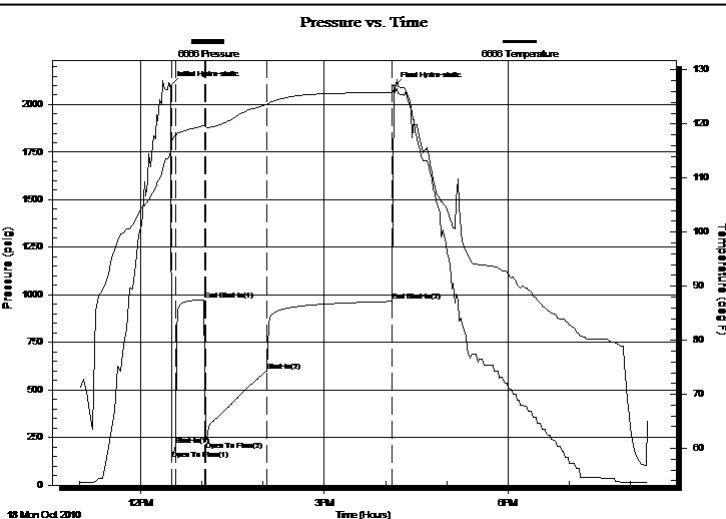
Start Time: 11:00:00

End Time: 20:17:00

Time On Btm: 2010.10.18 @ 12:29:00

Time Off Btm: 2010.10.18 @ 16:08:30

**TEST COMMENT:** 5-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 3 MINS  
30-INITIAL SHUT IN WEAK BLOW BACK  
60-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 3 MINS  
120-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2099.51	114.81	Initial Hydro-static
1	138.38	116.34	Open To Flow (1)
6	208.22	117.92	Shut-In(1)
34	975.26	119.67	End Shut-In(1)
35	228.00	119.45	Open To Flow (2)
95	599.27	123.61	Shut-In(2)
218	965.87	125.83	End Shut-In(2)
220	2095.12	126.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
480.00	GASSY OIL CUT MUD	7.02
0.00	10%GAS 50%OIL 40%MUD	0.00
300.00	GASSY OIL TRACE OF WATER	4.39
0.00	35%GAS 55%OIL 10%WATER	0.00
450.00	WATER CUT GASSY OIL	6.58
0.00	30%WATER 35%GAS 35%OIL	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1039

**DST#: 2**

ATTN: KEVIN KESSLER

Test Start: 2010.10.18 @ 11:00:00

## GENERAL INFORMATION:

Formation: **LKC -I-J-**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:30:00

Time Test Ended: 20:17:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 62 MRT SCOTT CIT

**Interval: 4175.00 ft (KB) To 4245.00 ft (KB) (TVD)**

Reference Elevations: 2789.00 ft (KB)

Total Depth: 4245.00 ft (KB) (TVD)

2781.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 6651**

**Outside**

Press @ RunDepth: 968.19 psig @ 4242.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.10.18

End Date: 2010.10.18

Last Calib.: 2010.10.18

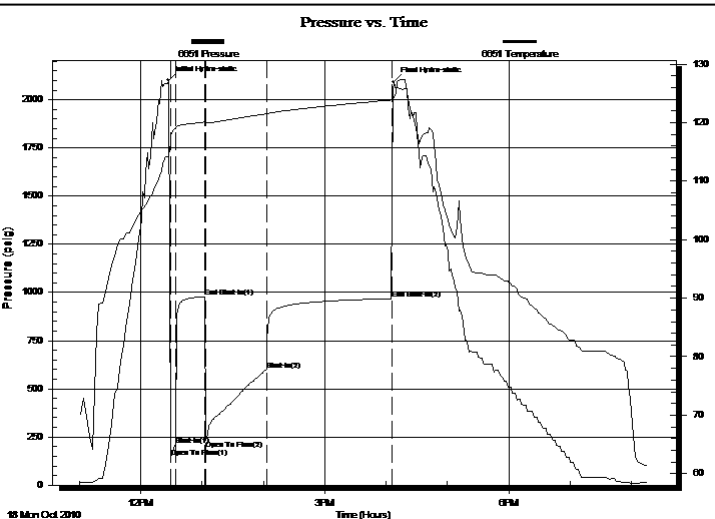
Start Time: 11:00:00

End Time: 20:18:00

Time On Btm: 2010.10.18 @ 12:27:00

Time Off Btm: 2010.10.18 @ 16:07:30

**TEST COMMENT:** 5-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 3 MINS  
30-INITIAL SHUT IN WEAK BLOW BACK  
60-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 3 MINS  
120-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2101.47	114.26	Initial Hydro-static
3	144.82	117.58	Open To Flow (1)
7	208.75	119.02	Shut-In(1)
36	977.76	120.11	End Shut-In(1)
36	233.17	119.93	Open To Flow (2)
96	599.56	121.50	Shut-In(2)
219	968.19	123.86	End Shut-In(2)
221	2093.36	124.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
480.00	GASSY OIL CUT MUD	7.02
0.00	10%GAS 50%OIL 40%MUD	0.00
300.00	GASSY OIL TRACE OF WATER	4.39
0.00	35%GAS 55%OIL 10%WATER	0.00
450.00	WATER CUT GASSY OIL	6.58
0.00	30%WATER 35%GAS 35%OIL	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1039

**DST#: 2**

ATTN: KEVIN KESSLER

Test Start: 2010.10.18 @ 11:00:00

## Tool Information

Drill Pipe:	Length: 4153.00 ft	Diameter: 3.88 inches	Volume: 60.73 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 60.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4175.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHUT IN TOOL	5.00			4157.00	
HYD S.I. Tool	5.00			4162.00	
jars	6.00			4168.00	
safty joint	2.00			4170.00	
TRAVEL COLER	2.00			4172.00	
Packer	3.00			4175.00	23.00 Bottom Of Top Packer
travel collar	2.00			4177.00	70.00 Tool Interval
Packer	3.00			4180.00	
change over sub	0.75			4180.75	
drill pipe	31.50			4212.25	
change over sub	0.75			4213.00	
Perforations	27.00			4240.00	
Recorder	1.00	6666	Inside	4241.00	
Recorder	1.00	6651	Outside	4242.00	
bull plug	3.00			4245.00	1000092.00 Bottom Packers & Anchor

**Total Tool Length: 93.00**



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

MULL DRILLING COMPANY INC.  
 1700 N WATERFRONT PKWY BLDG 1200  
 WICHITA KS 67206  
 ATTN: KEVIN KESSLER

**HINEMAN TRUST 1-6**  
**6-19S-28W LANE**  
 Job Ticket: 1039      **DST#: 2**  
 Test Start: 2010.10.18 @ 11:00:00

## 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: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2800.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
480.00	GASSY OIL CUT MUD	7.020
0.00	10%GAS 50%OIL 40%MUD	0.000
300.00	GASSY OIL TRACE OF WATER	4.387
0.00	35%GAS 55%OIL 10%WATER	0.000
450.00	WATER CUT GASSY OIL	6.581
0.00	30%WATER 35%GAS 35%OIL	0.000
60.00	MUDDY WATER TRACE OF OIL	0.877
0.00	15%MUD 80%WATER 5%OIL	0.000

Total Length: 1290.00 ft      Total Volume: 18.865 bbl

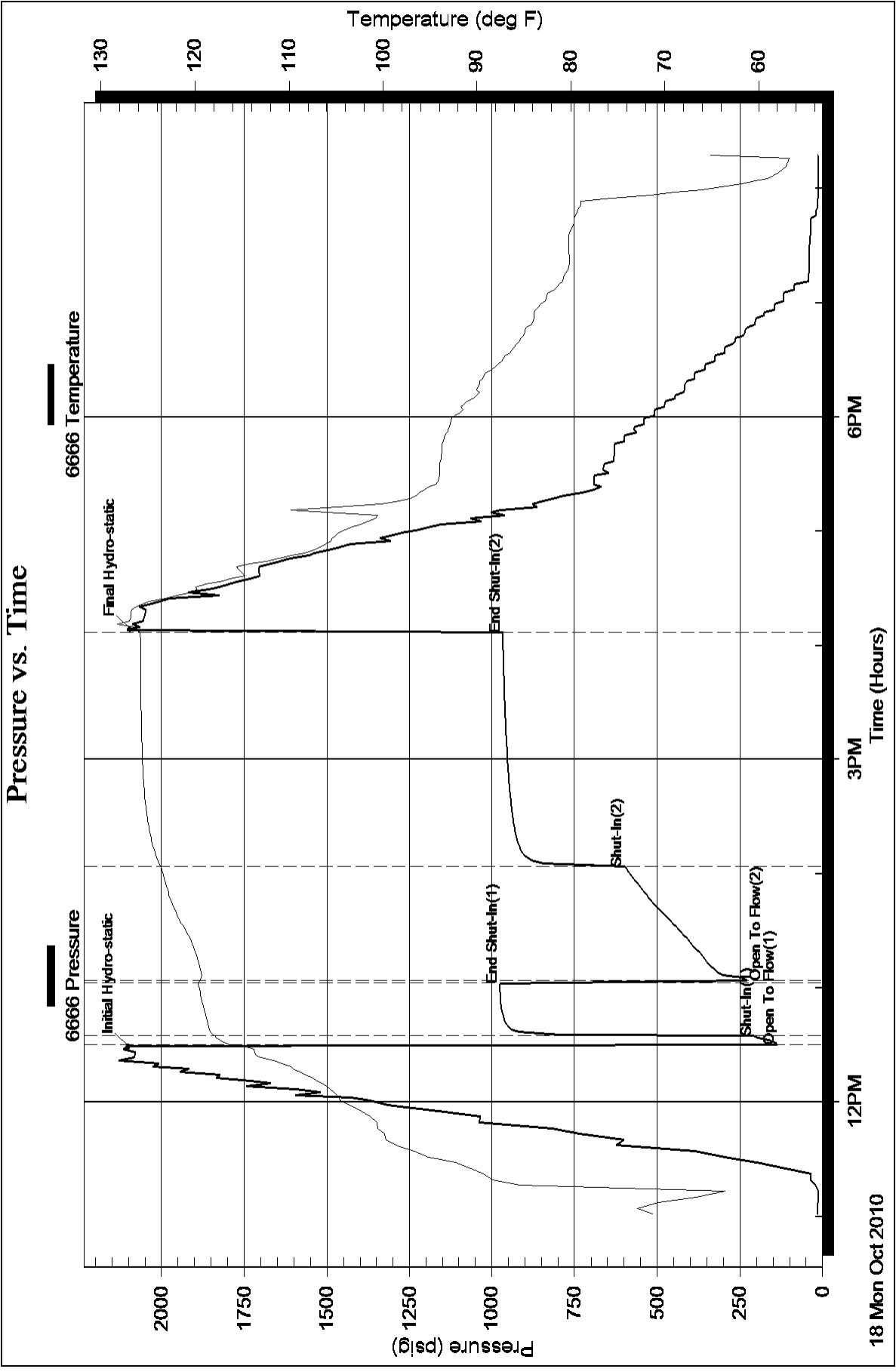
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

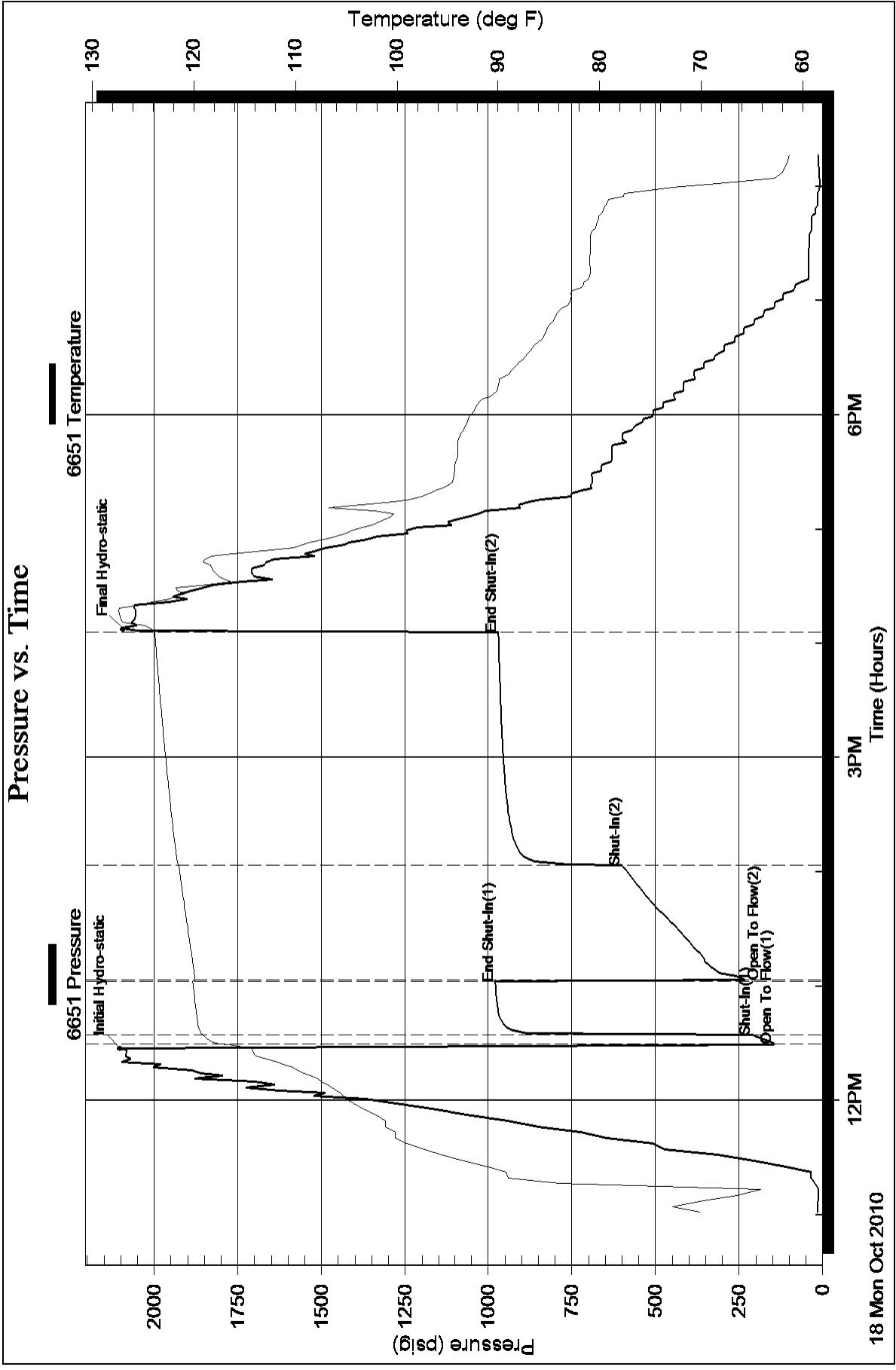
Recovery Comments: GRAVITY OF OIL 24 CORRECTED



### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC.**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

ATTN: KEVIN KESSLER

**6-19S-28W LANE**

**HINEMAN TRUST 1-6**

Start Date: 2010.10.19 @ 05:00:00

End Date: 2010.10.19 @ 10:37:30

Job Ticket #: 1040                      DST #: 3

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.10.19 @ 05:48:00



# DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1040

**DST#: 3**

ATTN: KEVIN KESSLER

Test Start: 2010.10.19 @ 05:00:00

## GENERAL INFORMATION:

Formation: **LKC -K-**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:33:00

Time Test Ended: 10:37:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 62 MRT SCOTT CIT

**Interval: 4280.00 ft (KB) To 4325.00 ft (KB) (TVD)**

Reference Elevations: 2789.00 ft (KB)

Total Depth: 4325.00 ft (KB) (TVD)

2781.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6651**

**Outside**

Press @ RunDepth: 65.86 psig @ 4322.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.10.19

End Date:

2010.10.19

Last Calib.:

2010.10.19

Start Time: 05:00:00

End Time:

10:37:30

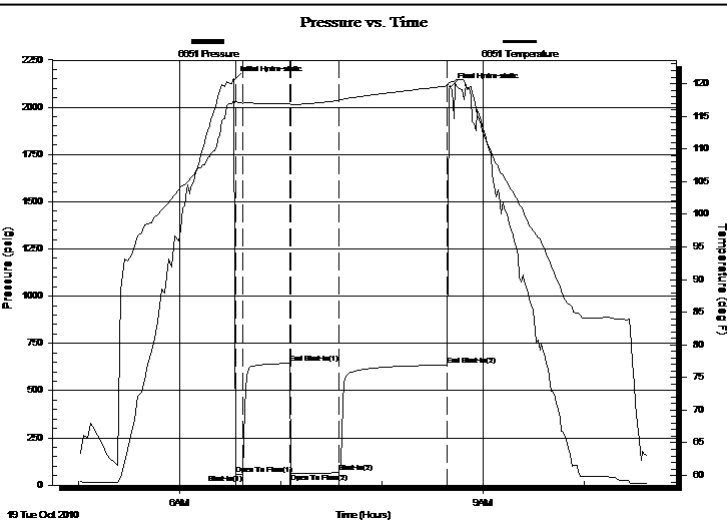
Time On Btm:

2010.10.19 @ 06:32:00

Time Off Btm:

2010.10.19 @ 08:40:30

**TEST COMMENT:** 5-INITIAL OPENING SURFACE BLOW  
30-INITIAL SHUT IN NO BLOW BACK  
30-FINAL OPENING SURFACE BLOW  
60-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2142.86	117.55	Initial Hydro-static
1	57.74	117.29	Open To Flow (1)
5	57.02	117.00	Shut-In(1)
33	645.40	116.98	End Shut-In(1)
34	60.24	116.74	Open To Flow (2)
63	65.86	117.42	Shut-In(2)
127	635.91	119.65	End Shut-In(2)
129	2105.47	120.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	OIL 100% OIL	0.00
60.00	MUD 100% MUD	0.88

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1040

**DST#: 3**

ATTN: KEVIN KESSLER

Test Start: 2010.10.19 @ 05:00:00

## Tool Information

Drill Pipe:	Length: 4258.00 ft	Diameter: 3.88 inches	Volume: 62.27 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 1.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4280.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHUT IN TOOL	5.00			4262.00	
HYD S.I. Tool	5.00			4267.00	
jars	6.00			4273.00	
safty joint	2.00			4275.00	
TRAVEL COLER	2.00			4277.00	
Packer	3.00			4280.00	23.00 Bottom Of Top Packer
travel collar	2.00			4282.00	45.00 Tool Interval
Packer	3.00			4285.00	
Anchor	35.00			4320.00	
Recorder	1.00	6666	Inside	4321.00	
Recorder	1.00	6651	Outside	4322.00	
BULL PLUG	3.00			4325.00	1000067.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

MULL DRILLING COMPANY INC.  
1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206  
ATTN: KEVIN KESSLER

**HINEMAN TRUST 1-6**  
**6-19S-28W LANE**  
Job Ticket: 1040      **DST#: 3**  
Test Start: 2010.10.19 @ 05:00:00

## 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: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

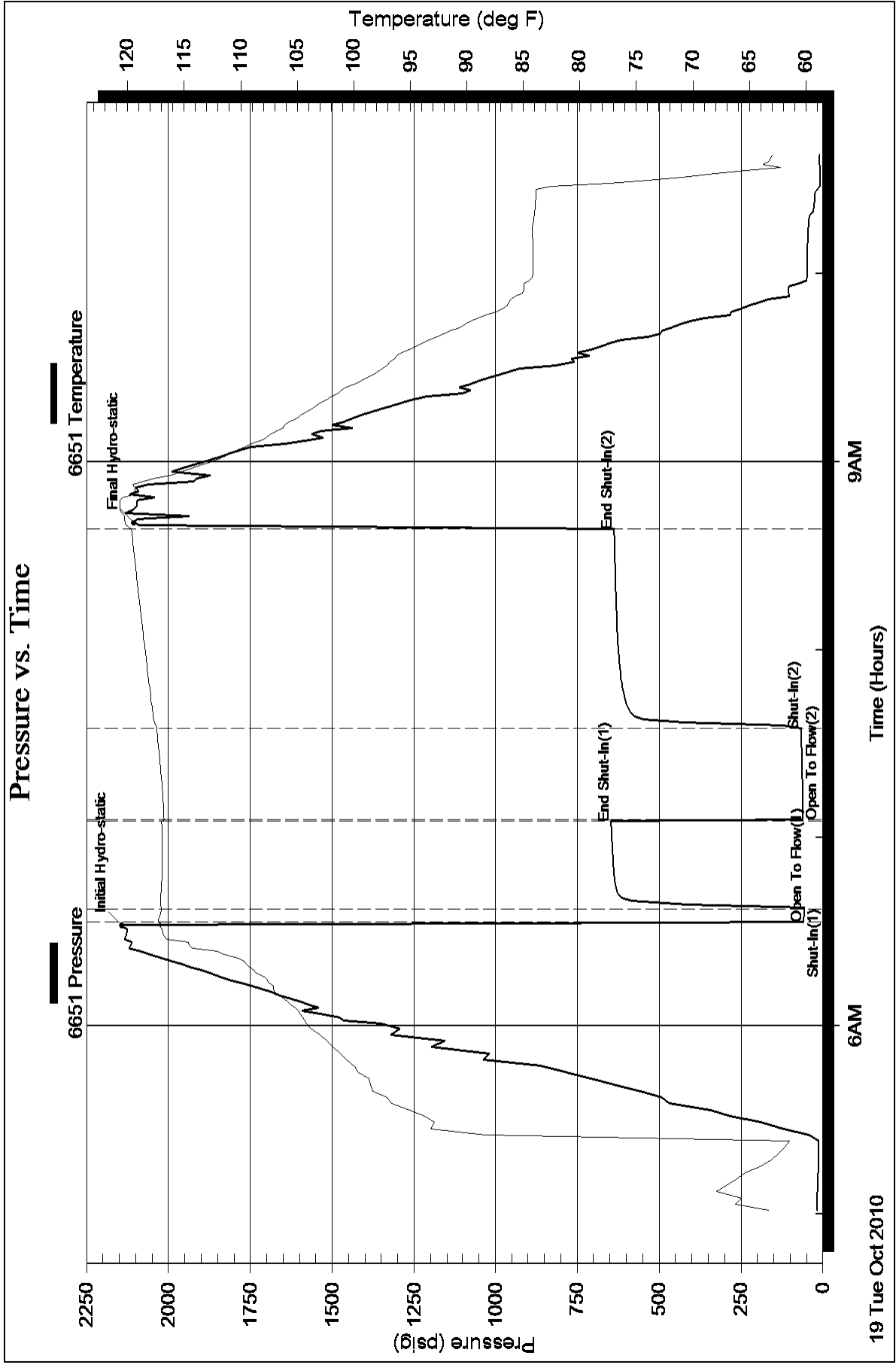
Length ft	Description	Volume bbl
1.00	OIL 100% OIL	0.000
60.00	MUD 100%MUD	0.877

Total Length: 61.00 ft      Total Volume: 0.877 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC.**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

ATTN: KEVIN KESSLER

**6-19S-28W LANE**

**HINEMAN TRUST 1-6**

Start Date: 2010.10.20 @ 01:00:00

End Date: 2010.10.20 @ 08:25:00

Job Ticket #: 1041                      DST #: 4

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.10.20 @ 01:54:49

MULL DRILLING COMPANY INC.

HINEMAN TRUST 1-6

6-19S-28W LANE

DST # 4

PLEZSANTON

2010.10.20





# DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1041

**DST#: 4**

ATTN: KEVIN KESSLER

Test Start: 2010.10.20 @ 01:00:00

## GENERAL INFORMATION:

Formation: **PLEZSANTON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:08:30

Time Test Ended: 08:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 62 MRT SCOTT CIT

**Interval: 4360.00 ft (KB) To 4400.00 ft (KB) (TVD)**

Reference Elevations: 2789.00 ft (KB)

Total Depth: 4400.00 ft (KB) (TVD)

2781.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6666**

**Inside**

Press @ RunDepth: 71.44 psig @ 4396.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.10.20

End Date: 2010.10.20

Last Calib.: 2010.10.20

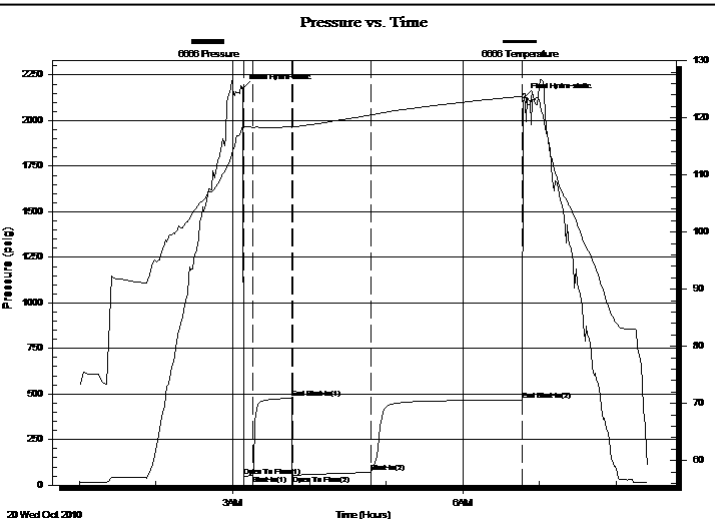
Start Time: 01:00:00

End Time: 08:25:00

Time On Btm: 2010.10.20 @ 03:08:00

Time Off Btm: 2010.10.20 @ 06:48:00

**TEST COMMENT:** 5-INITIAL OPENING WEAK BLOW BUILT TO 1 INCHES INTO WATER  
30-INITIAL SHUT IN NO BLOW BACK  
60-FINAL OPENING WEAK BLOW BUILT TO 3 INCHES INTO WATER  
120-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.19	118.86	Initial Hydro-static
1	49.41	118.30	Open To Flow (1)
8	52.47	118.35	Shut-In(1)
38	476.30	118.51	End Shut-In(1)
39	54.35	118.45	Open To Flow (2)
100	71.44	120.49	Shut-In(2)
219	466.35	123.77	End Shut-In(2)
220	2123.85	124.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
55.00	MUD GODD SHOW OF OIL 95%M5%OIL	0.80

## Gas Rates

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



# DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1041

**DST#: 4**

ATTN: KEVIN KESSLER

Test Start: 2010.10.20 @ 01:00:00

## GENERAL INFORMATION:

Formation: **PLEZSANTON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:08:30

Time Test Ended: 08:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 62 MRT SCOTT CIT

**Interval: 4360.00 ft (KB) To 4400.00 ft (KB) (TVD)**

Reference Elevations: 2789.00 ft (KB)

Total Depth: 4400.00 ft (KB) (TVD)

2781.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6651**

**Outside**

Press @ RunDepth: 472.17 psig @ 4397.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.10.20

End Date: 2010.10.20

Last Calib.: 2010.10.20

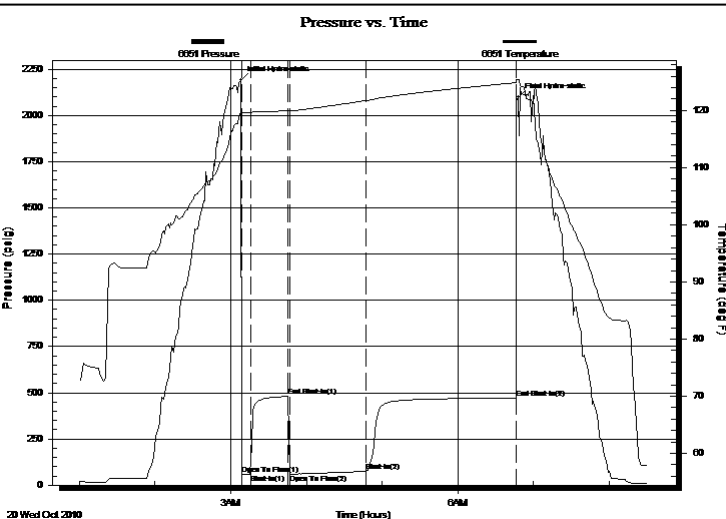
Start Time: 01:00:00

End Time: 08:30:30

Time On Btm: 2010.10.20 @ 03:08:00

Time Off Btm: 2010.10.20 @ 06:48:00

**TEST COMMENT:** 5-INITIAL OPENING WEAK BLOW BUILT TO 1 INCHES INTO WATER  
30-INITIAL SHUT IN NO BLOW BACK  
60-FINAL OPENING WEAK BLOW BUILT TO 3 INCHES INTO WATER  
120-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2190.22	119.96	Initial Hydro-static
1	55.88	119.60	Open To Flow (1)
8	59.30	119.63	Shut-In(1)
38	479.57	120.01	End Shut-In(1)
39	59.74	119.91	Open To Flow (2)
100	75.28	121.73	Shut-In(2)
218	472.17	124.84	End Shut-In(2)
220	2097.50	125.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
55.00	MUD GODD SHOW OF OIL 95%M5%OIL	0.80

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1041

**DST#: 4**

ATTN: KEVIN KESSLER

Test Start: 2010.10.20 @ 01:00:00

## Tool Information

Drill Pipe:	Length: 4338.00 ft	Diameter: 3.88 inches	Volume: 63.44 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 63.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4360.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHUT IN TOOL	5.00			4342.00	
HYD S.I. Tool	5.00			4347.00	
jars	6.00			4353.00	
safty joint	2.00			4355.00	
TRAVEL COLER	2.00			4357.00	
Packer	3.00			4360.00	23.00 Bottom Of Top Packer
travel collar	2.00			4362.00	40.00 Tool Interval
Packer	3.00			4365.00	
Anchor	30.00			4395.00	
Recorder	1.00	6666	Inside	4396.00	
Recorder	1.00	6651	Outside	4397.00	
BULL PLUG	3.00			4400.00	1000062.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1041

**DST#: 4**

ATTN: KEVIN KESSLER

Test Start: 2010.10.20 @ 01:00:00

### 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:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbbl
55.00	MUD GODD SHOW OF OIL 95%M5%OIL	0.804

Total Length: 55.00 ft      Total Volume: 0.804 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

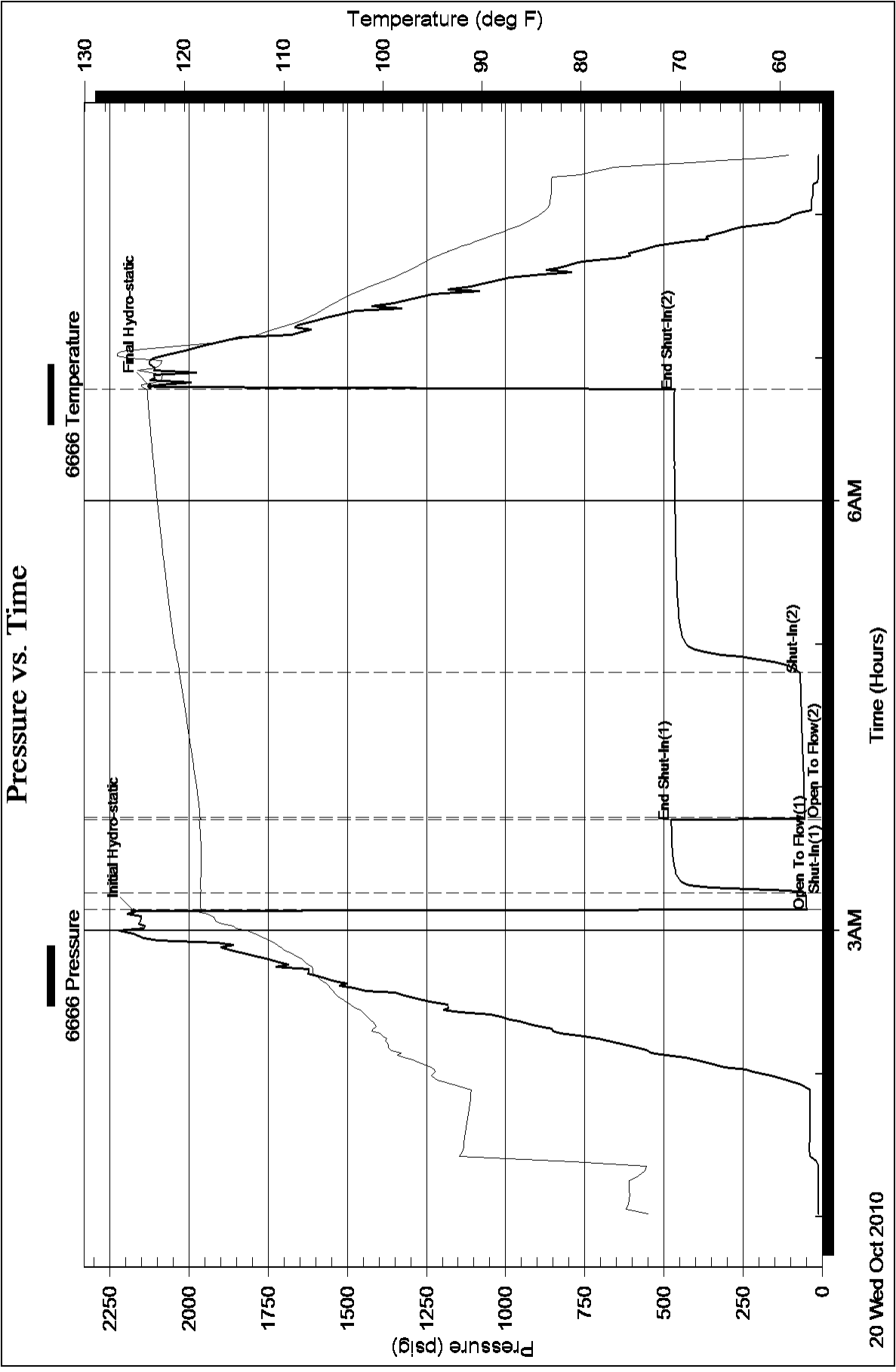
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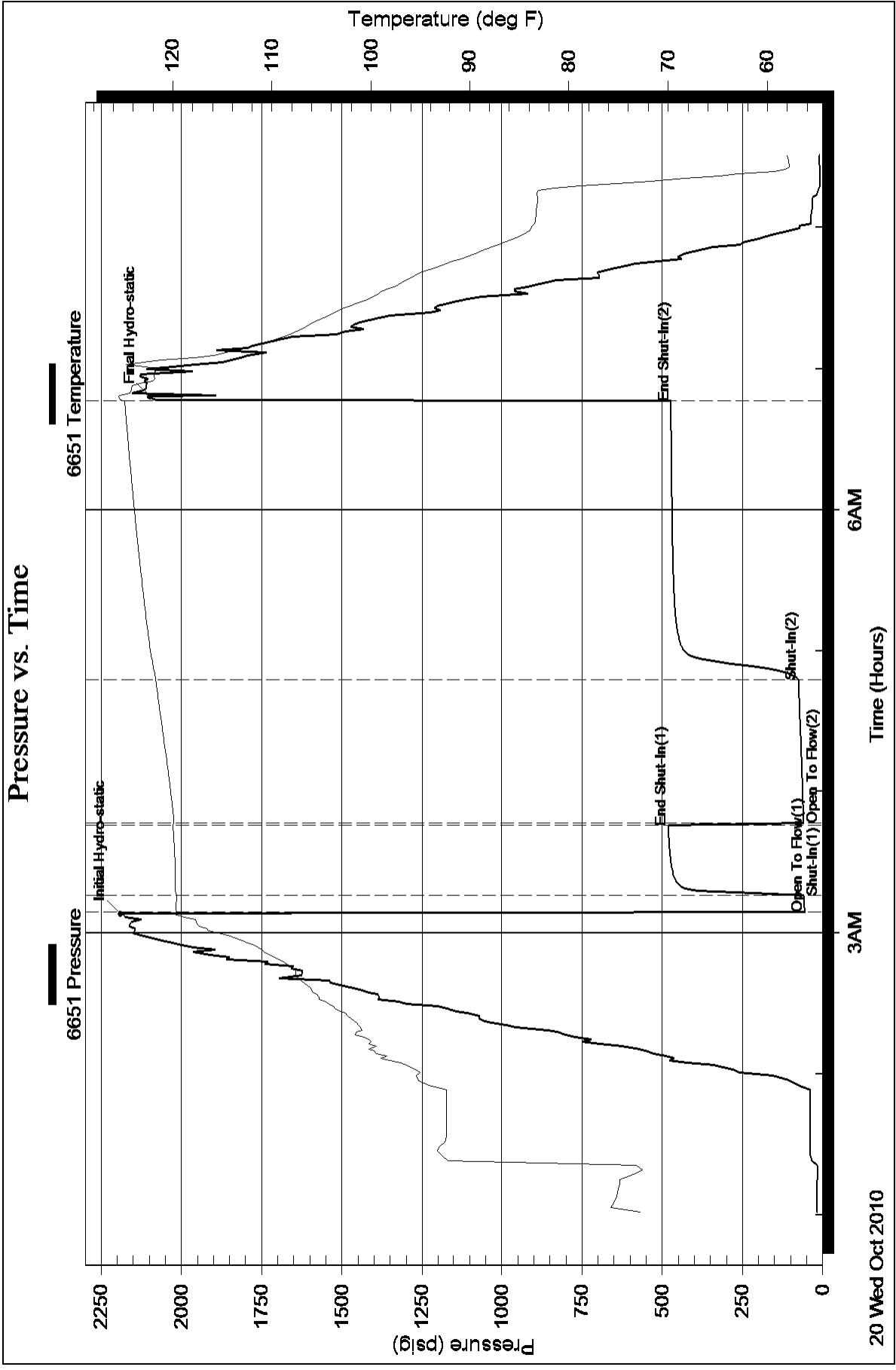
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC.**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

ATTN: KEVIN KESSLER

**6-19S-28W LANE**

**HINEMAN TRUST 1-6**

Start Date: 2010.10.20 @ 21:00:00

End Date: 2010.10.21 @ 02:34:00

Job Ticket #: 1042                      DST #: 5

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.10.20 @ 21:50:38

MULL DRILLING COMPANY INC. HINEMAN TRUST 1-6 6-19S-28W LANE DST # 5 MARM 2010.10.20



# DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1042

**DST#: 5**

ATTN: KEVIN KESSLER

Test Start: 2010.10.20 @ 21:00:00

## GENERAL INFORMATION:

Formation: **MARM**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:53:30

Time Test Ended: 02:34:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 62 M SCOTT CITY

**Interval: 4400.00 ft (KB) To 4500.00 ft (KB) (TVD)**

Reference Elevations: 2789.00 ft (KB)

Total Depth: 4500.00 ft (KB) (TVD)

2781.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6651**

**Inside**

Press @ Run Depth: 91.60 psig @ 4496.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.10.20

End Date:

2010.10.21

Last Calib.: 2010.10.20

Start Time: 21:00:00

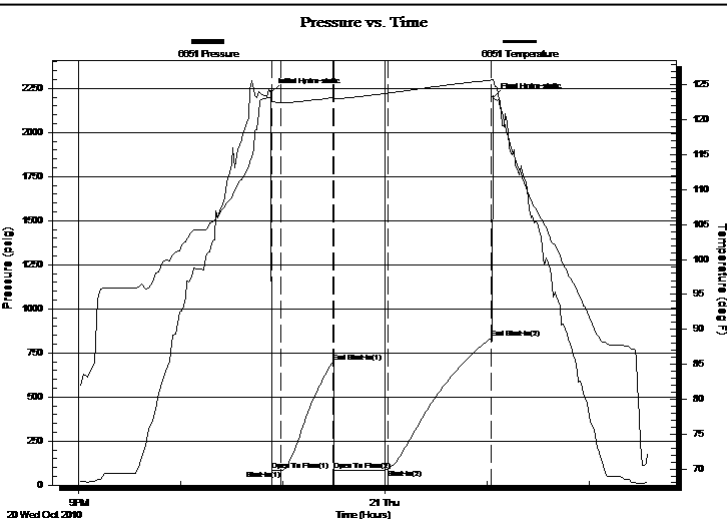
End Time:

02:34:00

Time On Btm: 2010.10.20 @ 22:53:00

Time Off Btm: 2010.10.21 @ 01:03:30

**TEST COMMENT:** 5-INITIAL OPENING SURFACE BLOW  
30-INITIAL SHUT IN NO BLOW BACK  
30-FINAL OPENING NO BLOW  
60-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.49	123.25	Initial Hydro-static
1	85.59	122.64	Open To Flow (1)
6	83.96	122.49	Shut-In(1)
36	697.36	123.18	End Shut-In(1)
37	85.55	123.03	Open To Flow (2)
69	91.60	123.83	Shut-In(2)
129	833.86	125.71	End Shut-In(2)
131	2198.85	125.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD 100%MUD	0.07

## Gas Rates

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





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1042

**DST#: 5**

ATTN: KEVIN KESSLER

Test Start: 2010.10.20 @ 21:00:00

## Tool Information

Drill Pipe:	Length: 4378.00 ft	Diameter: 3.88 inches	Volume: 64.02 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 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: 64.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4400.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	100.00 ft				
Tool Length:	123.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
SHUT IN TOOL	5.00			4382.00		
HYD S.I. Tool	5.00			4387.00		
jars	6.00			4393.00		
safty joint	2.00			4395.00		
TRAVEL COLER	2.00			4397.00		
Packer	3.00			4400.00	23.00	Bottom Of Top Packer
travel collar	2.00			4402.00	100.00	Tool Interval
Packer	3.00			4405.00		
change over sub	0.75			4405.75		
drill pipe	62.50			4468.25		
change over sub	0.75			4469.00		
Perforations	26.00			4495.00		
Recorder	1.00	6651	Inside	4496.00		
Recorder	1.00		Outside	4497.00		
bull plug	3.00			4500.00	1000122.00	Bottom Packers & Anchor

**Total Tool Length: 123.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

MULL DRILLING COMPANY INC.  
1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206  
ATTN: KEVIN KESSLER

**HINEMAN TRUST 1-6**  
**6-19S-28W LANE**  
Job Ticket: 1042      **DST#: 5**  
Test Start: 2010.10.20 @ 21:00:00

### 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: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4100.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD 100%MUD	0.073

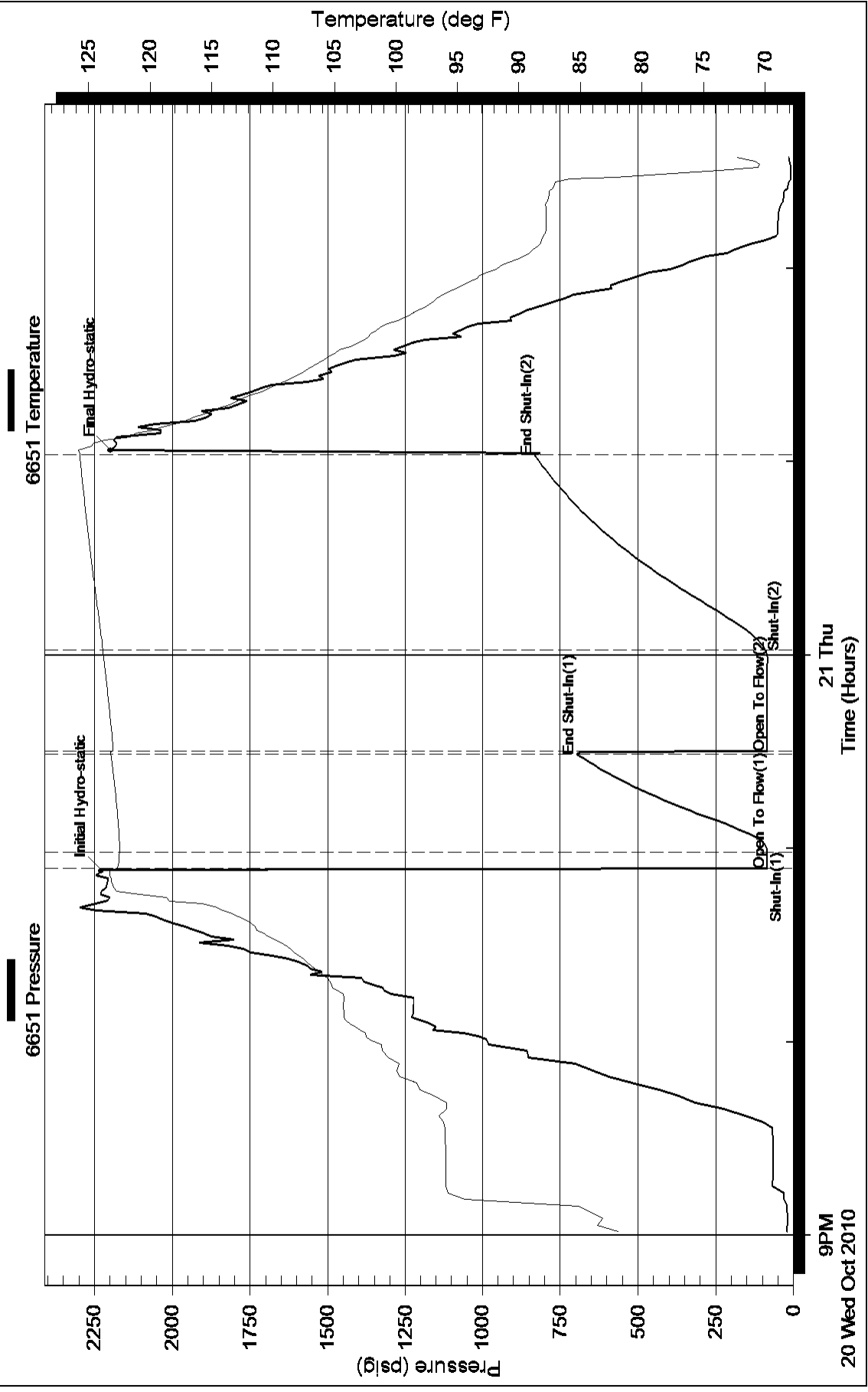
Total Length: 5.00 ft      Total Volume: 0.073 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC.**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

ATTN: KEVIN KESSLER

**6-19S-28W LANE**

**HINEMAN TRUST 1-6**

Start Date: 2010.10.21 @ 22:00:00

End Date: 2010.10.22 @ 04:36:30

Job Ticket #: 1043                      DST #: 6

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.10.21 @ 22:04:58

MULL DRILLING COMPANY INC.

HINEMAN TRUST 1-6

6-19S-28W LANE

DST # 6

FT SCOTT CHER

2010.10.21



# DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1043

**DST#: 6**

ATTN: KEVIN KESSLER

Test Start: 2010.10.21 @ 22:00:00

## GENERAL INFORMATION:

Formation: **FT SCOTT CHER**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:19:00

Time Test Ended: 04:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 62 MRT SCOTT CIT

**Interval: 4530.00 ft (KB) To 4630.00 ft (KB) (TVD)**

Reference Elevations: 2789.00 ft (KB)

Total Depth: 4630.00 ft (KB) (TVD)

2781.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6651**

**Inside**

Press @ RunDepth: 89.78 psig @ 4626.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.10.21

End Date:

2010.10.22

Last Calib.: 2010.10.21

Start Time: 22:00:00

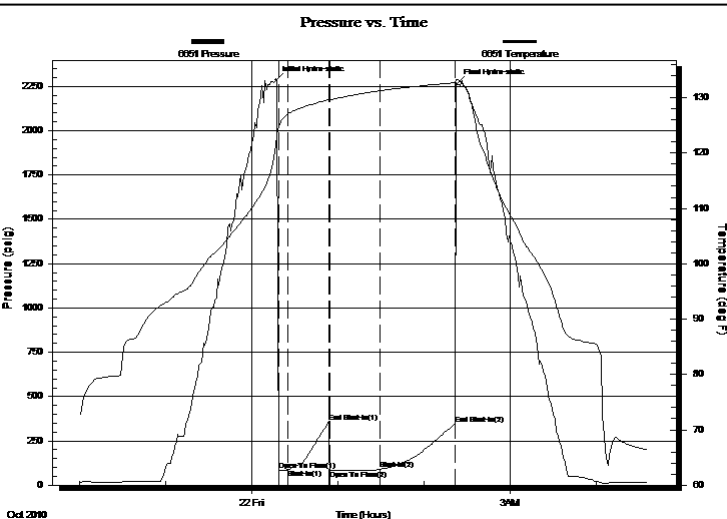
End Time:

04:36:30

Time On Btm: 2010.10.22 @ 00:17:00

Time Off Btm: 2010.10.22 @ 02:23:00

**TEST COMMENT:** 5-INITIAL OPENING SURFACE BLOW  
30-INITIAL SHUT IN NO BLOW BACK  
30-FINAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 15 MINS  
60-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2283.99	121.39	Initial Hydro-static
2	86.36	124.73	Open To Flow (1)
8	87.42	126.98	Shut-In(1)
37	355.52	129.66	End Shut-In(1)
38	86.46	129.62	Open To Flow (2)
73	89.78	131.25	Shut-In(2)
125	344.04	132.71	End Shut-In(2)
126	2263.55	133.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD 100%MUD	0.07

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

MULL DRILLING COMPANY INC.

**HINEMAN TRUST 1-6**

1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206

**6-19S-28W LANE**

Job Ticket: 1043

**DST#: 6**

ATTN: KEVIN KESSLER

Test Start: 2010.10.21 @ 22:00:00

## Tool Information

Drill Pipe:	Length: 4507.00 ft	Diameter: 3.88 inches	Volume: 65.91 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	0.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4530.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	123.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHUT IN TOOL	5.00			4512.00	
HYD S.I. Tool	5.00			4517.00	
jars	6.00			4523.00	
safty joint	2.00			4525.00	
TRAVEL COLER	2.00			4527.00	
Packer	3.00			4530.00	23.00 Bottom Of Top Packer
travel collar	2.00			4532.00	100.00 Tool Interval
Packer	3.00			4535.00	
change over sub	0.75			4535.75	
drill pipe	62.50			4598.25	
change over sub	0.75			4599.00	
Perforations	26.00			4625.00	
Recorder	1.00	6651	Inside	4626.00	
Recorder	1.00		Outside	4627.00	
bull plug	3.00			4630.00	1000122.00 Bottom Packers & Anchor

**Total Tool Length: 123.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

MULL DRILLING COMPANY INC.  
1700 N WATERFRONT PKWY BLDG 1200  
WICHITA KS 67206  
ATTN: KEVIN KESSLER

**HINEMAN TRUST 1-6**  
**6-19S-28W LANE**  
Job Ticket: 1043      **DST#: 6**  
Test Start: 2010.10.21 @ 22:00:00

### 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: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

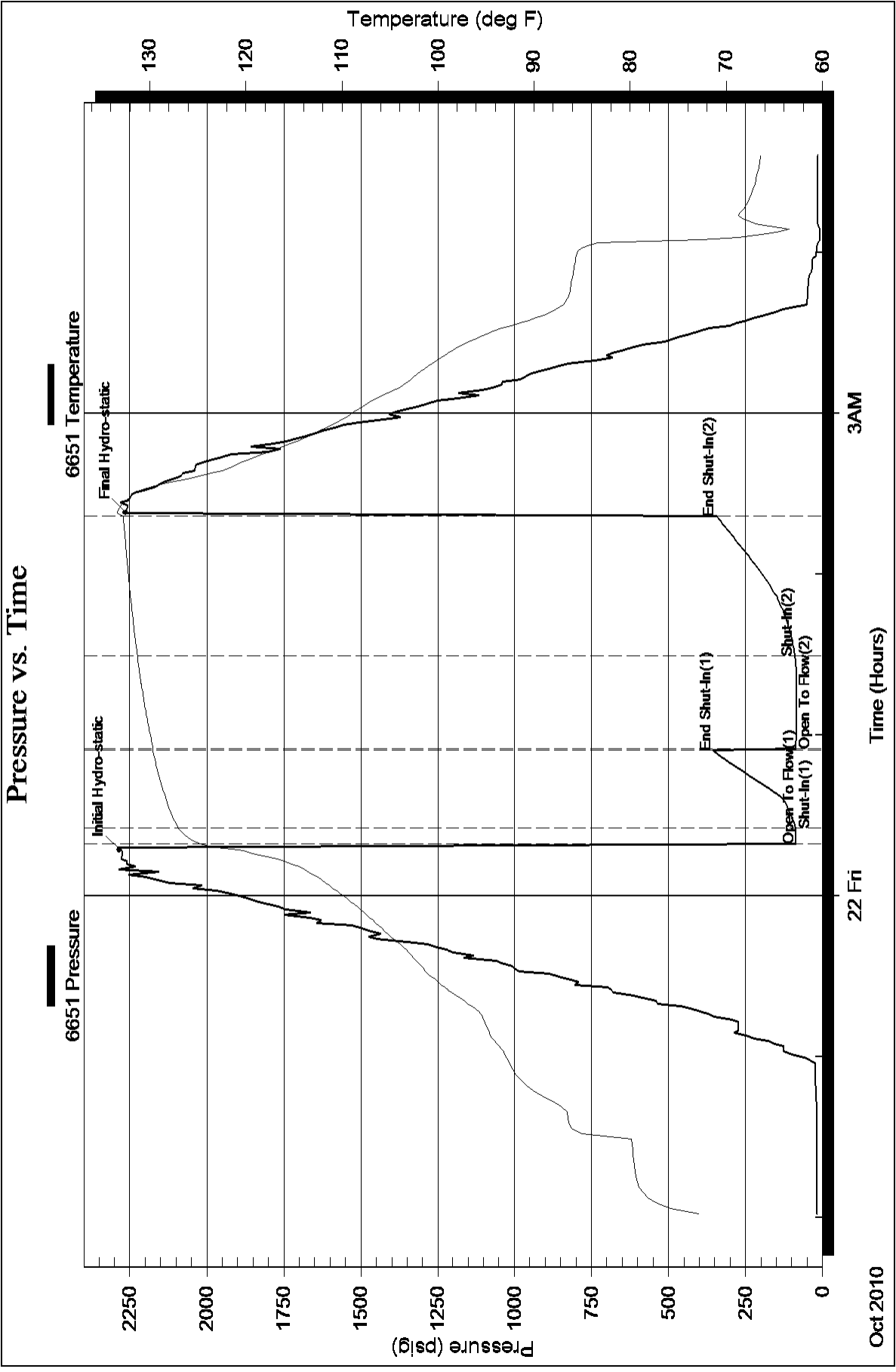
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD 100%MUD	0.073

Total Length: 5.00 ft      Total Volume: 0.073 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time







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

January 05, 2011

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

Re: ACO1  
API 15-101-22260-00-00  
Hineman Trusts 1-6  
SE/4 Sec.06-19S-28W  
Lane 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