



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1162303
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

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
- Plug Back Conv. to GSW Conv. to Producer
- 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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1162303

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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	Hakanson 1-10
Doc ID	1162303

All Electric Logs Run

CDL/CNL
DIL
MEL
Sonic

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Hakanson 1-10
Doc ID	1162303

Tops

Name	Top	Datum
Anhydrite	1881	+ 577
B/Anhydrite	1916	+ 542
Heebner	3630	- 1172
Lansing	3670	- 1212
B/KC	3966	- 1508
Pawnee	4064	- 1606
Ft. Scott	4163	- 1705
Cherokee Shale	4189	- 1736
Mississippian	4250	- 1792

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 10, 2013

Mark Shreve
Mull Drilling Company, Inc.
1700 N WATERFRONT PKWY
BLDG 1200
WICHITA, KS 67206-6637

Re: ACO1
API 15-063-22098-00-00
Hakanson 1-10
SE/4 Sec.10-15S-27W
Gove 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



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

260022

TICKET NUMBER 37922
LOCATION Oakley Ks
FOREMAN Jerry (Trainee)
Walt D

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-26-13	5659	Hakanson 1-10	10	15S	27W	Kansas Gore
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Mull Drilling			Cory D	463		
MAILING ADDRESS			693	Jeremy R		
Sinto			helper	Ride along	Dustin DeGrau	
CITY	STATE	ZIP CODE				

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 224 CASING SIZE & WEIGHT 8 7/8
 CASING DEPTH 217.58 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 19.7 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 13.661 DISPLACEMENT PSI _____ MIX PSI _____ RATE 56ppm

REMARKS: salty meeting and rig up on Date 4 pm casing circulate to bottom
mix 11.55 lbs com 3.8 calcium chloride, drop plug set with 13.661 fresh water shut
in cement did circulate approx 3.661 t pit. 0

Cement did circulate

Thank you Jerry
POREW

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	1150.00	1150.00
5406	40	MILEAGE	5.25	210.00
5407A	7.76	Ton mileage delivery	1.72	542.88
1104S	11.55 lbs	common class A	18.55	306.02
1102	465 #	calcium chloride	.94	437.10
1118B	310 #	bentonite	.27	83.70
4432	1	8.5" wood plug	100.00	100.00
			subtotal	5585.10
			less 10% disc	-558.51
			subtotal	5026.59
			SALES TAX	210.79
			ESTIMATED TOTAL	5237.38

Job Completed

Ravin 3737

AUTHORIZATION Rish Wheeler TITLE TP

DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

DIAMOND TESTING

General Information Report

General Information

Company Name MULL DRILLING COMPANY, INC.
Contact MIKE SHREVE
Well Name HAKANSON #1-10
Unique Well ID DST #1, LANSING "E&F", 3737-3766
Surface Location SEC 10-15S-27W, GOVE CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #1, LANSING "E&F", 3737-3766
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2013/07/01
Prepared By TIM VENTERS
Qualified By KENT MATSON

Start Test Date 2013/06/30
Final Test Date 2013/07/01

Start Test Time 20:48:00
Final Test Time 05:04:00

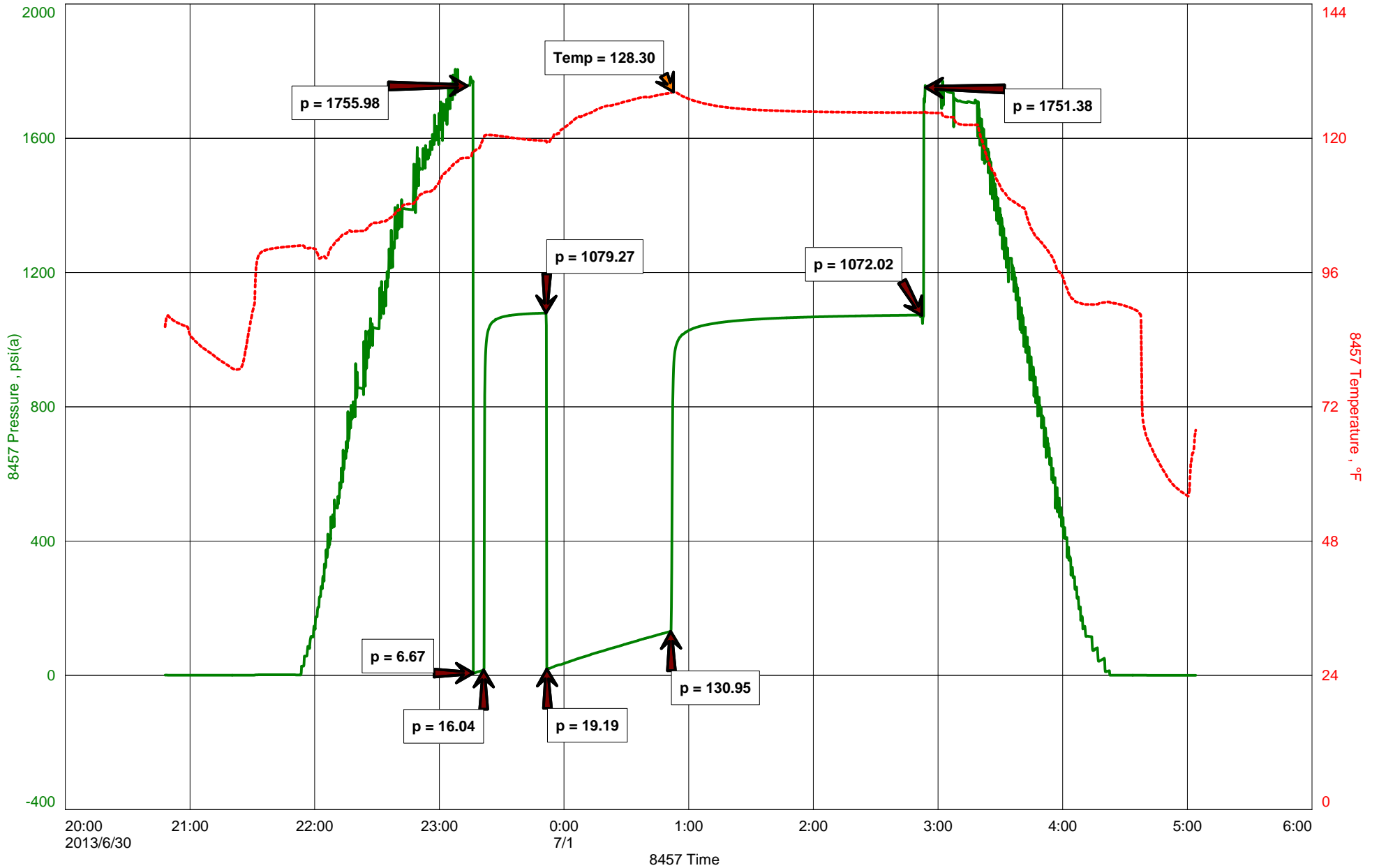
Test Recovery:

RECOVERED: 25' HWCM W/TR. O, TRACE OIL, 40% WATER, 60% MUD
250' SMCW, 83% WATER, 17% MUD
275' TOTAL FLUID

TOOL SAMPLE: TRACE OIL, 78% WATER, 22% MUD

CHLORIDES: 73,000 ppm
PH: 6.0
RW: .20 @ 66 deg.

HAKANSON #1-10





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HAKANSON1-10DST1

TIME ON: 20:48 6-30-13
TIME OFF: 05:04 7-1-13

Company MULL DRILLING COMPANY, INC. Lease & Well No. GADANSON #1-10
Contractor DUKE DRILLING CO., INC. RIG #4 Charge to MULL DRILLING COMPANY, INC.
Elevation 2458 KB Formation LANSING "E&F" Effective Pay _____ Ft. Ticket No. T230
Date 6-30-13 Sec. 10 Twp. 15 S Range 27 W County GOVE State KANSAS
Test Approved By KENT MATSON Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 3737 ft. to 3766 ft. Total Depth 3766 ft.
Packer Depth 3732 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3737 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3718 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 3763 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 49 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 1,400 P.P.M. Drill Pipe Length 3704 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 29 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING TO 2 1/2 INCHES. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, BUILDING, REACHING BOB 30 1/2 MIN. (NO BB)

Recovered 25 ft. of HWCM W/TR. O, TRACE OIL, 40% WATER, 60% MUD
Recovered 250 ft. of SMCW, 83% WATER, 17% MUD
Recovered 275 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 73,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 6.0	Other Charges
Remarks: _____	RW: .20 @ 66 deg.	Insurance
TOOL SAMPLE: 100% MUD		Total

Time Set Packer(s) 11:16 PM A.M. P.M. Time Started Off Bottom 2:51 AM A.M. P.M. Maximum Temperature 128 deg.

Initial Hydrostatic Pressure..... (A) 1756 P.S.I.
Initial Flow Period..... Minutes 5 (B) 7 P.S.I. to (C) 16 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1079 P.S.I.
Final Flow Period..... Minutes 60 (E) 19 P.S.I. to (F) 131 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1072 P.S.I.
Final Hydrostatic Pressure..... (H) 1751 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DIAMOND TESTING

General Information Report

General Information

Company Name MULL DRILLING COMPANY, INC.
Contact MARK SHREVE
Well Name HAKANSON #1-10
Unique Well ID DST #2, LANSING "H&I", 3820-3890
Surface Location SEC 10-15S-27W, GOVE CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #2, LANSING "H&I", 3820-3890
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2013/07/02
Prepared By TIM VENTERS
Qualified By KENT MATSON

Start Test Date 2013/07/01
Final Test Date 2013/07/02

Start Test Time 19:22:00
Final Test Time 02:55:00

Test Recovery:

RECOVERED: 60' OCM 25% OIL, 75% MUD

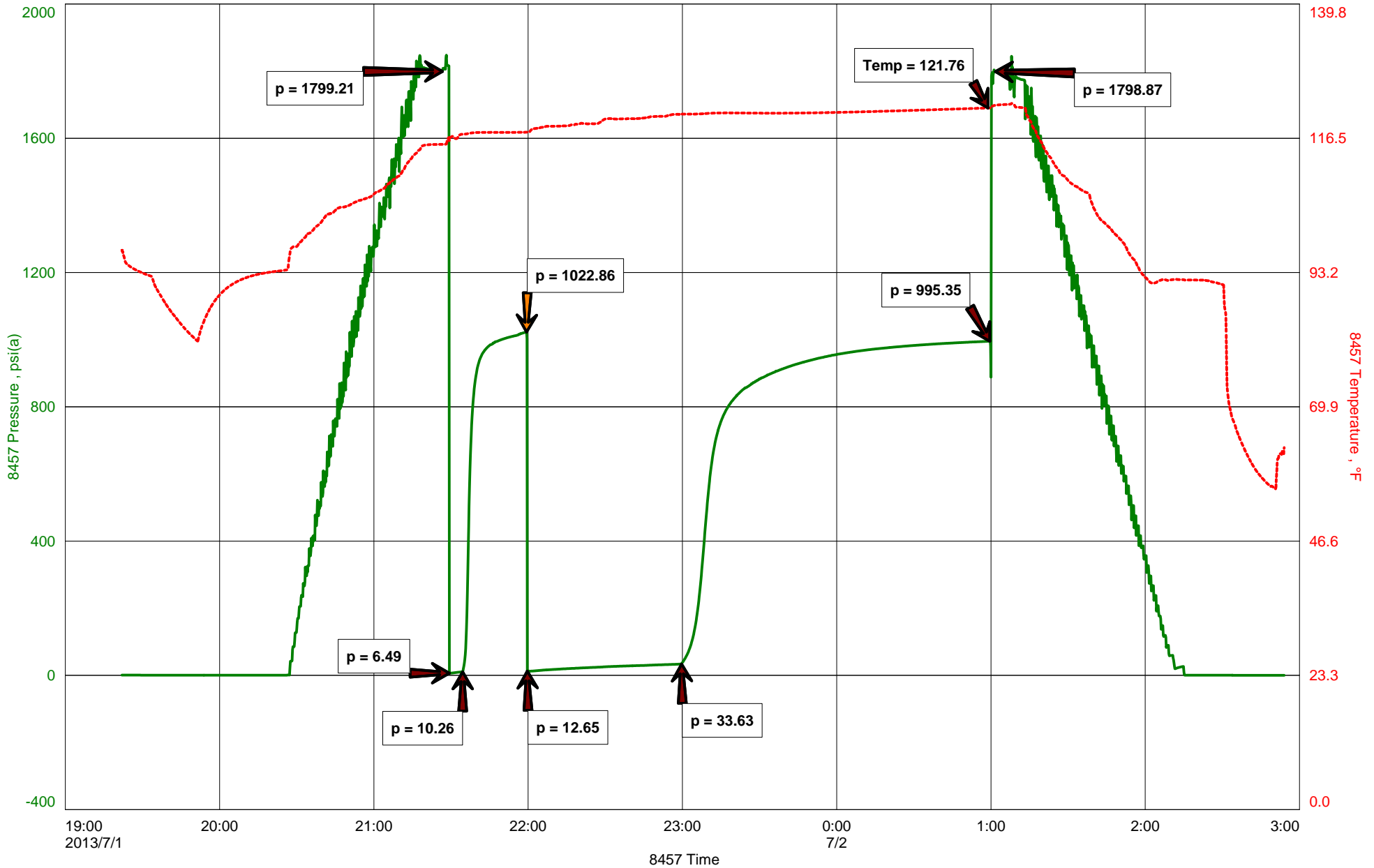
TOOL SAMPLE: 13% OIL, 20% WATER. 67% MUD

CHLORIDES: 25,000 ppm
PH: 7.0
RW: .37 @ 67 deg.

MULL DRILLING COMPANY, INC.
DST #2, LANSING "H&I", 3820-3890
Start Test Date: 2013/07/01
Final Test Date: 2013/07/02

HAKANSON #1-10
Formation: DST #2, LANSING "H&I", 3820-3890
Pool: WILDCAT
Job Number: T231

HAKANSON #1-10





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HAKANSON1-10DST2

TIME ON: 19:22 7-1-13
TIME OFF: 02:55 7-2-13

Company MULL DRILLING COMPANY, INC. Lease & Well No. HAKANSON #1-10
Contractor DUKE DRILLING CO., INC. RIG #4 Charge to MULL DRILLING COMPANY, INC.
Elevation 2458 KB Formation LANSING "H&I" Effective Pay _____ Ft. Ticket No. T231
Date 7-1-13 Sec. 10 Twp. _____ 15 S Range _____ 27 W County GOVE State KANSAS
Test Approved By KENT MATSON Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 3820 ft. to 3890 ft. Total Depth 3890 ft.
Packer Depth 3815 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3820 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3801 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 3887 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 52 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,500 P.P.M. Drill Pipe Length 3787 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 39 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{31' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1 INCH. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 6 INCHES. (NO BB)

Recovered 60 ft. of OCM 25% OIL, 75% MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	CHLORIDES: 25,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 7.0	Other Charges
Remarks: _____	RW: .37 @ 67 deg.	Insurance
TOOL SAMPLE: 13% OIL, 20% WATER, 67% MUD		Total

Time Set Packer(s) 9:24 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 12:59 AM ^{A.M.}/_{P.M.} Maximum Temperature 122 deg.

Initial Hydrostatic Pressure..... (A) 1799 P.S.I.
Initial Flow Period..... Minutes 5 (B) 6 P.S.I. to (C) 10 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1023 P.S.I.
Final Flow Period..... Minutes 60 (E) 13 P.S.I. to (F) 34 P.S.I.
Final Closed In Period..... Minutes 120 (G) 995 P.S.I.
Final Hydrostatic Pressure..... (H) 1799 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DIAMOND TESTING

General Information Report

General Information

Company Name MULL DRILLING COMPANY, INC.
Contact MARK SHREVE
Well Name HAKANSON #1-10
Unique Well ID DST #3, LANSING "J&K", 3890-3946
Surface Location SEC 10-15S-27W, GOVE CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #3, LANSING "J&K", 3890-3946
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2013/07/02
Prepared By TIM VENTERS
Qualified By KENT MATSON

Start Test Date 2013/07/02
Final Test Date 2013/07/02

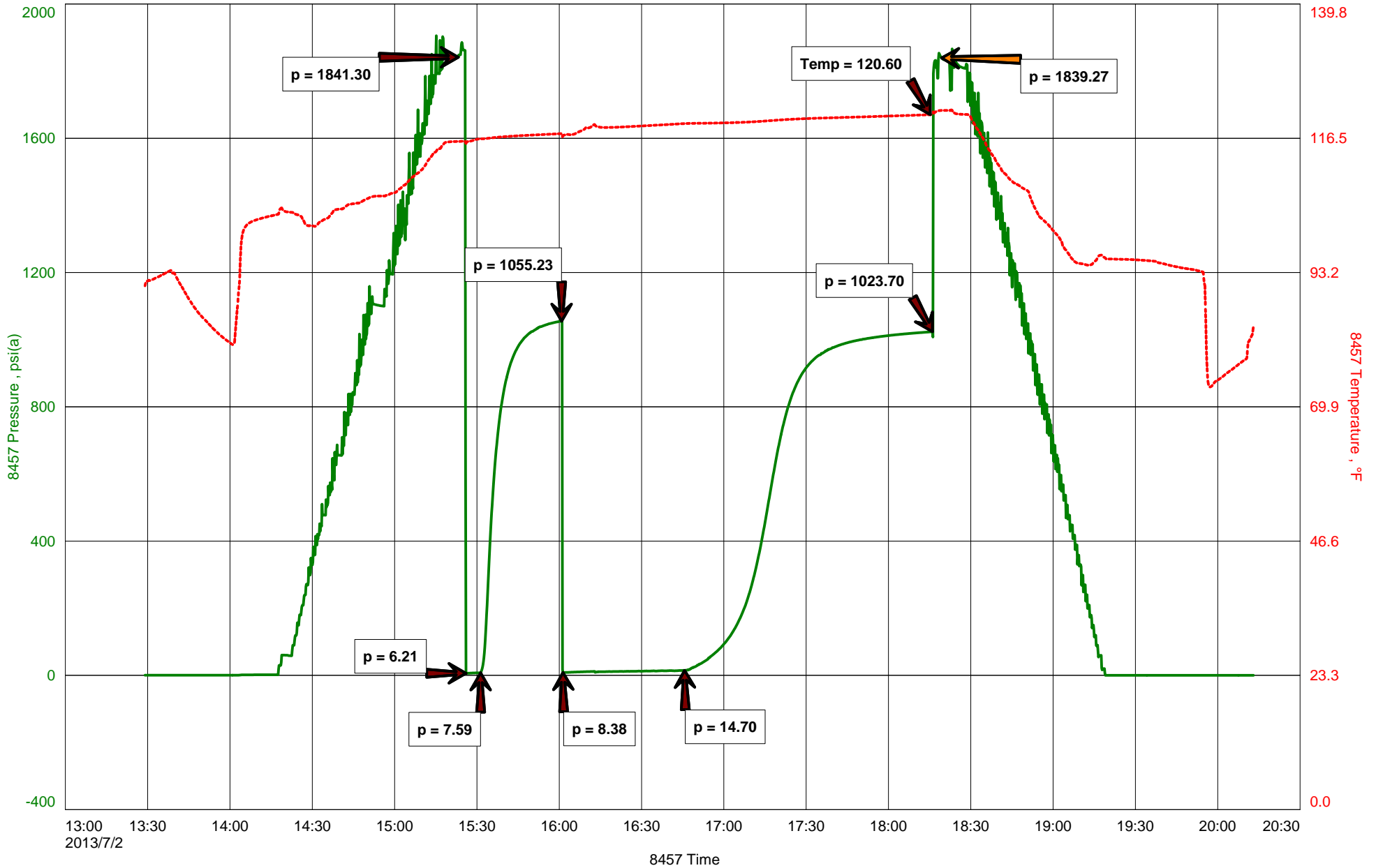
Start Test Time 13:29:00
Final Test Time 20:13:00

Test Recovery:

RECOVERED: 20' VSOCM 3% OIL, 97% MUD

TOOL SAMPLE: 9% OIL, 91% MUD

HAKANSON #1-10





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HAKANSON1-10DST3

TIME ON: 13:29
TIME OFF: 20:13

Company MULL DRILLING COMPANY, INC. Lease & Well No. HAKANSON #1-10
Contractor DUKE DRILLING CO., INC. RIG #4 Charge to MULL DRILLING COMPANY, INC.
Elevation 2458 KB Formation LANSING "J&K" Effective Pay _____ Ft. Ticket No. T232
Date 7-2-13 Sec. 10 Twp. _____ 15 S Range _____ 27 W County GOVE State KANSAS
Test Approved By KENT MATSON Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 3890 ft. to 3946 ft. Total Depth 3946 ft.
Packer Depth 3885 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3890 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3871 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 3943 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 49 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 6.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,400 P.P.M. Drill Pipe Length 3857 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 25 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{31' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1/2 INCH. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 4 INCHES. (NO BB)

Recovered 20 ft. of VSOCM, 3% OIL, 97% MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	CHLORIDES: 25,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 7.0	Other Charges
Remarks: _____	RW: .37 @ 67 deg.	Insurance
TOOL SAMPLE: 9% OIL, 91% MUD		Total

Time Set Packer(s) 3:25 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 6:15 PM ^{A.M.}/_{P.M.} Maximum Temperature 121 deg.

Initial Hydrostatic Pressure..... (A) 1841 P.S.I.
Initial Flow Period..... Minutes 5 (B) 6 P.S.I. to (C) 8 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1055 P.S.I.
Final Flow Period..... Minutes 45 (E) 8 P.S.I. to (F) 15 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1024 P.S.I.
Final Hydrostatic Pressure..... (H) 1839 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DIAMOND TESTING

General Information Report

General Information

Company Name MULL DRILLING COMPANY, INC.
Contact MARK SHREVE
Well Name HAKANSON #1-10
Unique Well ID DST #4, LKC "L" & PAWN., 3936-4090
Surface Location SEC 10-15S-27W, GOVE CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #4, LKC "L" & PAWN. 3936-4090
Well Fluid Type 01 Oil

Start Test Date 2013/07/03
Final Test Date 2013/07/03

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2013/07/03
Prepared By TIM VENTERS
Qualified By KENT MATSON

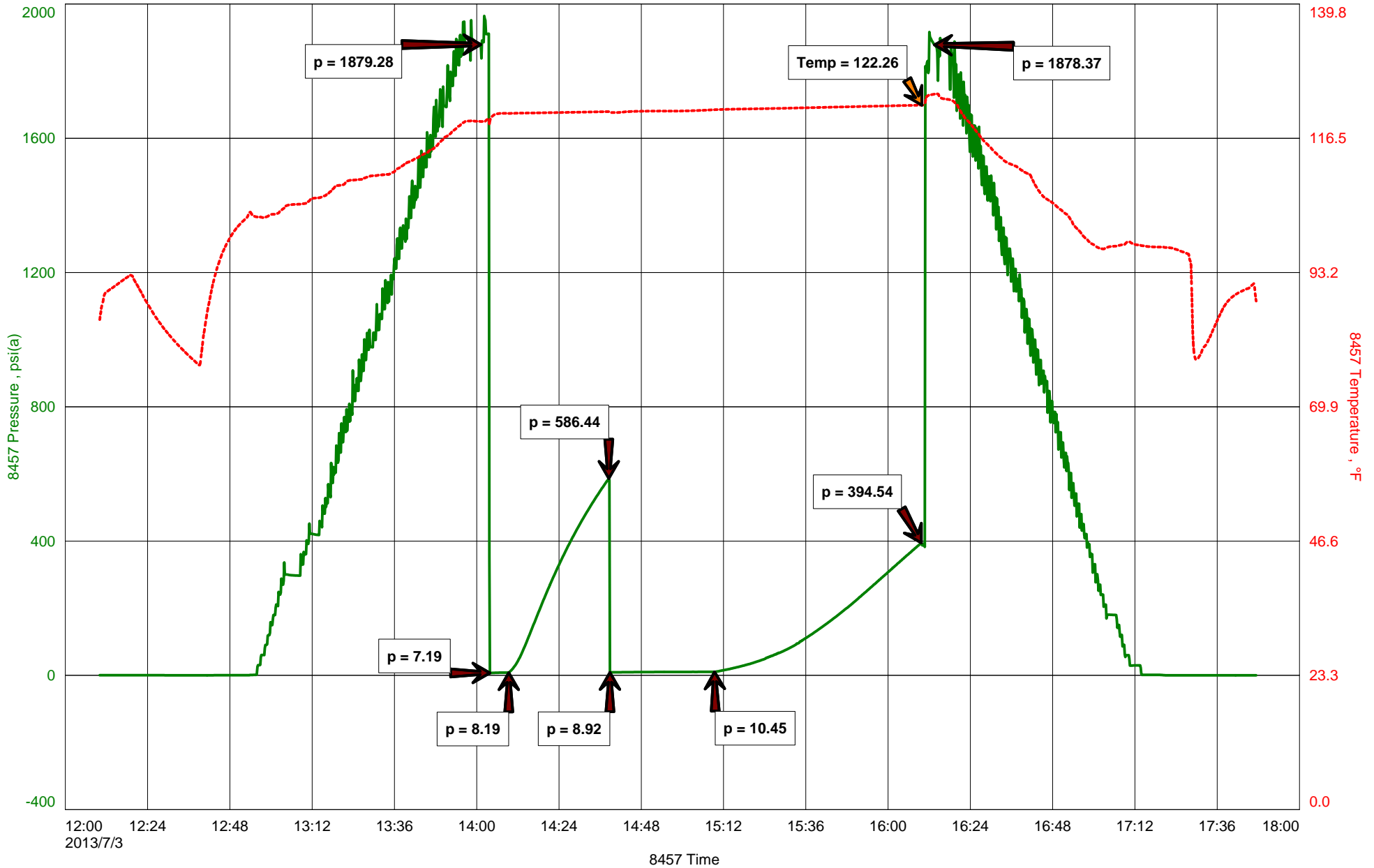
Start Test Time 12:10:00
Final Test Time 17:48:00

Test Recovery:

RECOVERED: 10' MUD

TOOL SAMPLE: SPOTTY OIL, 100% MUD

HAKANSON #1-10





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HAKANSON1-10DST4

TIME ON: 12:10
TIME OFF: 17:48

Company MULL DRILLING COMPANY, INC. Lease & Well No. HAKANSON #1-10
Contractor DUKE DRILLING CO., INC. RIG #4 Charge to MULL DRILLING COMPANY, INC.
Elevation 2458 KB Formation LKC "L" & PAWNEE Effective Pay _____ Ft. Ticket No. T233
Date 7-3-13 Sec. 10 Twp. _____ 15 S Range _____ 27 W County GOVE State KANSAS
Test Approved By KENT MATSON Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 3936 ft. to 4090 ft. Total Depth 4090 ft.
Packer Depth 3931 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3936 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3917 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4087 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 53 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.25 Water Loss 6.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,300 P.P.M. Drill Pipe Length 3903 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 26 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{126' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING TO 1/2 INCH. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, LASTING 8 MIN. (NO BB)

Recovered <u>10</u> ft. of <u>MUD</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>SPOTTY OIL, 100% MUD</u>	Total

Time Set Packer(s) 2:03 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 4:08 PM ^{A.M.}/_{P.M.} Maximum Temperature 122 deg.

Initial Hydrostatic Pressure..... (A) 1879 P.S.I.
Initial Flow Period..... Minutes 5 (B) 7 P.S.I. to (C) 8 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 586 P.S.I.
Final Flow Period..... Minutes 30 (E) 9 P.S.I. to (F) 10 P.S.I.
Final Closed In Period..... Minutes 60 (G) 395 P.S.I.
Final Hydrostatic Pressure..... (H) 1878 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DIAMOND TESTING

General Information Report

General Information

Company Name MULL DRILLING COMPANY, INC.
Contact MARK SHREVE
Well Name HAKANSON #1-10
Unique Well ID DST #5, MISSISSIPPIAN, 4190-4275
Surface Location SEC 10-15S-27W, GOVE CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #5, MISSISSIPPIAN, 4190-4275
Well Fluid Type 01 Oil

Start Test Date 2013/07/04
Final Test Date 2013/07/04

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2013/07/04
Prepared By TIM VENTERS
Qualified By KENT MATSON

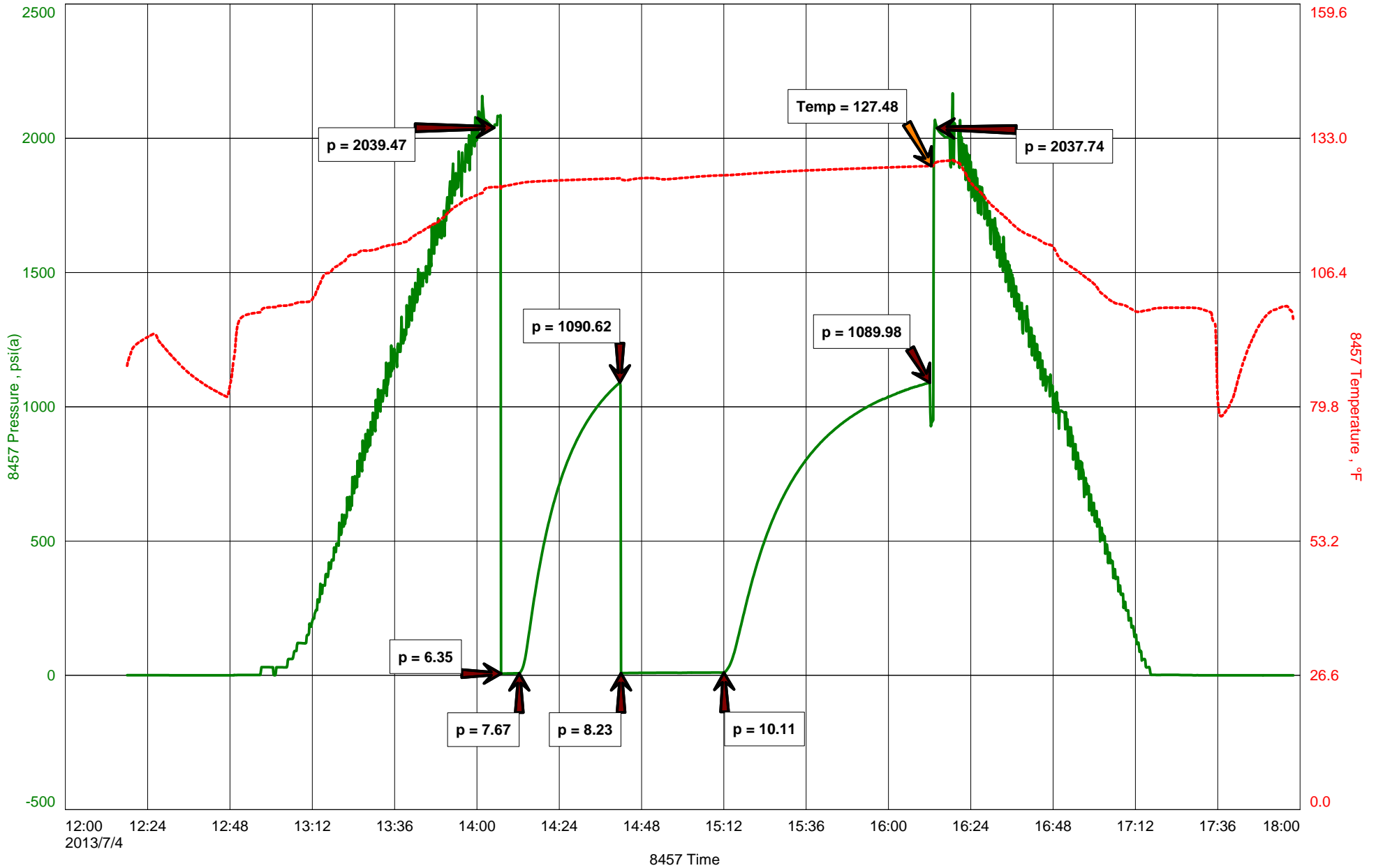
Start Test Time 12:18:00
Final Test Time 17:59:00

Test Recovery:

RECOVERED: 10' VSOCM, 1% OIL, 99% MUD

TOOL SAMPLE: 6% OIL, 94% MUD

HAKANSON #1-10





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HAKANSON1-10DST5

TIME ON: 12:18
TIME OFF: 17:59

Company MULL DRILLING COMPANY, INC. Lease & Well No. HAKANSON #1-10
Contractor DUKE DRILLING CO., INC. RIG #4 Charge to MULL DRILLING COMPANY, INC.
Elevation 2458 KB Formation MISSISSIPPIAN Effective Pay _____ Ft. Ticket No. T234
Date 7-4-13 Sec. 10 Twp. _____ 15 S Range _____ 27 W County GOVE State KANSAS
Test Approved By KENT MATSON Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 5 Interval Tested from 4190 ft. to 4275 ft. Total Depth 4275 ft.
Packer Depth 4185 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4190 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4171 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4272 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 61 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 4,000 P.P.M. Drill Pipe Length 4157 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 22 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{61' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1/2 INCH. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, LASTING 3 MIN. (NO BB)

Recovered 10 ft. of VSOCM, 1% OIL, 99% MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: _____	Price Job
_____	Other Charges
_____	Insurance
TOOL SAMPLE: 6% OIL, 94% MUD	Total

Time Set Packer(s) 2:06 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 4:11 PM ^{A.M.}/_{P.M.} Maximum Temperature 127 deg.
Initial Hydrostatic Pressure..... (A) 2039 P.S.I.
Initial Flow Period..... Minutes 5 (B) 6 P.S.I. to (C) 8 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1091 P.S.I.
Final Flow Period..... Minutes 30 (E) 8 P.S.I. to (F) 10 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1090 P.S.I.
Final Hydrostatic Pressure..... (H) 2038 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name MULL DRILLING COMPANY, INC.
Contact MARK SHREVE
Well Name HAKANSON #1-10
Unique Well ID DST #6. MISSISSIPPIAN, 4188-4285
Surface Location SEC 10-15S-27W, GOVE CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #6, MISSISSIPPIAN, 4188-4285
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2013/07/05
Prepared By TIM VENTERS
Qualified By KENT MATSON

Start Test Date 2013/07/05
Final Test Date 2013/07/05

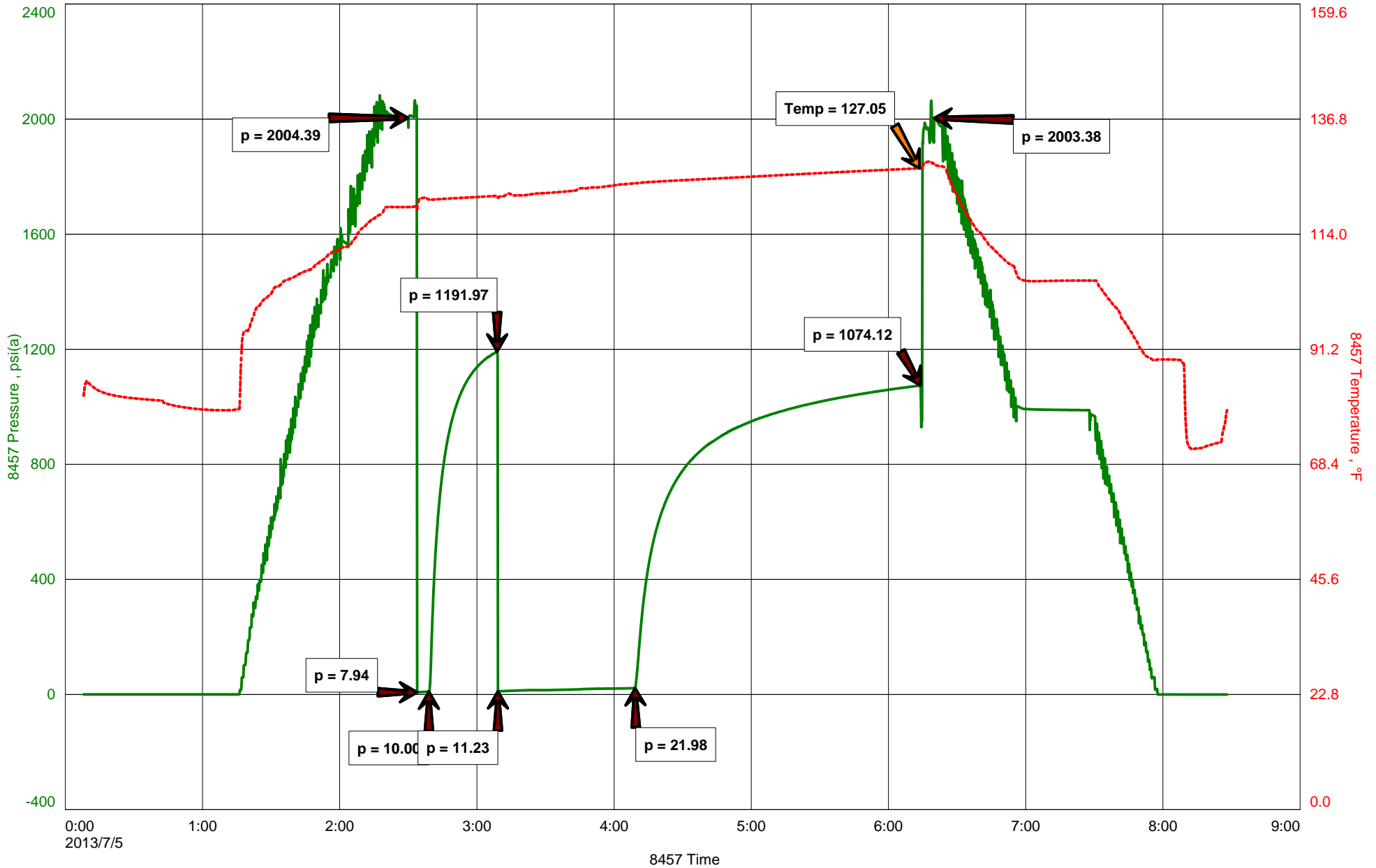
Start Test Time 00:08:00
Final Test Time 08:28:00

Test Recovery:

RECOVERED: 35' VSOCM, 1% OIL, 99% MUD

TOOL SAMPLE: 2% OIL, 98% MUD

HAKANSON #1-10





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HAKANSON1-10DST6

TIME ON: 00:08
TIME OFF: 08:28

Company MULL DRILLING COMPANY, INC. Lease & Well No. HAKANSON #1-10
Contractor DUKE DRILLING CO., INC. RIG #4 Charge to MULL DRILLING COMPANY, INC.
Elevation 2458 KB Formation MISSISSIPPIAN Effective Pay _____ Ft. Ticket No. T235
Date 7-5-13 Sec. 10 Twp. _____ 15 S Range _____ 27 W County GOVE State KANSAS
Test Approved By KENT MATSON Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 6 Interval Tested from 4188 ft. to 4285 ft. Total Depth 4285 ft.
Packer Depth 4183 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4188 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4169 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4282 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 61 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,000 P.P.M. Drill Pipe Length 4155 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 36 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{61' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING TO 1 INCH. (NO BB)
2nd Open: WEAK SURFACE BLOW, BUILDING TO 1 INCH. (NO BB)

Recovered 35 ft. of VSOCM, 1% OIL, 99% MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks:	Price Job
	Other Charges
	Insurance
<u>TOOL SAMPLE: 2% OIL, 98% MUD</u>	Total

Time Set Packer(s) 2:33 AM ^{A.M.} P.M. Time Started Off Bottom 6:08 AM ^{A.M.} P.M. Maximum Temperature 127 deg.
Initial Hydrostatic Pressure..... (A) 2004 P.S.I.
Initial Flow Period..... Minutes 5 (B) 8 P.S.I. to (C) 10 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1192 P.S.I.
Final Flow Period..... Minutes 60 (E) 11 P.S.I. to (F) 22 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1074 P.S.I.
Final Hydrostatic Pressure..... (H) 2003 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Hakanson 1-10
Location: 2245' FSL & 1421' FEL, 10-15S-27W, Gove County, Kansas
License Number: API: 15-063-22098
Spud Date: 06/26/2013
Surface Coordinates: Lat: 38.7628876 Long: -100.3055507
Bottom Hole Coordinates: Vertical hole

Region: Gove County
Drilling Completed: 07/05/2013

Ground Elevation (ft): 2449' K.B. Elevation (ft): 2458'
Logged Interval (ft): 3500' To: RTD Total Depth (ft): 4382'
Formation: Mississippian at RTD
Type of Drilling Fluid: Chemical

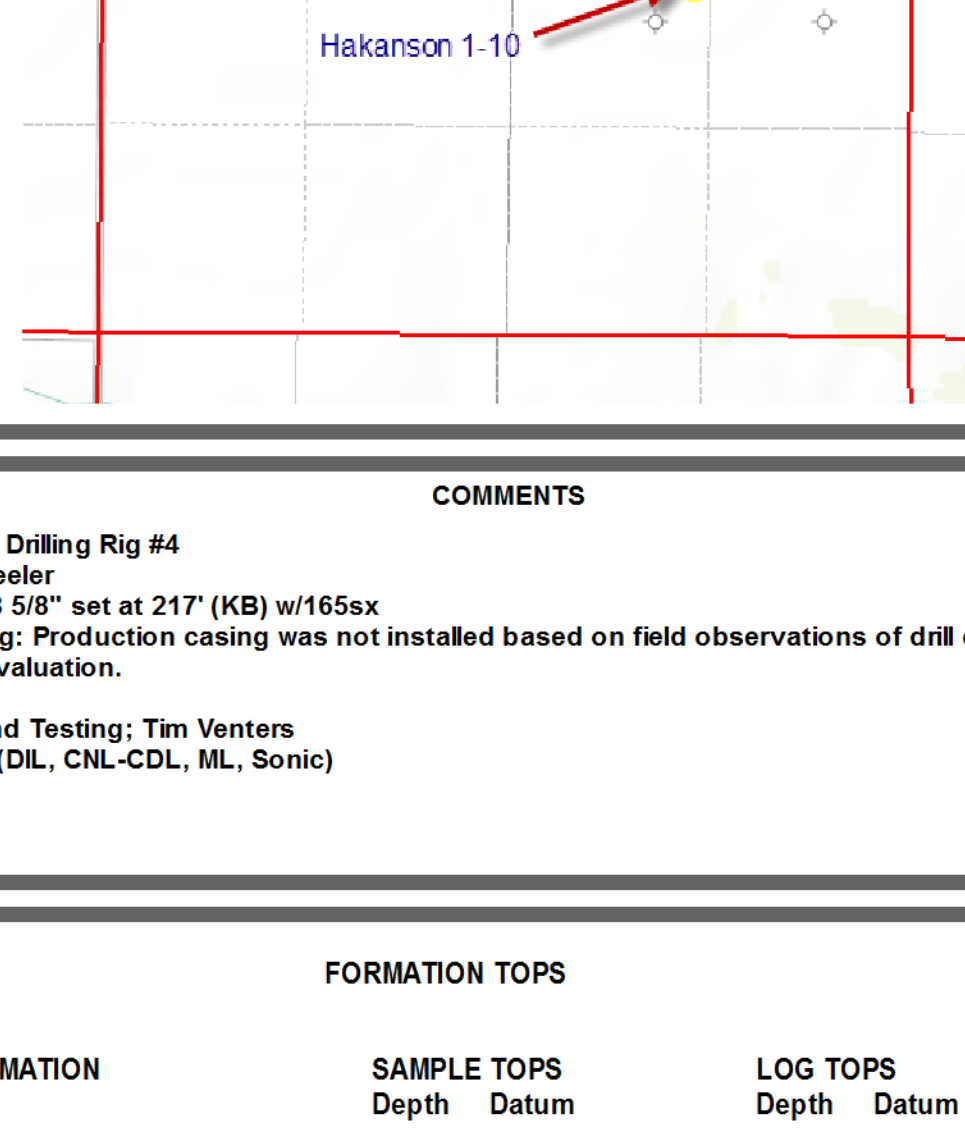
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: MULL Drilling Company, Inc.
Address: 1700 N. Waterfront Parkway, Bldg. 1200
Wichita, KS 67206-6637
316-264-6366

GEOLOGIST

Name: Kent R. Matson
Company: Matson Geological Services, LLC
Address: 33300 W. 15th Street S.
Garden Plain, Kansas 67050
316-644-1975

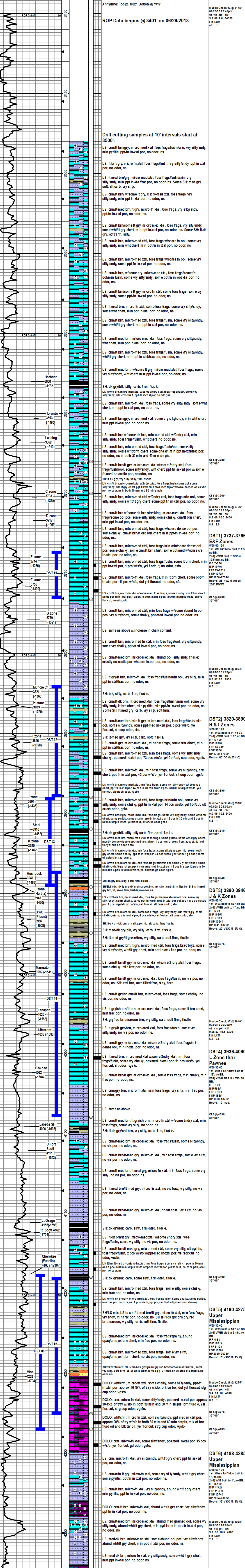


COMMENTS

Contractor: Duke Drilling Rig #4
Pusher: Rich Wheeler
Surface Casing: 8 5/8" set at 217' (KB) w/165x
Production Casing: Production casing was not installed based on field observations of drill cuttings, DST results and electric log evaluation.
Mud by: MudCo
DST's by: Diamond Testing; Tim Venters
Logs by: Nabors (DIL, CNL-CDL, ML, Sonic)
RTD = 4382'
LTD = 4384'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Heebner Shale	3630'	-1172	3631'	-1173
Toronto	3653'	-1195	3654'	-1196
Lansing	3668'	-1210	3669'	-1211
Muncie Creek Shale	3824'	-1366	3826'	-1368
Stark Shale	3910'	-1452	3913'	-1455
Hushpuckney Shale	3941'	-1483	3942'	-1484
Marmaton	3999'	-1541	4002'	-1544
Little Osage Shale	4156'	-1698	4158'	-1700
Cherokee (Excello SH)	4188'	-1730	4189'	-1731
Mississippian	4252'	-1794	4252'	-1794
RTD				
LTD			4384'	-1926



RTD 4382', -1924
LTD 4384', -1926