



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1223528  
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: \_\_\_\_\_

1223528

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	LOCKWOOD 2-35
Doc ID	1223528

Tops

Name	Top	Datum
ANHYDRITE	2463	+493
BASE ANHYDRITE	2488	+468
STATLER	3610	-654
HEEBNER	3959	-1003
TORONTO	3985	-1029
LANSING	3997	-1041
STARK	4215	-1259
BASE KANSAS CITY	4275	-1319
FORT SCOTT	4465	-1509
MISSISSIPPI	4554	-1598
SPURGON	1605	-1649

# DIAMOND TESTING

## General Information Report

### General Information

<b>Company Name</b>	L.D. DRILLING, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	L.D. DAVIS	<b>Well Operator</b>	L.D. DRILLING, INC.
<b>Well Name</b>	LOCKWOOD #2-35	<b>Report Date</b>	2014/08/27
<b>Unique Well ID</b>	DST #1, LANSING "B", 4023-4055	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 35-11S-31W, GOVE CO. KS.	<b>Qualified By</b>	LARRY FRIEND
<b>Field</b>	WILDCAT		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #1, LANSING "B", 4023-4055		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2014/08/27	<b>Start Test Time</b>	02:56:00
<b>Final Test Date</b>	2014/08/27	<b>Final Test Time</b>	12:18:00

### Test Recovery:

RECOVERED: 190' GAS IN PIPE  
85' SW&MCO, 98% OIL, 1% WATER, 1% MUD, GRAVITY: 36  
95' SO&WCM, 18% OIL, 18% WATER, 64% MUD  
55' SMCW W/TR. O, TRACE OIL, 92% WATER, 8% MUD  
235' TOTAL FLUID

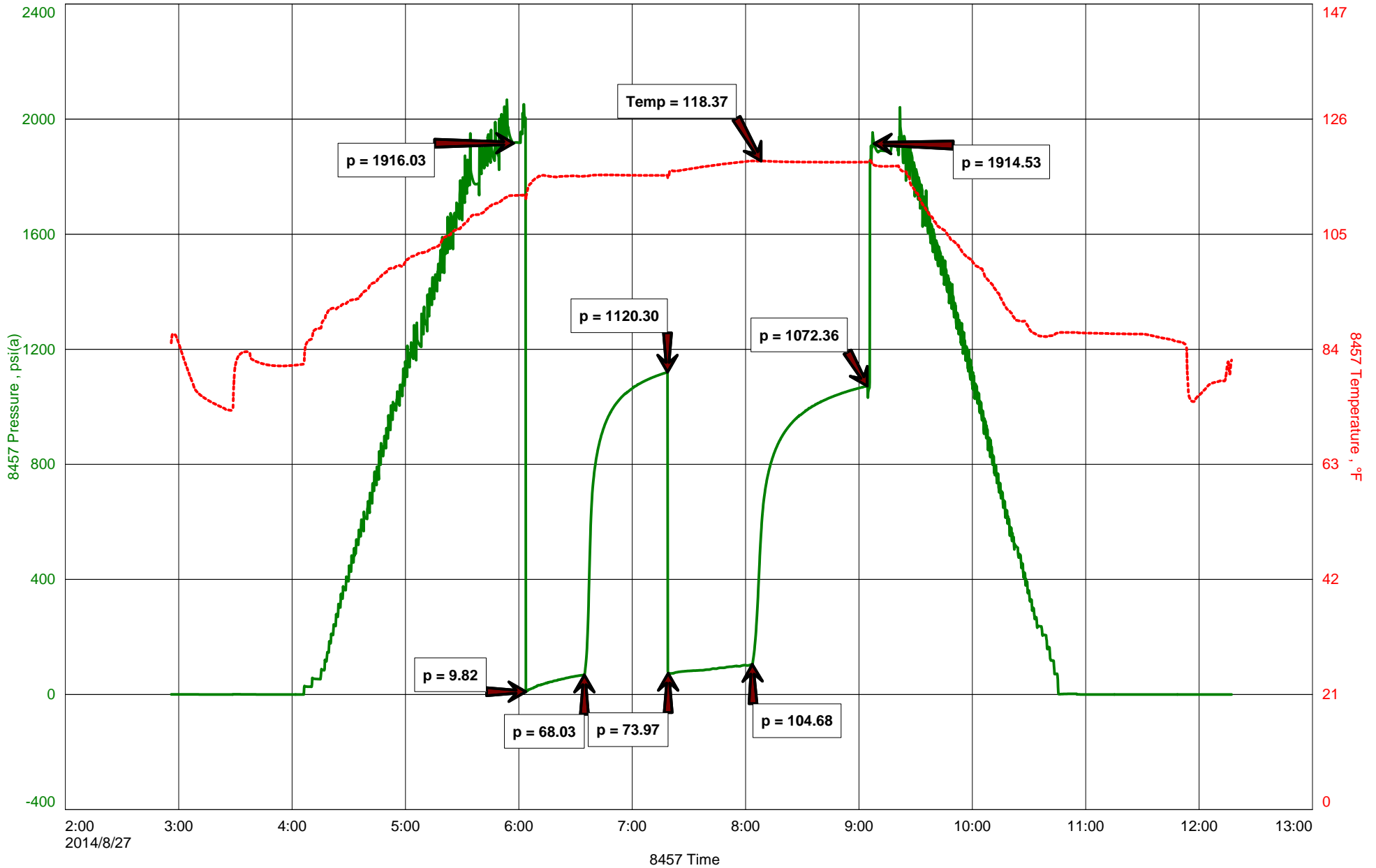
TOOL SAMPLE: 10% OIL, 90% MUD

CHLORIDES: 81,000 ppm  
PH: 7.0  
RW: .13 @ 73 deg.

L.D. DRILLING, INC.  
DST #1, LANSING "B", 4023-4055  
Start Test Date: 2014/08/27  
Final Test Date: 2014/08/27

LOCKWOOD #2-35  
Formation: DST #1, LANSING "B", 4023-4055  
Pool: WILDCAT  
Job Number: T384

# LOCKWOOD #2-35





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: LOCKWOOD2-35DST1

TIME ON: 02:56  
TIME OFF: 12:18

Company L.D. DRILLING, INC. Lease & Well No. LOCKWOOD #2-35  
Contractor SKYTOP DRILLING, LLC RIG #1 Charge to L.D. DRILLING, INC.  
Elevation 2956 KB Formation LANSING "B" Effective Pay \_\_\_\_\_ Ft. Ticket No. T384  
Date 8-27-14 Sec. 356 Twp. \_\_\_\_\_ 11 S Range \_\_\_\_\_ 31 W County GOVE State KANSAS  
Test Approved By LARRY FRIEND Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 4023 ft. to 4055 ft. Total Depth 4055 ft.  
Packer Depth 4018 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4023 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4004 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 4052 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 141 ft. I.D. 2 1/4 in.  
Weight 7.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 1,500 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. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 30 MIN. (NO BB)  
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 36 MIN. (NO BB)

Recovered 190 ft. of GAS IN PIPE  
Recovered 85 ft. of SW&MCO, 98% OIL, 1% WATER, 1% MUD, GRAVITY: 36  
Recovered 95 ft. of SW&WCM, 18% OIL, 18% WATER, 64% MUD  
Recovered 55 ft. of SMCW W/TR. O, TRACE OIL, 92% WATER, 8% MUD

Recovered <u>235</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 6:03 AM A.M. P.M. Time Started Off Bottom 9:03 AM A.M. P.M. Maximum Temperature 118 deg.

Initial Hydrostatic Pressure..... (A) 1916 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 68 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1120 P.S.I.  
Final Flow Period..... Minutes 45 (E) 74 P.S.I. to (F) 105 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1072 P.S.I.  
Final Hydrostatic Pressure..... (H) 1915 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

<b>Company Name</b>	L.D. DRILLING, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	L.D. DAVIS	<b>Well Operator</b>	L.D. DRILLING, INC.
<b>Well Name</b>	LOCKWOOD #2-35	<b>Report Date</b>	2014/08/28
<b>Unique Well ID</b>	DST #2, LANSING "E&F", 4061-4090	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 35-11S-31W, GOVE CO. KS.	<b>Qualified By</b>	LARRY FRIEND
<b>Field</b>	CLEVELAND CREEK SOUTHWEST		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #2, LANSING "E&F", 4061-4090		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2014/08/28	<b>Start Test Time</b>	00:16:00
<b>Final Test Date</b>	2014/08/28	<b>Final Test Time</b>	09:14:00

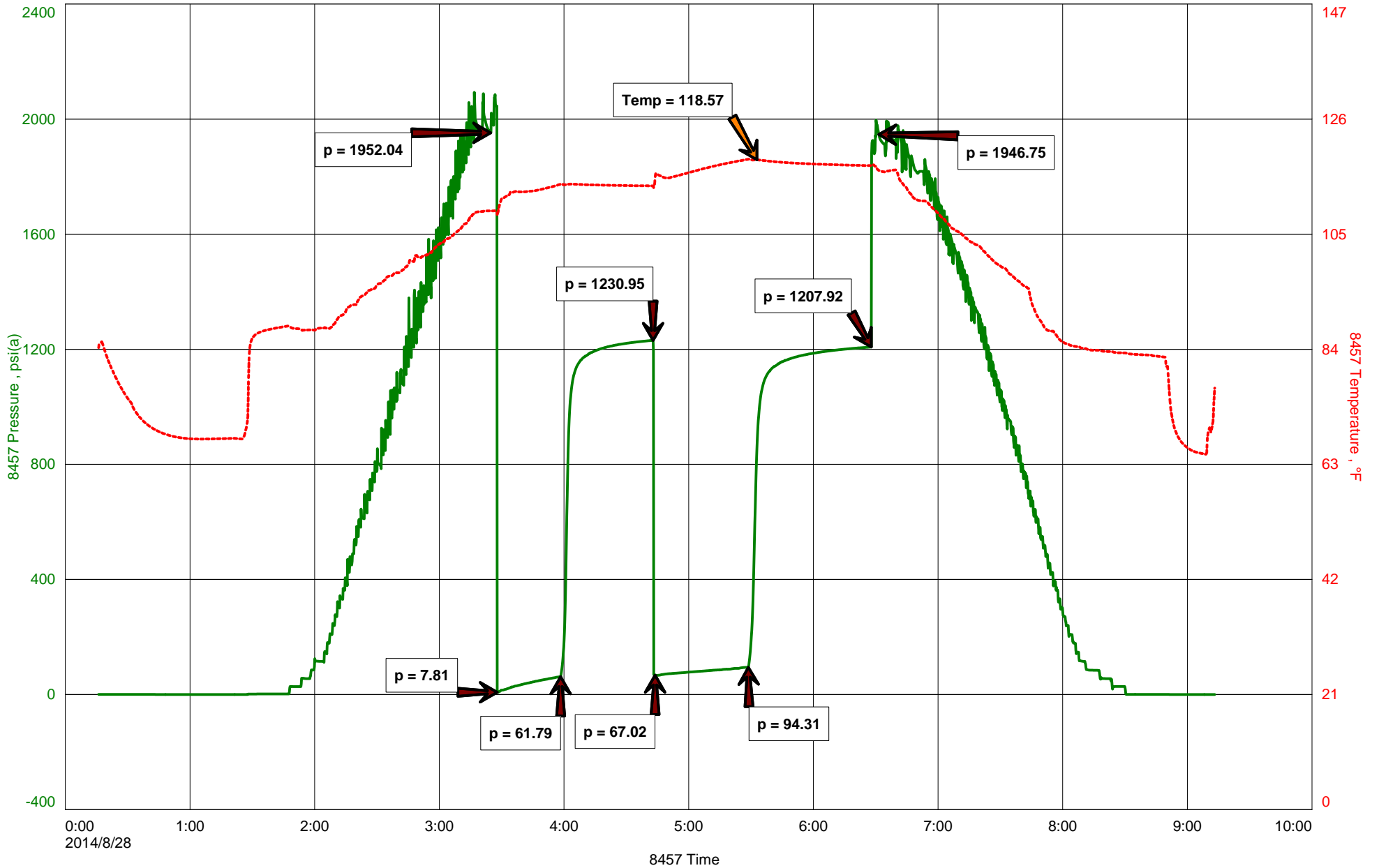
### Test Recovery:

RECOVERED: 215' GAS IN PIPE  
80' SMCO, 98% OIL, 2% MUD, GRAVITY: 36  
20' SW&MCO, 84% OIL, 6% WATER, 10% MUD  
55' SOHWCM, 11% OIL, 38% WATER, 51% MUD  
55' SMCW W/TR. O, TRACE OIL, 91% WATER, 9% MUD  
210' TOTAL FLUID

TOOL SAMPLE: 3% OIL, 97% WATER

CHLORIDES: 87,000 ppm  
PH: 7.0  
RW: .12 @ 70 deg.

# LOCKWOOD #2-35







**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: LOCKWOOD2-35DST2

TIME ON: 00:16  
TIME OFF: 09:14

Company L.D. DRILLING, INC. Lease & Well No. LOCKWOOD #2-35  
Contractor SKYTOP DRILLING, LLC RIG #1 Charge to L.D. DRILLING, INC.  
Elevation 2956 KB Formation LANSING "E&F" Effective Pay \_\_\_\_\_ Ft. Ticket No. T385  
Date 8-28-14 Sec. 35 Twp. \_\_\_\_\_ 11 S Range \_\_\_\_\_ 31 W County GOVE State KANSAS  
Test Approved By LARRY FRIEND Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 4061 ft. to 4090 ft. Total Depth 4090 ft.  
Packer Depth 4056 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4061 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4042 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 4087 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 141 ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 500 P.P.M. Drill Pipe Length 3887 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 29 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING TO 11 1/2 INCHES. (NO BB)  
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 33 MIN. (NO BB)

Recovered <u>215</u> ft. of <u>GAS IN PIPE</u>	
Recovered <u>80</u> ft. of <u>SMCO, 98% OIL, 2% MUD, GRAVITY: 36</u>	
Recovered <u>20</u> ft. of <u>SW&amp;MCO, 84% OIL, 6% WATER, 10% MUD</u>	
Recovered <u>55</u> ft. of <u>SOHWCM, 11% OIL, 38% WATER, 51% MUD</u>	
Recovered <u>55</u> ft. of <u>SMCW W/TR. O, TRACE OIL, 91% WATER, 9% MUD</u>	Price Job
Recovered <u>210</u> ft. of <u>TOTAL FLUID</u> CHLORIDES: <u>87,000</u> ppm	Other Charges
Remarks: _____ PH: <u>7.0</u>	Insurance
_____ RW: <u>.12 @ 70 deg.</u>	
TOOL SAMPLE: <u>3% WATER, 97% OIL</u>	Total

Time Set Packer(s) 3:28 AM A.M. P.M. Time Started Off Bottom 6:28 AM A.M. P.M. Maximum Temperature 119 deg.

Initial Hydrostatic Pressure..... (A) 1952 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 62 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1231 P.S.I.  
Final Flow Period..... Minutes 45 (E) 67 P.S.I. to (F) 94 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1208 P.S.I.  
Final Hydrostatic Pressure..... (H) 1947 P.S.I.

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# DIAMOND TESTING

## General Information Report

### General Information

<b>Company Name</b>	L.D. DRILLING, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	L.D. DAVIS	<b>Well Operator</b>	L.D. DRILLING, INC.
<b>Well Name</b>	LOCKWOOD #2-35	<b>Report Date</b>	2014/08/29
<b>Unique Well ID</b>	DST #3, LANSING "H,I,J", 4130-4210	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 35-11S-31W, GOVE CO. KS.	<b>Qualified By</b>	LARRY FRIEND
<b>Field</b>	CLEVELAND CREEEK SOUTHWEST		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #3, LANSING "H,I,J", 4130-4210		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2014/08/29	<b>Start Test Time</b>	09:30:00
<b>Final Test Date</b>	2014/08/29	<b>Final Test Time</b>	17:17:00

### Test Recovery:

RECOVERED: 85' SO&WCM, 13% OIL, 11% WATER, 76% MUD

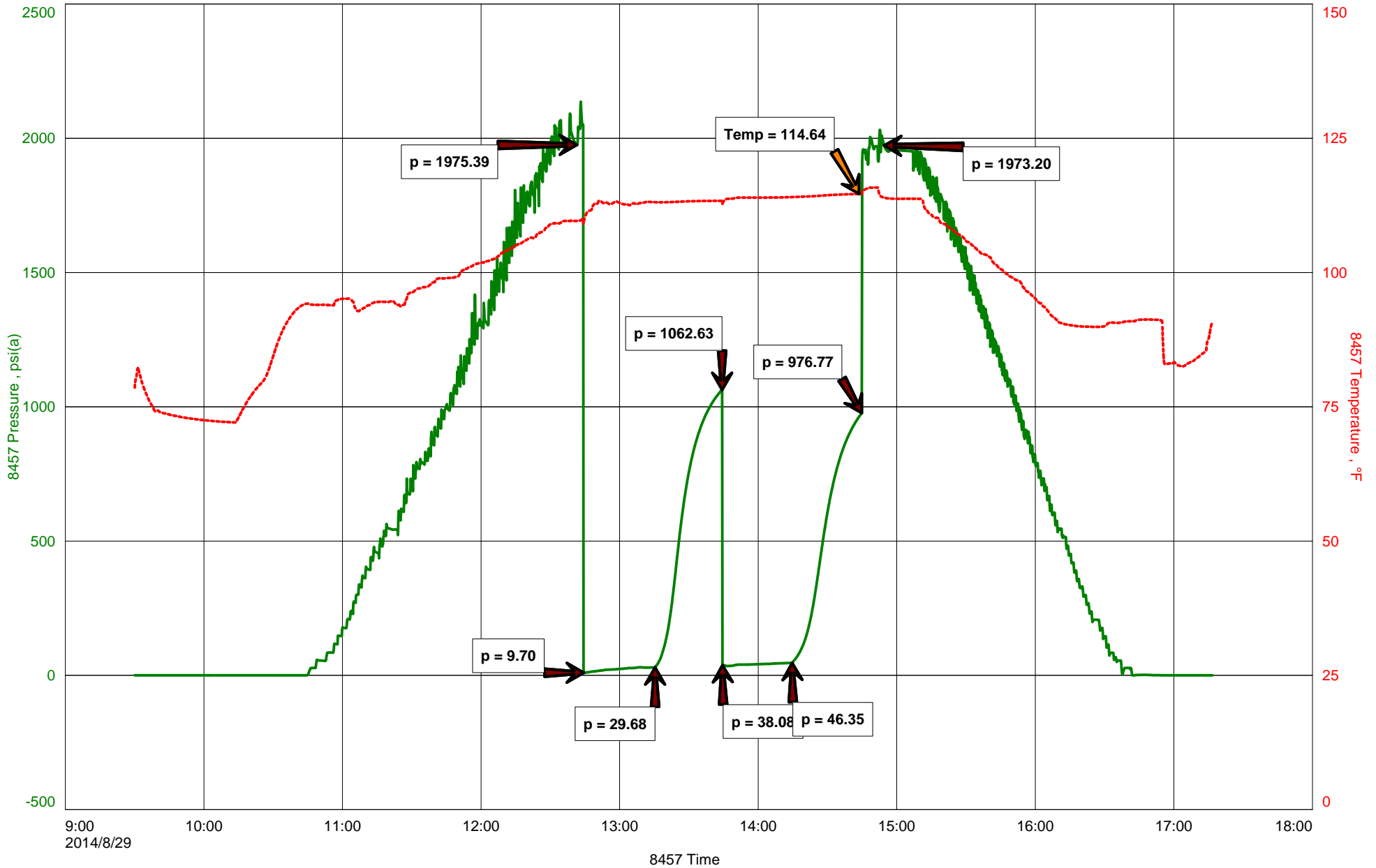
TOOL SAMPLE: 9% OIL, 29% WATER, 62%MUD

CHLORIDES: 32,000 ppm  
PH: 9.0  
RW: .23 @ 74 deg.

L.D. DRILLING, INC.  
DST #3, LANSING "H,I,J", 4130-4210  
Start Test Date: 2014/08/29  
Final Test Date: 2014/08/29

LOCKWOOD #2-35  
Formation: DST #3, LANSING "H,I,J", 4130-4210  
Pool: CLEVELAND CREEK SOUTHWEST  
Job Number: T386

# LOCKWOOD #2-35





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: LOCKWOOD2-35DST3

TIME ON: 09:30  
TIME OFF: 17:17

Company L.D. DRILLING, INC. Lease & Well No. LOCKWOOD #2-35  
Contractor SKYTOP DRILLING, LLC RIG #1 Charge to L.D. DRILLING, INC.  
Elevation 2956 KB Formation LANSING "H,I,J" Effective Pay \_\_\_\_\_ Ft. Ticket No. T386  
Date 8-29-14 Sec. 35 Twp. \_\_\_\_\_ 11 S Range \_\_\_\_\_ 31 W County GOVE State KANSAS  
Test Approved By LARRY FRIEND Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 4130 ft. to 4210 ft. Total Depth 4210 ft.  
Packer Depth 4125 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4130 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 4111 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 4207 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 68 Drill Collar Length 141 ft. I.D. 2 1/4 in.  
Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 500 P.P.M. Drill Pipe Length 3956 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 17 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>63' DP IN ANCHOR</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1 1/2 INCHES. (NO BB)  
2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 3/4 INCH (NO BB)

Recovered 85 ft. of SO&WCM, 13% OIL, 11% WATER, 76% MUD  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>CHLORIDES: 32,000 ppm</u>	Other Charges
Remarks: <u>PH: 9.0</u>	Insurance
<u>RW: .23 @ 74 deg.</u>	
<u>TOOL SAMPLE: 9% OIL, 29% WATER, 62% MUD</u>	Total

Time Set Packer(s) 12:44 PM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 2:44 PM <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 115 deg.

Initial Hydrostatic Pressure..... (A) 1975 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 30 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 1063 P.S.I.  
Final Flow Period..... Minutes 30 (E) 38 P.S.I. to (F) 46 P.S.I.  
Final Closed In Period..... Minutes 30 (G) 977 P.S.I.  
Final Hydrostatic Pressure..... (H) 1973 P.S.I.

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# DIAMOND TESTING

## General Information Report

### General Information

**Company Name** L.D. DRILLING, INC.  
**Contact** L.D. DAVIS  
**Well Name** LOCKWOOD #2-35  
**Unique Well ID** DST #4, LANSING "K&L", 4212-4273  
**Surface Location** SEC 35-11S-31W, GOVE CO. KS.  
**Field** CLEVELAND CREEK SOUTHWEST  
**Well Type** Vertical  
**Test Type** CONVENTIONAL  
**Formation** DST #4, LANSING "K&L", 4212-4273  
**Well Fluid Type** 01 Oil

**Representative** TIM VENTERS  
**Well Operator** L.D. DRILLING, INC.  
**Report Date** 2014/08/30  
**Prepared By** TIM VENTERS  
**Qualified By** LARRY FRIEND

**Start Test Date** 2014/08/30  
**Final Test Date** 2014/08/30

**Start Test Time** 04:43:00  
**Final Test Time** 13:46:00

### Test Recovery:

RECOVERED: 20' MCW, 61% WATER, 39% MUD  
65' WCM, 29% WATER, 71% MUD  
55' SMCW, 92% WATER, 8% MUD  
55' HWCM, 45% WATER, 55% MUD  
195' TOTAL FLUID

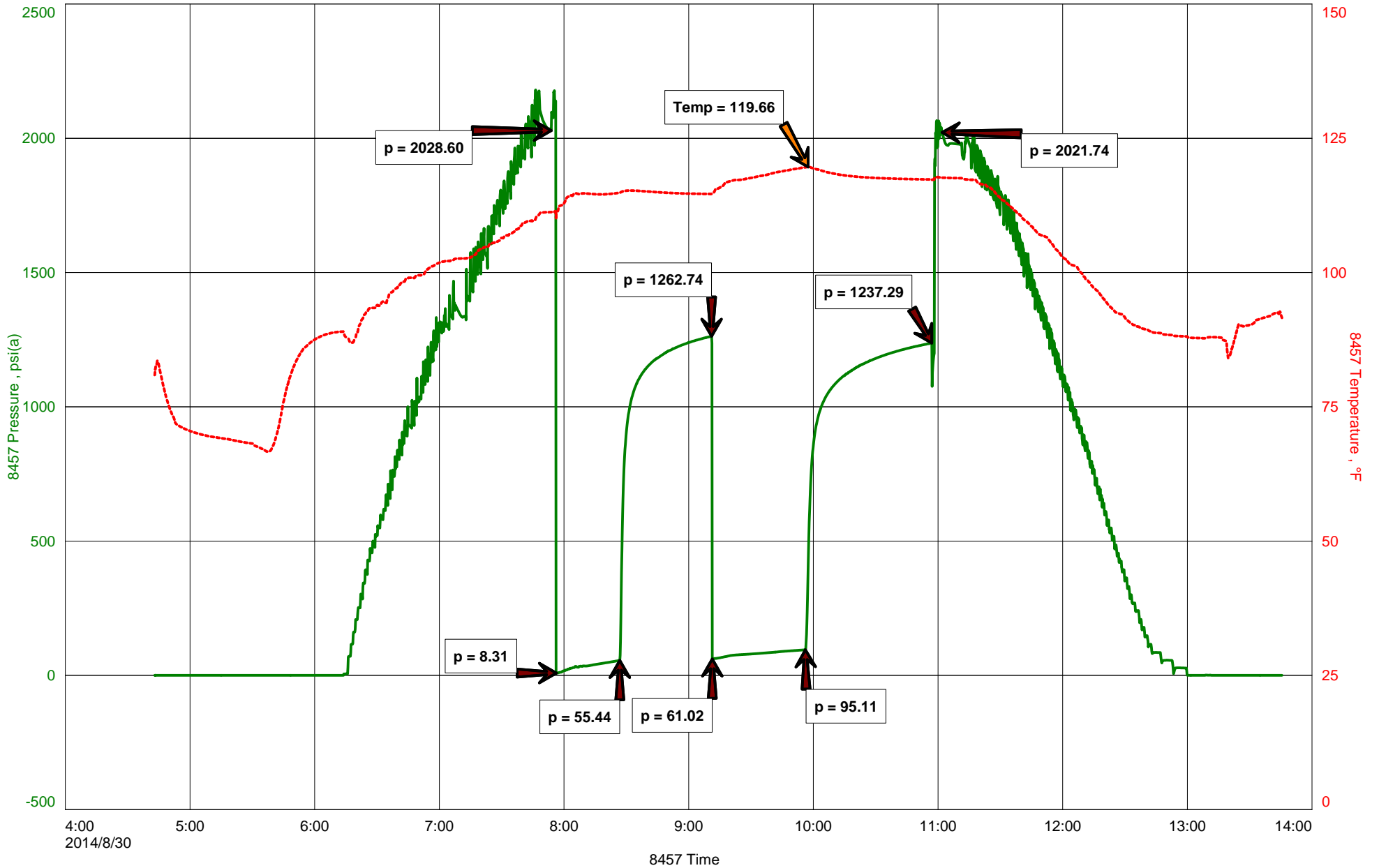
TOOL SAMPLE: 58% WATER, 42% MUD

CHLORIDES: 68,000 ppm  
PH: 7.0  
RW: .13 @ 79 deg.

L.D. DRILLING, INC.  
DST #4, LANSING "K&L", 4212-4273  
Start Test Date: 2014/08/30  
Final Test Date: 2014/08/30

LOCKWOOD #2-35  
Formation: DST #4, LANSING "K&L", 4212-4273  
Pool: CLEVELAND CREEK SOUTHWEST  
Job Number: T387

# LOCKWOOD #2-35





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: LOCKWOOD2-35DST4

TIME ON: 04:43  
TIME OFF: 13:46

Company L.D. DRILLING, INC. Lease & Well No. LOCKWOOD #2-35  
Contractor SKYTOP DRILLING, LLC RIG #1 Charge to L.D. DRILLING, INC.  
Elevation 2956 KB Formation LANSING "K&L" Effective Pay \_\_\_\_\_ Ft. Ticket No. T387  
Date 8-30-14 Sec. 35 Twp. \_\_\_\_\_ 11 S Range \_\_\_\_\_ 31 W County GOVE State KANSAS  
Test Approved By LARRY FRIEND Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 4212 ft. to 4273 ft. Total Depth 4273 ft.  
Packer Depth 4207 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4212 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 4193 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 4270 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 68 Drill Collar Length 141 ft. I.D. 2 1/4 in.  
Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 500 P.P.M. Drill Pipe Length 4038 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 30 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>31' DP IN ANCHOR</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

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

Recovered 20 ft. of MCW, 61% WATER, 39% MUD  
Recovered 65 ft. of WCM, 29% WATER, 71% MUD  
Recovered 55 ft. of SMCW, 92% WATER, 8% MUD  
Recovered 55 ft. of HWCM, 45% WATER, 55% MUD

Recovered <u>195</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>58% WATER, 42% MUD</u>	Total

Time Set Packer(s) 7:55 AM A.M. P.M. Time Started Off Bottom 10:55 AM A.M. P.M. Maximum Temperature 120 deg.

Initial Hydrostatic Pressure..... (A) 2029 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 55 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1263 P.S.I.  
Final Flow Period..... Minutes 45 (E) 61 P.S.I. to (F) 95 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1237 P.S.I.  
Final Hydrostatic Pressure..... (H) 2022 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

<b>Company Name</b>	L.D. DRILLING, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	L.D. DAVIS	<b>Well Operator</b>	L.D. DRILLING, INC.
<b>Well Name</b>	LOCKWOOD #2-35	<b>Report Date</b>	2014/09/01
<b>Unique Well ID</b>	DST 5, MYR./FT. SC./JOH., 4417-4545	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 35-11S-31W, GOVE CO. KS.	<b>Qualified By</b>	LARRY FRIEND
<b>Field</b>	CLEVELAND CREEK SOUTHWEST		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST 5, MYR./FT. SC./JOH., 4417-4545		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2014/08/31	<b>Start Test Time</b>	20:43:00
<b>Final Test Date</b>	2014/09/01	<b>Final Test Time</b>	07:05:00

### Test Recovery:

RECOVERED: 130' SOHWCM, 1% OIL, 47% WATER, 52% MUD  
245' MCW W/SP. O, SPOTTY OIL, 66% WATER, 34% MUD  
240' SMCW, 88% WATER, 12% MUD  
55' WCM 31% WATER, 69% MUD  
670' TOTAL FLUID

TOOL SAMPLE: 99% WATER, 1% MUD

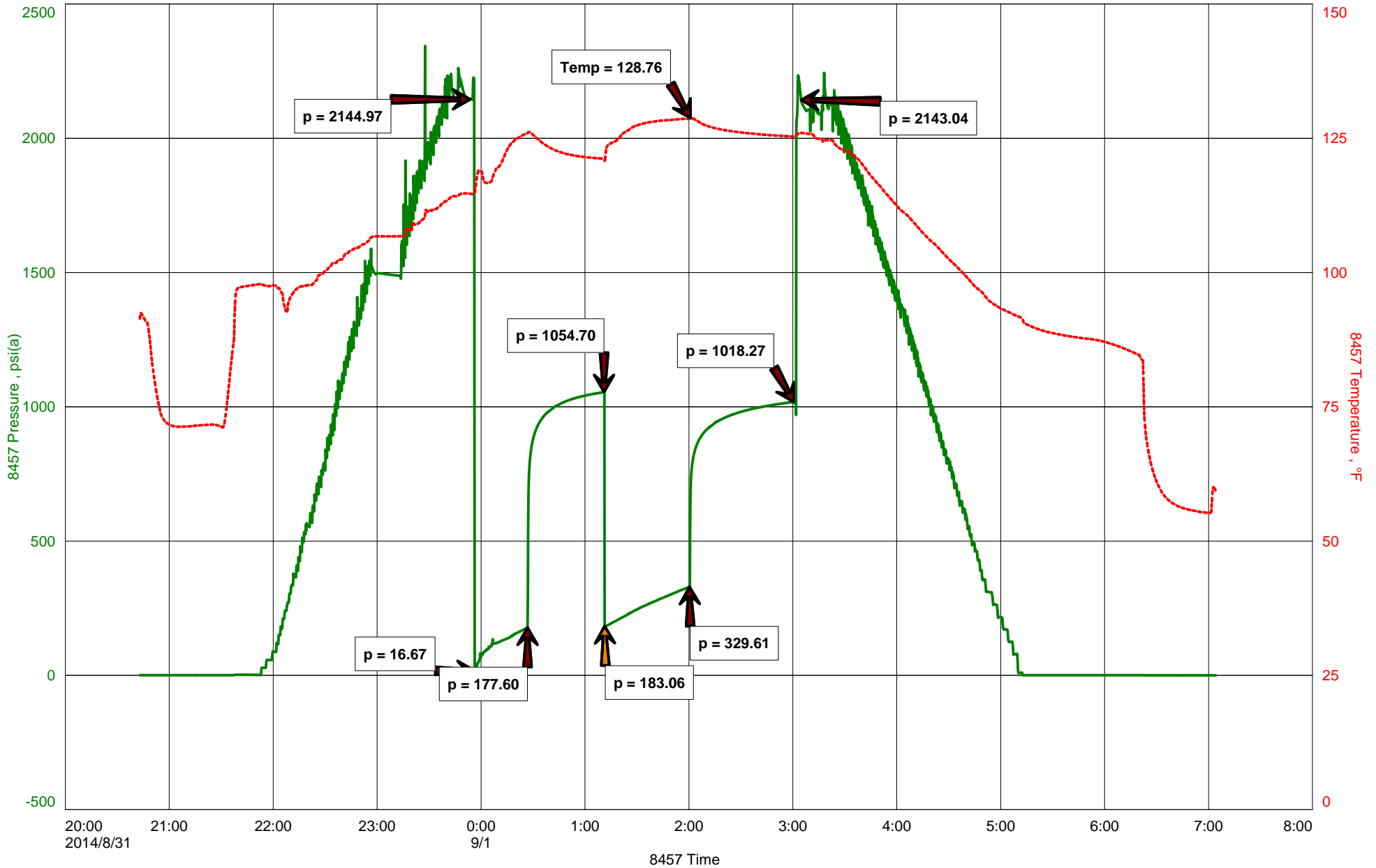
CHLORIDES: 85,000 ppm  
PH: 5.5  
RW: .13 @ 66 deg.



L.D. DRILLING, INC.  
DST 5, MYR./FT. SC./JOH., 4417-4545  
Start Test Date: 2014/08/31  
Final Test Date: 2014/09/01

LOCKWOOD #2-35  
Formation: DST 5, MYR./FT. SC./JOH., 4417-4545  
Pool: CLEVELAND CREEK SOUTHWEST  
Job Number: T388

# LOCKWOOD #2-35





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: LOCKWOOD2-35DST5

TIME ON: 20:43 8-30-14  
TIME OFF: 07:05 9-1-14

Company L.D. DRILLING, INC. Lease & Well No. LOCKWOOD #2-35  
Contractor SKYTOP DRILLING, LLC RIG #1 Charge to L.D. DRILLING, INC.  
Elevation 2956 KB Formation MYRIC/FT. SCOTT/JOHNSON Effective Pay \_\_\_\_\_ Ft. Ticket No. T388  
Date 8-31-14 Sec. 35 Twp. \_\_\_\_\_ 11 S Range \_\_\_\_\_ 31 W County GOVE State KANSAS  
Test Approved By LARRY FRIEND Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 5 Interval Tested from 4417 ft. to 4545 ft. Total Depth 4545 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 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 4542 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 54 Drill Collar Length 141 ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 10.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 1,000 P.P.M. Drill Pipe Length 4243 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 34 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>94' DP IN ANCHOR</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 15 1/2 MIN. (NO BB)  
2nd Open: VERY WEAK SURFACE BLOW, BUILDING, REACHING BOB 20 1/2 MIN. (NO BB)

Recovered 130 ft. of SOHWCM, 1% OIL, 47% WATER, 52% MUD  
Recovered 245 ft. of MCW W/SP. O, SPOTTY OIL, 66% WATER, 34% MUD  
Recovered 240 ft. of SMCW, 88% WATER, 12% MUD  
Recovered 55 ft. of WCM, 31% WATER, 69% MUD  
Recovered 670 ft. of TOTAL FLUID

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

TOOL SAMPLE: 99% WATER, 1% MUD

Time Set Packer(s) 11:56 PM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 3:00 AM <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 129 deg.  
Initial Hydrostatic Pressure..... (A) 2145 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 178 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1055 P.S.I.  
Final Flow Period..... Minutes 49 (E) 183 P.S.I. to (F) 330 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1018 P.S.I.  
Final Hydrostatic Pressure..... (H) 2143 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.

**WELL INFORMATION**

Company: L.D. DRILLING, INC.  
 Address: 7 SW 26TH AVE  
 GREAT BEND, KS 67530

Well Name: 2-35 LOCKWOOD

Location: 2150 FSL, 1950 FWL  
 SEC. 35- T11S - R31W  
 GOVE COUNTY, KANSAS

API: 15-063-22213-00-00  
 Field: CLEVELAND CREEK S.W.

KB Elevation: 2956 Rotary Depth: 4670  
 Ground Elevation: 2949 Log Depth: 4674

Spud Date: 8/19/2014 Drilling Completed: 9/1/2014

Completion: OIL WELL  
 Surface Casing: 8 5/8" SET @ 325' Production Casing: 4.5" SET @ 4667'

Formation at TD: MISSISSIPPIAN  
 Drilling Fluid Type: CHEMICAL

Rig Contractor: SKYTOP DRILLING  
 Logger: NABORS Logs Run: DI, CND, MICRO

Wellsite Geologist: LARRY P. FRIEND

**FORMATION DEPTHS**

COMPARED TO:  
 L.D. DRILLING, INC.  
 1-35 LOCKWOOD  
 SW, 35-T11S-T31W (1/10/2013)

FORMATION DEPTHS	SAMPLE	LOG	
ANHYDRITE	2462 (+494)	2463 (+493)	+7
BASE ANHY.	2488 (+468)	2488 (+468)	+7
STOTLER	3609 (-653)	3610 (-654)	+3
HEEBNER SHALE	3958 (-1002)	3959 (-1003)	+7
TORONTO	3981 (-1025)	3985 (-1029)	+9
LANSING	3996 (-1040)	3997 (-1041)	+14
MUNCIE CREEK	4132 (-1176)	4133 (-1177)	+7
STARK SHALE	4216 (-1260)	4215 (-1259)	+7
HUSHPUCKNEY SH.	4248 (-1292)	4249 (-1293)	+7
BS KANSAS CITY	4275 (-1319)	4275 (-1319)	+6
MARMATON	4298 (-1342)	4301 (-1345)	+7
"PAWNEE"	4400 (-1444)	4399 (-1443)	+8
"MYRICK STATION"	4439 (-1483)	4441 (-1485)	+9
"FT. SCOTT"	4463 (-1507)	4465 (-1509)	+8
"CHEROKEE"	4491 (-1535)	4492 (-1536)	+8
"JOHNSON ZONE"	4535 (-1579)	4535 (-1579)	+7
MISSISSIPPIAN	4548 (-1592)	4554 (-1598)	+6
SPERGEN	4604 (-1648)	4605 (-1649)	+16

**NOTES**

DUE TO FAVORABLE DRILL STEM TEST RESULTS, IT WAS DECIDED TO RUN CASING AND PRODUCE THIS WELL.

AFTER BRIEF EVALUATION OF THE LOG, THE ZONES OF INTEREST I SEE FOR FUTHER EVALUATION AND / OR PERFORATION ARE: (THERE MAY BE MORE )

DRILL INFORMATION ARE: (THERE MAY BE MORE.)

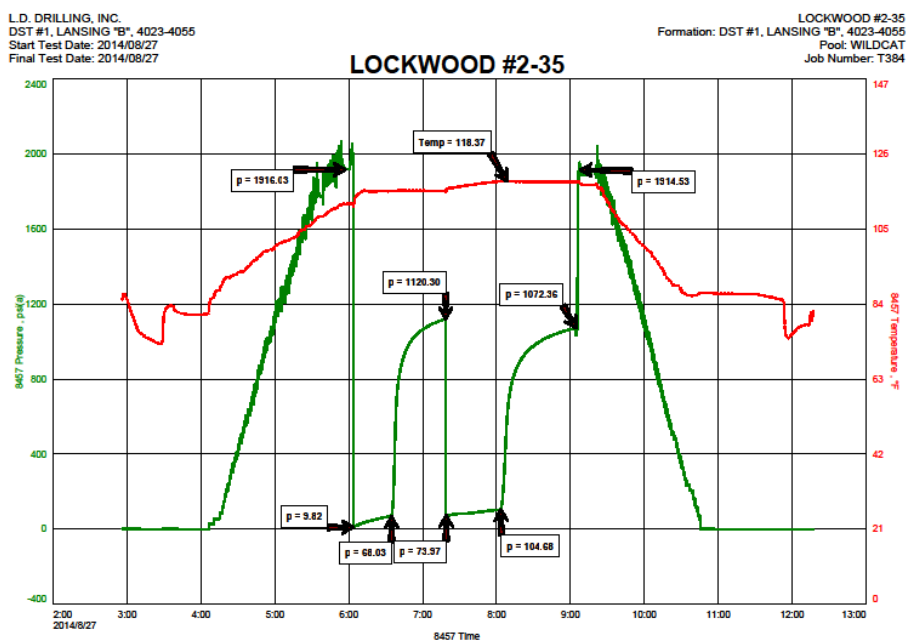
LANSING "B": 4032-4034 & 4036-4038, (DST #1)  
 LANSING "E": 4068-4070, (DST #2)  
 LANSING "F": 4080-4082?, LOOKS WET?, (DST #2)  
 KANSAS CITY "H": 4149-4153, (DST #3)  
 MYRICK STATION: 4446-4448?, POOR POROSITY, (DST #5)  
 MISSISSIPPIAN: 4585-4588?, ONLY SLI. SAMPLE SHOW, MAY BE TOO THIN, TIGHT & WET.

RESPECTFULLY SUBMITTED,  
 LARRY P. FRIEND

### DRILLSTEM TESTS

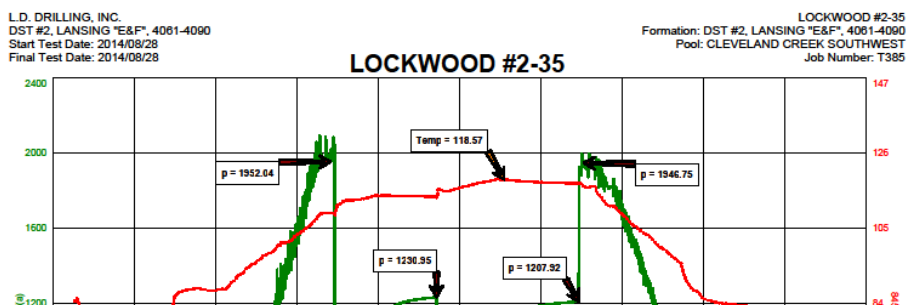
No	Interval	Formation
1	4023 - 4055	LANSING "B" ZONE
2	4061 - 4090	LANSING "E" AND "F"
3	4130 - 4210	KANSAS CITY "H", "I", "J"
4	4212 - 4273	KANSAS CITY "K" AND "L"
5	4417 - 4545	MYRICK, FT. SCOTT AND JOHNSON ZN.

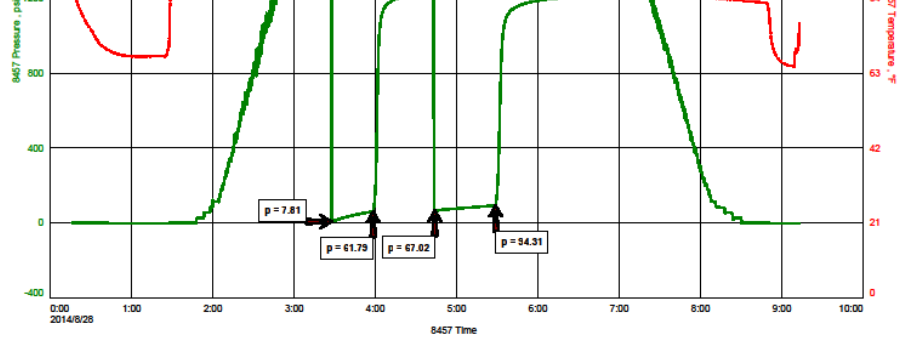
### DST #1 CHART



Fast

### DST #2 CHART





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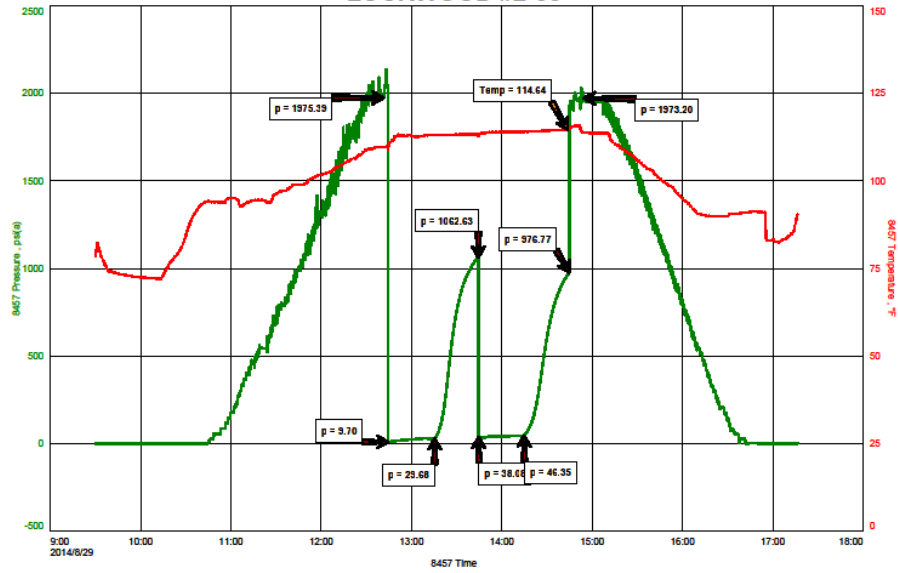
Fast

### DST #3 CHART

L.D. DRILLING, INC.  
DST #3, LANSING "H.I.J.", 4130-4210  
Start Test Date: 2014/08/29  
Final Test Date: 2014/08/29

LOCKWOOD #2-35  
Formation: DST #3, LANSING "H.I.J.", 4130-4210  
Pool: CLEVELAND CREEK SOUTHWEST  
Job Number: T388

#### LOCKWOOD #2-35



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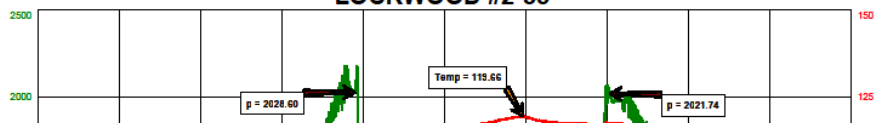
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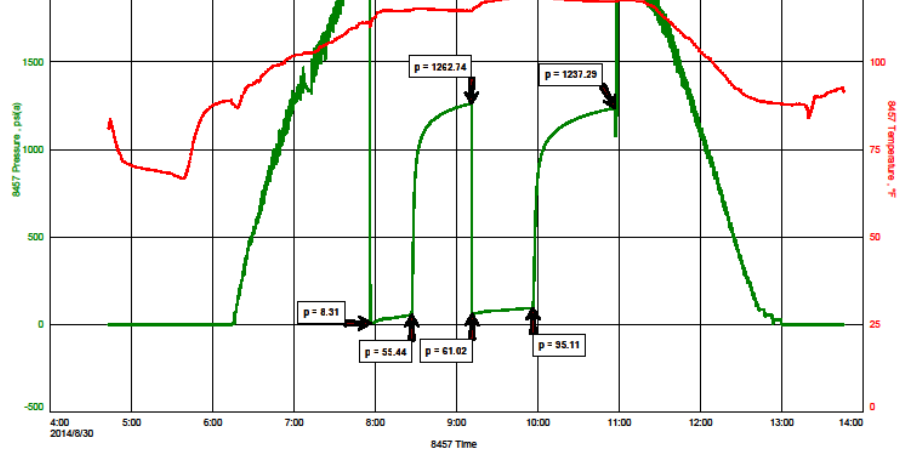
### DST #4 CHART

L.D. DRILLING, INC.  
DST #4, LANSING "K&L", 4212-4273  
Start Test Date: 2014/08/30  
Final Test Date: 2014/08/30

LOCKWOOD #2-35  
Formation: DST #4, LANSING "K&L", 4212-4273  
Pool: CLEVELAND CREEK SOUTHWEST  
Job Number: T387

#### LOCKWOOD #2-35





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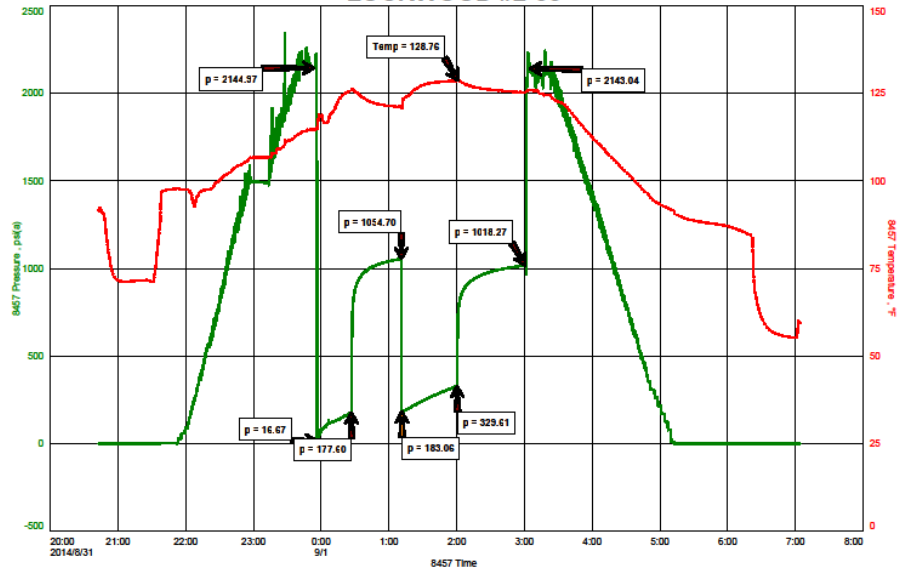
Fast

### DST #5 CHART

L.D. DRILLING, INC.  
DST 5, MYR./FT. SC./JOH., 4417-4545  
Start Test Date: 2014/08/31  
Final Test Date: 2014/09/01

LOCKWOOD #2-35  
Formation: DST 5, MYR./FT. SC./JOH., 4417-4545  
Pool: CLEVELAND CREEK SOUTHWEST  
Job Number: T388








### LOCKWOOD #2-35



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Fast

### ROCK TYPES

- |  |   |   |   |
|--|---|---|---|
|  Dolsec    |  Lmst fw7> |  Shbck |  Stst |
|  Lmst fw<7 |  Shgy      |  Shcol |   |

### ACCESSORIES

ACCESSORIES

**MINERAL**

- ▲ Chert, dark
- △ Dolomitic
- ✕ Mineral Crystals
- Sandy
- ^ Siliceous
- Silty
- △ Chert White

**FOSSIL**

- ◊ Oolites

**OTHER SYMBOLS**

**OIL SHOWS**

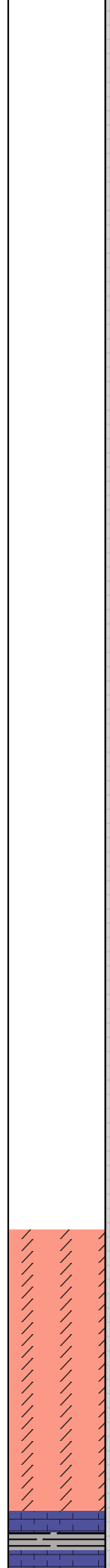
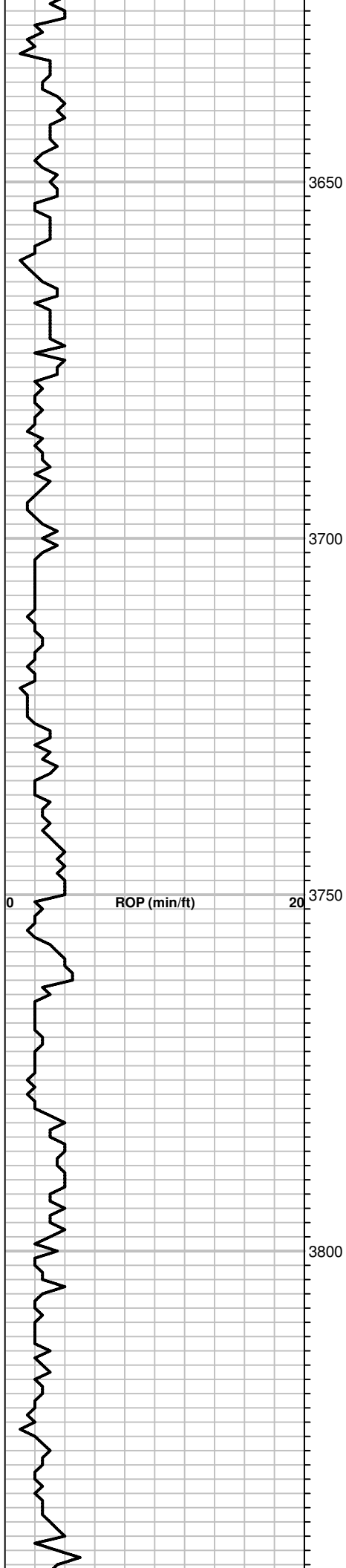
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

**INTERVALS**

- Core
- DST

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

Curve Track #01 ROP (min/ft)	Depth   Intervals Cored Interval DST Interval	Interpreted Lithology	Porosity Oil Shows	Geological Descriptions	Comment
<p>1:240 Imperial</p> <p><b>- STOTLER - 3609 (-653)</b></p>					<p><b>7AM DEPTHS:</b>              8/19/14: MIRU &amp; SPUD              8/20: 330' WAITING ON CEMENT              8/21: 1020              8/22: 1939              8/23: 2816, TRIP TO ADD COLLARS, HAD TO REAM LAST 14 STNDS              8/24: 2940, LOST CIRC.              8/25: 3425              8/26: 3885              8/27: 4055, DST #1              8/28: 4090, DST #2, WORK ON MUD PUMP.              8/29: 4210              8/30: 4273, DST #4              8/31: 4430              9/01: 4545, RTD 4670 @ 8:21PM</p> <p><b>DEV. SURVEYS:</b>              1.75 DEGREES @ 330'              1.50 DEGREES @ 2816'              1.25 DEGREES @ 4055'              DEGREES @ 4670"</p> <p>LOST CIRCULATION @ 2966'</p> <p><b>MUDDERED UP AT 3330'.</b></p> <p>DRILLING MUD @ 3436:              WT: 8.5              VIS: 54              FILTRATE: 8              CHLOR: 1000              LCM: 2#</p>



10: DOL, BRN, FXLN, SUC, W/ PR - FR. XLN.  
POR; NS, NF.

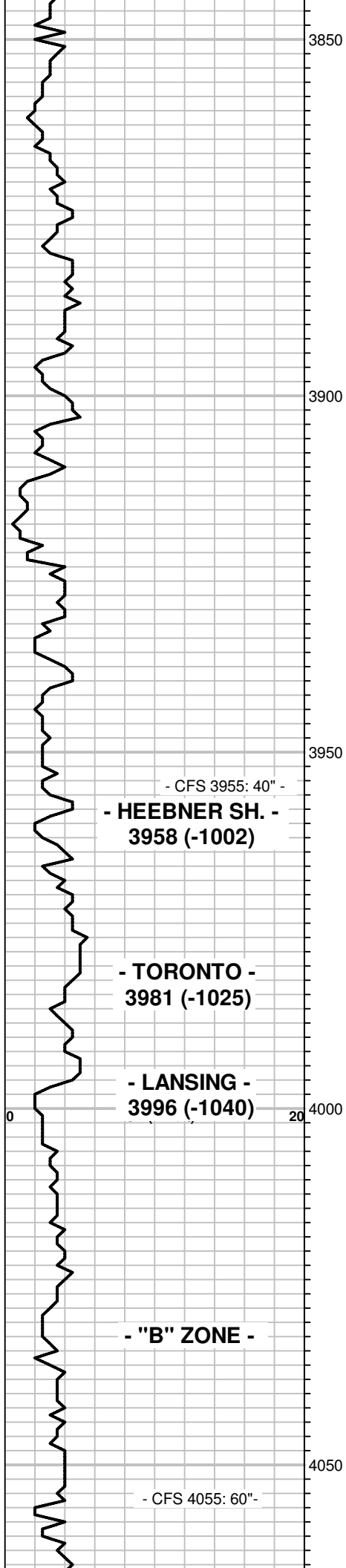
20: LS, CRM-TAM, FXLN, SLI. FOSS, PR - GD.  
XLN. POR, TR. CHLKY; NS

30: INC. DOL. AS ABV, BRN, FXLN, SUC, W/ PR  
- GD. XLN & VUG. POR; NS, NF.

40 & 50: DOL. AS ABOVE; NS

60: LS, CRM - GRY, FXLN, TR. SLI. CALCITIC,  
MUCH SLI. CHLKY, PR - GD. XLN. POR; NS,  
NF





70: GRY, LMY. SILTSTONE.

80: SILTSTN AS ABV; SHALE RED, GRY, BLK; TR. DK. GRY, DETRITAL LS, DSE; TR. LS, TAN, VFXLN, CHTY, DSE; NS

90 & 100: LS, TAN, VF-FXLN, FOSS, PR - TR. FR. XLN. POR & TR. LS, V. OOLITIC, PR. POR; NS

10 & 20: TR. LS, TAN, VFXLN, DSE TO V.SLI. CHLKY, PR. SPTY. PPT. & XLN. POR, VSSFO & PR. SPTY BRN. SAT. STN, NO ODOR.

30: LS, TAN, V. OOLITIC (V. FN. OOLITIES), PR. - GD. OOLICASTIC POR, FEW DK SPKS; AND SOME TAN DOL, FXLN, PR. XLN. POR; TR. TAN CHT; NS, NF.

40: LS, BRN, V. OOLITIC (MD- CSE OOLITES), PR. VIS. POR; SOME BRN SHP. CHT; NS, NF.

50: LS, TAN, OOL./ FOSS/ CALCITIC, SLI. CHLKY, PR. TR. PPT - VUG. POR, TR. W/ PR. TR. HVY. DK. FO, PR. V. SPTY. DK. STN ONLY IN VUGS.

CIRC: LS, TAN- GRY, FXLN, SOME SLI. FOSS, PR - FR. XLN. POR; NS, NF.

70: SHALE, BLK, CARBONACEOUS.

80: LS, BRN, VF-FXLN, SLI. FOSS, DSE; NS

90: SHALE, GRY, GRN, RED, SOME LMY.

100: MOSTLY LS, TAN, VFXLN, SLI. FOSS, DSE; NS

10: TR. LS, BRN, V. OOLITIC/ FOSS., PR - FR. OOLIC. & XLN. POR; NS, NF.

20: SHALE, GRY, GRN; TR. OOL./ FOSS. LS AS ABV; AND LS, TAN VFXLN, DSE; NS, NF.

30: LS, TAN, VFXLN, TR. W/ CALCITIC FILL, TR. OOLITIC, PR. VIS. POR; NS, NF.

40: TR. (ONLY 1-2 PCS/TRAY) LS, BRN, SLI - V. OOLITIC W/ TR. PR. INTER-OOL. PPT TO OOLIC POR, SSFO, 1 PC W/ FSFO, PR. SPTY TO TOT. BRN. SAT. STN, FR. FLUSH CUT, SLI ODOR

50: FEW PCS. LS, AS ABOVE, TAN, V. OOL (FN OOLITES), PR - TR. FR. INTER-OOL - OOLIC POR, SSFO, PR SPTY - FR. TOT. LT. BRN. SAT. STN, GD. FLUSH CUT, SLI. ODOR.

CIRC: LS, TAN, VF-FXLN, PR. VIS. POR; SOME CHT. WHITE, SHP; TR. LS AS ABV. W/ SHOW OIL, NO ODOR.

70: LS, TAN, FXLN, SLI. CALC, PR. XLN. POR; AND LS, CRM, SOFT, SLI. CHLKY; V. COL. SH.

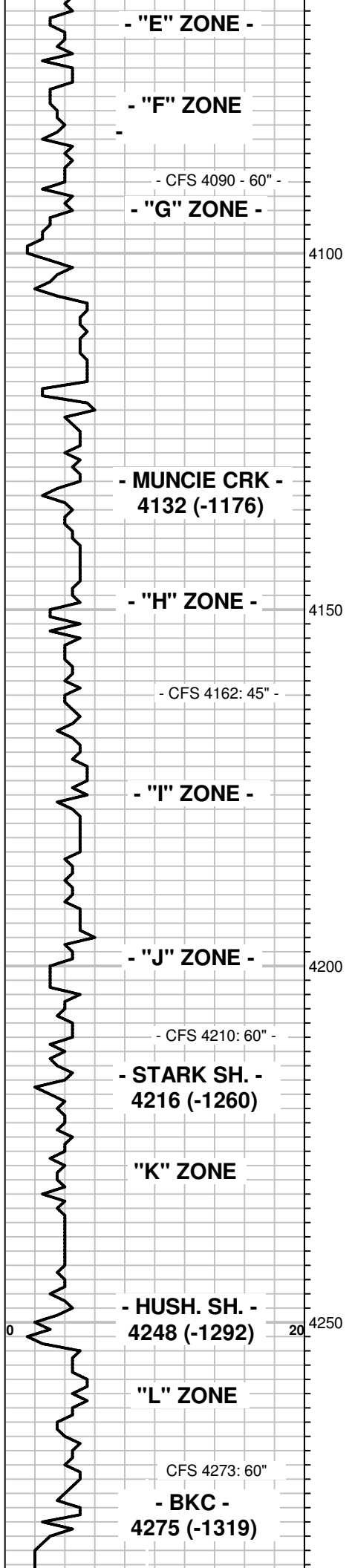
DRILLING MUD @ 3976:  
WT: 9.2  
VIS: 47  
FILTRATE: 8.8  
CHLOR: 1500  
LCM: 2#

MUD @ 4055:  
WT: 9.4  
VIS: 50  
FILTRATE: 8.8  
CHLOR: 500  
LCM: 2#

**DST #1: 4023-4055**  
**LANSING "B" ZONE**  
**TIMES: 30-45-45-60**  
**IF: BLOW OFF BTM IN 30"**  
**ISI: NO BLOWBACK**  
**FF: BLOW OFF BTM IN 36"**  
**FSI: NO BLOWBACK**  
**REC:190' GIP & 235' TOTAL FLUID:**  
**85' VSW&MC OIL (98%O, 1%W, 1%M), GRAV. 36**  
**95' O&WCM (18%O, 18%W 64% M.)**  
**55' SMCW W/ TR. OIL (92% W, 8%M, TR. OIL)**  
**WTR. CHLOR: 81,000 PPM**  
**SYSTEM: 1,000 PPM**  
**RW: .13 @ 73 F.**  
**IFP: 10-68#, FFP: 74-105#**  
**SIP: 1120-1072#**  
**HP: 1916-1915#**  
**MAX TEMP: 118 F.**  
**SEE CHART ABOVE**

PIPE STRAP @ 4055:  
2.5 FT. LONG TO BOARD.

**DST 2: 4061-4090**  
**LANSING "E" & "F" ZONES**



- "E" ZONE -

- "F" ZONE -

- CFS 4090 - 60" -

- "G" ZONE -

4100

- MUNCIE CRK -  
4132 (-1176)

- "H" ZONE -

4150

- CFS 4162: 45" -

- "I" ZONE -

- "J" ZONE -

4200

- CFS 4210: 60" -

- STARK SH. -  
4216 (-1260)

"K" ZONE

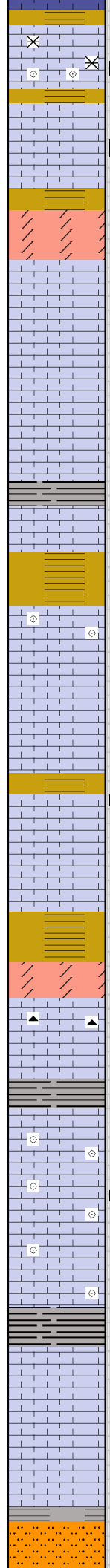
- HUSH. SH. -  
4248 (-1292)

4250

"L" ZONE

CFS 4273: 60"

- BKC -  
4275 (-1319)



80&90: SEV. PCS. LS, TAN, FXLN, W/ MOSTLY PR. TO TR. GD. PPT.-VUG- SOLUTION. POR, MUCH CALCITE FILL, SSFO&G, FR. SPY-TOT.  
MED BRN SAT STN, DULL FLUOR, GD. FLUSH CUT, FR. ODOR; SOME OOL. LS, PR. POR; NS  
CIRC: SEV. PCS. LS, FXLN, W/ PR. TO R. TR. FR. PPT- FOSS. CAST- VUG. POR, PR. TO TR. FR SPY-TOT. BRN SAT STN, VSSFO, S-F ODR

10: DOL, TAN, FXLN, SUCROSIC, W/ PR - TR. FR. XLN. POR; NS, NF.  
20: LS, TAN, FXLN, W/ PR- FR. XLN. POR, SOME CRM. SLI. CHLKY; LS. GRY, VFXLN, SLI. FOSS, DSE; NS,

30 & 40: LS, GRY- LT. BRN, VFXLN, SLI. FOSS, DSE, TO SOME WEATHERED CHLKY; NS, NF.

50: SHALE, BLK; LS, BRN, VFXLN, DSE TO MUCH WEATH, SLI. CHLKY W/ FR-GD. POR, FEW PCS W/ PR. SPY TO FR. TOTAL FLUOR  
NFO, NO STN, SLI ODOR.

62: FEW PCS LS, BRN, VFXLN, DSE, V. OOL./ FOSS (CSE FOSS.), PR. TR. INTER-OOL. PPT. POR, SSFO, PR- FR. SPY- TOT. MD BRN SAT STN, SPY FLOUR, SLI. ODOR

30" CIRC: LS, GRY-TAN, VFXLN, DSE TO WEATHERED CRM, SLI. CHLKY; NS

80: SHALE, BLK; LS, BRN, VFXLN, DSE TO SOME CRM, CHLKY, ONLY CP. PCS W/ V. PR PPT. POR, VSSFO, PR. SPY. STN & FLUOR, SLI. ODOR

90: SEV. PCS. LS, TAN, FXLN W/ PR - FR PPT. - VUG. & XLN POR, RBSSO&G, FR-GD LT. BRN SAT STN, SPY BRT TO TOT. DULL FLR, FR ODOR.

100: LS, DSE, MANY PCS W/ PR. SPY XLN POR & SPY STN, NFO, NO ODOR.

10: DOL, BRN, FXLN, PR- FR. XLN POR & TR. PPT. POR, SSFO, MOSTLY PR. SPY SAT. STN. & V. SPY. BRT. FLUOR, NO ODOR.

CIRC 10: LS, GRY-BRN, VFXLN, DSE TO SOME WEATH. SLI. CHLKY; SOME CHT. GRY-BLUE-BRN; NS.

30: LS, TAN, VFXLN, DSE TO SOME CRM SLI. CHLKY, TR. STN; SHALE, BLK, GRY & BRN.

40: TR. LS, V. OOL./ FOSS, W/ PR- TR. FR. PPT- VUG. POR, SSFO, PR. SPY TO TR. FR. TOT. MD. BRN SAT. STN & FLUOR., SLI. ODOR.

50: LS, BRN, V. OOL/ FOSS, W/ TR. PR- FR. XLN POR & TR. PR. VUG. POR, TR. FO, PR. SPY. LT. BRN SAT STN & FLUOR, FR. ODOR

60: LS, CRM - BRN, FXLN, OOL/ FOSS, FR. XLN POR, TR. STN, SLI. ODOR; SHALE BLACK.

70: LS, DK. BRN, VFXLN, SLI. FOSS, DSE TO SOME WEATHERED; NS, NF

CIRC 73: LS, TAN, VFXLN, DSE, SLI. WEATH, TR. PR. XLN. POR & TR. PR. SPY STN & FLUOR. NO ODOR.

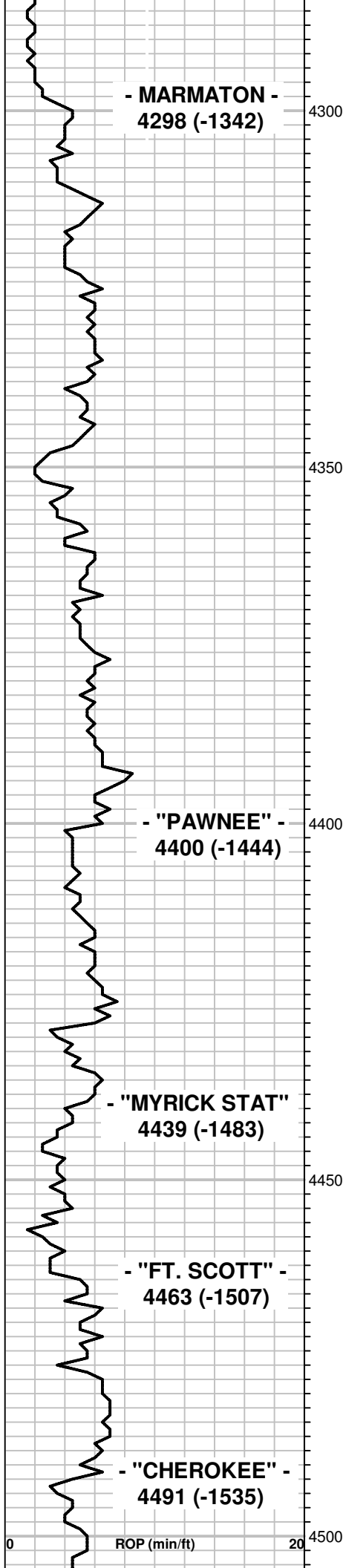
100: SOFT, CRM-GRY CHALK & CRM - LT. GRN LIMY SILTSTONE; NS

**TIMES: 30-45-60**  
**IF: BLOW BLT TO 11.5"**  
**ISI: NO BLOWBACK**  
**FF: BLOW OFF BTM 33".**  
**FSI: NO BLOWBACK**  
**REC: 215' GIP & 210'**  
**TOTAL FLUID:**  
**80' SMCO (2%M) GRAV 36**  
**20' SW&MCO (84%O, 6%W 10%M)**  
**55' SO&HWCM (11%O, 38% W, 51%M)**  
**55' SMCW W/ TR. OIL (TR. O, 91%W, 9%M)**  
**WTR CHLOR: 87,000 PPM**  
**SYSTEM: 1,000 PPM**  
**RW: .12 @ 70 F.**  
**IFP: 8-62#, FFP: 67-94#**  
**SIP: 1231-1208#**  
**HP: 1952-1208#**  
**MAX. TEMP: 119 F.**  
**SEE CHART ABOVE.**  
**MUD @ 4090:**  
WT: 9.4  
VIS: 59  
FILTRATE: 8.8  
CHLOR: 1,000 PPM  
LCM: 2#

**DST #3: 4130-4210**  
**KC "H", "I", "J" ZONES**  
**TIMES: 30-30-30-30**  
**IF: BLOW BLT TO 1.5"**  
**FF: BLOW BLT TO .75"**  
**REC: 85' SO&WCM (13%O, 11%W, 76%M)**  
**IFP: 10-30#, FFP: 38-46#**  
**SIP: 1063-977#**  
**HP: 1975-1973#**  
**MAX TEMP: 115 F.**  
**SEE CHART ABOVE**

**MUD @ 4210:**  
WT: 9.3  
VIS: 68  
FILTRATE: 8.8  
CHLOR: 500  
LCM: 2#

**DST #4: 4212-4273**  
**KC "K" & "L" ZONES**  
**TIMES: 30-45-45-60**  
**IF: BLOW BLT TO 4.5"**  
**FF: BLOW BLT TO 4"**  
**NO BLOWBACK ON SI.**  
**REC: 195' TOTAL FLUID:**  
**20' MCW (61%W, 39%M)**  
**65' WCM (29%W, 71%M)**  
**55' SMCW (92%W, 8%M)**  
**55' HWCM (45%W, 55%M)**  
**WTR CHLOR: 68,000 PPM**  
**SYSTEM: 1,000 PPM**  
**RW: .13 @ 79 F.**  
**IFP: 8-55#, FFP: 61-95#**  
**SIP: 1263-1237#**  
**HP: 2029-2022#**  
**MAX. TEMP: 120 F.**  
**SEE CHART ABOVE**



- MARMATON -  
4298 (-1342)

- "PAWNEE" -  
4400 (-1444)

- "MYRICK STAT"  
4439 (-1483)

- "FT. SCOTT" -  
4463 (-1507)

- "CHEROKEE" -  
4491 (-1535)

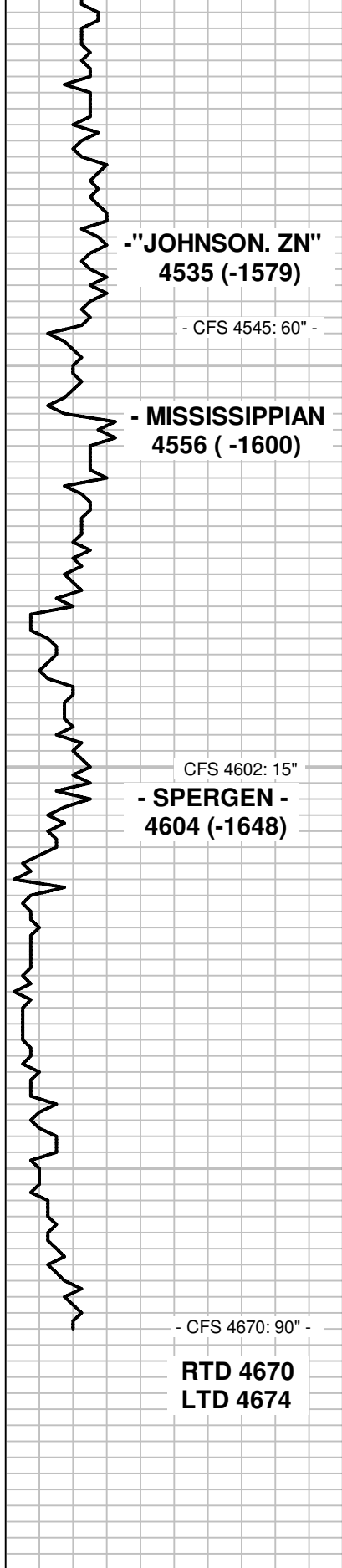
ROP (min/ft)

- 10: MAROON, SOFT, STICKY, LMY SILTSTN.
- 20: DOL. & DOL. LS, BRN, FXLN, PR. POR; AND LS, GRY, VFXLN, DSE; NS
- 30: SHALE, GRY, GRN; LS, TAN, VFXLN, DSE, CHTY AND SOME DOL. LS. AS ABV; NS.
- 40: DOL. LS, FXLN, PR. XLN. POR; AND LS, TAN-BRN, VFXLN, DSE; NS.
- 50: DOL. LS, AS ABV AND SHALE, VARY COLORED; NS
- 60: LS, VFXLN, DSE AND DOL. LS, FXLN W/ PR. XLN. POR; SHALE, VARY COLORED; NS
- 70: SHALE, VARY COLORED, SOME SILTY; SOME LS, TAN, VFXLN, DSE; NS
- 80: SHALE, VARY COLORED, SILTY AND LS, TAN-BRN, VFXLN, SLI. FOSS, DSE TO SOME SLI. CHLKY; NS
- 90: LS, AS ABV, DSE TO PR. XLN. POR; NS
- 100: LS, TAN-BRN, VFXLN, DSE AND SOME SILTSTN, GRY, V. LMY; SHALE, GRY & BLK; NS
- 10 & 20: LS, TAN, VFXLN, SLI. FOSS, DSE, SOME WEATHERED SLI. CHLKY; TR. CHT TAN; NS
- 30: INC. CHERT, BRN, SHARP AND LS, AS ABV; NS
- 40: SHALE, BLACK.
- 50: LS, DK. BRN, VFXLN, SLI. FOSS, DSE
- 60: LS, BRN, VFXLN, DSE, SEV. PCS. W/ PR. SPTY. VUG. POR & PR. SPTY BRN SAT. STN ASSOC. W/ POR, TR. LT. FO, MOSTLY DULL SPTY FLUOR, EXCELL. FLUSH CUT, FR. ODOR
- 70: SHALE, BLACK.
- 80 & 90: LS, TAN, VFXLN, CHTY, HD, SOME V. OOL, SEV. PCS. W/ MOSTLY PR. SPTY TO TR. FR. FOSS. CAST & VUG. POR, SSFO, PR.- TR. FR. SPTY LT, BRN SAT. STN, DULL FLUOR, GD. FLUSH CUT, FR. ODOR.
- 100: LS, TAN-BRN, VFXLN, SLI. FOSS, DSE TO PR. XLN. POR; NS
- 10: SHALE, BLK; LS, TAN, CHTY, HD, RARE TR W/PR- FR. FOSS. CAST -VUG. POR, TR. FO & PR. SPTY STN & FLUOR, NO ODOR.
- 20: LS, TAN-BNR, VFXLN, DSE TO SOME

MUD @ 4273:  
WT: 9.5  
VIS: 53  
FILTRATE: 9.6  
CHLOR: 1,000  
LCM: 2#

MUD @ 4482:  
WT: 9.4  
VIS: 54  
FILTRATE: 10  
CHLOR: 1,000  
LCM: 1#

**DST #5: 4417-4545**  
**MYRICK, FT. SCT & JOHN.**  
**TIMES: 30-45-45-60**  
**IF: BLOW OFF BTM 15.5"**  
**FF: BLOW OFF BTM 20.5"**  
**SI: NO BLOWBACK**  
**REC: 670' TOTAL FLUID:**  
**130' VSO&HWCM**



**-"JOHNSON. ZN"  
4535 (-1579)**

- CFS 4545: 60" -

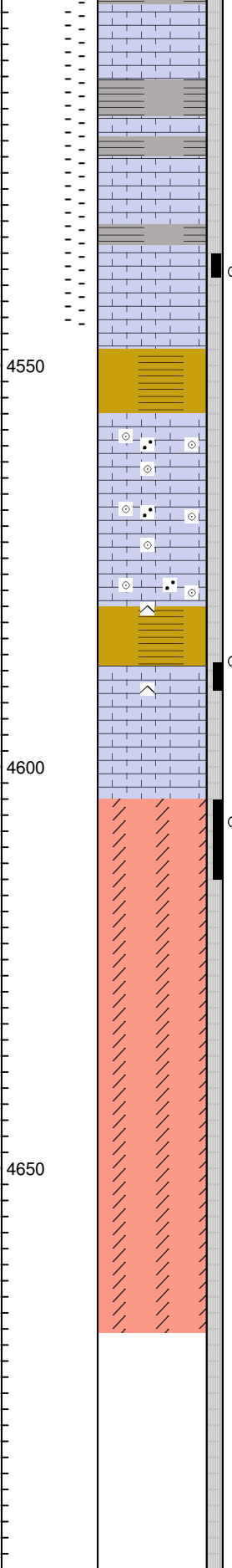
**- MISSISSIPPIAN  
4556 (-1600)**

CFS 4602: 15"

**- SPERGEN -  
4604 (-1648)**

- CFS 4670: 90" -

**RTD 4670  
LTD 4674**



WEATH, SLI. CHLKY; NS

30: LS, BRN, VFXLN, FOSS, DSE; TR. SHALE, GRY & BLK; NS

40: TR, SHALE, GRY & GRN; LS, TAN - BRN, VFXLN, SLI. FOSS, DSE; NS

45 & CIRC: LS, BRN, VFXLN, DSE, TR. W/ PR. VUG. POR, VSSFO, PR. SPTY STN, NO FLUOR GD. FLUSH CUT, SLI. ODOR

60: TR. LS, CRM, V. OOL, SLI. GLAUC, PR. XLN. POR; NS

70: LS, TAN & MUSTARD, V. OOL, SLI. ARENACEOUS, PR. XLN. POR; AND SHALE, VARY COLORED, FEW PCS QTZ; NS, NF

80: LS, AS ABV, OOL./ ARENACEOUS, PR. XLN. POR; TR. QTZ. GRNS; NS

90: OOL./ ARENACEOUS LS AS ABV, SOME SLI. CHLKY; NS, NF

100: LS, OOL./ AREN., CHTY, HD, 2 PCS W/ PR SPTY. STN, NFO, GD. FLUSH CUT; SHALE, V. COLORED.

02: 15": LS, BRN, VFXLN, DSE, CHTY, R. TR. PR. SPTY. PPT-VUG. POR, PR. SPTY STN & FLUOR, NFO, GD. FLUSH CUT, NO ODOR

4618: CIRC: DOL, BRN, FXLN, W/ PR -GD, FOSS. CAST-PPT- VUG. POR, SSFO, EST. 10% W/ LT. BRN SAT. STN, TR. SPTY FLUOR, WK- FR. RING CUT, FT. ODOR (V. SUBTLE BRN STN ON BRN DOL).

50: DOL, BRN, FXLN, SUCROSIC, HD W/ GRY MOTTling, PR. VIS. POR; AND DOL AS ABV W/ PR- GD FOSS CAST- VUG POR; NS, NF

60: DOL, BRN, FXLN, SUCROSIC, HD W/ PR. XLN POR. TO GD FOSS. CAST & VUG. POR; NS, NF

70: DOL, BRN FXLN W/ MUCH GRY MOTTling, PR. - TR. FR. VIS. XLN. POR; NS.

4670: CIRC: DOL, BRN W/ GRY MOTTling, SLI. FOSS, PR. VIS. POR; NS:

(1%O, 47%W, 52%M)  
**245' MCW W/ SP. OIL  
(88%W, 12%M)**  
**240' SMCW (88%W, 12%M)**  
**55' WCM (31%W, 69%M)**  
**WTR CHLOR: 85,000 PPM**  
**SYSTEM: 1,000 PPM**  
**RW: .13@ 66 F.**  
**IFP: 17-178#, FFP: 183-330#**  
**SIP: 1055-1018#**  
**HP: 2145-2143#**  
**MAX. TEMP: 129 F.**  
**SEE CHART ABOVE**

MUD @ 4545:  
 WT: 9.5  
 VIS: 70  
 FILTRATE: 8.8  
 CHLOR: 500 PPM  
 LCM: 1#



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 10738 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 9-2-14	DISTRICT: PRATT, KS	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER: LD DRILLING, INC.	LEASE: LOCKWOOD #235	WELL NO.					
ADDRESS:	COUNTY: GOVE	STATE: KS.					
CITY:	STATE:	SERVICE CREW: KC, JOSH, COLE, DAVE					
AUTHORIZED BY:	JOB TYPE: CNW-LOWSTRENGTH						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED: 9-2 AM 0830	
19907		20959	4 1/4			ARRIVED AT JOB: 9-2 AM 1300	
		19918	4 1/4			START OPERATION: 9-2 AM 1900	
19826	4 1/4	19831	3/4			FINISH OPERATION: 9-2 AM 230	
20920		19862	3/4			RELEASED: 9-2 AM 240	
						MILES FROM STATION TO WELL: 175	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP100C	COMMON CEMENT	SL	200		3200
CP101	HT CON CEMENT	SL	465		8370
CP101	HT CON CEMENT	SL	30		540
CC102	CELLOPHANE	lb.	124		458.80
CC109	CALCIUM CHLORIDE	lb.	1401		1471.05
CC111	SPART	lb.	900		450
CC130	C-51	lb.	38		950
CC201	GROSSWETE	lb.	1000		670
CF400	1/2 TWO STAGE CEMENT COLUMN	EA	1		4500
CF600	1/2 LATCH DOWN PING	EA	1		720
CF1250	1/2 API P1005 SHOE	EA	1		330
CF1650	1/2 TURBOLEVER	EA	7		593
CF1900	1/2 BASKET	EA	1		270
CF2000	1/2 CEMENT SCRATCHER	EA	10		700
CC151	MUD PUSHER	GA	1000		1500

CHEMICAL / ACID DATA:			

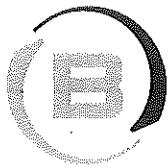
SUB TOTAL		
SERVICE & EQUIPMENT	%TAX ON \$	<i>BW</i>
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: *[Signature]*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET

~~1718 10739 A~~

CONTINUATION

DATE TICKET NO. 1718 10238A

DATE OF JOB: 9-2-14	DISTRICT: PLATT, KS	NEW WELL <input type="checkbox"/>	OLD WELL <input checked="" type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER: LA DRILLING, INC	LEASE: LOCKWOOD 2-35	WELL NO.:					
ADDRESS:	COUNTY: GOVE	STATE: KS					
CITY:	STATE:	SERVICE CREW: KC, JOSH COLE, DAVE					
AUTHORIZED BY:	JOB TYPE: ENVIRONMENTAL						

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
						ARRIVED AT JOB				
						START OPERATION				
						FINISH OPERATION				
						RELEASED				
						MILES FROM STATION TO WELL				

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *Whom / E. Eng*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E100	LIGHT MILE PERMITS	MI	175		943.75
E101	HEAVY DUTY MILE	MI	575		3675-
E113	BULK DELIVERY	TN	5731		12608.75
CE205	DEPTH CHARGE 4001-5000	EA	1		2520-
CE240	BLENDED CHARGE	SK	695		973-
CE504	PUR CONTAINER	EA	1		250-
5003	SERVICE SUPERVISION	EA	1		175-
CE203	DEPTH CHARGE 2001-3000	EA	1		1800-

CHEMICAL / ACID DATA:			

SUB TOTAL	34,178.65
SERVICE & EQUIPMENT	% TAX ON \$
MATERIALS	% TAX ON \$
TOTAL	

SERVICE REPRESENTATIVE: *Whom / E. Eng*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Whom / E. Eng*

FIELD SERVICE ORDER NO. (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer	LD DRUM BNG	Lease No.	DWC	Date	9-2-14						
Lease	LOCKWOOD	Well #	2-35								
Field Order #	10138	Station	PLATT, KS	Casing	4 1/2	Depth	4667	County	BOVE	State	KS
Type Job	CWIN - LOWEST PWS			Formation	TD-4670	Legal Description	35-11-31				

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME				
Casing Size	4 1/2	Tubing Size	4 1/2	Acid	DVT00L-2503			RATE	PRESS	ISIP
Depth	4667	Depth		Pre Pad		Max				5 Min.
Volume		Volume		Pad		Min				10 Min.
Max Press		Max Press		Frac		Avg				15 Min.
Well Connection		Annulus Vol.				HHP Used				Annulus Pressure
Plug Depth	4653	Packer Depth		Flush		Gas Volume				Total Load

Customer Representative	LD	Station Manager	KEVIN	Treater	CANDLEY
Service Units	19907	19826-20920	70959-19918	19831-19862	
Driver Names	KG	JOSEPH	COLE	DAVE	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1300					ON LOCATION - ST. - 10.45' RUN 4662' 4 1/2" C.S.C. RUN FLOAT SHAPE LATCH BARRIER IN 1 <sup>st</sup> COUNTR CENT-2, 4, 6, 8, 11, 13, 15 SCRATCHER - 12, 13, 14, 15 BASKET - BOTTOM #49 DV 700L - TOP #49 AT 2503'
1800					THE BOTTOM - DROP BACK - C.S.P.C. SET 4 1/2" AT 4667' W/LAND IT. RECIPROCATING CASING  BOTTOM STAGE
1900	200		24	5	PUMP 24 bbl MUD FLOW
	200		5	5	PUMP 5 bbl H <sub>2</sub> O
	200		46	5	MIX 200 SK COMMON 10% SPT 5" GIBSON STE. 2 1/2" WCA-1
	0		0	5 1/2	STOP - WASH LINE - DROP PUMP
	200		40	5 1/2	START DESP. W/ H <sub>2</sub> O
	500		50	5	START MUD DESP.
					SLOW RATE
1945	2000	77	25	4	PLUG DOWN - HOLD

Customer <i>LD SPILL INC, DMC</i>	Lease No. <i>LOCKWOOD</i>	Date <i>9-2-14</i>
Lease <i>LOCKWOOD</i>	Well # <i>2-35</i>	
Field Order # <i>10158</i>	Station <i>PRATT, KS</i>	Casing <i>4 1/2</i>
		Depth <i>4667</i>
Type Job <i>ENW-LOWCSPRINC</i>	Formation <i>TD-4676'</i>	Legal Description <i>35-11-31</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>4 1/2</i>	Tubing Size	Shots/Ft		Acid <i>DV-2503</i>	RATE	PRESS	ISIP	
Depth <i>4667</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Pkg Depth <i>4653</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative *LD* Station Manager *KEVAN* Treater *CONSOLEY*

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1950</i>					<i>DROP DV OPEN PUMP</i>
<i>1810</i>					<i>OPEN DV TOOL</i>
					<i>CIRC W/ RDC PUMP</i>
					<i>TOP STABLE</i>
<i>2030</i>	<i>200</i>		<i>279</i>	<i>4 1/2</i>	<i>MIX 465 SIC A-COW</i>
					<i>3% CC, 1/4" CELL FINACE</i>
					<i>STOP - WASH LINE - DROP PUMP</i>
	<i>0</i>		<i>0</i>	<i>5</i>	<i>START DESP.</i>
	<i>600</i>		<i>35</i>	<i>4</i>	<i>SLOW RATE</i>
<i>2315</i>	<i>2000</i>		<i>38.8</i>	<i>4</i>	<i>PUMP DOWN - DV CLOSED</i>
					<i>CIRC 40 bbl. Cement to PT</i>
					<i>PUMP RAT HOLE - 30m A-COW</i>
<i>2400</i>					<i>JOB COMPLETE - KEVAN</i>



## For Pipe Setter

Anhydrite 2463-2487 sample

Potential pay zones:

Lansing "B": 4028 - 4036, sample

Lansing "E": 4066 - 73 "

Lansing "F": 4082 - 85 "

K.C. "H": 4149 - 53 "

K.C. "I": 4176 - 78 "

K.C. "J": 4196 - 4203 "

Myrick : 4442 - 46 "

Ft Scott : 4460 - 68 "

Johnson : 4532 - 38 "

Spergen : 4604 - 18 "

Please avoid putting centralizers in any of these zones in case operator wants to perforate.

I list all of these w/o benefit of log,

Thanks,  
Gary Trumb Wellsite Geo



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 06032 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>8-20-14</b> DISTRICT <b>1717</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <b>LD Drilling Inc</b>		LEASE <b>Lockwood #2-35</b> WELL NO.							
ADDRESS		COUNTY <b>Gove</b> STATE <b>KS</b>							
CITY STATE		SERVICE CREW <b>F. Chavez, Sam, Daniel</b>							
AUTHORIZED BY <b>Sen Bentt</b>		JOB TYPE: <b>242 8 3/8 Surface</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<b>78938</b>	<b>9</b>	<b>170897*</b>	<b>9</b>	<b>127808</b>	<b>9</b>	<b>ARRIVED AT JOB</b>	<b>8-20-14</b>	<b>AM</b>	<b>1200</b>
		<b>79570</b>	<b>1</b>	<b>57547</b>	<b>1</b>	<b>START OPERATION</b>	<b>8-20-14</b>	<b>AM</b>	<b>400</b>
						<b>FINISH OPERATION</b>	<b>8-20-14</b>	<b>AM</b>	<b>440</b>
						<b>RELEASED</b>	<b>8-20-14</b>	<b>AM</b>	<b>530</b>
						<b>MILES FROM STATION TO WELL 175</b>			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL103	60-40 Poz	SK	300		3600 C
CC102	CelloFlake	lb	75		277 S
CC109	Calcium Chloride	lb	774		812 7
CF153	Wooden Plug	EA	1		160 C
E100	Pickup Mileage	mi	175		743 2
E101	Heavy Equipment Mileage	mi	350		2450 0
E113	Bulk Delivery Charge	TM	2258		4966 S
CE200	Depth Charge	4hrs	1		1600 C
CE240	Blending & Mixing Charge	SK	300		420 C
CE504	Plug Cost Charge	JOB	1		250 0
5003	Service Supervisor	EA	1		175 C

SUB TOTAL **10844 C**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

SERVICE REPRESENTATIVE *[Signature: JZZY Chavez]*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO



**BASIC**  
ENERGY SERVICES  
Liberal, Kansas

### Cement Report

Customer	LD Drilling INC	Lease No.		Date	8-20-14
Lease	LOCKWOOD	Well #	2-35	Service Receipt	6032
Casing	8 5/8	Depth	330	County	Gore
Job Type	242 Surface	Formation		Legal Description	35-11-31

Pipe Data		Perforating Data		Cement Data
Casing size	8 5/8	Tubing Size		Lead
Depth	330	From	To	
Volume	19615	From	To	
Max Press	500	From	To	
Well Connection	8 5/8	From	To	
Plug Depth	300	From	To	
				Tail in 5005K 6040 112557-51K 102 5.1861-51K 1488#

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
1200					Arrive On location
1210					Safety Meeting - Rig Up
400					Circulate w/ Rig
410					Hook Up To BES
415	600		1	1	Pressure Test
420	200		64	4	Pump out @ 14.8#
435					Drop Mop - Wash Up
439	300		19	4	Displace
440					Shut in Well
					Job Complete
					Connect To Surface

Service Units	78938	70897-19570	27808-37547		
Driver Names	F224	Sam	Dond		

Tom

Jerry Bett

Fred Chavez