

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1203383

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

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: _____

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

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>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ Used Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				

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 (Amount and Kind of Material Used)	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	Bbbs.	Gas	Mcf	Water	Bbbs.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>		METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> ☐ Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Mishler A 1-32
Doc ID	1203383

Tops

Name	Top	Datum
Anhydrite	1804	+ 671
B/Anhydrite	1838	+ 637
Heebner Shale	3862	- 1387
Lansing	3904	- 1429
Stark Shale	4142	- 1667
Marmaton	4234	- 1759
Pawnee	4309	- 1834
Ft. Scott	4396	- 1921
Cherokee Shale	4419	- 1944
Mississippian	4491	- 2016

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Mishler A 1-32
Doc ID	1203383

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.2500	8.6250	20	228	Common	175	3% gel, 2% cc

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

265861

TICKET NUMBER 43071

LOCATION OAKLEY KS

FOREMAN Damon M.

FIELD TICKET & TREATMENT REPORT

CEMENT

KS.

DATE	CUSTOMER #	WELL NAME & NUMBER		SECTION	TOWNSHIP	RANGE	COUNTY
2-1-14	5659	MISHELE A 1-32		32	16	23	NESS
CUSTOMER			RANSOM + 2832 15 1E 1/2S W SIDE				
MAILING ADDRESS				TRUCK #	DRIVER	TRUCK #	DRIVER
				399	TIM W.		
				566	STEVEN		
CITY		STATE	ZIP CODE				

JOB TYPE <u>SURFACE</u>	HOLE SIZE <u>12 1/4</u>	HOLE DEPTH <u>228</u>	CASING SIZE & WEIGHT <u>8 5/8</u>
CASING DEPTH <u>228</u>	DRILL PIPE _____	TUBING _____	OTHER <u>?</u>
SLURRY WEIGHT <u>14.8-15.2</u>	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING <u>20'</u>
DISPLACEMENT <u>1388L</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE <u>5 BAN</u>

REMARKS: SAFETY MEETING RIG UP ON DUKE #4 CIRCULATE CASING ON BOTTOM MIX 175 SXS Com 370CL 270 GEL SHUT DOWN RELEASED PLUG AND PUMPED 13 BBL OF H2O SHUT IN WASHED PUMP AND LINES RIGGED DOWN

CEMENT DID CIRCULATE
APPROX 2 BBL TO THE PIT.

THANK YOU DAMON & CREW

[illegible]

Rayin 3737

AUTHORIZATION Kirk 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
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: 1-32 Mishler A Dst 1

TIME ON: 04:38
TIME OFF: 13:12

Company Mull Drilling Company Inc. Lease & Well No. 1-32 Mishler A
Contractor Duke Drilling Rig 4 Charge to Mull Drilling Company Inc.
Elevation 2475 KB Formation _____ Cher Effective Pay _____ Ft. Ticket No. RR0001
Date 02/08/2014 Sec. 32 Twp. 16 S Range 23 W County Ness State KANSAS
Test Approved By Kevin Kessler Diamond Representative Ricky Ray

Formation Test No. 1 Interval Tested from 4415 ft. to 4495 ft. Total Depth 4495 ft.

Packer Depth 4410 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 4415 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4396 ft. Recorder Number 5155 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4484 ft. Recorder Number 5586 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 49 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.

Chlorides 4000 P.P.M. Drill Pipe Length 4382 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 80 (18.5p) 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: 1/2 " Blow-Built to 2" in 5 mins WSBB

2nd Open: 1/8 " Blow-Built to 11" in 60 mins NOBB

Recovered 10 ft. of CO 100% O GRAVITY: 38 @ 60 degrees F

Recovered 30 ft. of HMCO 55% O 45% M

Recovered 63 ft. of HOCM 40% O 60% M

Recovered 103 ft. of TOTAL FLUID

Recovered _____ ft. of _____ Price Job

Recovered _____ ft. of _____ Other Charges

Remarks: Diesel in bucket Insurance

Tool Sample: 35% O 65% M Total

Time Set Packer(s) 7:32 AM A.M. P.M. Time Started Off Bottom 11:12 PM A.M. P.M. Maximum Temperature 118

Initial Hydrostatic Pressure..... (A) 2189 P.S.I.

Initial Flow Period..... Minutes 5 (B) 59 P.S.I. to (C) 61 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 1313 P.S.I.

Final Flow Period..... Minutes 60 (E) 65 P.S.I. to (F) 97 P.S.I.

Final Closed In Period..... Minutes 120 (G) 1266 P.S.I.

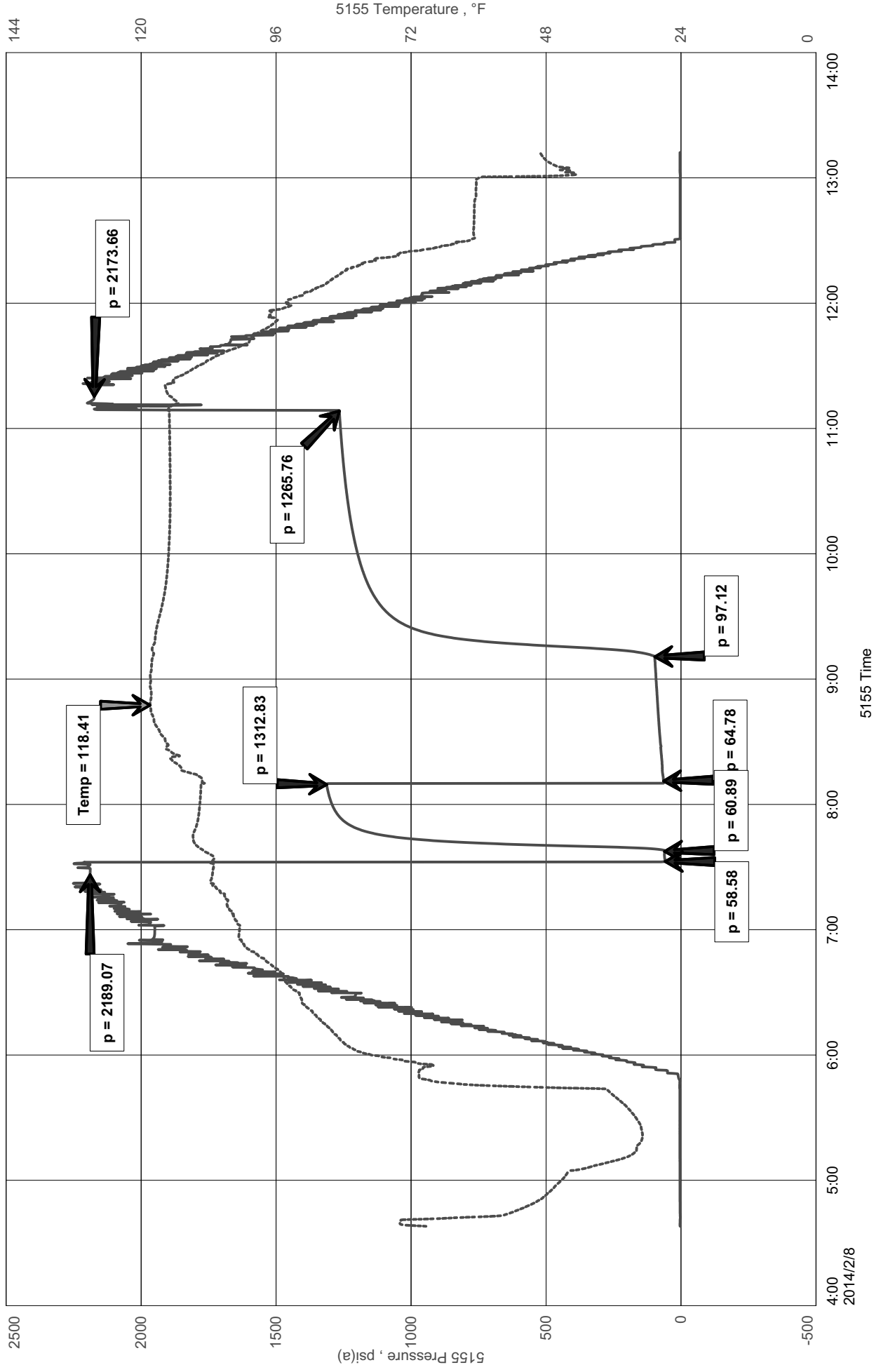
Final Hydrostatic Pressure..... (H) 2174 P.S.I.

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 1 Cher 4415-4495
Start Test Date: 2014/02/08
Final Test Date: 2014/02/08

1-32 Mishler A
Formation: Dst 1 Cher 4415-4495
Pool: WC
Job Number: RR0001

1-32 Mishler A



Diamond Testing

General information Report

General Information

Company Name Mull Drilling Company Inc

Contact	Mark Shreve	Job Number	RR0001
Well Name	1-32 Mishler A	Representative	Ricky Ray
Unique Well ID	Dst 1 Cher 4415-4495	Well Operator	Mull Drilling Company Inc
Surface Location	Sec: 32-16s-23w Ness County	Report Date	2014/02/08
Well License Number		Prepared By	Ricky Ray
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	Dst 1 Cher 4415-4495		
Well Fluid Type	01 Oil	Start Test Time	04:38:00
		Final Test Time	13:12:00
Start Test Date	2014/02/08		
Final Test Date	2014/02/08		
Gauge Name	5155		
Gauge Serial Number			

Test Results

RECOVERED:

10'	CO	100% CO
30'	HMCO	55% O 45% M
63'	HOCM	40% O 60% M
103'	TOTAL FLUID	

GRAVITY: 38 @ 60 degrees F

TOOL SAMPLE:

35% O 65% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: 1-32 Mishler A Dst 2

TIME ON: 20:00 Feb-8
TIME OFF: 03:58 Feb-9

Company Mull Drilling Company Inc. Lease & Well No. 1-32 Mishler A
Contractor Duke Drilling Rig 4 Charge to Mull Drilling Company Inc.
Elevation 2475 KB Formation _____ Cher Effective Pay _____ Ft. Ticket No. RR0002
Date 02/08/2014 Sec. 32 Twp. 16 S Range 23 W County Ness State KANSAS
Test Approved By Kevin Kessler Diamond Representative Ricky Ray

Formation Test No. 2 Interval Tested from 4417 ft. to 4500 ft. Total Depth 4500 ft.

Packer Depth 4412 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 4417 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4398 ft. Recorder Number 5155 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4486 ft. Recorder Number 5586 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 49 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.

Chlorides 4000 P.P.M. Drill Pipe Length 4384 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 83 (21.5p) 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: 1/4" Blow-Built 2 1/4" in 5 mins NOBB

2nd Open: 1/8 " Blow-Built to 11" in 60 mins NOBB

Recovered 125 ft. of HOCM 47% O 53% M

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: Diesel in bucket

Tool Sample: 37% O 63% M

Time Set Packer(s) 2-8 10:18 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 2-9 1:53 AM ^{A.M.}/_{P.M.} Maximum Temperature 111

Initial Hydrostatic Pressure..... (A) 2132 P.S.I.

Initial Flow Period..... Minutes 5 (B) 16 P.S.I. to (C) 21 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 1220 P.S.I.

Final Flow Period..... Minutes 60 (E) 25 P.S.I. to (F) 62 P.S.I.

Final Closed In Period..... Minutes 120 (G) 1207 P.S.I.

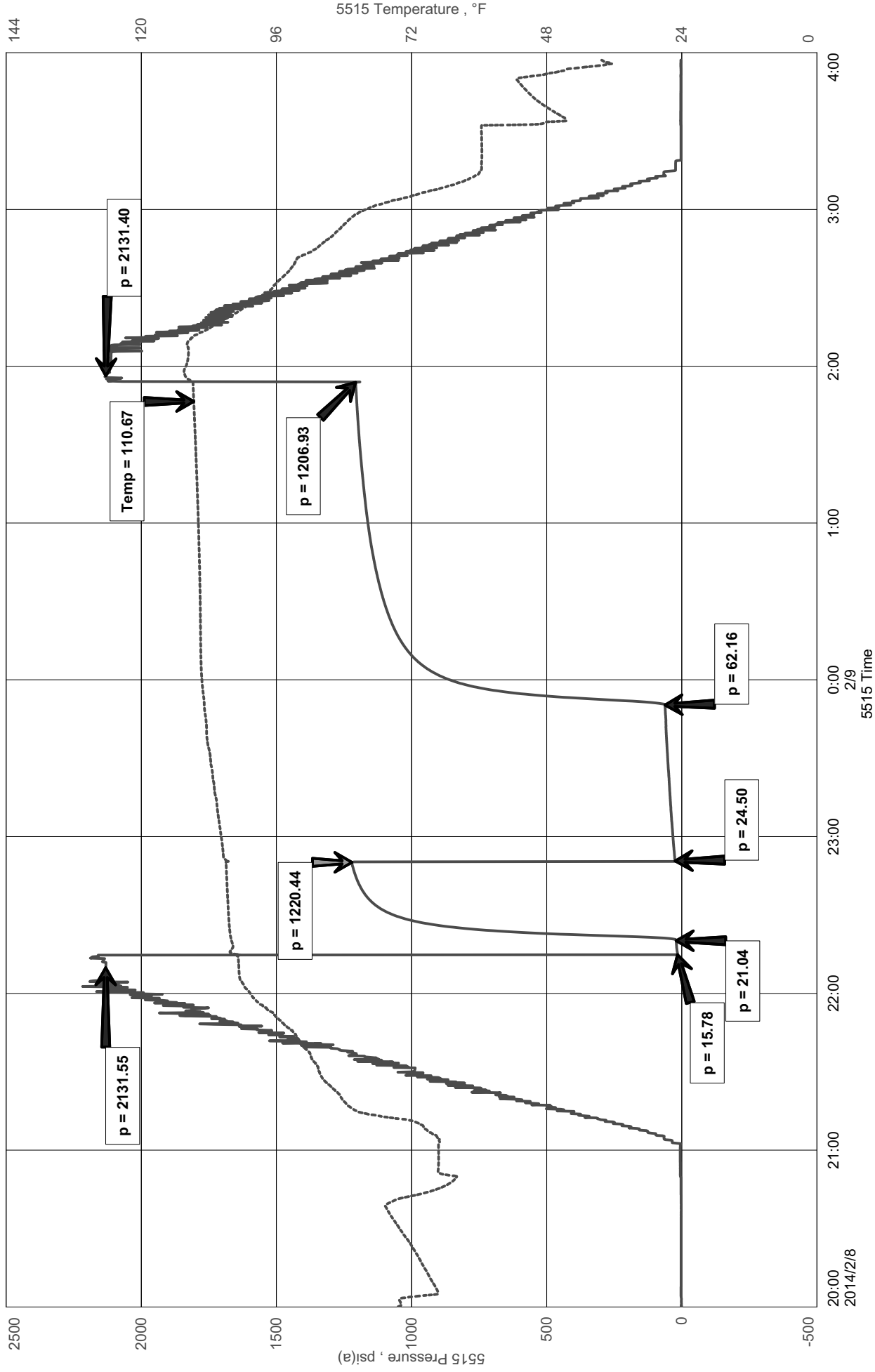
Final Hydrostatic Pressure..... (H) 2131 P.S.I.

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 Cher/Miss (4417-4500)
Start Test Date: 2014/02/08
Final Test Date: 2014/02/09

1-32 Mishler A
Formation: Dst 2 Cher/Miss (4417-4500)
Pool: WC
Job Number: RR00002

1-32 Mishler A



Diamond Testing

General information Report

General Information

Company Name Mull Drilling Company Inc

Contact	Mark Sheve	Job Number	RR0002
Well Name	1-32 Mishler A	Representative	Ricky Ray
Unique Well ID	Dst 2 Cher/Miss (4417-4500)	Well Operator	Mull Drilling Company Inc
Surface Location	Sec 32-16s-23w Ness County	Report Date	2014/02/08
Well License Number		Prepared By	Ricky Ray
Field	WildCat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	Dst 2 Cher/Miss (4417-4500)		
Well Fluid Type	01 Oil	Start Test Time	20:00:00
		Final Test Time	03:58:00
Start Test Date	2014/02/08		
Final Test Date	2014/02/09		
Gauge Name	5515		
Gauge Serial Number			

Test Results

RECOVERY:
125' HOCM 47% O 53% M

TOOL SAMPLE:
37% O 63% M

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

OPERATOR : MULL DRILLING COMPANY INC.
LEASE : MISHLER 'A' WELL # : 1 - 32
LOCATION : 2095' FSL & 1004' FEL
SEC: 32 TWP : 16 S RGE : 23 W
COUNTY : NESS STATE : KANSAS

ELEVATION

KB : 2475

GL : 2466

MEASUREMENTS FROM
KB

CASING RECORD

SURFACE :
8 5/8" @ 228'

PRODUCTION :
.

ELECTRICAL SURVEYS:.

CDL/CNL

DIL

CONTRACTOR : DUKE DRILLING RIG # 4
COMM: 02 / 01 / 2014
RTD : 4600

COMP : 02 / 09 / 2014
LOG TD : 4601

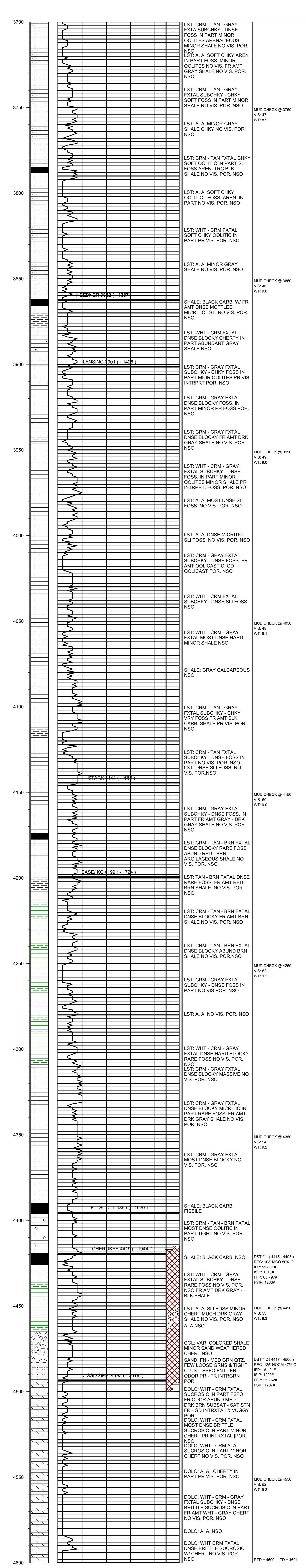
SAMPLES SAVED FROM : 3700
GEOLOGICAL SUPERVISION FROM : 3700
MUD UP : 3500

TO: RTD
TYPE MUD : CHEMICAL

FORMATION	TOP	SAMPLE	DATUM	TOP	LOG	DATUM	STRUCT. COMP.
HEEBNER	3862		- 1387	3862		- 1387	+ 10
LANSING	3901		- 1426	3901		- 1426	+ 13
STARK	4144		- 1669	4144		- 1669	+ 07
BASE / KC	4199		- 1724	4199		- 1724	+ 09
FORT SCOTT	4395		- 1920	4395		- 1920	+ 07
CHEROKEE	4419		- 1944	4419		- 1944	+ 07
MISSISSIPPI	4493		- 2018	4493		- 2018	+ 61

REFERENCE WELL FOR STRUCTURAL COMPARISON :

MULL DRILLING CO # 1 - 32 BLOCKSOME 'A' SEC 32 - T 16 S - R 23 W NESS COUNTY KANSAS



COMMENTS:

DUE TO MARGINAL DST RESULTS & POOR LOG CALCULATIONS

THIS WELL WAS PLUGGED AS

D & A

KEVIN L. KESSLER