



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

ATTN: KEVIN KESSLER

Job Ticket: 1039

DST#: 2

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)

Total Depth: 4245.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2789.00 ft (KB)

2781.00 ft (CF)

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

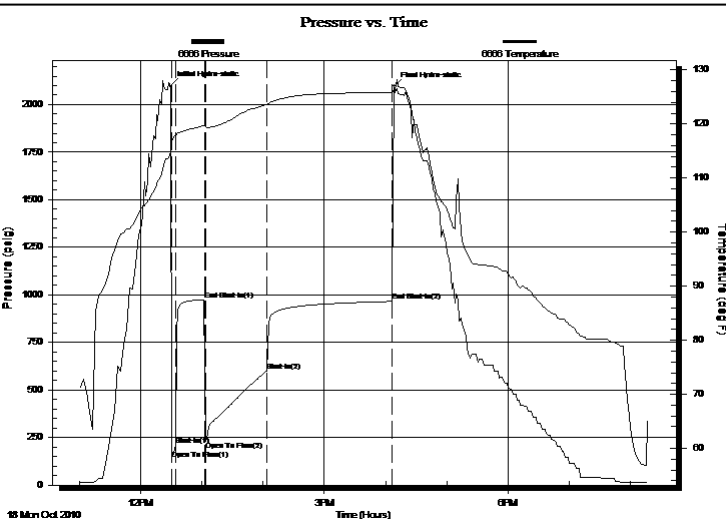
Start Time: 11:00:00

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)



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1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

6-19S-28W LANE

Job Ticket: 1039

DST#: 2

ATTN: KEVIN KESSLER

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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 @ Run Depth: 968.19 psig @ 4242.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.10.18 End Date: 2010.10.18

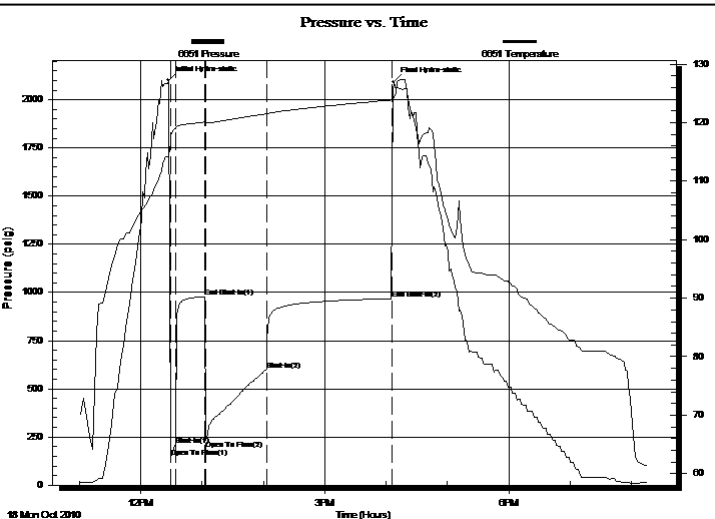
Last Calib.: 2010.10.18

Start Time: 11:00:00 End Time: 20:18:00

Time On Btm: 2010.10.18 @ 12:27:00

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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



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FLUID SUMMARY

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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 ³	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

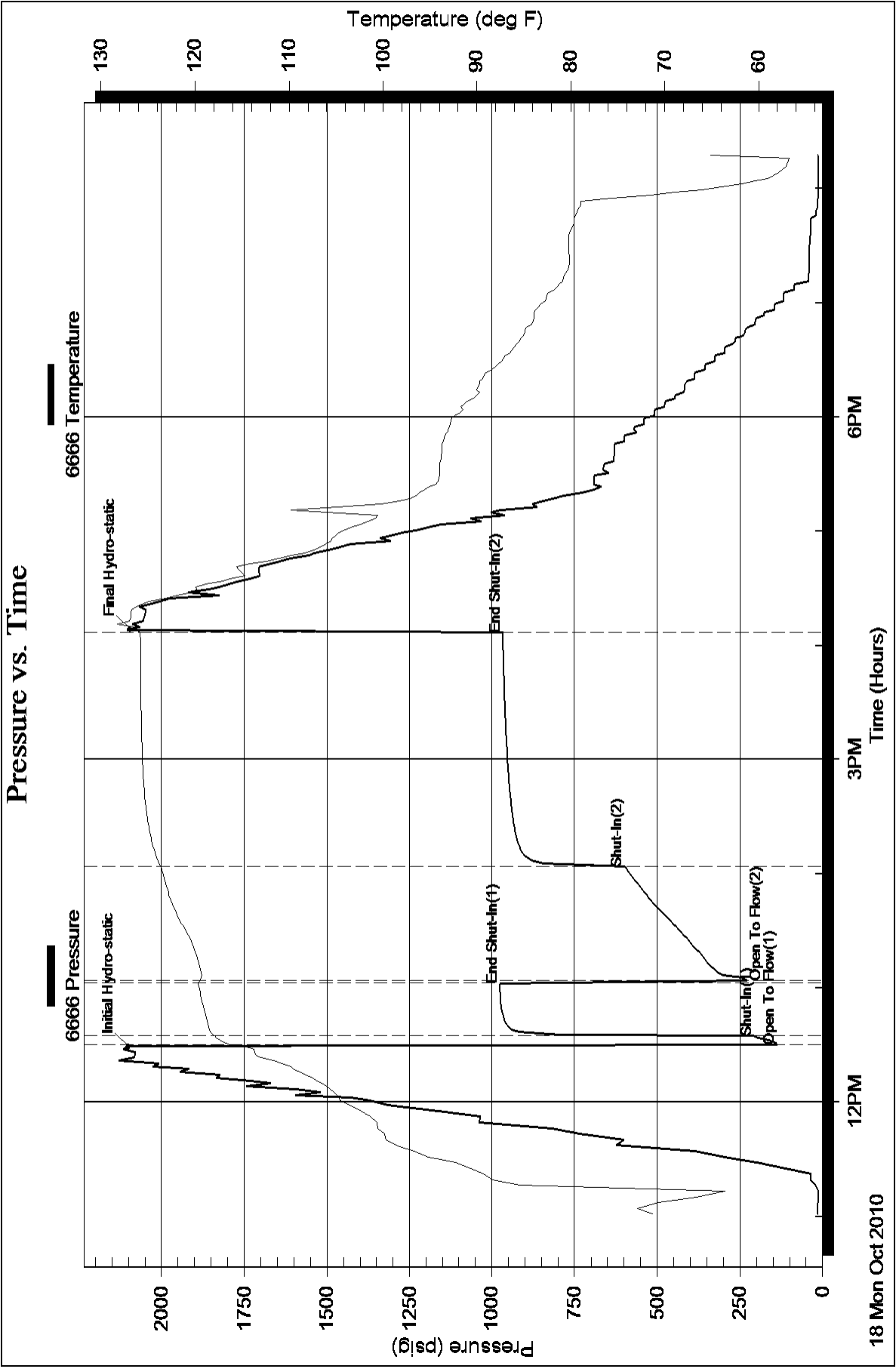
Total Length: 1290.00 ft Total Volume: 18.865 bbl

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

