



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1234150
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: _____

1234150

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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	RLL 1-25
Doc ID	1234150

All Electric Logs Run

CDL/CNL/PE
DIL
MEL
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	RLL 1-25
Doc ID	1234150

Tops

Name	Top	Datum
Anhydrite	2216	+ 315
B/Anhydrite	2249	+ 283
Topeka	3505	- 974
Heebner Shale	3717	- 1186
Lansing	3755	- 1224
B/KC	3958	- 1427
Marmaton	4006	- 1475
Cherokee	4161	- 1630
Mississippian	4280	- 1749



CONSOLIDATED
Oil Well Services, LLC

210879

TICKET NUMBER 46655
LOCATION October 10
FOREMAN Miles Shaw

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-2-14	5659	RLL #1-25	25	7S	26W	Sherman
CUSTOMER <u>Mull</u>			5-trailers @ 3474 W W: nfo			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			45678	Jeremy R		
STATE			400	Rob S		
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 259' CASING SIZE & WEIGHT 2 5/8" 23#
 CASING DEPTH 259.5 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 156bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and recap on well drilling rig # 4 Circulate casing mix 200 sks Class A cement with 38 calcium chloride 29 gal displaced 156bbls Water shut in cement did circulate 4bbls to pit

Thanks Miles Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150. ⁰⁰	1150. ⁰⁰
5406	25	MILEAGE	5.25	131.25
5107	9.4 TONS	Ton Materials delivery	430. ⁰⁰	430. ⁰⁰
1102	564 #	Calcium Chloride	1.94	530.16
11045	200 SKS	Class A Cement	18.55	3710. ⁰⁰
11080	376 #	Bentonite gel	127	101.52
			Subtotal	6052.93
			less 10% discount	605.29
			Subtotal	5447.64
			SALES TAX	318.47
			ESTIMATED TOTAL	5766.11

Ravin 3737

AUTHORIZATION Maul Bgise TITLE Tool Pusher DATE _____

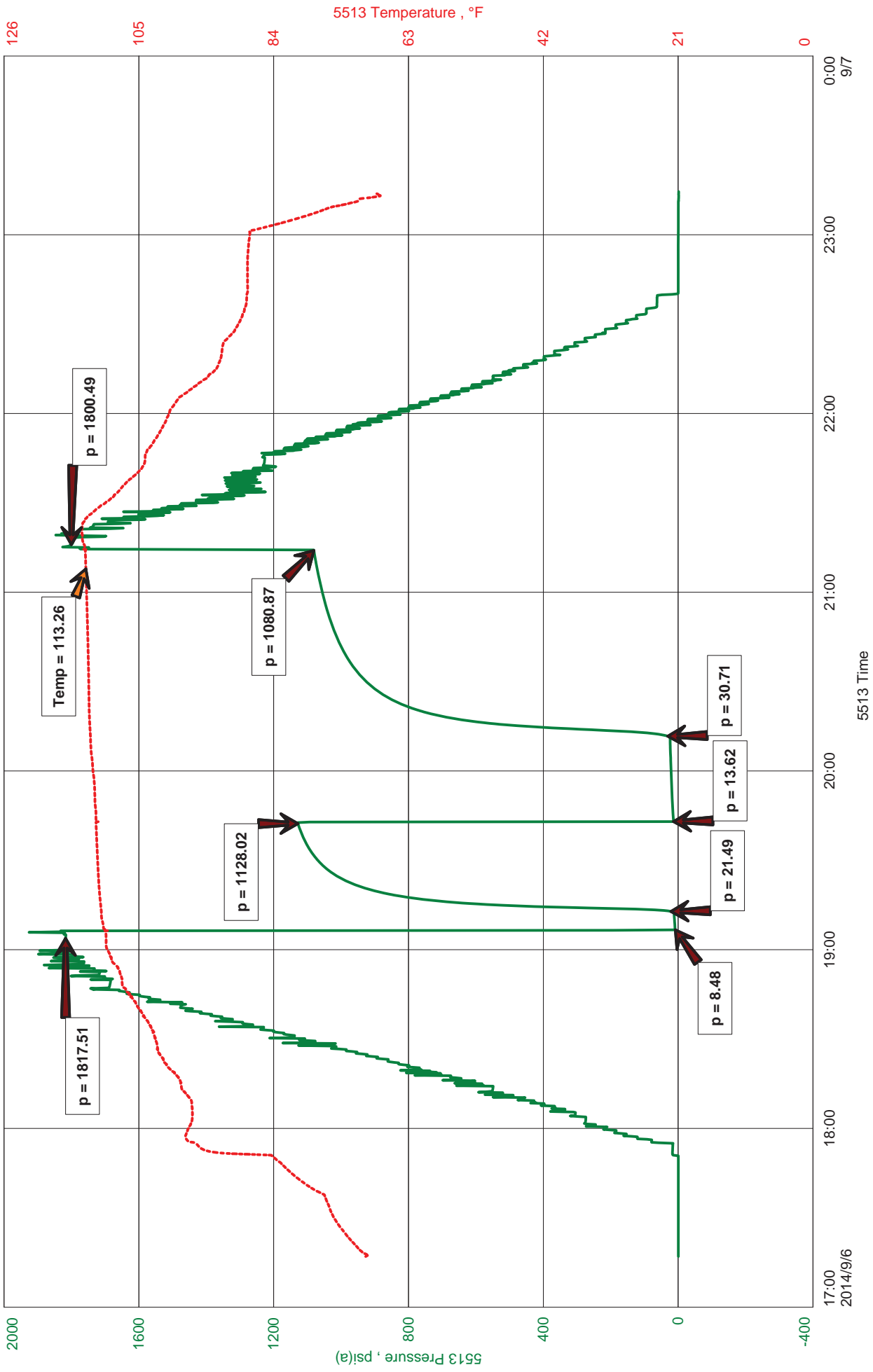
I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

10/20/14 11-78

Mull Drilling Company, Inc
DST #1 Lans. B 3770-3795
Start Test Date: 2014/09/06
Final Test Date: 2014/09/06

RLL #1-25
Formation: Lansing B
Pool: Wildcat
Job Number: K165

RLL #1-25





JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name	Mull Drilling Company, Inc	Job Number	K165
Contact	Toby Eck	Representative	Jason McLemore
Well Name	RLL #1-25	Well Operator	Mull Drilling Company, Inc
Unique Well ID	DST #1 Lans. B 3770-3795	Prepared By	Jason McLemore
Surface Location	25-7s-26w-Sheridan	Qualified By	Kevin Kessler
Field	Wildcat	Test Unit	6
Well Type	Vertical		

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	Lansing B	Well Operator	Mull Drilling Company, Inc
Well Fluid Type	01 Oil	Report Date	2014/09/06
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore
Start Test Date	2014/09/06	Start Test Time	17:17:00
Final Test Date	2014/09/06	Final Test Time	23:19:00

Test Results

RECOVERED:

5	Drilling Mud
5	TOTAL FLUID



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: rl1dst1

TIME ON: 5:17 PM
TIME OFF: 11:19 PM

Company Mull Drilling Company, Inc. Lease & Well No. RLL #1-25
Contractor WW #4 Charge to Mull Drilling Company, Inc.
Elevation KB 2531 Formation Lansing B Effective Pay _____ Ft. Ticket No. K165
Date 9-6-14 Sec. 25 Twp. 7 S Range 26 W County Sheridan State KANSAS
Test Approved By Kevin Kessler Diamond Representative Jason McLemore

Formation Test No. 1 Interval Tested from 3770 ft. to 3795 ft. Total Depth 3795 ft.
Packer Depth 3765 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3770 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3751 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3752 ft. Recorder Number 5588 Cap. 6000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 57 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 600 P.P.M. Drill Pipe Length 3615 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 6 Test Tool Length 32 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. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak Surface Blow, No Blowback
2nd Open: Dead

Recovered 5 ft. of Drilling Mud
Recovered 5 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 7:16 PM A.M. P.M. Time Started Off Bottom 9:21 PM A.M. P.M. Maximum Temperature 113

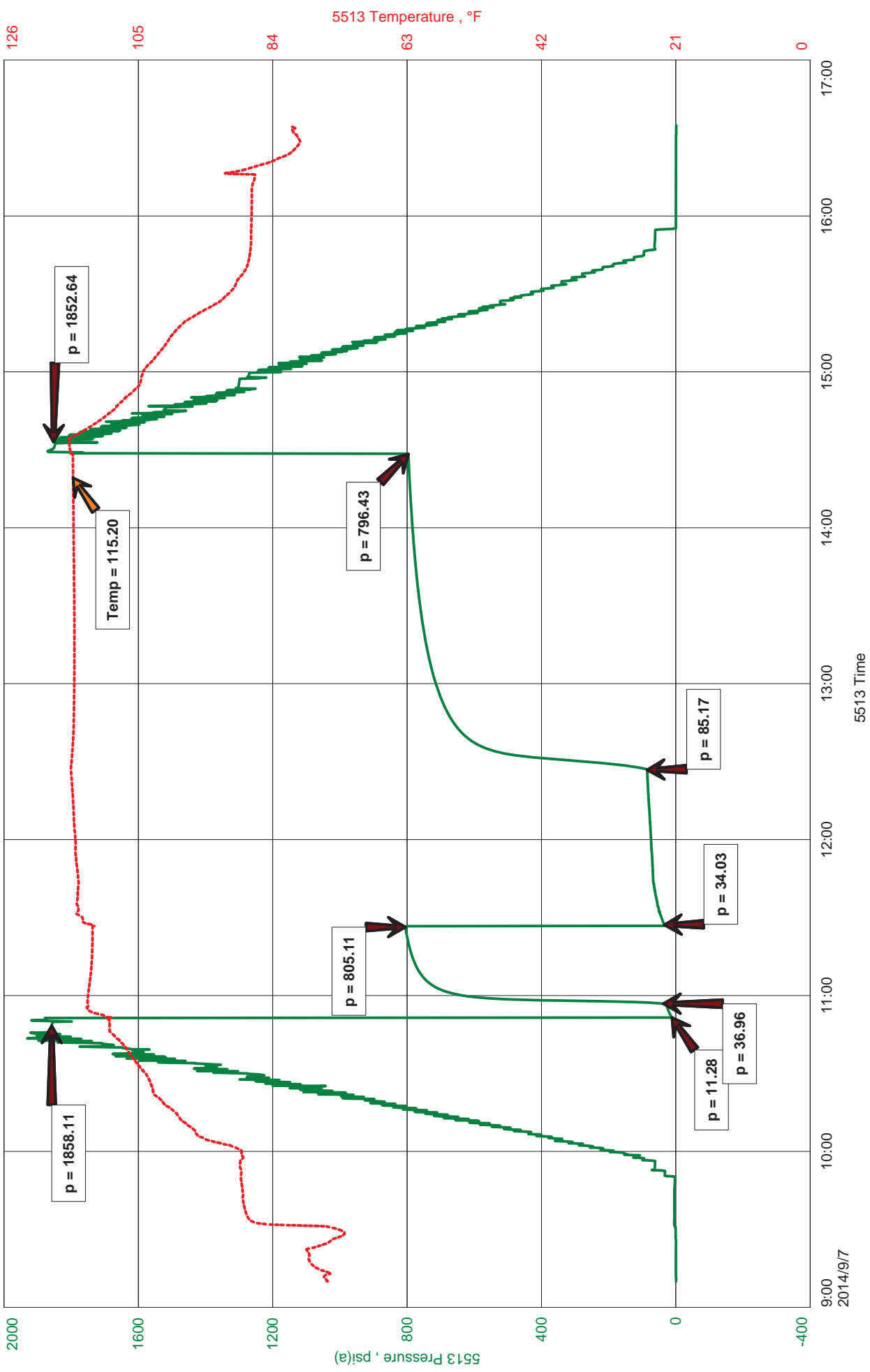
Initial Hydrostatic Pressure..... (A) 1818 P.S.I.
Initial Flow Period..... Minutes 5 (B) 8 P.S.I. to (C) 21 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1128 P.S.I.
Final Flow Period..... Minutes 30 (E) 14 P.S.I. to (F) 31 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1081 P.S.I.
Final Hydrostatic Pressure..... (H) 1800 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.

Mull Drilling Company, Inc
DST #2 Lans. E-F 3805-3865
Start Test Date: 2014/09/07
Final Test Date: 2014/09/07

RLL #1-25
Formation: Lansing E-F
Pool: Wildcat
Job Number: K166

RLL #1-25





JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name	Mull Drilling Company, Inc	Job Number	K166
Contact	Toby Eck	Representative	Jason Mclemore
Well Name	RLL #1-25	Well Operator	Mull Drilling Company, Inc
Unique Well ID	DST #2 Lans. E-F 3805-3865	Prepared By	Jason McLemore
Surface Location	25-7s-26w-Sheridan	Qualified By	Kevin Kessler
Field	Wildcat	Test Unit	6
Well Type	Vertical		

Test Information

Test Type	Drill Stem Test	Representative	Jason Mclemore
Formation	Lansing E-F	Well Operator	Mull Drilling Company, Inc
Well Fluid Type	01 Oil	Report Date	2014/09/07
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore
Start Test Date	2014/09/07	Start Test Time	09:10:00
Final Test Date	2014/09/07	Final Test Time	16:47:00

Test Results

RECOVERED:

15	Free Oil
150	OCM, 10% Oil, 90% Mud
165	TOTAL FLUID

60' Gas In pipe

GRAVITY: 39



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: rl1dst2

TIME ON: 9:10 AM
TIME OFF: 4:47 PM

Company Mull Drilling Company, Inc. Lease & Well No. RLL #1-25
Contractor WW #4 Charge to Mull Drilling Company, Inc.
Elevation KB 2531 Formation Lansing E-F Effective Pay _____ Ft. Ticket No. K166
Date 9-7-14 Sec. 25 Twp. 7 S Range 26 W County Sheridan State KANSAS
Test Approved By Kevin Kessler Diamond Representative Jason McLemore

Formation Test No. 2 Interval Tested from 3805 ft. to 3865 ft. Total Depth 3865 ft.
Packer Depth 3800 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3805 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3786 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3787 ft. Recorder Number 5588 Cap. 6000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 60 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 6.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 700 P.P.M. Drill Pipe Length 3650 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 6 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? No Reversed Out No Anchor Length 60 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{31' Drill Pipe in Anchor} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak Surface Blow, No Blowback
2nd Open: Dead

Recovered 15 ft. of Free Oil
Recovered 150 ft. of OCM 10% Oil, 90% Mud
Recovered 165 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>60' Gas In Pipe</u>	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>GRAVITY: 39</u>	
Tool Sample: <u>Oil Cut Mud, 25% Oil, 75% Mud</u>	
	Total

Time Set Packer(s) 10:58 AM ^{A.M.} P.M. Time Started Off Bottom 2:33 PM ^{A.M.} P.M. Maximum Temperature 115

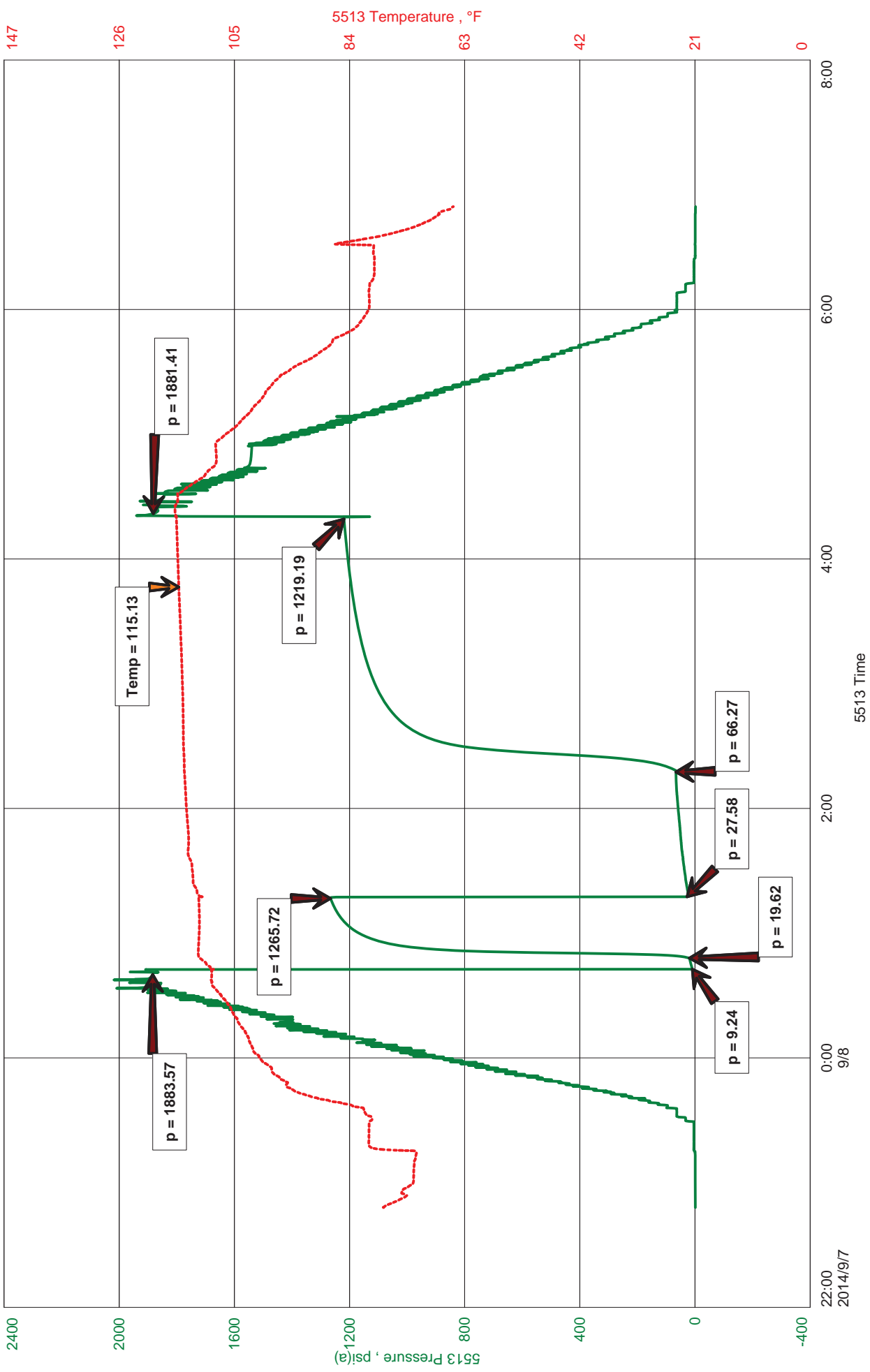
Initial Hydrostatic Pressure..... (A) 1858 P.S.I.
Initial Flow Period..... Minutes 5 (B) 11 P.S.I. to (C) 37 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 805 P.S.I.
Final Flow Period..... Minutes 60 (E) 34 P.S.I. to (F) 85 P.S.I.
Final Closed In Period..... Minutes 120 (G) 796 P.S.I.
Final Hydrostatic Pressure..... (H) 1853 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.

Mull Drilling Company, Inc
DST #3 Lansing H 3855-3890
Start Test Date: 2014/09/07
Final Test Date: 2014/09/08

RLL #1-25
Formation: Lansing H
Pool: Wildcat
Job Number: K167

RLL #1-25





JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name	Mull Drilling Company, Inc	Contact	Toby Eck	Job Number	K167
Well Name		Unique Well ID	RLL #1-25	Representative	Jason McLemore
Surface Location	DST #3 Lansing H 3855-3890	Field	25-7s-26w-Sheridan	Well Operator	Mull Drilling Company, Inc
Well Type		Prepared By	Wildcat	Qualified By	Jason McLemore
		Test Unit	Vertical		Kevin Kessler
					6

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	Lansing H	Well Operator	Mull Drilling Company, Inc
Well Fluid Type	01 Oil	Report Date	2014/09/08
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore
Start Test Date	2014/09/07	Start Test Time	22:48:00
Final Test Date	2014/09/08	Final Test Time	06:49:00

Test Results

RECOVERED:

5	Free Oil
120	OCM, 8% Oil, 92% Mud
125	TOTAL FLUID

GRAVITY: 39



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: rl1dst3

TIME ON: 10:48 PM
TIME OFF: 6:49 AM

Company Mull Drilling Company, Inc. Lease & Well No. RLL #1-25
Contractor WW #4 Charge to Mull Drilling Company, Inc.
Elevation KB 2531 Formation Lansing H Effective Pay _____ Ft. Ticket No. K167
Date 9-7-14 Sec. 25 Twp. 7 S Range 26 W County Sheridan State KANSAS
Test Approved By Kevin Kessler Diamond Representative Jason McLemore

Formation Test No. 3 Interval Tested from 3855 ft. to 3890 ft. Total Depth 3890 ft.
Packer Depth 3850 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3855 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3836 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3837 ft. Recorder Number 5588 Cap. 6000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 60 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 6.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 700 P.P.M. Drill Pipe Length 3700 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 6 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? No Reversed Out No Anchor Length 35 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 Blow, Built to 1", No Blowback
2nd Open: Fair Blow, Built to 7", No Blowback

Recovered 5 ft. of Free Oil
Recovered 120 ft. of OCM 8% Oil, 92% Mud
Recovered 125 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>GRAVITY: 39</u>	Total

Time Set Packer(s) 12:47 AM A.M. P.M. Time Started Off Bottom 4:22 AM A.M. P.M. Maximum Temperature 115

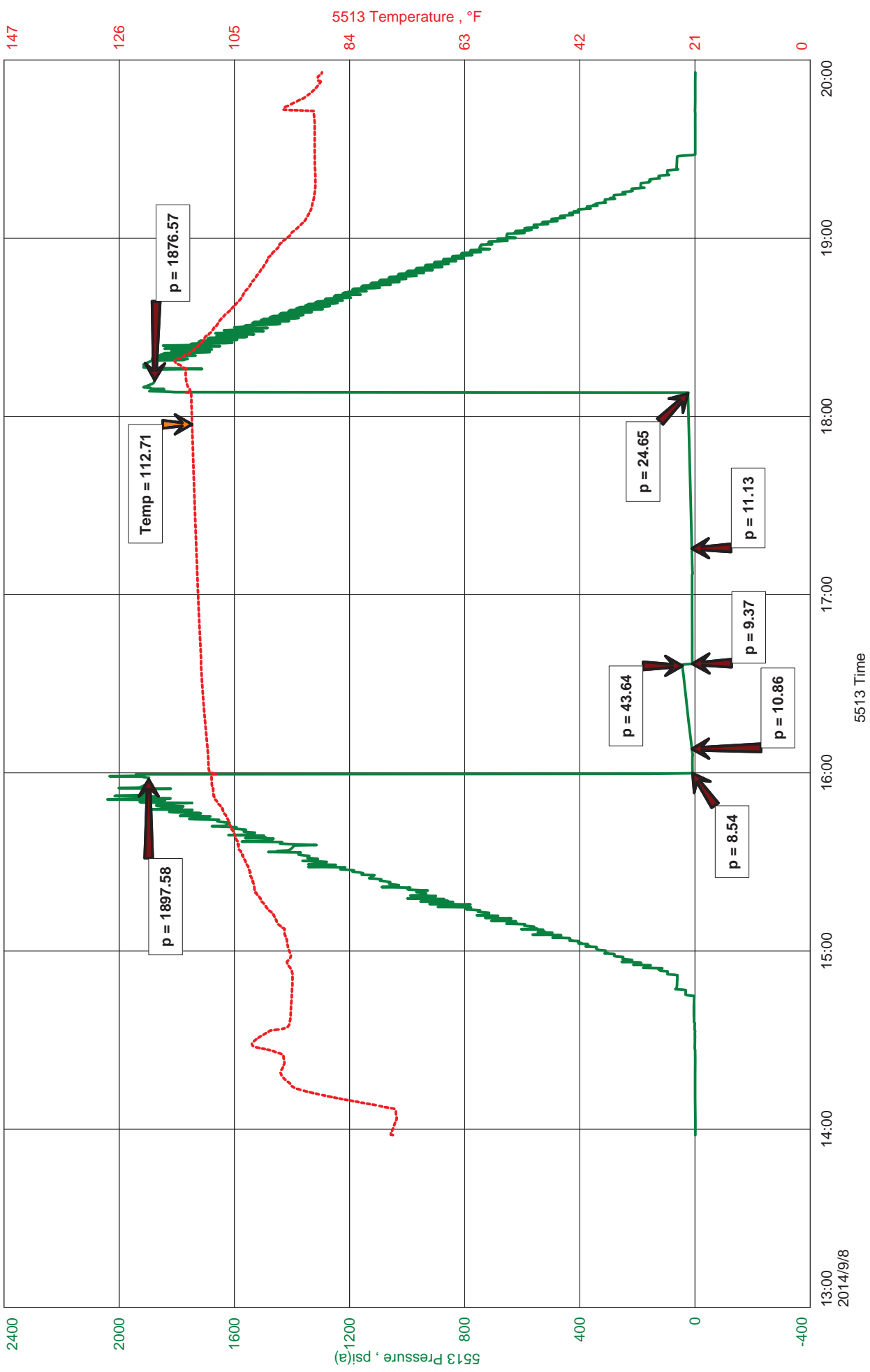
Initial Hydrostatic Pressure..... (A) 1884 P.S.I.
Initial Flow Period..... Minutes 5 (B) 9 P.S.I. to (C) 20 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1266 P.S.I.
Final Flow Period..... Minutes 60 (E) 28 P.S.I. to (F) 66 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1219 P.S.I.
Final Hydrostatic Pressure..... (H) 1881 P.S.I.

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Mull drilling Company Inc
DST #4 lansing J 3890-3920
Start Test Date: 2014/09/08
Final Test Date: 2014/09/08

RLL #1-25
Formation: Lansing J
Pool: Wildcat
Job Number: K168

RLL #1-25





JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name	Mull drilling Company Inc	Job Number	K168
Contact	Toby Eck	Representative	Jason McLemore
Well Name	RLL #1-25	Well Operator	Mull drilling Company Inc
Unique Well ID	DST #4 lansing J 3890-3920	Prepared By	Jason McLemore
Surface Location	25-7s-26w-Sheridan	Qualified By	Kevin Kessler
Field	Wildcat	Test Unit	6
Well Type	Vertical		

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	Lansing J	Well Operator	Mull drilling Company Inc
Well Fluid Type	01 Oil	Report Date	2014/09/08
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore

Start Test Date	2014/09/08	Start Test Time	13:58:00
Final Test Date	2014/09/08	Final Test Time	19:57:00

Test Results

RECOVERED:

1/2'	Mud W/Oil Specks, <1% Oil
1/2"	TOTAL FLUID



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: rll1dst4

TIME ON: 1:58 PM
TIME OFF: 7:57 PM

Company Mull Drilling Company, Inc. Lease & Well No. RLL #1-25
Contractor WW #4 Charge to Mull Drilling Company, Inc.
Elevation KB 2531 Formation Lansing J Effective Pay _____ Ft. Ticket No. K168
Date 9-8-14 Sec. 25 Twp. 7 S Range 26 W County Sheridan State KANSAS
Test Approved By Kevin Kessler Diamond Representative Jason McLemore

Formation Test No. 4 Interval Tested from 3890 ft. to 3920 ft. Total Depth 3920 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 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3872 ft. Recorder Number 5588 Cap. 6000 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 9.2 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 700 P.P.M. Drill Pipe Length 3735 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 6 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? No Reversed Out No Anchor Length 30 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 Blow, Died in 3 Minutes
2nd Open: Dead

Recovered 1/2 ft. of Mud W/Oil Specks <1% Oil
Recovered 1/2 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 4:06 PM A.M. P.M. Time Started Off Bottom 6:11 PM A.M. P.M. Maximum Temperature 113

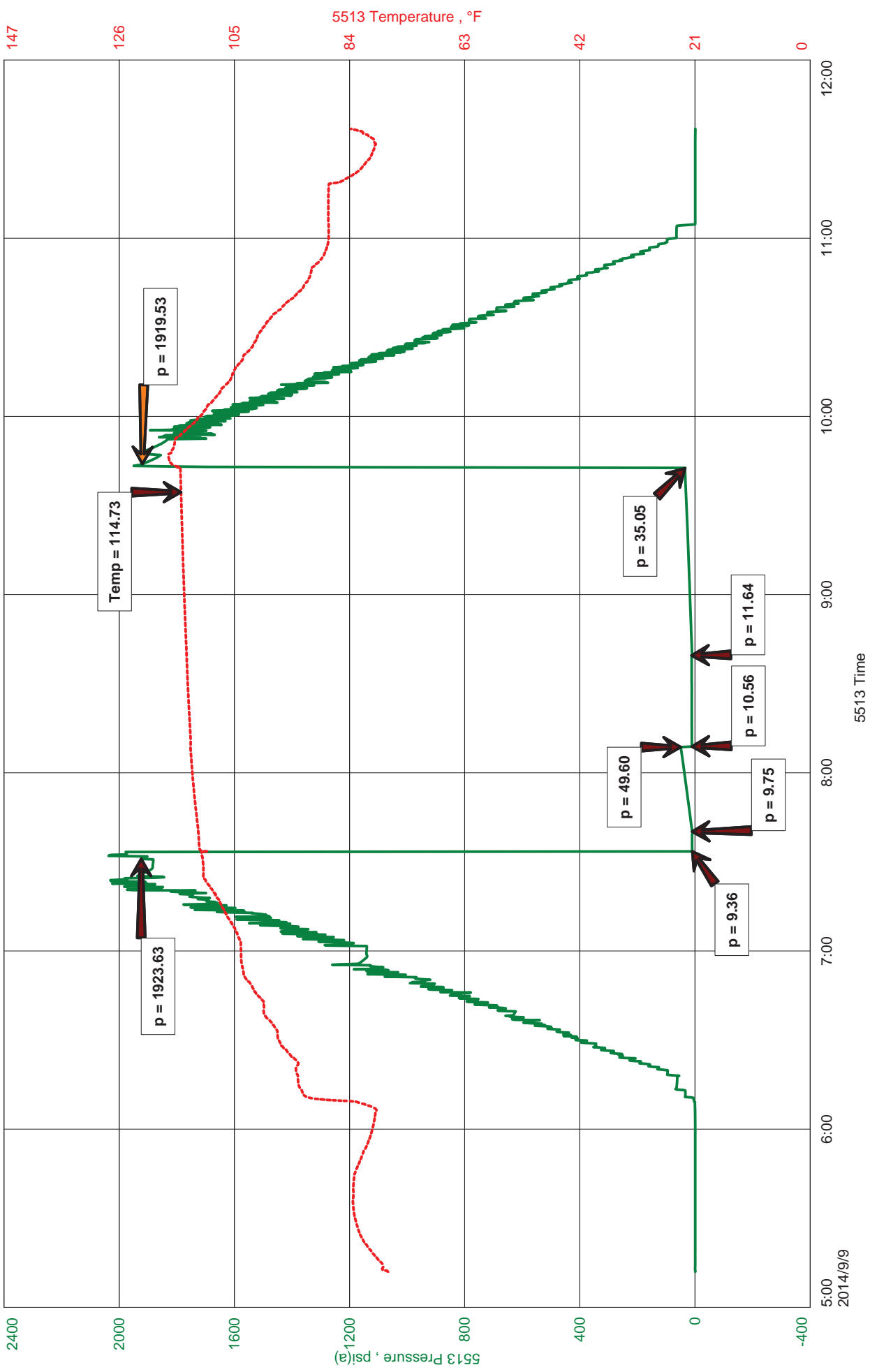
Initial Hydrostatic Pressure..... (A) 1898 P.S.I.
Initial Flow Period..... Minutes 5 (B) 9 P.S.I. to (C) 11 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 44 P.S.I.
Final Flow Period..... Minutes 30 (E) 9 P.S.I. to (F) 11 P.S.I.
Final Closed In Period..... Minutes 60 (G) 25 P.S.I.
Final Hydrostatic Pressure..... (H) 1877 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.

Mull drilling Company Inc
DST #5 Lansing K-L 3915-3965
Start Test Date: 2014/09/09
Final Test Date: 2014/09/09

RLL #1-25
Formation: Lansing K-L
Pool: Wildcat
Job Number: K169

RLL #1-25



2400

2000

1600

1200

800

400

0

-400

147

126

105

84

63

42

21

0

12:00

11:00

10:00

9:00

8:00

7:00

6:00

5:00

2014/9/9



JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name	Mull drilling Company Inc	Toby Eck	Job Number	K169
Contact		RLL #1-25	Representative	Jason McLemore
Well Name		DST #5 Lansing K-L 3915-3965	Well Operator	Mull drilling Company Inc
Unique Well ID		25-7s-26w-Sheridan	Prepared By	Jason McLemore
Surface Location		Wildcat	Qualified By	Kevin Kessler
Field		Vertical	Test Unit	6
Well Type				

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	Lansing K-L	Well Operator	Mull drilling Company Inc
Well Fluid Type	01 Oil	Report Date	2014/09/09
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore
Start Test Date	2014/09/09	Start Test Time	05:12:00
Final Test Date	2014/09/09	Final Test Time	11:39:00

Test Results

RECOVERED:

3	Drilling Mud
3	TOTAL FLUID



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: rll1dst5

TIME ON: 5:12 AM
TIME OFF: 11:39 AM

Company Mull Drilling Company, Inc. Lease & Well No. RLL #1-25
Contractor WW #4 Charge to Mull Drilling Company, Inc.
Elevation KB 2531 Formation Lansing K-L Effective Pay _____ Ft. Ticket No. K169
Date 9-9-14 Sec. 25 Twp. 7 S Range 26 W County Sheridan State KANSAS
Test Approved By Kevin Kessler Diamond Representative Jason McLemore

Formation Test No. 5 Interval Tested from 3915 ft. to 3965 ft. Total Depth 3965 ft.
Packer Depth 3810 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3915 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3896 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3897 ft. Recorder Number 5588 Cap. 6000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 60 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 900 P.P.M. Drill Pipe Length 3760 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 6 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? No Reversed Out No Anchor Length 50 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
2nd Open: Dead

Recovered 3 ft. of Drilling Mud
Recovered 3 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 7:41 AM A.M. P.M. Time Started Off Bottom 9:46 AM A.M. P.M. Maximum Temperature 115

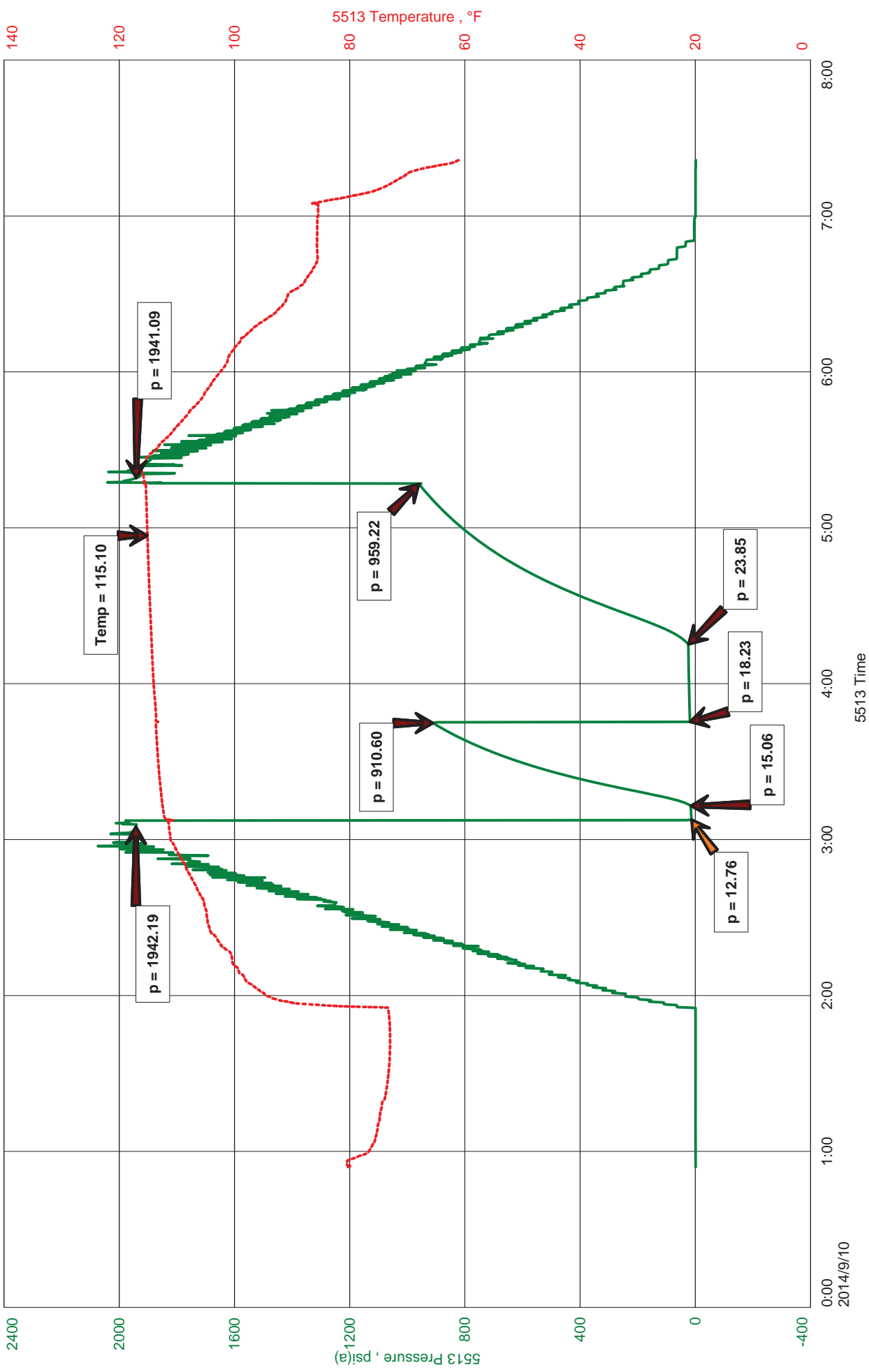
Initial Hydrostatic Pressure..... (A) 1924 P.S.I.
Initial Flow Period..... Minutes 5 (B) 9 P.S.I. to (C) 10 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 50 P.S.I.
Final Flow Period..... Minutes 30 (E) 11 P.S.I. to (F) 12 P.S.I.
Final Closed In Period..... Minutes 60 (G) 35 P.S.I.
Final Hydrostatic Pressure..... (H) 1920 P.S.I.

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Mull Drilling Company, Inc
DST #6 Marmaton 3955-4070
Start Test Date: 2014/09/10
Final Test Date: 2014/09/10

RLL #1-25
Formation: Marmaton
Pool: Wildcat
Job Number: K170

RLL #1-25





JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name	Mull Drilling Company, Inc	Job Number	K170
Contact	Toby Eck	Representative	Jason McLemore
Well Name	RLL #1-25	Well Operator	Mull Drilling Company, Inc
Unique Well ID	DST #6 Marmaton 3955-4070	Prepared By	Jason McLemore
Surface Location	25-7-26-Sheridan	Qualified By	Kevin kessler
Field	Wildcat	Test Unit	6
Well Type	Vertical		

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	Marmaton	Well Operator	Mull Drilling Company, Inc
Well Fluid Type	01 Oil	Report Date	2014/09/10
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore
Start Test Date	2014/09/10	Start Test Time	00:54:00
Final Test Date	2014/09/10	Final Test Time	07:23:00

Test Results

RECOVERED:

5	Drilling Mud
5	TOTAL FLUID



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: rll1dst6

TIME ON: 12:54 AM
TIME OFF: 7:23 AM

Company Mull Drilling Company, Inc. Lease & Well No. RLL #1-25
Contractor WW #4 Charge to Mull Drilling Company, Inc.
Elevation KB 2531 Formation Marmaton Effective Pay _____ Ft. Ticket No. K170
Date 9-10-14 Sec. 25 Twp. _____ 7 S Range _____ 26 W County Sheridan State KANSAS
Test Approved By Kevin Kessler Diamond Representative Jason McLemore

Formation Test No. 6 Interval Tested from 3955 ft. to 4070 ft. Total Depth 4070 ft.
Packer Depth 3950 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3955 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3936 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3937 ft. Recorder Number 5588 Cap. 6000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 60 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 900 P.P.M. Drill Pipe Length 3800 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 6 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? No Reversed Out No Anchor Length 115 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 93' DP in Anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak Blow, Built to 1/4", Died Off
2nd Open: Dead

Recovered <u>5</u> ft. of <u>Drilling Mud</u>	
Recovered <u>5</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) 3:15 AM A.M. P.M. Time Started Off Bottom 5:20 AM A.M. P.M. Maximum Temperature 115

Initial Hydrostatic Pressure..... (A) 1942 P.S.I.
Initial Flow Period..... Minutes 5 (B) 13 P.S.I. to (C) 15 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 911 P.S.I.
Final Flow Period..... Minutes 30 (E) 18 P.S.I. to (F) 24 P.S.I.
Final Closed In Period..... Minutes 60 (G) 959 P.S.I.
Final Hydrostatic Pressure..... (H) 1941 P.S.I.

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

OPERATOR : MULL DRILLING COMPANY INC.
LEASE : ERB UNIT WELL # : 1 - 24
LOCATION : 105' FNL & 1535' FWL
SEC: 24 TWP : 19 S RGE : 23 W
COUNTY : NESS STATE : KANSAS

ELEVATION
KB : 2234'
GL : 2229'
 MEASUREMENTS FROM
KB

CONTRACTOR : WW DRILLING RIG # 6
COMM : 05 / 07 / 2014 COMP : 05 / 14 / 2014
RTD : 4475 LOG TD : 4476
SAMPLES SAVED FROM : 3600 TO : RTD
GEOLOGICAL SUPERVISION FROM : 3600 TO : RTD
MUD UP : 3500 TYPE MUD : CHEMICAL

CASING RECORD
SURFACE :
8 5/8" @ 216'
PRODUCTION :
5 1/2" @ 4475'

ELECTRICAL SURVEYS:

FORMATION	TOP	SAMPLE	DATUM	TOP	LOG	DATUM	STRUCT. COMP.
HEEBNER	3690	- 1456	3690	- 1456		- 1456	+ 07
LANSING	3738	- 1504	3738	- 1504		- 1504	+ 06
STARK	4024	- 1790	4024	- 1790		- 1790	+ 07
BASE/KC	4084	- 1850	4084	- 1850		- 1850	+ 10
FORT SCOTT	4250	- 2016	4250	- 2016		- 2016	+ 10
CHEROKEE	4272	- 2038	4272	- 2038		- 2038	+ 13
MISSISSIPPI	4415	- 2118	4415	- 2118		- 2118	- 25

CDL/CNL

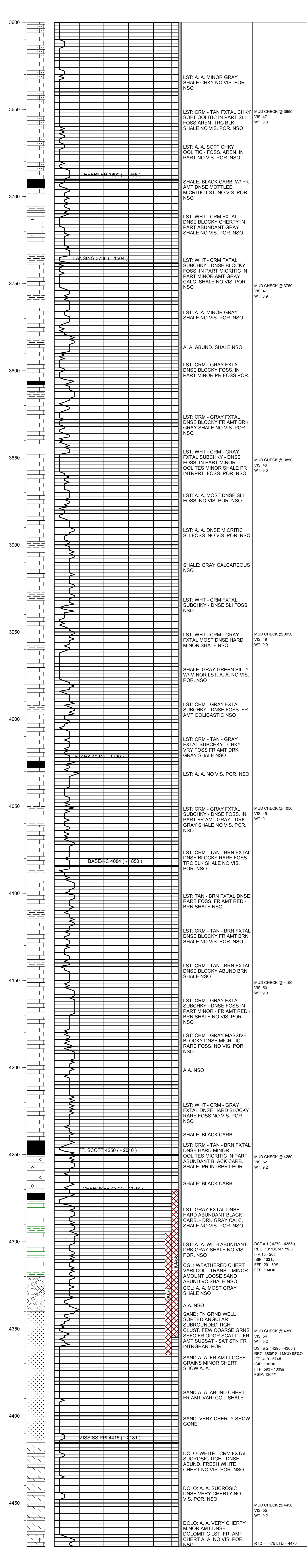
DIL

MICRO

SONIC

REFERENCE WELL FOR STRUCTURAL COMPARISON :

MULL DRLG CO INC # 1 - 23 BYRD SEC 23 - T 19 S - R 23 W NESS COUNTY KANSAS



COMMENTS:

5 1/2" PRODUCTION CASING WAS SET TO FURTHER TEST

THE PRODUCTIVITY OF THIS WELL

KEVIN L. KESSLER