



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1216619
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: _____

1216619

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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Curtis Unit 2-31
Doc ID	1216619

Tops

Name	Top	Datum
Anhydrite	1948	+ 565
B/Anhydrite	1984	+ 529
Heebner Shale	3756	- 1243
Lansing	3797	- 1284
Stark Shale	4044	- 1531
B/KC	4099	- 1586
Marmaton	4149	- 1636
Ft. Scott	4299	- 1786
Cherokee Shale	4324	- 1811
Conglomerate	4376	- 1863
Mississippian	4400	- 1887



CONSOLIDATED
Oil Well Services, LLC

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

267404

TICKET NUMBER 38176
LOCATION Oakley Ks
FOREMAN Jerry Y

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-15-14	5659	Curtis Unit 2-31	31	15S	26W	Gove
CUSTOMER			Ks			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			399	Jordan L		
STATE			460	Doc K		
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 265' CASING SIZE & WEIGHT 8 7/8 24#
 CASING DEPTH 215' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 12 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and rig up on W/W/O break circulation with rig tree hook up to pump truck & mix 165 sks of com class A cement with 5% calcium chloride & 2% gel wash up & displace with 12 1/2 bbl fresh water & shut in. Circulated approx 2 1/2 bbl to pit

Cement did circulate 

Thank you
Jerry & crew

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
5407	7.8	for mileage delivery	1 ⁷⁵	54 ⁶⁰
1104s	165 sks	com class A cement	18 ⁵⁵	3060 ⁷⁵
1102	465 #	calcium chloride	97	451 ⁰⁵
1118b	310 #	benzocel gel	27	83 ⁷⁰
			Subtotal	5501 ⁸⁰
			less 100.00	5501 ⁸⁰
			Subtotal	4951 ³⁵
			79	SALES TAX
				255.64
				ESTIMATED TOTAL
				5206.99

completed

AUTHORIZATION J. Heffig TITLE T.P. DATE 4-15-14

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 MARK SHREVE
Well Name CURTIS UNIT #2-31
Unique Well ID DST #1, TORONTO, 3740-3780
Surface Location SEC 31-15S-26W, GOVE CO. KS.
Field HORCHEM WEST
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #1, TORONTO, 3740-3780
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2014/04/19
Prepared By TIM VENTERS
Qualified By KEVIN KESSLER

Start Test Date 2014/04/18
Final Test Date 2014/04/18

Start Test Time 15:13:00
Final Test Time 23:48:00

Test Recovery:

RECOVERED: 180' SMCW, 82% WATER, 18% MUD
60' WCM, 39% WATER, 61% MUD
240' TOTAL FLUID

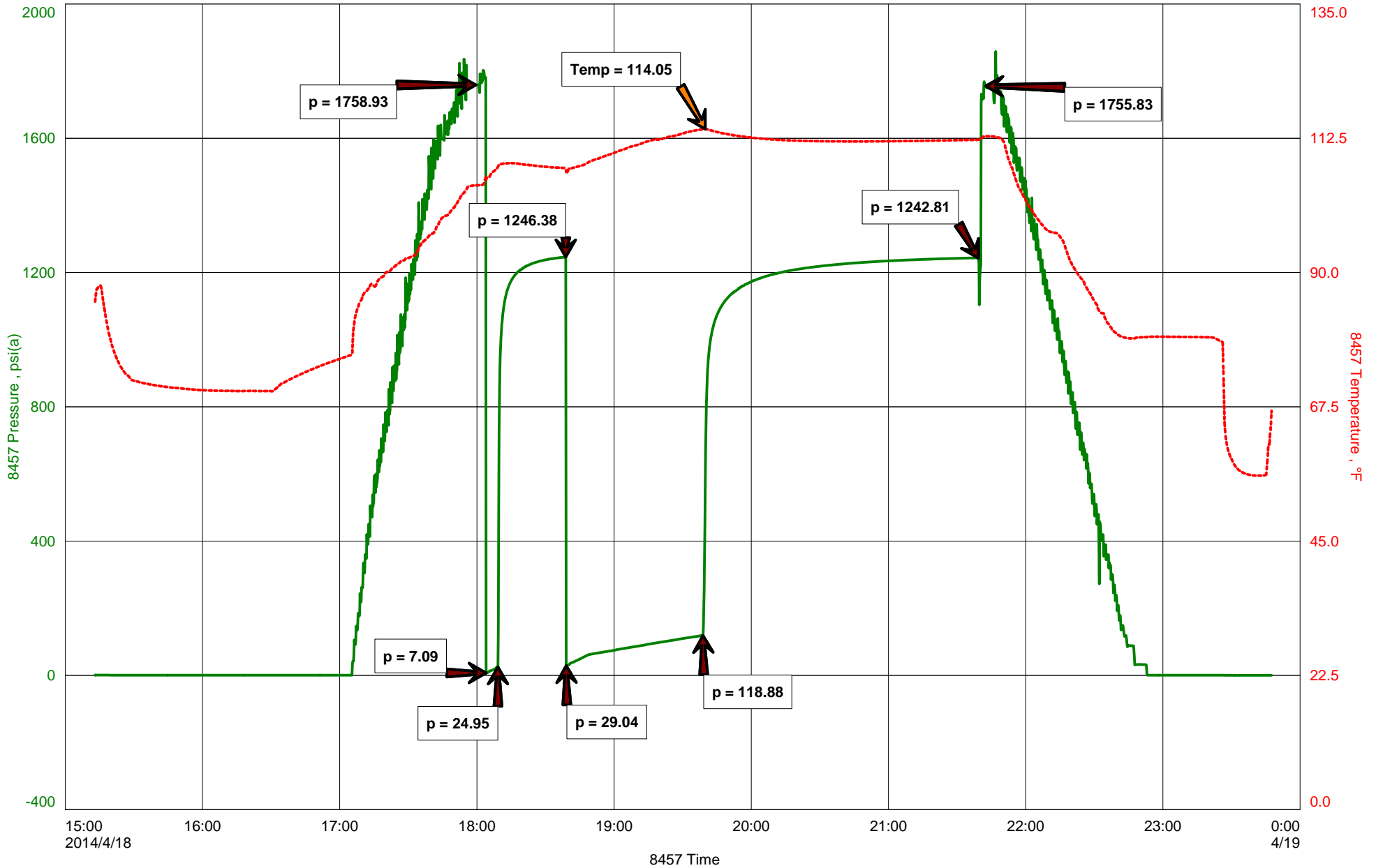
TOOL SAMPLE: 54% WATER, 46% MUD

CHLORIDES: 61,000 ppm
PH: 6.5
RW: .15 @ 75 deg.

MULL DRILLING COMPANY, INC.
DST #1, TORONTO, 3740-3780
Start Test Date: 2014/04/18
Final Test Date: 2014/04/18

CURTIS UNIT #2-31
Formation: DST #1, TORONTO, 3740-3780
Pool: HORCHEM WEST
Job Number: T334

CURTIS UNIT #2-31





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CURTISUNIT2-31DST1

TIME ON: 15:13
TIME OFF: 23:48

Company MULL DRILLING COMPANY, INC. Lease & Well No. CURTIS UNIT #2-31
Contractor WW DRILLING, LLC RIG #10 Charge to MULL DRILLING COMPANY, INC.
Elevation 2513 KB Formation TORONTO Effective Pay _____ Ft. Ticket No. T334
Date 4-18-14 Sec. 31 Twp. _____ 15 S Range _____ 26 W County GOVE State KANSAS
Test Approved By KEVIN KESSLER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 3740 ft. to 3780 ft. Total Depth 3780 ft.
Packer Depth 3635 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3740 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3721 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 3777 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,400 P.P.M. Drill Pipe Length 3584 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 40 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 SURFACE BLOW BUILDING TO 1 3/4 INCH. (NO BB)
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 49 MIN. (NO BB)

Recovered 180 ft. of SMCW, 82% WATER, 18% MUD
Recovered 60 ft. of WCM, 39% WATER, 61% MUD
Recovered 240 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 61,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 6.5	Other Charges
Remarks: _____	RW; .15 @ 75 deg.	Insurance
TOOL SAMPLE: 54% WATER, 46% MUD		Total

Time Set Packer(s) 6:03 PM A.M. P.M. Time Started Off Bottom 9:38 PM A.M. P.M. Maximum Temperature 114 deg.

Initial Hydrostatic Pressure..... (A) 1759 P.S.I.
Initial Flow Period..... Minutes 5 (B) 7 P.S.I. to (C) 25 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1246 P.S.I.
Final Flow Period..... Minutes 60 (E) 29 P.S.I. to (F) 119 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1243 P.S.I.
Final Hydrostatic Pressure..... (H) 1756 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 CUTIS UNIT #2-31
Unique Well ID DST #2, LANSING "H-I", 3950-4020
Surface Location SEC 31-15S-26W, GOVE CO. KS.
Field HORCHEM WEST
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #2, LANSING "H-I", 3950-4020
Well Fluid Type 01 Oil

Start Test Date 2014/04/19
Final Test Date 2014/04/19

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2014/04/19
Prepared By TIM VENTERS
Qualified By KEVIN KESSLER

Start Test Time 17:19:00
Final Test Time 22:52:00

Test Recovery:

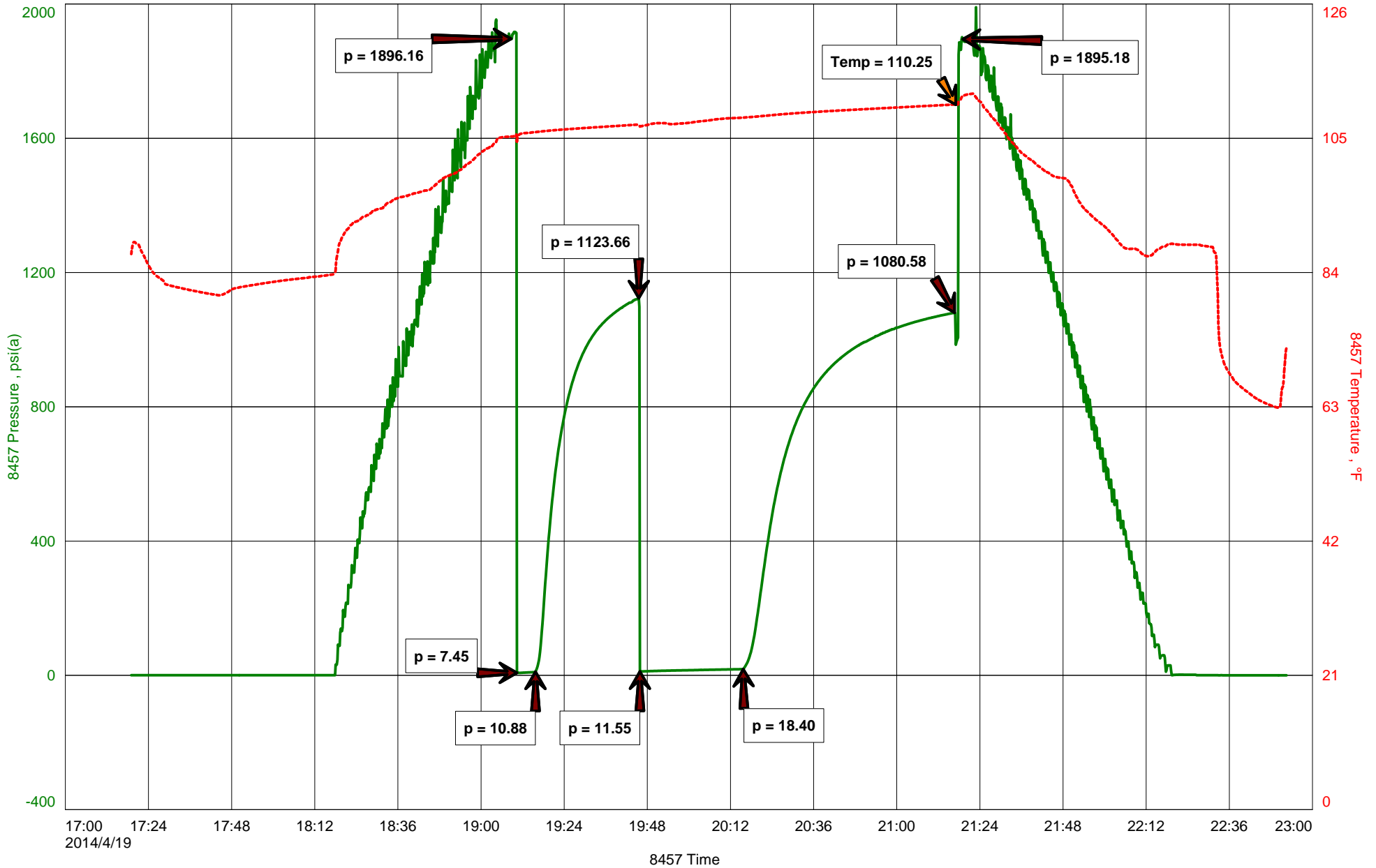
RECOVERED: 10' MUD

TOOL SAMPLE: 100% MUD

MULL DRILLING COMPANY, INC.
DST #2, LANSING "H-I", 3950-4020
Start Test Date: 2014/04/19
Final Test Date: 2014/04/19

CUTIS UNIT #2-31
Formation: DST #2, LANSING "H-I", 3950-4020
Pool: HORCHEM WEST
Job Number: T335

CUTIS UNIT #2-31





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CURTISUNIT2-31DST2

TIME ON: 17:19
TIME OFF: 22:52

Company MULL DRILLING COMPANY, INC. Lease & Well No. CURTIS UNIT #2-31
Contractor WW DRILLING, LLC RIG #10 Charge to MULL DRILLING COMPANY, INC.
Elevation 2513 KB Formation LANSING "H-I" Effective Pay _____ Ft. Ticket No. T335
Date 4-19-14 Sec. 31 Twp. _____ 15 S Range _____ 26 W County GOVE State KANSAS
Test Approved By KEVIN KESSLER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 3950 ft. to 4020 ft. Total Depth 4020 ft.
Packer Depth 3945 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3950 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3931 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4017 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 47 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,800 P.P.M. Drill Pipe Length 3794 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 38 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{32' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW THROUGHOUT PERIOD. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, LASTING 5 MIN. (NO BB)

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

Time Set Packer(s) 7:10 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 9:15 PM ^{A.M.}/_{P.M.} Maximum Temperature 110 deg.
Initial Hydrostatic Pressure..... (A) 1896 P.S.I.
Initial Flow Period..... Minutes 5 (B) 7 P.S.I. to (C) 11 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1124 P.S.I.
Final Flow Period..... Minutes 30 (E) 12 P.S.I. to (F) 18 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1081 P.S.I.
Final Hydrostatic Pressure..... (H) 1895 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 CURTIS UNIT #2-31
Unique Well ID DST #3, LANSING "J,K,L", 4005-4100
Surface Location SEC 31-15S-26W, GOVE CO. KS.
Field HOICHEM WEST
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #3, LANSING "J,K,L", 4005-4100
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2014/04/20
Prepared By TIM VENTERS
Qualified By KEVIN KESSLER

Start Test Date 2014/04/20
Final Test Date 2014/04/20

Start Test Time 08:28:00
Final Test Time 15:39:00

Test Recovery:

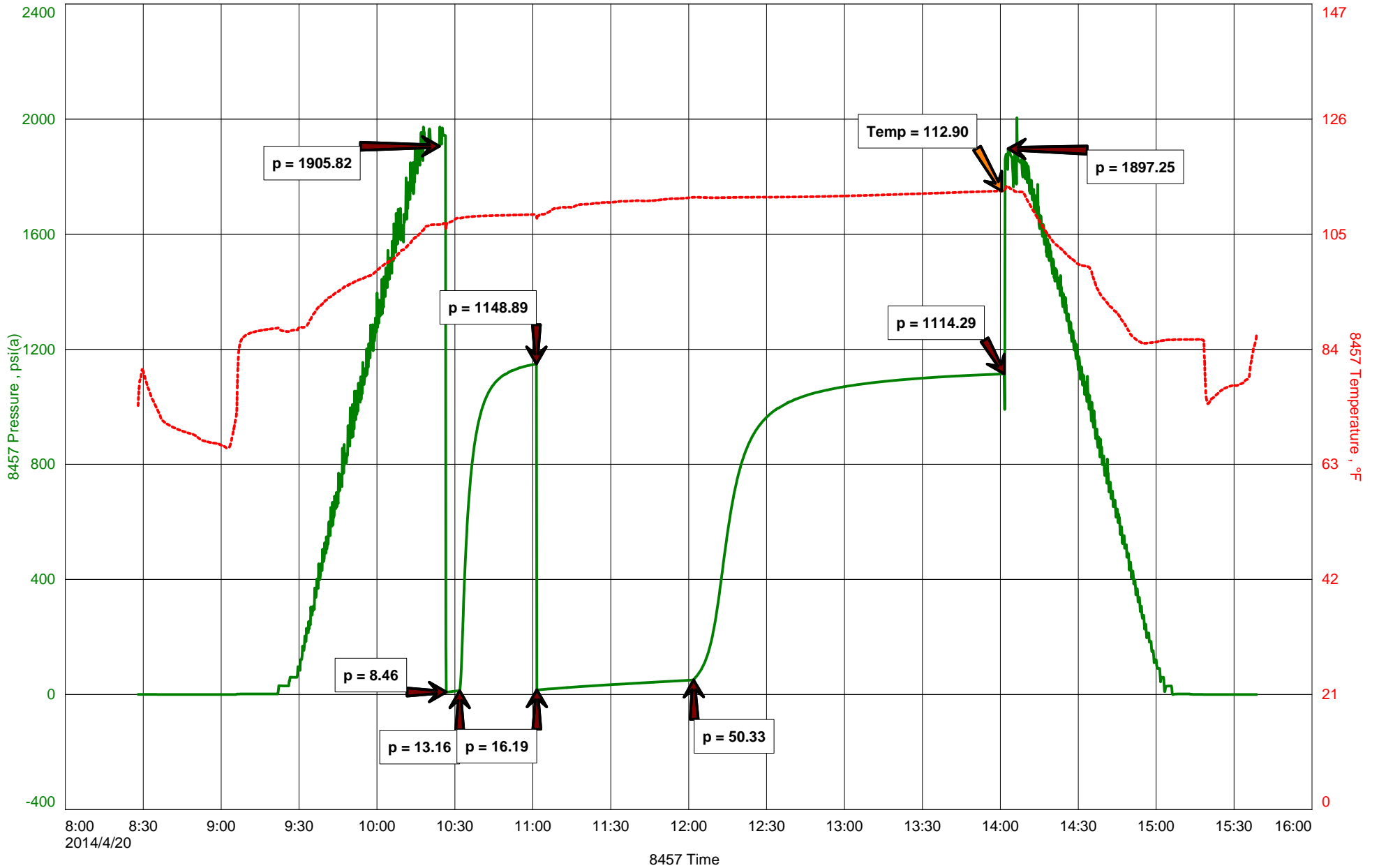
RECOVERED: 20' MUD
60' SOCM, 2% OIL, 98% MUD
80' TOTAL FLUID

TOOL SAMPLE: 1% OIL, 99% MUD

MULL DRILLING COMPANY, INC.
DST #3, LANSING "J,K,L", 4005-4100
Start Test Date: 2014/04/20
Final Test Date: 2014/04/20

CURTIS UNIT #2-31
Formation: DST #3, LANSING "J,K,L", 4005-4100
Pool: HORCHEM WEST
Job Number: T336

CURTIS UNIT #2-31





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CURTISUNIT2-31DST3

TIME ON: 08:28
TIME OFF: 15:39

Company MULL DRILLING COMPANY, INC. Lease & Well No. CURTIS UNIT #2-31
Contractor WW DRILLING, LLC RIG #10 Charge to MULL DRILLING COMPANY, INC.
Elevation 2513 KB Formation LANSING "J,K,L" Effective Pay _____ Ft. Ticket No. T336
Date 4-20-14 Sec. 31 Twp. _____ 15 S Range _____ 26 W County GOVE State KANSAS
Test Approved By KEVIN KESSLER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 4005 ft. to 4100 ft. Total Depth 4100 ft.
Packer Depth 4000 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4005 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3986 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4097 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 46 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 7.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,400 P.P.M. Drill Pipe Length 3849 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 32 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{63' 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 1 1/2 INCHES. (NO BB)

Recovered 20 ft. of MUD
Recovered 60 ft. of SOCM, 2% OIL, 98% MUD
Recovered 80 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 1% OIL, 99% MUD	Total

Time Set Packer(s) 10:26 AM ^{A.M.} P.M. Time Started Off Bottom 2:01 PM ^{A.M.} P.M. Maximum Temperature 113 deg.

Initial Hydrostatic Pressure..... (A) 1906 P.S.I.
Initial Flow Period..... Minutes 5 (B) 8 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1149 P.S.I.
Final Flow Period..... Minutes 60 (E) 16 P.S.I. to (F) 50 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1114 P.S.I.
Final Hydrostatic Pressure..... (H) 1897 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 CURTIS UNIT #2-31
Unique Well ID DST #4, MARMATON, 4095-4200
Surface Location SEC 31-15S-26W, GOVE CO. KS.
Field HORCHEM WEST
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #4, MARMATON, 4095-4200
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2014/04/21
Prepared By TIM VENTERS
Qualified By KEVIN KESSLER

Start Test Date 2014/04/21
Final Test Date 2014/04/21

Start Test Time 02:41:00
Final Test Time 08:14:00

Test Recovery:

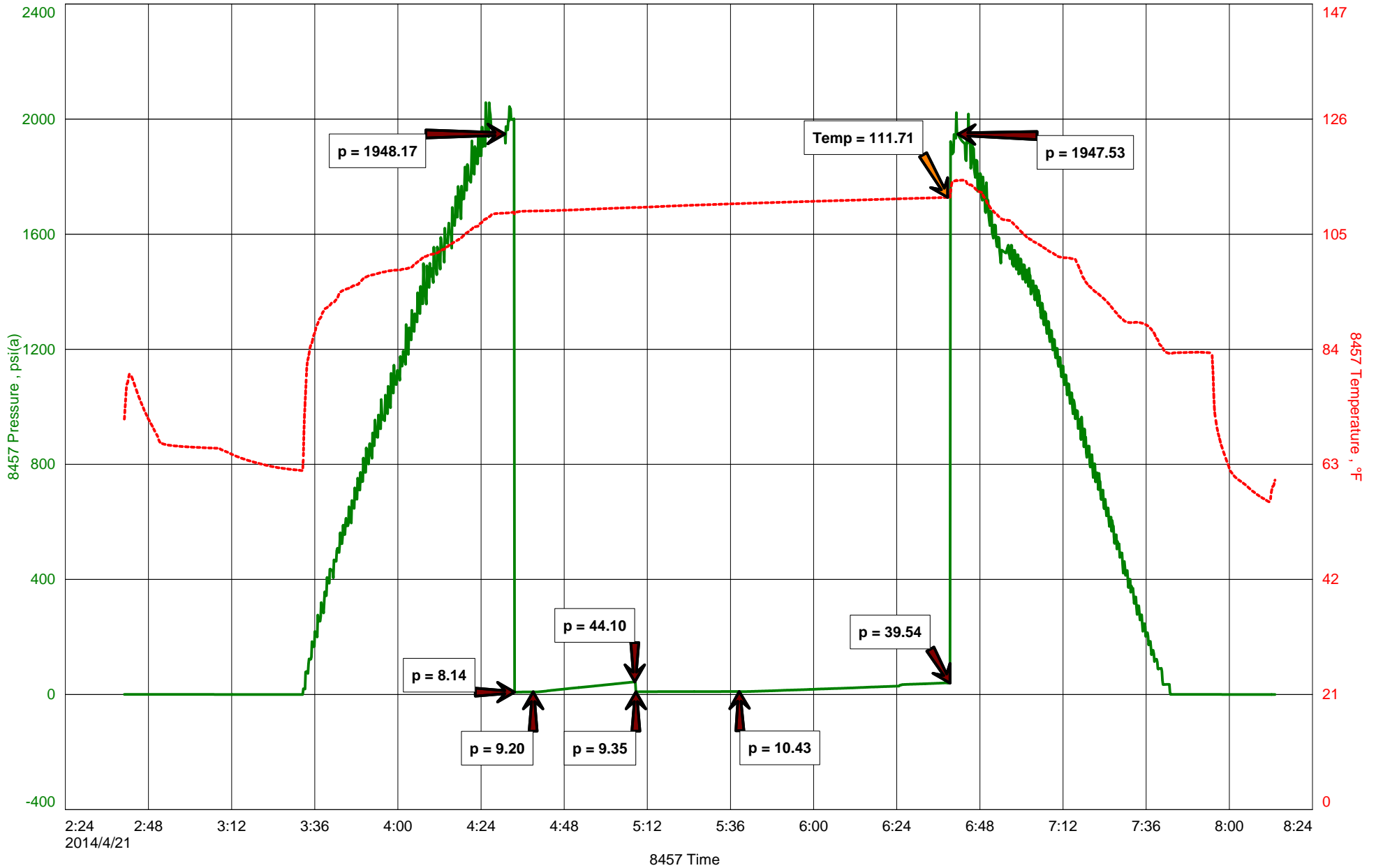
RECOVERED: 5' MUD

TOOL SAMPLE: 100% MUD

MULL DRILLING COMPANY, INC.
DST #4, MARMATON, 4095-4200
Start Test Date: 2014/04/21
Final Test Date: 2014/04/21

CURTIS UNIT #2-31
Formation: DST #4, MARMATON, 4095-4200
Pool: HORCHEM WEST
Job Number: T337

CURTIS UNIT #2-31





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CURTISUNIT2-31DST4

TIME ON: 02:41
TIME OFF: 08:14

Company MULL DRILLING COMPANY, INC. Lease & Well No. CURTIS UNIT #2-31
Contractor WW DRILLING, LLC RIG #10 Charge to MULL DRILLING COMPANY, INC.
Elevation 2513 KB Formation MARMATON Effective Pay _____ Ft. Ticket No. T337
Date 4-21-14 Sec. 31 Twp. 15 S Range 26 W County GOVE State KANSAS
Test Approved By KEVIN KESSLER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 4095 ft. to 4200 ft. Total Depth 4200 ft.
Packer Depth 4090 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4095 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4076 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4197 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 46 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 7.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,400 P.P.M. Drill Pipe Length 3939 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 42 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{63' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW THROUGHOUT PERIOD. (NO BB)
2nd Open: NO BLOW THROUGHOUT PERIOD. (NO BB)

Recovered <u>5</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: 100% MUD	Total

Time Set Packer(s) 4:33 AM ^{A.M.} P.M. Time Started Off Bottom 6:38 AM ^{A.M.} P.M. Maximum Temperature 112 deg.
Initial Hydrostatic Pressure..... (A) 1948 P.S.I.
Initial Flow Period..... Minutes 5 (B) 8 P.S.I. to (C) 9 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 44 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) 40 P.S.I.
Final Hydrostatic Pressure..... (H) 1948 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 CURTIS UNIT #2-31
Unique Well ID DST #5, FT. SCOTT, 4260-4330
Surface Location SEC 31-15S-26W, GOVE CO. KS.
Field HORCHEM WEST
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #5, FT. SCOTT, 4260-4330
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2014/04/22
Prepared By TIM VENTERS
Qualified By KEVIN KESSLER

Start Test Date 2014/04/21
Final Test Date 2014/04/22

Start Test Time 22:45:00
Final Test Time 04:27:00

Test Recovery:

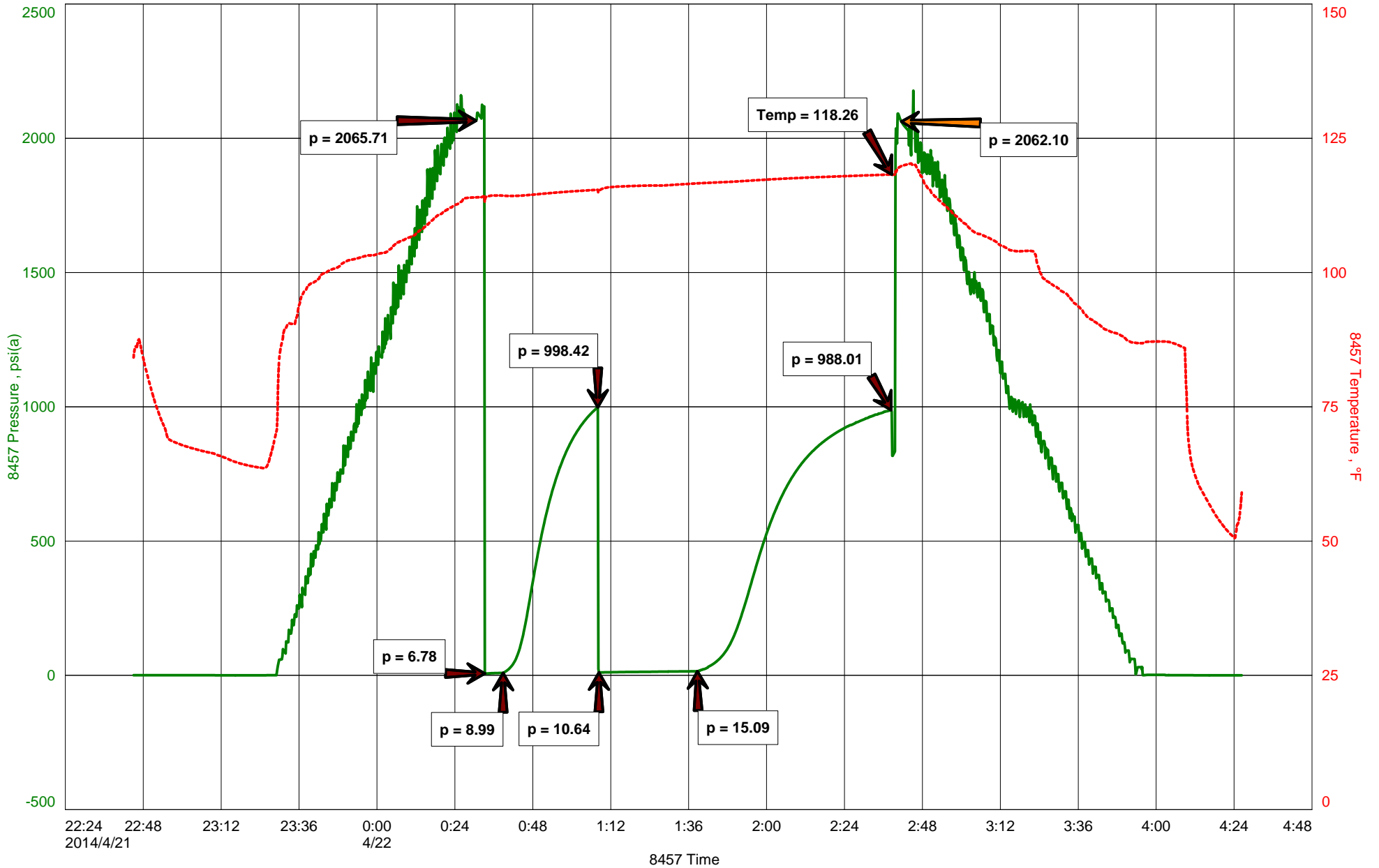
RECOVERED: 10' MUD

TOOL SAMPLE: SPECKS OIL, 100% MUD

MULL DRILLING COMPANY, INC.
DST #5, FT. SCOTT, 4260-4330
Start Test Date: 2014/04/21
Final Test Date: 2014/04/22

CURTIS UNIT #2-31
Formation: DST #5, FT. SCOTT, 4260-4330
Pool: HORCHEM WEST
Job Number: T338

CURTIS UNIT #2-31





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CURTISUNIT2-31DST5

TIME ON: 22:45 4-21-14
TIME OFF: 04:27 4-22-14

Company MULL DRILLING COMPANY, INC. Lease & Well No. CURTIS UNIT #2-31
Contractor WW DRILLING, LLC RIG #10 Charge to MULL DRILLING COMPANY, INC.
Elevation 2513 KB Formation FT. SCOTT Effective Pay _____ Ft. Ticket No. T338
Date 4-22-14 Sec. 31 Twp. _____ 15 S Range _____ 26 W County GOVE State KANSAS
Test Approved By KEVIN KESSLER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 5 Interval Tested from 4260 ft. to 4330 ft. Total Depth 4330 ft.
Packer Depth 4255 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4260 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4241 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4327 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 51 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 7.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,200 P.P.M. Drill Pipe Length 4104 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 38 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{32' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1/4 INCH. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, LASTING 3 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>SPECKS OIL, 100% MUD</u>	Total

Time Set Packer(s) 12:33 AM ^{A.M.} P.M. Time Started Off Bottom 2:38 AM ^{A.M.} P.M. Maximum Temperature 118 deg.
Initial Hydrostatic Pressure..... (A) 2066 P.S.I.
Initial Flow Period..... Minutes 5 (B) 7 P.S.I. to (C) 9 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 998 P.S.I.
Final Flow Period..... Minutes 30 (E) 11 P.S.I. to (F) 15 P.S.I.
Final Closed In Period..... Minutes 60 (G) 988 P.S.I.
Final Hydrostatic Pressure..... (H) 2062 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 CURTIS UNIT #2-31
Unique Well ID DST #6, MISSISSIPPIAN, 4310-4385
Surface Location SEC 31-15W-26W, GOVE CO. KS.
Field HORCHEM WEST
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #6, MISSISSIPPIAN, 4310-4385
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2014/04/22
Prepared By TIM VENTERS
Qualified By KEVIN KESSLER

Start Test Date 2014/04/22
Final Test Date 2014/04/22

Start Test Time 13:23:00
Final Test Time 19:24:00

Test Recovery:

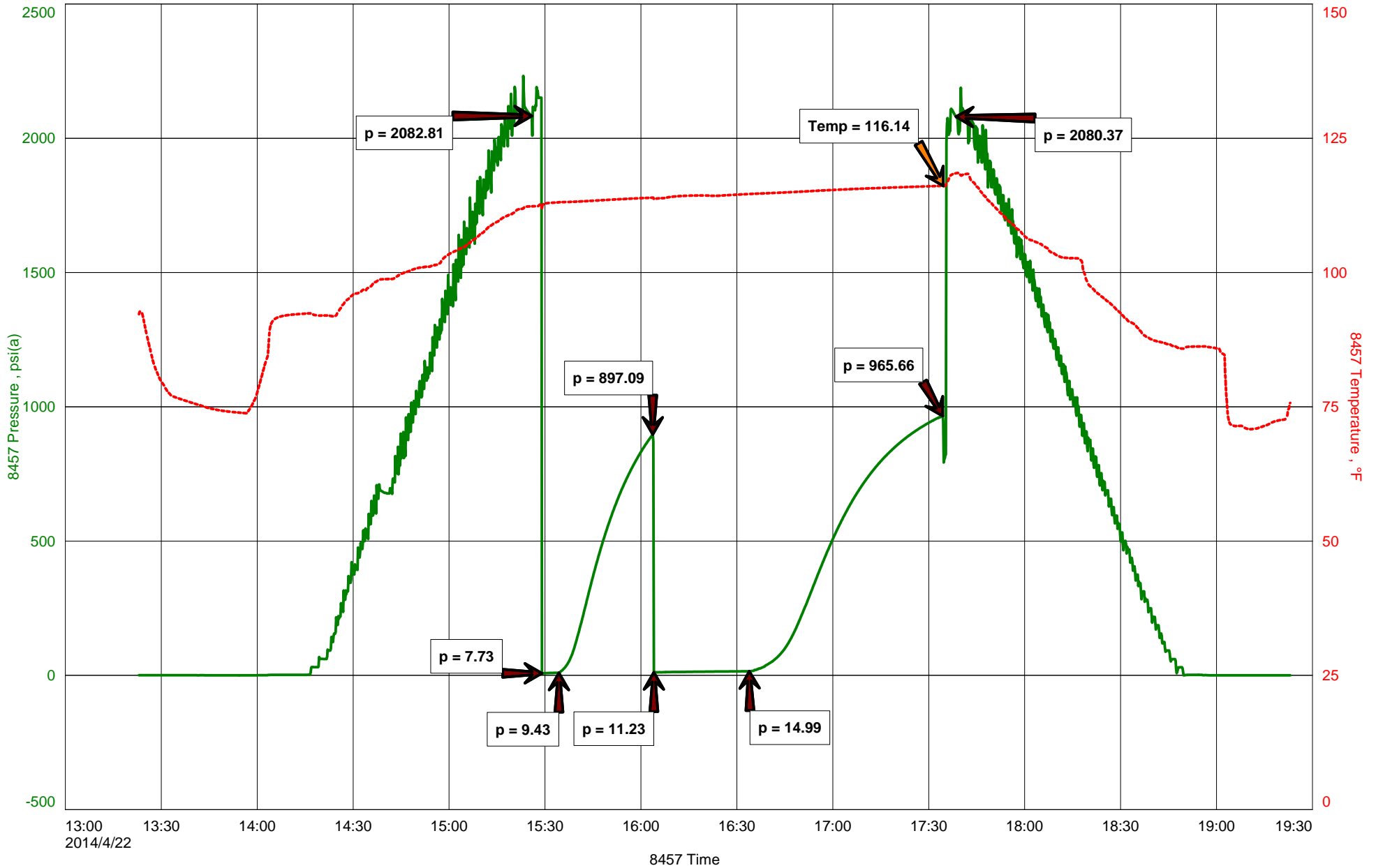
RECOVERED: 5' MUD

TOOL SAMPLE: SPECKS OIL, 100% MUD

MULL DRILLING COMPANY, INC.
DST #6, MISSISSIPPIAN, 4310-4385
Start Test Date: 2014/04/22
Final Test Date: 2014/04/22

CURTIS UNIT #2-31
Formation: DST #6, MISSISSIPPIAN, 4310-4385
Pool: HORCHEM WEST
Job Number: T339

CURTIS UNIT #2-31





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CURTISUNIT2-31DST6

TIME ON: 13:23
TIME OFF: 19:24

Company MULL DRILLING COMPANY, INC. Lease & Well No. CURTIS UNIT #2-31
Contractor WW DRILLING, LLC RIG #10 Charge to MULL DRILLING COMPANY, INC.
Elevation 2513 KB Formation MISSISSIPPIAN Effective Pay _____ Ft. Ticket No. T339
Date 4-22-14 Sec. 31 Twp. _____ 15 S Range _____ 26 W County GOVE State KANSAS
Test Approved By KEVIN KESSLER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 6 Interval Tested from 4310 ft. to 4385 ft. Total Depth 4385 ft.
Packer Depth 4305 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4310 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4291 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4382 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 50 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,800 P.P.M. Drill Pipe Length 4154 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 43 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{32' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1/4 INCH. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, LASTING 23 1/2 MIN. (NO BB)

Recovered 5 ft. of MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

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

Time Set Packer(s) 3:28 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 5:33 PM ^{A.M.}/_{P.M.} Maximum Temperature 116 deg.

Initial Hydrostatic Pressure..... (A) 2083 P.S.I.
Initial Flow Period..... Minutes 5 (B) 8 P.S.I. to (C) 9 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 897 P.S.I.
Final Flow Period..... Minutes 30 (E) 11 P.S.I. to (F) 15 P.S.I.
Final Closed In Period..... Minutes 60 (G) 966 P.S.I.
Final Hydrostatic Pressure..... (H) 2080 P.S.I.

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KEVIN L. KESSLER
CONSULTING PETROLEUM GEOLOGIST
 (316) 522-7338

OPERATOR : MULL DRILLING COMPANY INC.
LEASE : CURTIS UNIT WELL # : 2 - 31
LOCATION : 1512' FNL & 2582' FEL
SEC: 31 TWP : 15 S RGE : 26 W
COUNTY : GOVE STATE : KANSAS

ELEVATION
KB : 2513'
GL : 2508'
 MEASUREMENTS FROM
KB

CONTRACTOR : WW DRILLING RIG # 10
COMM : 04 / 15 / 2014 COMP : 04 / 23 / 2014
RTD : 4500 LOG TD : 4502
SAMPLES SAVED FROM : 3600 TO: RTD
GEOLOGICAL SUPERVISION FROM : 3600 TO : RTD
MUD UP : 3500 TYPE MUD : CHEMICAL

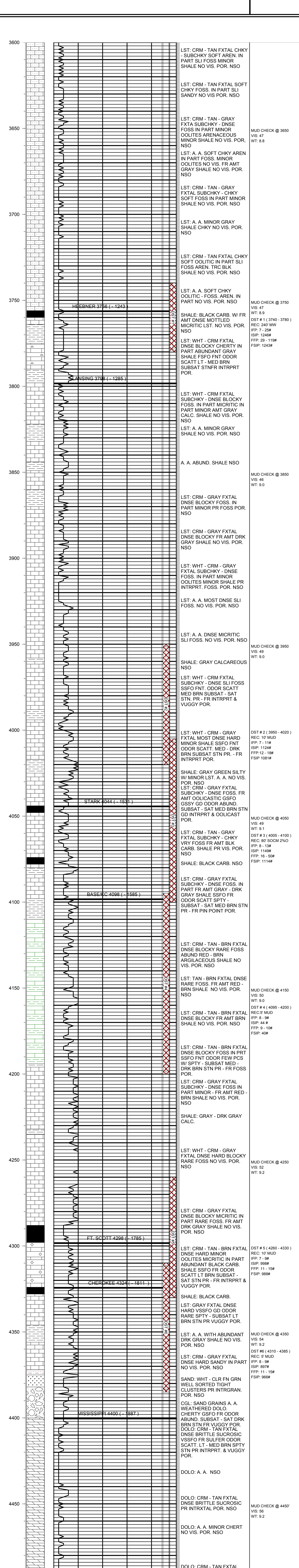
CASING RECORD
SURFACE :
8 5/8" @ 215'
PRODUCTION :

ELECTRICAL SURVEYS:

FORMATION	TOP	SAMPLE	DATUM	TOP	LOG	DATUM	STRUCT. COMP.
HEEBNER	3756		- 1243	3756		- 1243	- 12
LANSING	3798		- 1285	3798		- 1285	- 11
STARK	4044		- 1531	4044		- 1531	- 13
BASE/ KC	4098		- 1585	4098		- 1585	- 09
FORT SCOTT	4298		- 1785	4298		- 1785	- 15
CHEROKEE	4324		- 1811	4324		- 1811	- 13
MISSISSIPPI	4400		- 1887	4400		- 1887	- 21

REFERENCE WELL FOR STRUCTURAL COMPARISON :

MULL DRLG CO INC # 1 - 31 CURTIS ' B' SEC 31 - T 15 S - R 26 W GOVE COUNTY KANSAS



COMMENTS:

DUE TO LOW STRUCTURAL POSITION & NEGATIVE DST RESULTS
THIS WELL WAS PLUGGED AS D & A

KEVIN L. KESSLER