



1215652

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Byrd 1-23
Doc ID	1215652

All Electric Logs Run

CDL/CNL/PE
DIL
MEL
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Byrd 1-23
Doc ID	1215652

Tops

Name	Top	Datum
Anhydrite	1490	+ 727
B/Anhydrite	1532	+ 685
Heebner	3680	- 1463
Lansing	3727	- 1510
Stark	4014	- 1797
B/KC	4077	- 1860
Marmaton	4113	- 1896
Ft. Scott	4243	- 2026
Cherokee Shale	4268	- 2051
Cherokee Sand	4347	- 2130
Mississippian	4373	- 2156

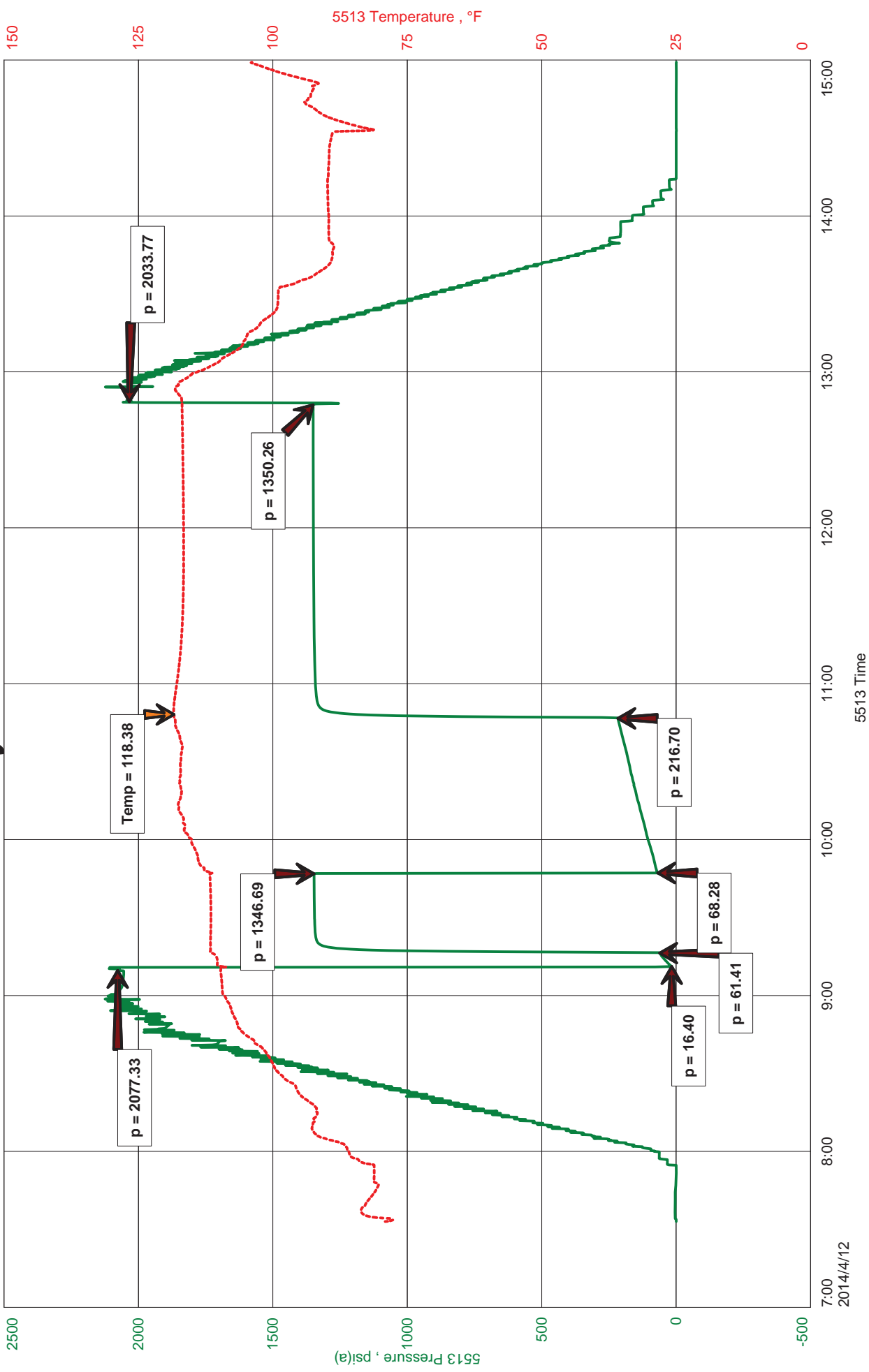




Mull Drilling Company, Inc  
DST #1 Cherokee sand 4259-4350  
Start Test Date: 2014/04/12  
Final Test Date: 2014/04/12

Byrd #1-23  
Formation: Cherokee Sand  
Pool: Wildcat  
Job Number: K116

# Byrd #1-23





**JASON MCLEMORE**

**CELL # 620-617-0527**

**General Information**

<b>Company Name</b>	Mull Drilling Company, Inc	<b>Job Number</b>	K116
<b>Contact</b>	Mark Shreve	<b>Representative</b>	Jason McLemore
<b>Well Name</b>	Byrd #1-23	<b>Well Operator</b>	Mull Drilling Company, Inc
<b>Unique Well ID</b>	DST #1 Cherokee sand 4259-4350	<b>Prepared By</b>	Jason McLemore
<b>Surface Location</b>	23-19s-23w Ness	<b>Qualified By</b>	Steve Reed
<b>Field</b>	Pfaff	<b>Test Unit</b>	#7
<b>Well Type</b>	Vertical		

**Test Information**

<b>Test Type</b>	Drill Stem Test	<b>Representative</b>	Jason McLemore
<b>Formation</b>	Cherokee Sand	<b>Well Operator</b>	Mull Drilling Company, Inc
<b>Well Fluid Type</b>	01 Oil	<b>Report Date</b>	2014/04/12
<b>Test Purpose (AEUB)</b>	Initial Test	<b>Prepared By</b>	Jason McLemore

<b>Start Test Date</b>	2014/04/12	<b>Start Test Time</b>	07:33:00
<b>Final Test Date</b>	2014/04/12	<b>Final Test Time</b>	14:58:00

**Test Results**

RECOVERED:

450	OCM, 25% Oil, 75% Mud
450	TOTAL FLUID





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: byrd1dst1

TIME ON: 7:33 AM  
TIME OFF: 2:58 PM

Company Mull Drilling Company, Inc Lease & Well No. Byrd #1-23  
Contractor WW Drilling #10 Charge to Mull Drilling Company, Inc  
Elevation KB 2217 Formation Cherokee Sand Effective Pay \_\_\_\_\_ Ft. Ticket No. K116  
Date 4-12-14 Sec. 23 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 23 W County \_\_\_\_\_ Ness State KANSAS  
Test Approved By Steve Reed Diamond Representative Jason McLemore

Formation Test No. 1 Interval Tested from 4259 ft. to 4350 ft. Total Depth 4350 ft.  
Packer Depth 4254 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4259 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4240 ft. Recorder Number 5513 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4241 ft. Recorder Number 5588 Cap. 6000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 50 Drill Collar Length 122 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 5500 P.P.M. Drill Pipe Length 4104 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Jars & Joint Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? No Reversed Out No Anchor Length 91 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: Built to 3-1/4", No Blowback  
2nd Open: Built to BOB in 21 Min., No Blowback

Recovered 450 ft. of Oil Cut Mud, 25 % Oil, 75% Mud  
Recovered 450 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) 9:12 AM A.M. P.M. Time Started Off Bottom 2:58 PM A.M. P.M. Maximum Temperature 118

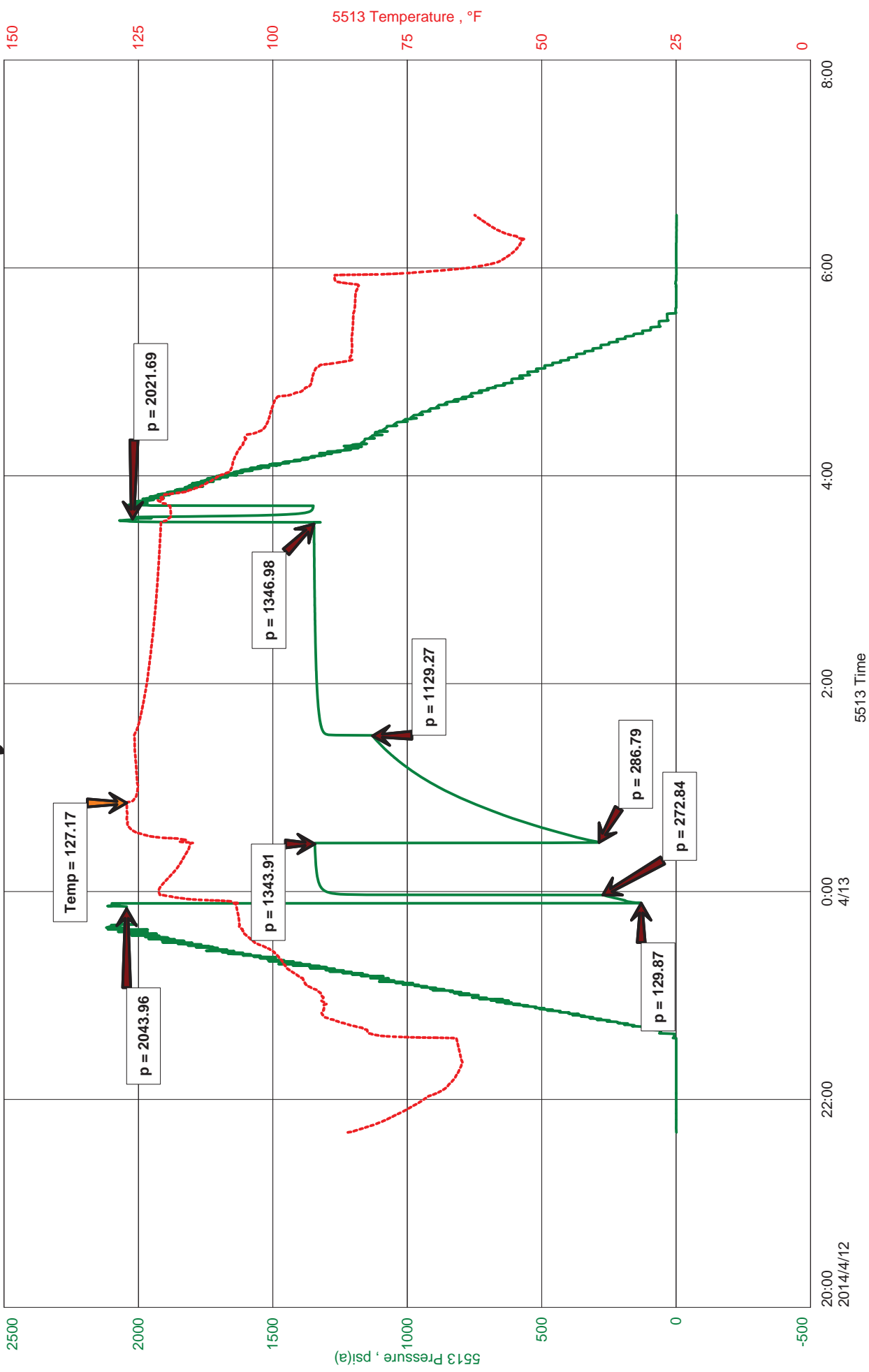
Initial Hydrostatic Pressure..... (A) 2077 P.S.I.  
Initial Flow Period..... Minutes 5 (B) 16 P.S.I. to (C) 61 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 1347 P.S.I.  
Final Flow Period..... Minutes 60 (E) 68 P.S.I. to (F) 217 P.S.I.  
Final Closed In Period..... Minutes 120 (G) 1350 P.S.I.  
Final Hydrostatic Pressure..... (H) 2034 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 Cherokee Sand 4259-4355  
Start Test Date: 2014/04/12  
Final Test Date: 2014/04/13

Byrd #1-23  
Formation: Cherokee Sand  
Pool: Wildcat  
Job Number: K117

# Byrd #1-23





**JASON MCLEMORE**

**CELL # 620-617-0527**

**General Information**

<b>Company Name</b>	Mull Drilling Company, Inc	<b>Job Number</b>	K117
<b>Contact</b>	Mark Shreve	<b>Representative</b>	Jason McLemore
<b>Well Name</b>	Byrd #1-23	<b>Well Operator</b>	Mull Drilling Company, Inc
<b>Unique Well ID</b>	DST #2 Cherokee Sand 4259-4355	<b>Prepared By</b>	Jason McLemore
<b>Surface Location</b>	23-19s-23w-Ness	<b>Qualified By</b>	Steve Reed
<b>Field</b>	Pfaff	<b>Test Unit</b>	#7
<b>Well Type</b>	Vertical		

**Test Information**

<b>Test Type</b>	Drill Stem Test	<b>Representative</b>	Jason McLemore
<b>Formation</b>	Cherokee Sand	<b>Well Operator</b>	Mull Drilling Company, Inc
<b>Well Fluid Type</b>	01 Oil	<b>Report Date</b>	2014/04/13
<b>Test Purpose (AEUB)</b>	Initial Test	<b>Prepared By</b>	Jason McLemore
<b>Start Test Date</b>	2014/04/12	<b>Start Test Time</b>	21:41:00
<b>Final Test Date</b>	2014/04/13	<b>Final Test Time</b>	06:27:00

**Test Results**

**RECOVERED:**

2450 VSOCMW, 3% Oil, 87% Water, 10% Mud  
2450 TOTAL FLUID

**CHLORIDES: 34,000**  
**PH: 7**



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: byrd1dst2

TIME ON: 9:41 PM  
TIME OFF: 6:27 AM

Company Mull Drilling Company, Inc Lease & Well No. Byrd #1-23  
Contractor WW Drilling #10 Charge to Mull Drilling Company, Inc  
Elevation KB 2217 Formation Cherokee Sand Effective Pay \_\_\_\_\_ Ft. Ticket No. K117  
Date 4-12-14 Sec. 23 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 23 W County \_\_\_\_\_ Ness \_\_\_\_\_ State KANSAS  
Test Approved By Steve Reed Diamond Representative Jason McLemore

Formation Test No. 2 Interval Tested from 4259 ft. to 4355 ft. Total Depth 4355 ft.  
Packer Depth 4254 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4259 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4240 ft. Recorder Number 5513 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4241 ft. Recorder Number 5588 Cap. 6000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 50 Drill Collar Length 122 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 5500 P.P.M. Drill Pipe Length 4104 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Jars & Joint \_\_\_\_\_ Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? No Reversed Out No Anchor Length 96 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 64' DP in Anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong, BOB in 1 Min., Weak Surface Blowback  
2nd Open: Strong, BOB in 1 Min., No Blowback

Recovered 2450 ft. of VSOCMW, 3% Oil, 87% Water, 10% Mud  
Recovered 2450 ft. of TOTAL FLUID  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>CHLORIDES: 34,000</u>	Insurance
<u>PH: 7</u>	Total

Time Set Packer(s) 11:54 PM A.M. P.M. Time Started Off Bottom 3:29 AM A.M. P.M. Maximum Temperature 127

Initial Hydrostatic Pressure..... (A) 2044 P.S.I.  
Initial Flow Period..... Minutes 5 (B) 129 P.S.I. to (C) 273 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 1344 P.S.I.  
Final Flow Period..... Minutes 60 (E) 287 P.S.I. to (F) 1129 P.S.I.  
Final Closed In Period..... Minutes 120 (G) 1347 P.S.I.  
Final Hydrostatic Pressure..... (H) 2022 P.S.I.

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**OPERATOR**

Company: MULL DRILLING COMPANY, INC.  
 Address: 1700 N WATERFRONT PKWY  
 BLDG 1200  
 WICHITA, KS 67206-6637  
 Contact Geologist: TOBY ECK  
 Contact Phone Nbr: 316-264-6366  
 Well Name: BYRD #1-23  
 Location: NW NW SE NE S23 T19S 23W  
 Pool: NW NW SE NE S23 T19S 23W  
 State: KANSAS  
 API: 15-135-25758  
 Field: PFAFF  
 Country: USA

**Scale 1:240 Imperial**

Well Name: BYRD #1-23  
 Surface Location: NW NW SE NE S23 T19S 23W  
 Bottom Location:  
 API: 15-135-25758  
 License Number: 5144  
 Spud Date: 4/7/2014  
 Region: NESS COUNTY  
 Drilling Completed:  
 Surface Coordinates: 1568 FNL & 1307 FEL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2212.00ft  
 K.B. Elevation: 2217.00ft  
 Logged Interval: 0.00ft  
 Total Depth: 0.00ft  
 Formation: CHEROKEE SAND  
 Drilling Fluid Type: FRESH WATER / CHEMICAL GEL  
 Time: 2:45 PM  
 Time:  
 To: 0.00ft

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude:  
 N/S Co-ord: 1568 FNL  
 E/W Co-ord: 1307 FEL  
 Latitude:

**LOGGED BY**

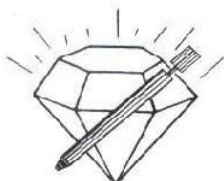
Company: SOLUTIONS CONSULTING, INC.  
 Address: 108 W 35TH  
 HAYS, KS 67601  
 Phone Nbr: (785) 639-1337  
 Logged By: Geologist  
 Name: STEVE REED / HERB DEINES

**CONTRACTOR**

Contractor: WW DRILLING  
 Rig #: 10  
 Rig Type: MUD ROTARY  
 Spud Date: 4/7/2014  
 TD Date:  
 Rig Release:  
 Time: 2:45 PM  
 Time:  
 Time:

**ELEVATIONS**

K.B. Elevation: 2217.00ft  
 K.B. to Ground: 5.00ft  
 Ground Elevation: 2212.00ft

**NOTES****FORMATION TOPS AND DAILY ACTIVITIES SUMMARY****DST # 1 SUMMARY**

**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: byrd1dst1

TIME ON: 7:33 AM  
 TIME OFF: 2:58 PM

Company Mull Drilling Company, Inc  
 Lease & Well No. Byrd #1-23  
 Contractor WW Drilling #10  
 Charge to Mull Drilling Company, Inc  
 Elevation KB 2217 Formation Cherokee Sand Effective Pay Ft. Ticket No. K116  
 Date 4-12-14 Sec. 23 Twp. 19 S Range 23 W County Ness State KANSAS  
 Test Approved By Steve Reed  
 Diamond Representative Jason McLemore  
 Formation Test No. 1 Interval Tested from 4259 ft. to 4350 ft. Total Depth 4350 ft.  
 Packer Depth 4254 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.  
 Packer Depth 4259 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.  
 Depth of Selective Zone Set  
 Top Recorder Depth (Inside) 4240 ft. Recorder Number 5513 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 4241 ft. Recorder Number 5588 Cap. 6000 P.S.I.  
 Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.  
 Mud Type Chemical Viscosity 50 Drill Collar Length 122 ft. I.D. 2 1/4 in.  
 Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 5500 P.P.M. Drill Pipe Length 4104 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number Jars & Joint Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? No Reversed Out No Anchor Length 91 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: Built to 3-1/4", No Blowback  
 2nd Open: Built to ROB in 21 Min. No Blowback



Company Mull Drilling Company, Inc Lease & Well No. Byrd #1-23  
 Contractor WW Drilling #10 Charge to Mull Drilling Company, Inc  
 Elevation KB 2217 Formation Cherokee Sand Effective Pay \_\_\_\_\_ Ft. Ticket No. K117  
 Date 4-12-14 Sec. 23 Twp. 19 S Range 23 W County Ness State KANSAS  
 Test Approved By Steve Reed Diamond Representative Jason McLemore

Formation Test No. 2 Interval Tested from 4259 ft. to 4355 ft. Total Depth 4355 ft.  
 Packer Depth 4254 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 4259 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set  
 Top Recorder Depth (Inside) 4240 ft. Recorder Number 5513 Cap. 5000 P.S.I.  
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 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
 Mud Type Chemical Viscosity 50 Drill Collar Length 122 ft. I.D. 2 1/4 in.  
 Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 5500 P.P.M. Drill Pipe Length 4104 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number \_\_\_\_\_ Jars & Joint Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? No Reversed Out No Anchor Length 96 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 64' DP in Anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

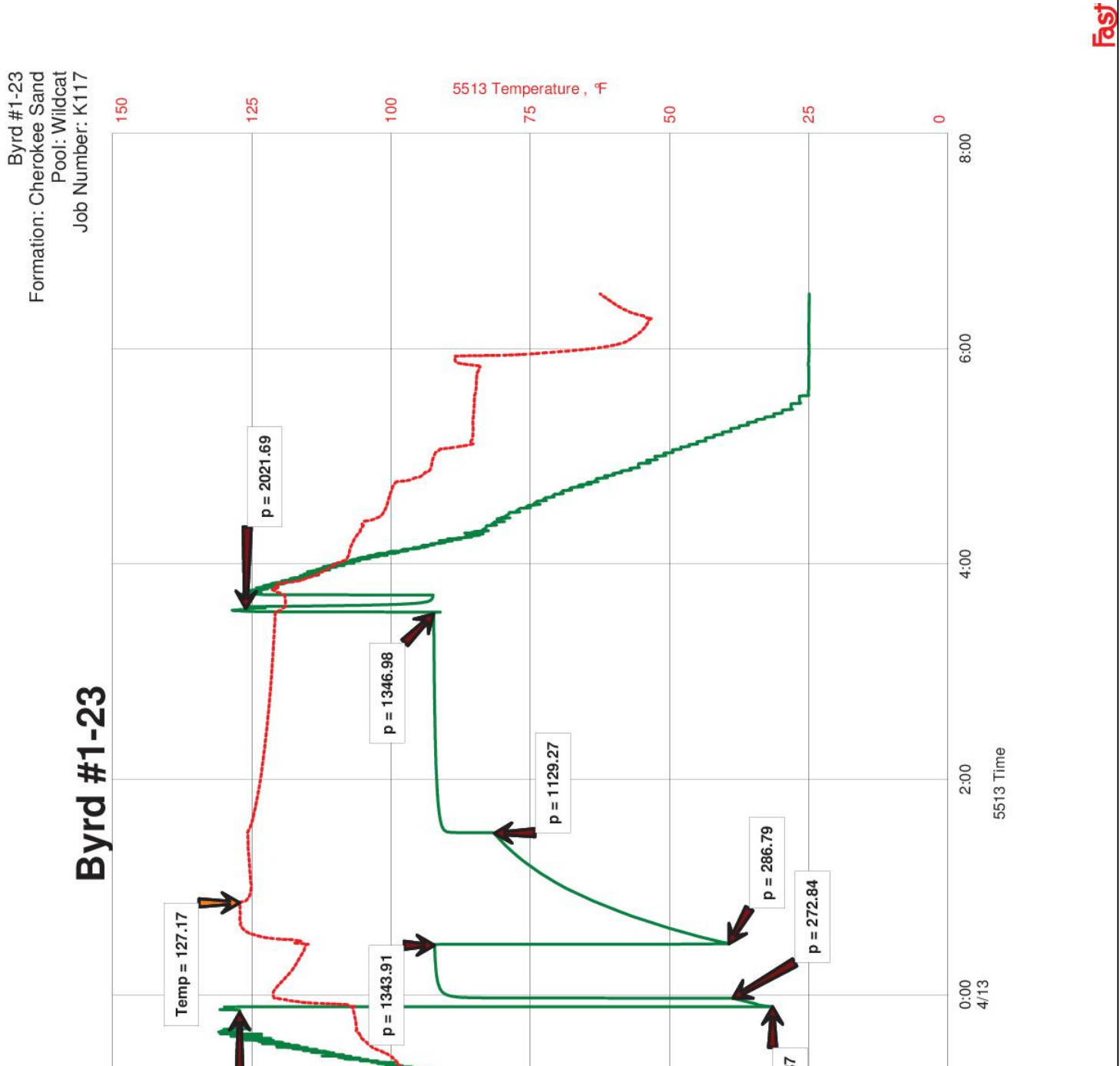
Blow: 1st Open: Strong, BOB in 1 Min., Weak Surface Blowback  
 2nd Open: Strong, BOB in 1 Min., No Blowback

Recovered 2450 ft. of VSOCMW, 3% Oil, 87% Water, 10% Mud  
 Recovered 2450 ft. of TOTAL FLUID  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Remarks: CHLORIDES: 34,000  
PH: 7

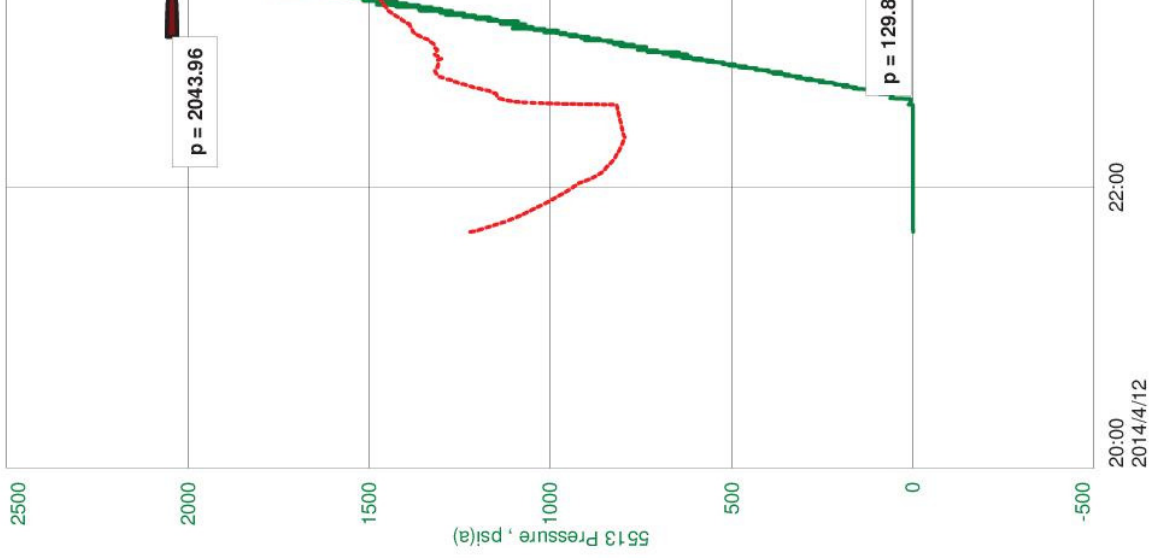
Time Set Packer(s) <u>11:54 PM</u> A.M. P.M.	Time Started Off Bottom <u>3:29 AM</u> A.M. P.M.	Maximum Temperature <u>127</u>
Initial Hydrostatic Pressure..... (A) <u>2044</u> P.S.I.	Initial Flow Period..... Minutes <u>5</u> (B) <u>129</u> P.S.I. to (C) <u>273</u> P.S.I.	Initial Closed In Period..... Minutes <u>30</u> (D) <u>1344</u> P.S.I.
Final Flow Period..... Minutes <u>60</u> (E) <u>287</u> P.S.I. to (F) <u>1129</u> P.S.I.	Final Closed In Period..... Minutes <u>120</u> (G) <u>1347</u> P.S.I.	Final Hydrostatic Pressure..... (H) <u>2022</u> P.S.I.

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**DST #2 TIME VS PRESSURE CHART**

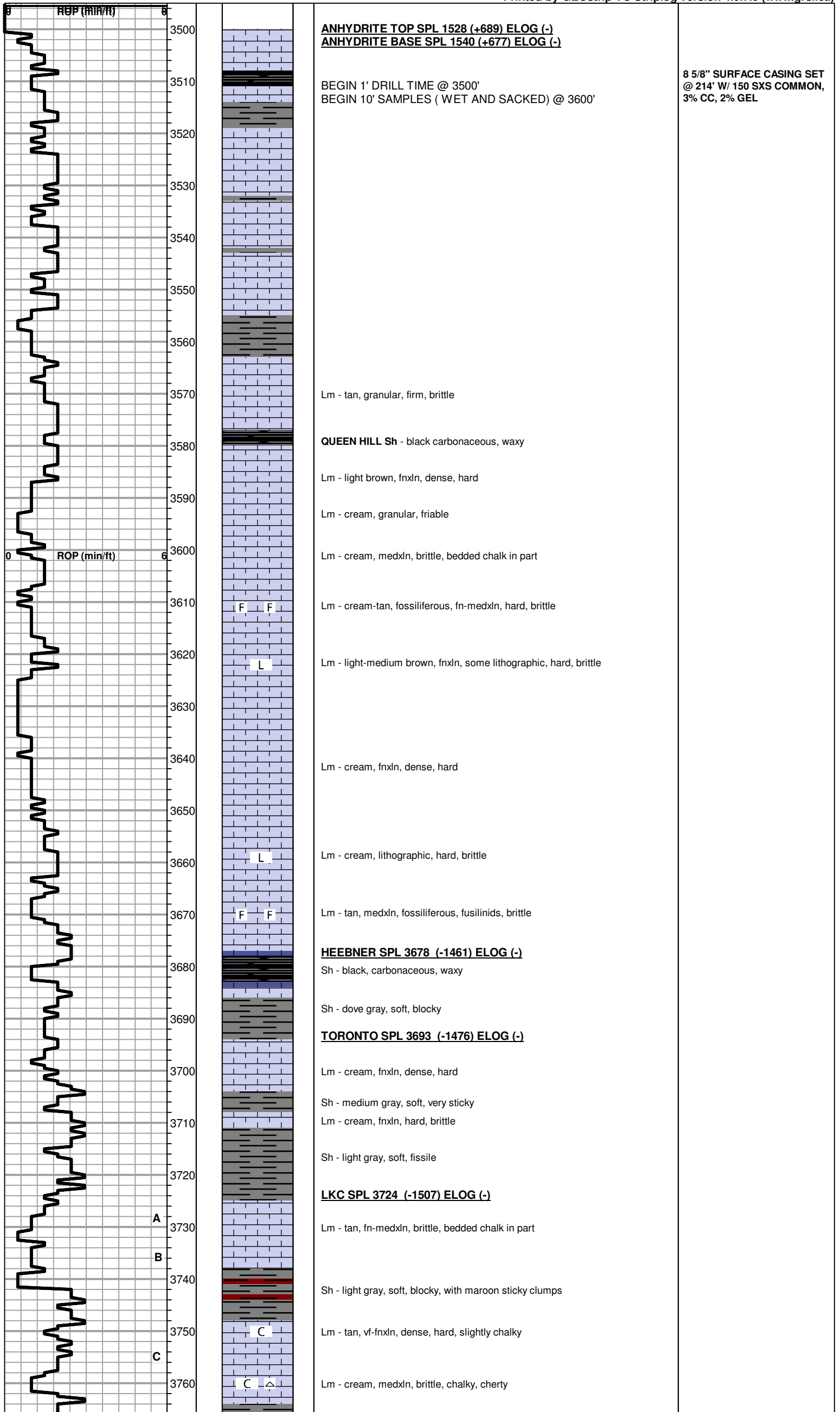


Mull Drilling Company, Inc  
 DST #2 Cherokee Sand 4259-4355  
 Start Test Date: 2014/04/12  
 Final Test Date: 2014/04/13



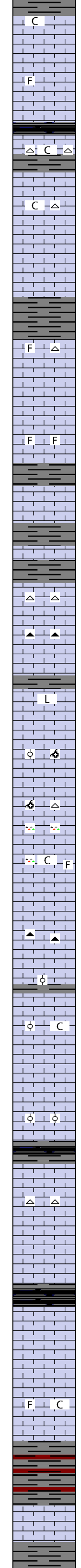
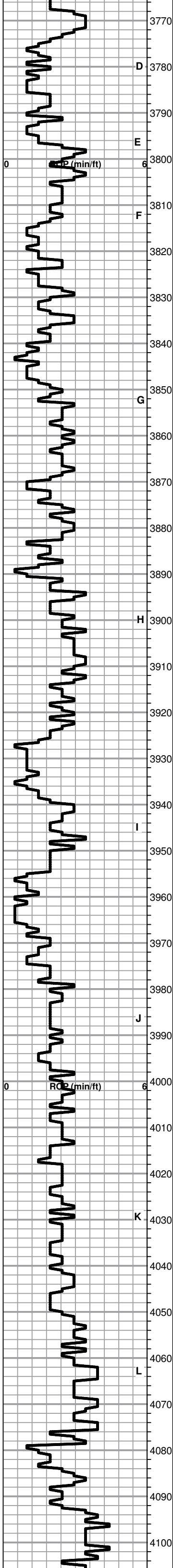
C:\Users\Roger.Friedl\Desktop\byrd\dst2\_13-Apr-14.Ver

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)



8 5/8" SURFACE CASING SET  
 @ 214' W/ 150 SXS COMMON,  
 3% CC, 2% GEL





Lm - medium brown, fnxn, dense, brittle, sticky chalk

D Lm - light brown-cream, granular, slightly fossiliferous, friable

Sh - black carbonaceous, waxy

E Lm - cream-light brown, vf-fnxn, hard, white sticky chalk clusters, cherty

F Lm - cream, fossiliferous, brittle, cherty, chalky

Lm - tan, fnxn, dense, hard, bedded chalk in some

Lm - cream, granular, friable, bedded chalk

Lm - cream-tan, granular, friable, slightly fossiliferous, bedded chalk in part, white chert

G Lm - cream-light brown, oolitic, poor development, granular, friable, clean, barren

Lm - cream, fossiliferous, well cemented, hard

Sh - medium gray, soft, fissile

Lm - cream, fnxn, dense, hard

Sh - medium gray, soft, fissile

Lm - tan, fnxn, dense, hard, clean, barren, cherty

H Lm - cream-tan, medxn, hard, brown opaque chert

Lm - tan, lithographic, dense, brittle

Lm - cream, fn-medxn, brittle

Lm - tan, oolitic / oomoldic, clean and barren, friable

Lm - light brown, oomoldic, poor development, very hard, light gray chert

I Lm - cream, fnxn, dense, hard, cherty

Lm - cream, fnxn, hard, cherty, slightly fossiliferous, chalk in part

Lm - tan, oolitic / oomoldic, poorly developed, hard, brown chert

Lm - cream, oolitic, hard, barren

Sh - light gray, soft sticky clumps

J Lm - cream-tan, fnxn, slightly oomoldic, chalky in part

Lm - tan, fnxn, dense, very hard, bedded chalk in some

Lm - medium brown, oolitic, poorly developed, hard, barren

**STARK SPL 4013 (-1796) ELOG (-)**

Sh - dark gray- black carbonaceous, fissile

Lm - medium brown, fnxn, dense, very hard, light gray chert

Lm - A/A

Sh - black carbonaceous, fissile

Lm - cream, fn-medxn, dense, hard, barren

Lm - medium brown, fnxn, brittle, slightly fossiliferous, slightly chalky

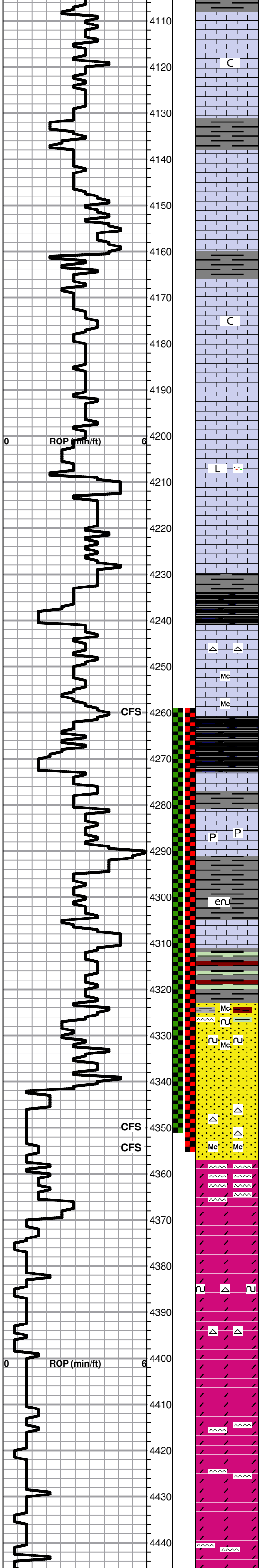
**BKC SPL 4078 (-1861) ELOG (-)**

Sh - light gray / maroon, soft, blocky

**MARMATON SPL 4091 (-1874) ELOG (-)**

Lm - cream-tan, granular, hard

Sh - light-dark gray, soft, fissile



Sh - light dark gray, soft, fissile

Lm - cream-tan, fnxn, dense, brittle, chalky in part

Lm - tan-light brown, vf-fnxln, dense, hard

Sh - light gray / brown, firm, fissile

Lm - light brown, microxln, dense, hard

Lm - tan-light brown, vf-fnxln, dense, brittle

Sh - dark gray, firm, blocky

Lm - cream-tan, fnxn to lithographic in some, slightly chalky

Lm - tan, vf-fnxln, dense, very hard, some brittle, slightly chalky,

Lm - tan, fnxn, brittle

Lm - light-medium brown, lithographic, dense, very hard, cherty

Lm - medium brown, fnxn, dense, very hard

Lm - A/A

Sh - dark gray-black carbonaceous, firm, fissile

**FORT SCOTT SPL 4240 (-2023) ELOG (-)**

Lm - cream, granular, brittle, white chert

Lm - cream, medxln, micaceous, dense, brittle

Lm - tan, fn-medxln, micaceous, bedded chalk in part

**CHEROKEE SH SPL 4261 (-2044) ELOG (-)**

Sh - black carbonaceous, firm, fissile

Sh - light gray, extremely sticky clumps

Lm - tan, fnxn, brittle, bedded chalk, pyrite clusters

Sh - light gray soft and sticky

Sh - medium-dark brown, earthy, gritty, friable, glauconite specks

Lm - light brown, microxln, dense, very hard

Sh - Various colored, gray, green, maroon, firm, fissile

**CHEROKEE SD SPL 4324 (-2107) ELOG (-)**

Ss - white, fine grained, well sorted, well rounded, well cemented, hard, orange, white chert, various colored shales, micaceous & glauconite specks

Ss - A/A with glauconite specks throughout

Ss - light-dark brown stained, fine-grained, angular, NSFO, no odor, slight fluorescence under UV light

Ss - dark brown stained, fine-grained, angular, SFO, good odor, wet cut under UV light, clean white tripolitic chert with scattered stain

Ss - black, fine-grained, heavily micaceous, SFO upon crush, good odor

**MISSISSIPPIAN SPL 4357 (-2140) ELOG (-)**

Dolo - cream/orange, vfxln, clean, barren, very cherty

Dolo - cream vfxln, very hard, clean, barren

Dolo - tan, fnxn, brittle upon crush

Dolo - tan, fn-medxln, glauconitic, clean, barren, white chert

Dolo - offwhite, clean, fnxn, chalky, friable, bright white chert

Dolo - buff, granular, brittle, slightly chalky

Dolo - bright white, granular, slight vuggy porosity, no stain, no odor, cherty

Dolo - cream, fnxn, brittle, clean, barren, cherty

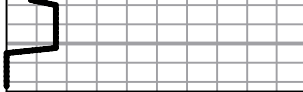
Dolo - offwhite, fn-medxln, brittle

Dolo - A/A with large amount of bright white chert

DST #1 4259 TO 4350 SEE HEADER FOR TEST SUMMARY

DST #2 4259 TO 4355 SEE HEADER FOR TEST SUMMARY

NOTE: LARGE AMOUNTS OF SHALE CARRYOVER IN THE SAMPLES



4450



Dolo - buff, medxn, brittle  
**RTD 4450 (-2233) LTD (-)**