



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1258387  
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: \_\_\_\_\_



1258387

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

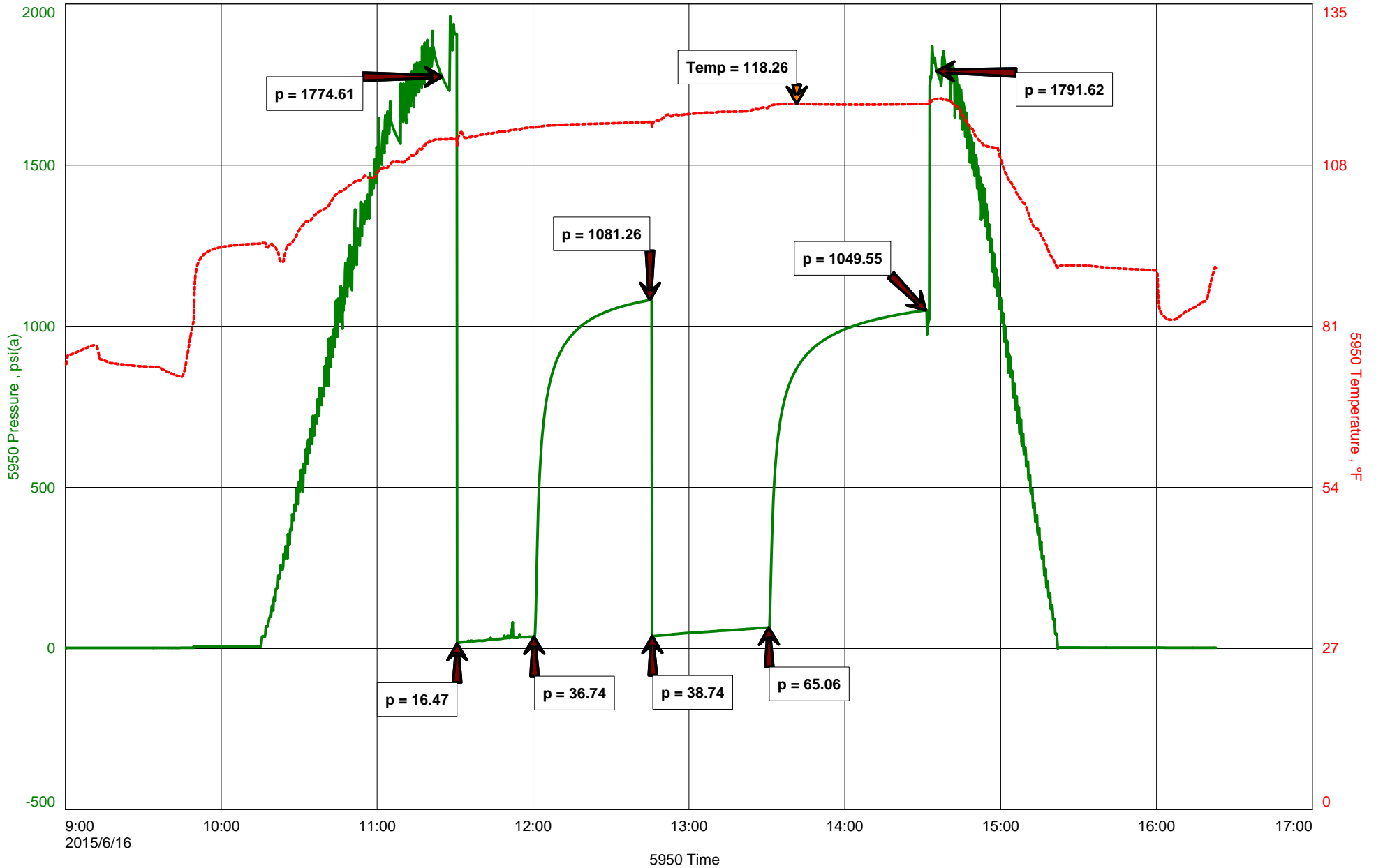
<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	HOWARD 1-21
Doc ID	1258387

Tops

Name	Top	Datum
ANHYDRITE	3014	+371
BASE ANHYDRITE	3050	+335
WABAUNSEE	3899	-514
HEEBNER	4196	-811
LANSING	4246	-861
BASE KANSAS CITY	4489	-1104
PAWNEE	4608	-1223
FORT SCOTT	4672	1287
CHEROKEE	4699	-1314

# Howard #1-21





**Hoisington, Kansas**

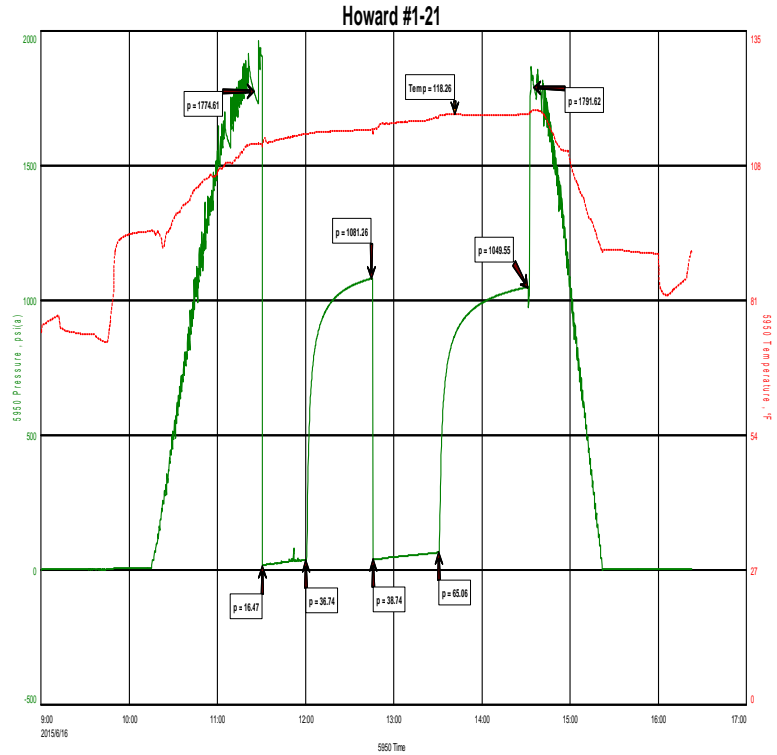
**Michael Carroll**  
**620-617-0368**  
**carroll.dtlc@gmail.com**

**General Information**

**Company Name** L.D. Drilling Inc

<b>Contact</b>	L.D. Davis
<b>Well Name</b>	Howard #1-21
<b>Unique Well ID</b>	Dst #1 Wabaunsee 3902-4000'
<b>Surface Location</b>	Sec21-6s-36w Thomas County
<b>Field</b>	NA
<b>Well Type</b>	Vertical
<b>Test Type</b>	Drill Stem Test
<b>Well Operator</b>	L.D. Drilling Inc

<b>Formation</b>	Dst #1 Wabaunsee 3902-4000'
<b>Well Fluid Type</b>	01 Oil
<b>Test Purpose</b>	Initial Test
<b>Start Test Date</b>	2015/06/16
<b>Start Test Time</b>	09:00:00
<b>Final Test Time</b>	16:22:00
<b>Job Number</b>	P0079
<b>Report Date</b>	2015/06/16
<b>Prepared By</b>	Michael Carroll



**TEST RECOVERY**

<b>Remarks</b>	<b>Recovery:</b>	<b>1'</b>	<b>Clean Oil</b>			
		<b>110'</b>	<b>OCWM 3%O</b>	<b>26%W</b>	<b>71%M</b>	
	<b>Total Fluid:</b>	<b>111'</b>				
	<b>Tool Sample:</b>	<b>6%O</b>	<b>24%W</b>	<b>70%M</b>		
	<b>Chlorides</b>	<b>18000 PPM</b>				
	<b>RW</b>	<b>.36 @ 85 Degrees</b>				
	<b>PH</b>	<b>8</b>				



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: HOWARD1-21DST#1

TIME ON: 0900  
TIME OFF: 1622

Company L.D. Drilling Inc Lease & Well No. Howard #1-21  
Contractor L.D. Drilling Charge to L.D. Drilling Inc  
Elevation 3385KB Formation Wabaunsee Effective Pay \_\_\_\_\_ Ft. Ticket No. P0079  
Date 6-16-15 Sec. 21 Twp. 6 S Range 36 W County Thomas State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative Michael Carroll

Formation Test No. 1 Interval Tested from 3902 ft. to 4000 ft. Total Depth 4000 ft.  
Packer Depth 3897 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3902 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 3887 ft. Recorder Number 5950 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3971 ft. Recorder Number 0230 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chem Viscosity 65 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 3000 P.P.M. Drill Pipe Length 3869 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 11 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 98(34.5a) 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 TO 5" IN 30 MINUTES WSBB  
2nd Open: WSB-BUILT TO 5" IN 45 MINUTES WSBB

Recovered 1 ft. of CLEAN OIL CHLORIDES 18000 PPM  
Recovered 110 ft. of OCWM 3%O 26%W 71%M RW .36 @ 85 DEGREES  
Recovered 111 ft. of TOTAL FLUID PH 8

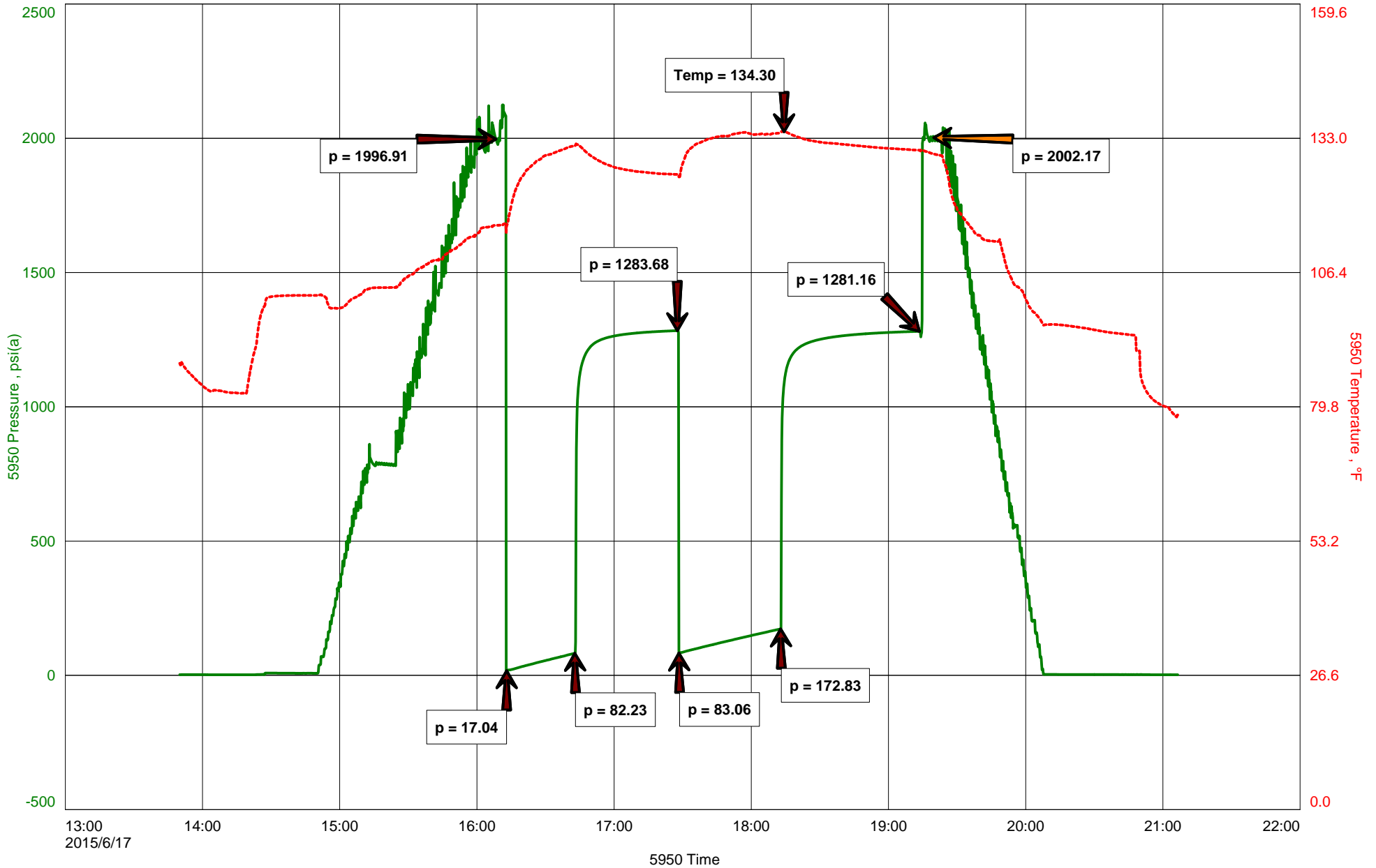
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: _____	
TOOL SAMPLE: <u>6%O 24%W 70%M</u>	Total

Time Set Packer(s) 11:30A.M. A.M. Time Started Off Bottom 2:30P.M. P.M. Maximum Temperature 118

Initial Hydrostatic Pressure..... (A) 1775 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 37 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1081 P.S.I.  
Final Flow Period..... Minutes 45 (E) 39 P.S.I. to (F) 65 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1050 P.S.I.  
Final Hydrostatic Pressure..... (H) 1792 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.

# Howard #1-21





**Hoisington, Kansas**

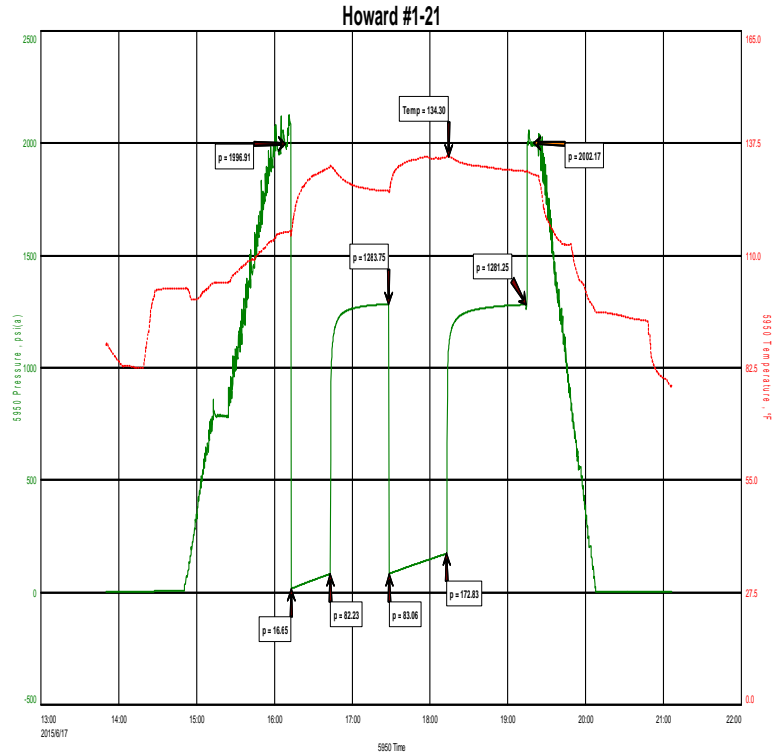
**Michael Carroll**  
**620-617-0368**  
**carroll.dtlc@gmail.com**

**General Information**

**Company Name** L.D. Drilling Inc

**Contact** L.D. Davis  
**Well Name** Howard #1-21  
**Unique Well ID** Dst #2 Lans A-B 4248-4283'  
**Surface Location** Sec21-6s-36w Thomas County  
**Field** NA  
**Well Type** Vertical  
**Test Type** Drill Stem Test  
**Well Operator** L.D. Drilling Inc

**Formation** Dst #2 Lans A-B 4248-4283'  
**Well Fluid Type** 06 Water  
**Test Purpose** Initial Test  
**Start Test Date** 2015/06/17  
**Start Test Time** 13:50:00  
**Final Test Time** 21:06:00  
**Job Number** P0080  
**Report Date** 2015/06/17  
**Prepared By** Michael Carroll



**TEST RECOVERY**

**Remarks** Recovery: 323' MW 93%W 7%M

**Total Fluid:** 323'

**Tool Sample:** 100%W

**Small Trace Of Oil At Top Of Recovery**

**Chlorides:** 73000 PPM  
**RW .08 @ 90 Degrees**  
**PH 7**





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: HOWARD1-21DST#2

TIME ON: 1350  
TIME OFF: 2106

Company L.D. Drilling Inc Lease & Well No. Howard #1-21  
Contractor L.D. Drilling Charge to L.D. Drilling Inc  
Elevation 3385KB Formation Lans A-B Effective Pay \_\_\_\_\_ Ft. Ticket No. P0080  
Date 6-17-15 Sec. 21 Twp. 6 S Range 36 W County Thomas State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative Michael Carroll

Formation Test No. 2 Interval Tested from 4248 ft. to 4283 ft. Total Depth 4283 ft.  
Packer Depth 4243 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4248 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4233 ft. Recorder Number 5950 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4252 ft. Recorder Number 0230 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chem Viscosity 62 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
Weight 9.0 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 3000 P.P.M. Drill Pipe Length 4215 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 11 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 35 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB-BUILT TO BOB IN 30 MINUTES NOBB  
2nd Open: NO BLOW-BUILT TO BOB IN 34 MINUTES NOBB

Recovered 323 ft. of MW 93%W 7%M CHLORIDES 73000 PPM  
Recovered 323 ft. of TOTAL FLUID RW .08 @ 90 DEGREES  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ PH 7

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>SMALL TRACE OF OIL AT TOP OF RECOVERY</u>	
TOOL SAMPLE: <u>100%W</u>	Total

Time Set Packer(s) 4:10 P.M. A.M. Time Started Off Bottom 7:10 P.M. P.M. Maximum Temperature 134

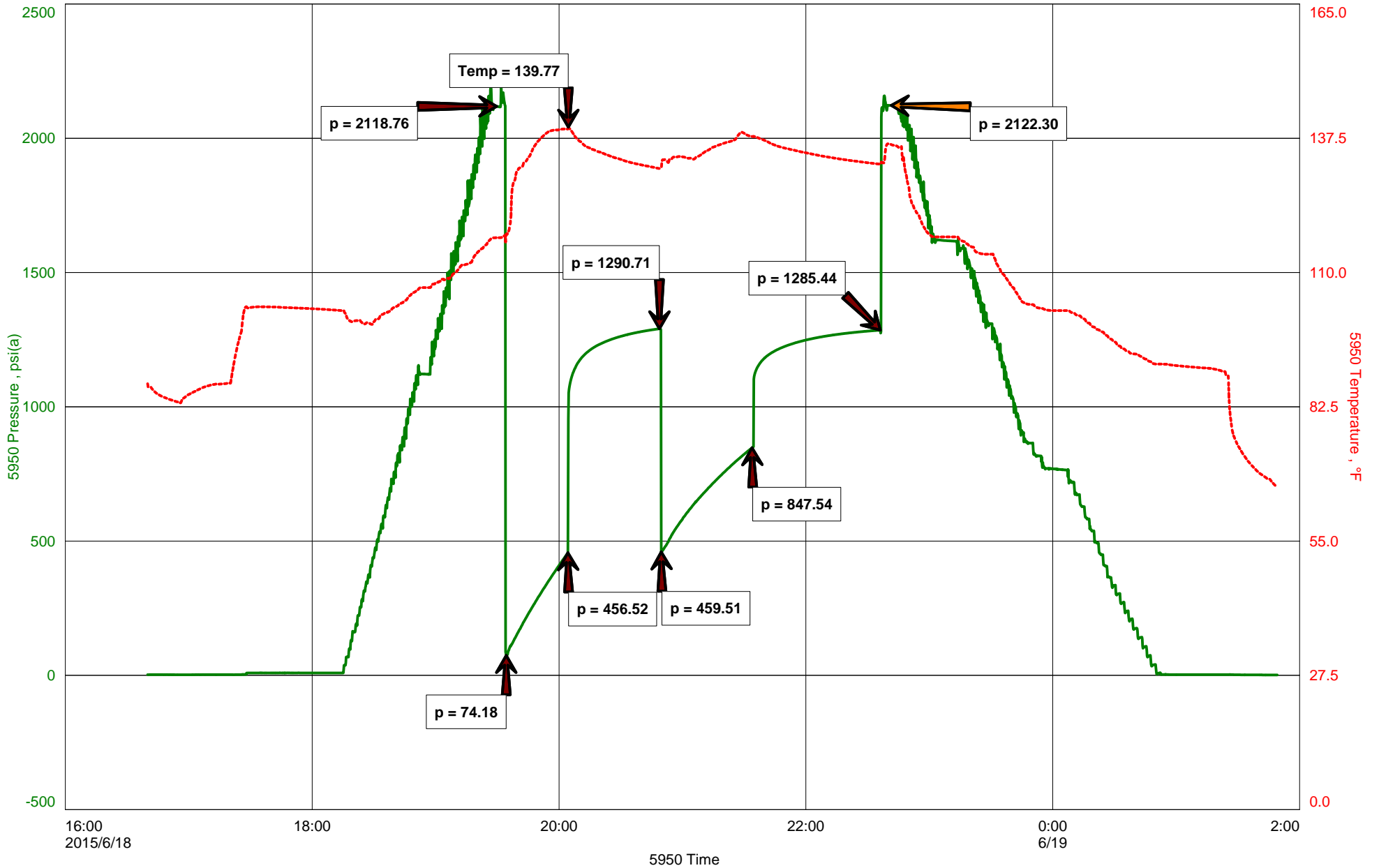
Initial Hydrostatic Pressure..... (A) 1997 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 82 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1284 P.S.I.  
Final Flow Period..... Minutes 45 (E) 83 P.S.I. to (F) 173 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1281 P.S.I.  
Final Hydrostatic Pressure..... (H) 2002 P.S.I.

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L.D. Drilling Inc  
Dst #3 Lans H-L 4360-4485'  
Start Test Date: 2015/06/18  
Final Test Date: 2015/06/18

Howard #1-21  
Formation: Dst #3 Lans H-L 4360-4485'  
Pool: Infield  
Job Number: P0081

# Howard #1-21





**Hoisington, Kansas**

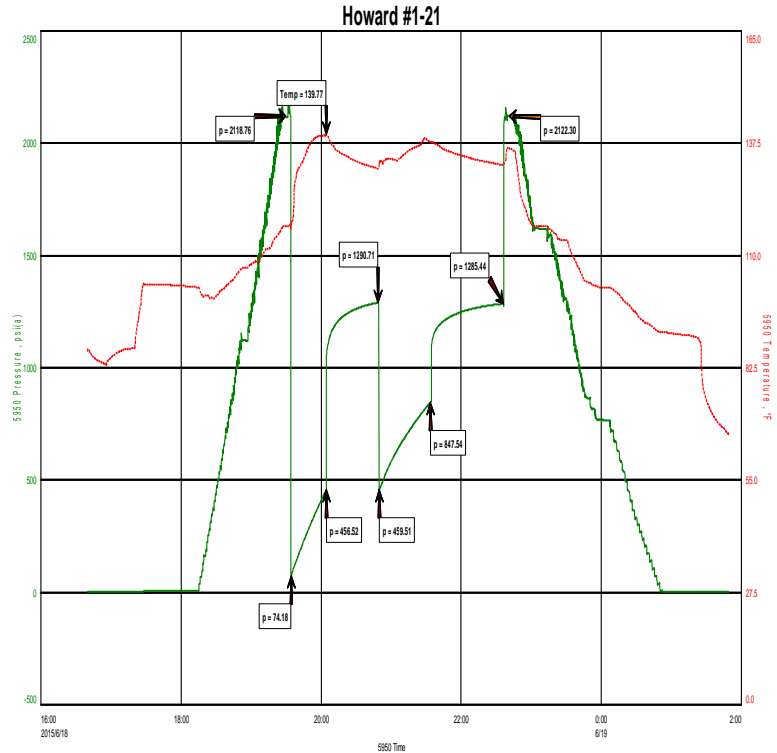
**Michael Carroll**  
**620-617-0368**  
**carroll.dtlc@gmail.com**

**General Information**

**Company Name** L.D. Drilling Inc

**Contact** L.D. Davis  
**Well Name** Howard #1-21  
**Unique Well ID** Dst #3 Lans H-L 4360-4485'  
**Surface Location** Sec21-6s-36w Thomas County  
**Field** NA  
**Well Type** Vertical  
**Test Type** Drill Stem Test  
**Well Operator** L.D. Drilling Inc

**Formation** Dst #3 Lans H-L 4360-4485'  
**Well Fluid Type** 06 Water  
**Test Purpose** Initial Test  
**Start Test Date** 2015/06/18  
**Start Test Time** 16:40:00  
**Final Test Time** 01:50:00  
**Job Number** P0081  
**Report Date** 2015/06/18  
**Prepared By** Michael Carroll



**TEST RECOVERY**

Remarks	Recovery:	471'	OCMW	3%O	52%W	45%M
		630'	SLOCWM		2%O	90%W 8%M
		378'	VSLOCWM		1%O	44%W 55%M
		315'	MW		92%W	8%M

**Total Fluid:** 1794'

**Tool Sample:** 100%W

**Chlorides** 57000 PPM  
**RW** .15 @ 65 Degrees  
**PH** 7



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: HOWARD1-21DST#3

TIME ON: 1640 6-18  
TIME OFF: 0150 6-19

Company L.D. Drilling Inc Lease & Well No. Howard #1-21  
Contractor L.D. Drilling Charge to L.D. Drilling Inc  
Elevation 3385KB Formation Lans H-L Effective Pay \_\_\_\_\_ Ft. Ticket No. P0081  
Date 6-18-15 Sec. 21 Twp. 6 S Range 36 W County Thomas State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative Michael Carroll

Formation Test No. 3 Interval Tested from 4360 ft. to 4485 ft. Total Depth 4485 ft.  
Packer Depth 4355 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4360 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4345 ft. Recorder Number 5950 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4460 ft. Recorder Number 0230 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chem Viscosity 57 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 4500 P.P.M. Drill Pipe Length 4327 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 11 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 125(30a) 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" BLOW-BUILT TO BOB IN 3 MINUTES 25 SECONDS NOBB  
2nd Open: 1/4" BLOW-BUILT TO BOB IN 4 MINUTES 30 SECONDS NOBB

Recovered 471 ft. of OCMW 3%O 52%W 45%M CHLORIDES 57000 PPM  
Recovered 630 ft. of SLOCMW 2%O 90%W 8%M RW .15 @ 65 DEGREES  
Recovered 378 ft. of VSLOCWM 1%O 44%W 55%M PH 7  
Recovered 315 ft. of MW 92%W 8%M

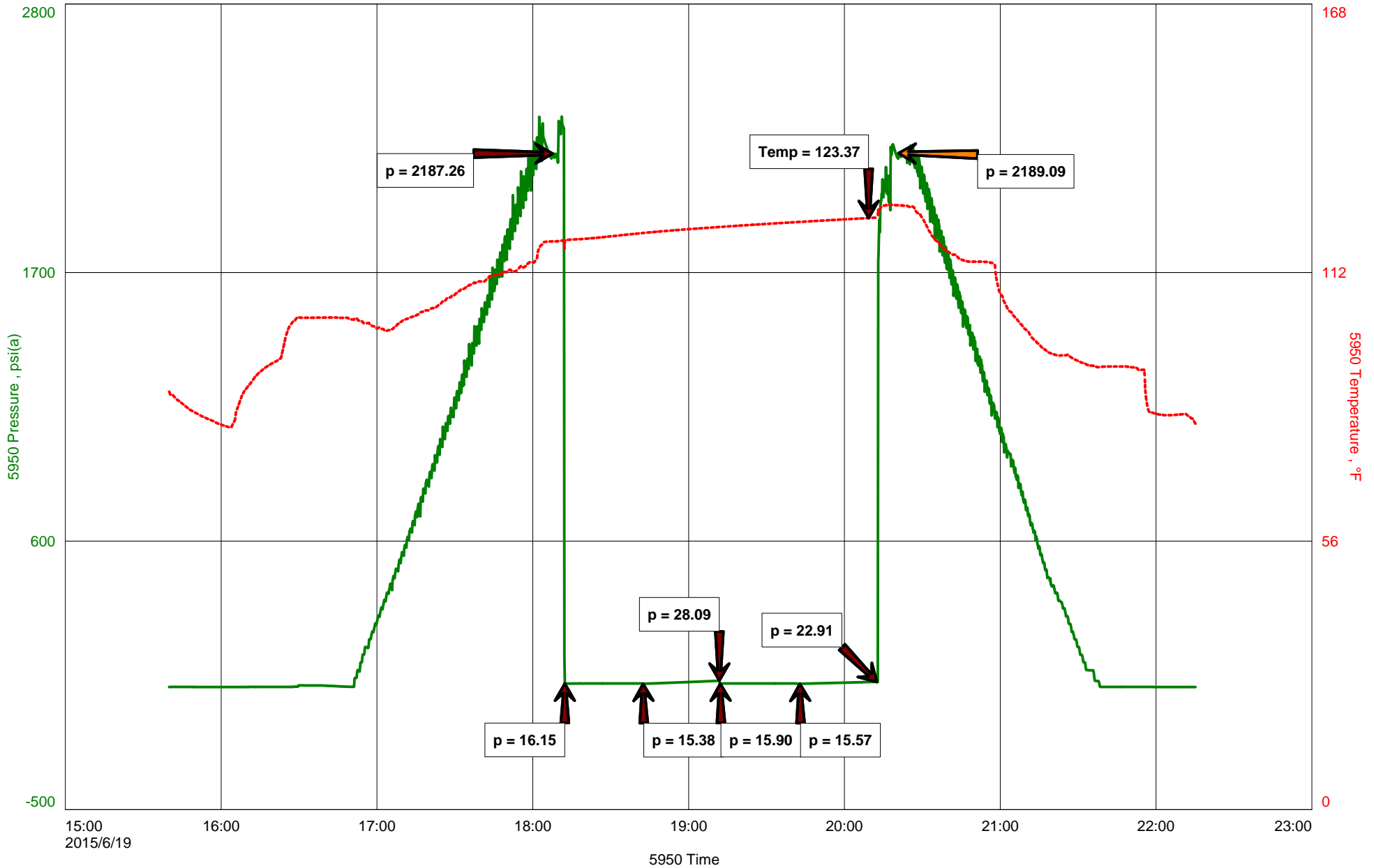
Recovered <u>1794</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>100%W</u>	Total

Time Set Packer(s) 7:32 P.M. A.M. P.M. Time Started Off Bottom 10:32 P.M. A.M. P.M. Maximum Temperature 140

Initial Hydrostatic Pressure..... (A) 2119 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 74 P.S.I. to (C) 457 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1291 P.S.I.  
Final Flow Period..... Minutes 45 (E) 460 P.S.I. to (F) 848 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1285 P.S.I.  
Final Hydrostatic Pressure..... (H) 2122 P.S.I.

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# Howard #1-21



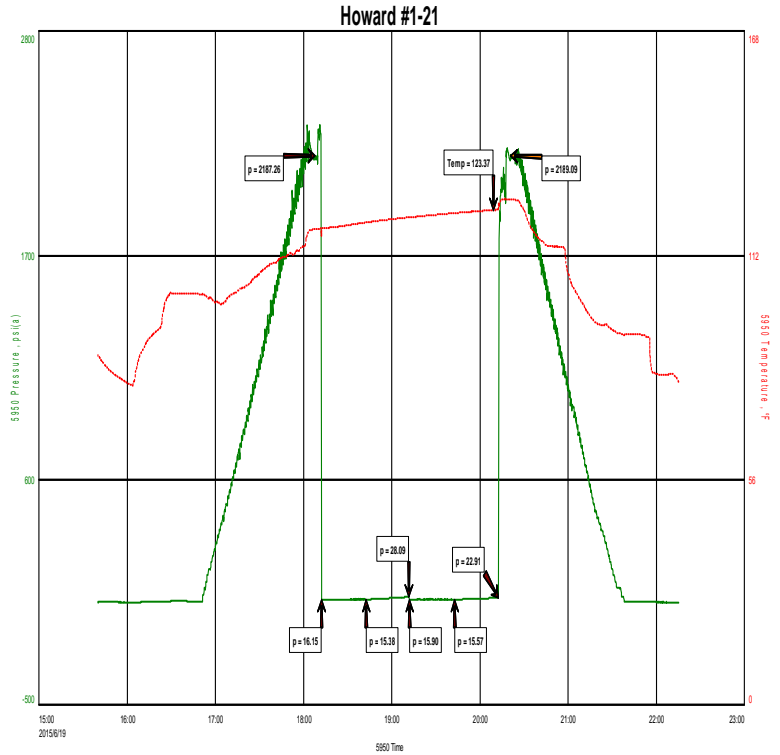


**Hoisington, Kansas**

**Michael Carroll**  
**620-617-0368**  
**carroll.dtlc@gmail.com**

**General Information**

<b>Company Name</b>	L.D. Drilling Inc
<b>Contact</b>	L.D. Davis
<b>Well Name</b>	Howard #1-21
<b>Unique Well ID</b>	Dst #4 Alt/Marmaton 4488-4580'
<b>Surface Location</b>	Sec21-6s-36w Thomas County
<b>Field</b>	NA
<b>Well Type</b>	Vertical
<b>Test Type</b>	Drill Stem Test
<b>Well Operator</b>	L.D. Drilling Inc
<b>Formation</b>	Dst #4 Alt/Marmaton 4488-4580'
<b>Well Fluid Type</b>	01 Oil
<b>Test Purpose</b>	Initial Test
<b>Start Test Date</b>	2015/06/19
<b>Start Test Time</b>	15:40:00
<b>Final Test Time</b>	22:15:00
<b>Job Number</b>	P0082
<b>Report Date</b>	2015/06/19
<b>Prepared By</b>	Michael Carroll



**TEST RECOVERY**

<b>Remarks</b>	<b>Recovery:</b>	<b>2'</b>	<b>Mud</b>	<b>100%M</b>
	<b>Total Fluid:</b>	<b>2'</b>		
	<b>Tool Sample:</b>	<b>100%M</b>		



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: HOWARD1-21DST#4

TIME ON: 1540  
TIME OFF: 2215

Company L.D. Drilling Inc Lease & Well No. Howard #1-21  
Contractor L.D. Drilling Charge to L.D. Drilling Inc  
Elevation 3385KB Formation Altamont-Marmaton Effective Pay \_\_\_\_\_ Ft. Ticket No. P0082  
Date 6-19-15 Sec. 21 Twp. \_\_\_\_\_ 6 S Range \_\_\_\_\_ 36 W County \_\_\_\_\_ Thomas State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative \_\_\_\_\_ Michael Carroll

Formation Test No. 4 Interval Tested from 4488 ft. to 4580 ft. Total Depth 4580 ft.  
Packer Depth 4483 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4488 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 4473 ft. Recorder Number 5950 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4557 ft. Recorder Number 0230 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chem Viscosity 54 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
Weight 9.1 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 5000 P.P.M. Drill Pipe Length 4455 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 11 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 92(28.5a) 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: WSB-BUILT TO 1/4" IN 30 MINUTES NOBB  
2nd Open: NO BLOW-NO BUILD NOBB

Recovered 2 ft. of MUD 100%M  
Recovered 2 ft. of TOTAL FLUID  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

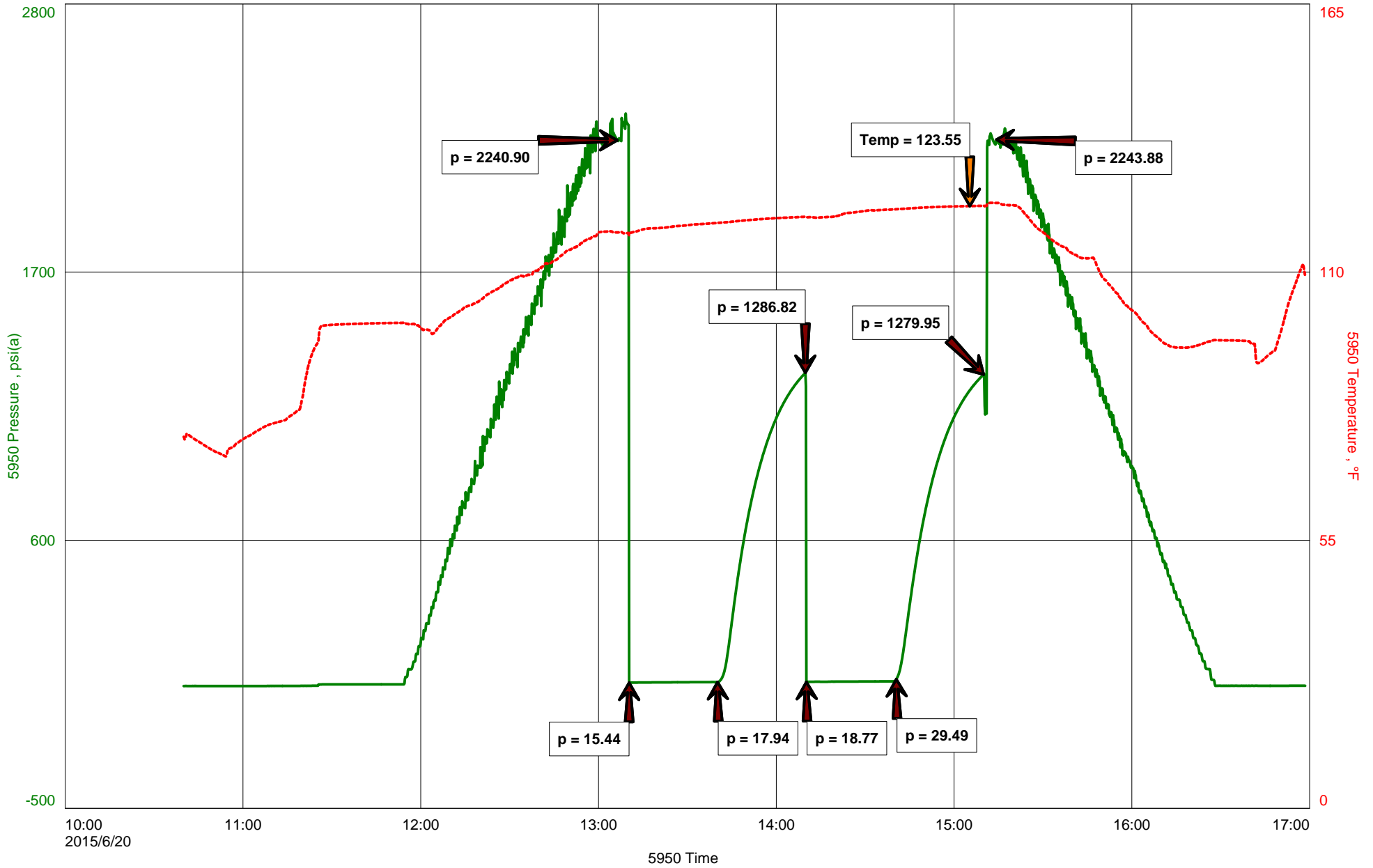
Remarks: _____	Price Job
TOOL SAMPLE: <u>100%M</u>	Other Charges
_____	Insurance
_____	Total

Time Set Packer(s) 6:10P.M. A.M. P.M. Time Started Off Bottom 8:10P.M. A.M. P.M. Maximum Temperature 123

Initial Hydrostatic Pressure..... (A) 2187 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 15 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 28 P.S.I.  
Final Flow Period..... Minutes 30 (E) 16 P.S.I. to (F) 15 P.S.I.  
Final Closed In Period..... Minutes 30 (G) 23 P.S.I.  
Final Hydrostatic Pressure..... (H) 2189 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.

# Howard #1-21





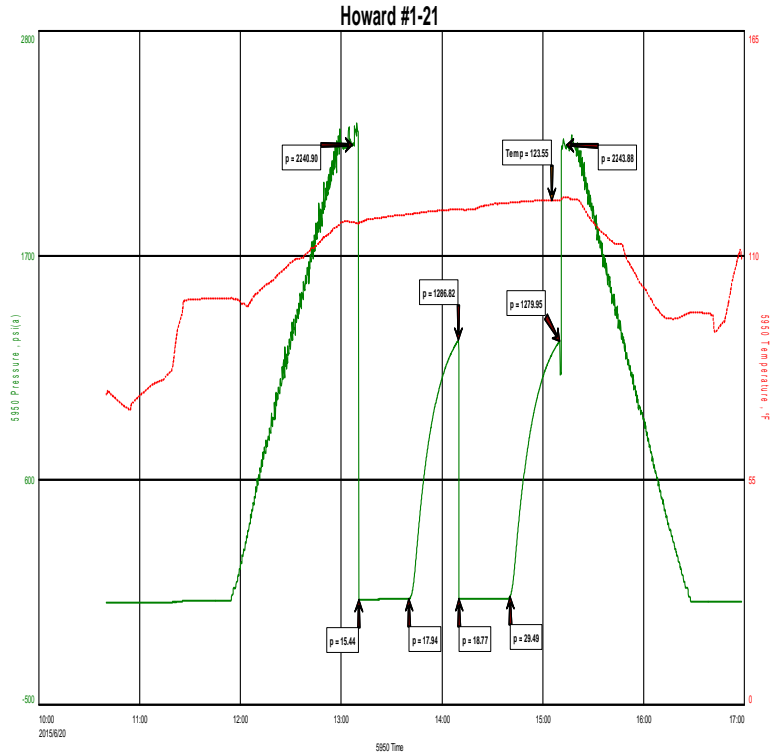


**Hoisington, Kansas**

**Michael Carroll**  
**620-617-0368**  
**carroll.dtlc@gmail.com**

**General Information**

<b>Company Name</b>	L.D. Drilling Inc
<b>Contact</b>	L.D. Davis
<b>Well Name</b>	Howard #1-21
<b>Unique Well ID</b>	Dst #5 Pawnee/Ft. Scott 4578-4660'
<b>Surface Location</b>	Sec21-6s-36w Thomas County
<b>Field</b>	NA
<b>Well Type</b>	Vertical
<b>Test Type</b>	Drill Stem Test
<b>Well Operator</b>	L.D. Drilling Inc
<b>Formation</b>	Dst #5 Pawnee/Ft. Scott 4578-4660'
<b>Well Fluid Type</b>	01 Oil
<b>Test Purpose</b>	Initial Test
<b>Start Test Date</b>	2015/06/20
<b>Start Test Time</b>	10:40:00
<b>Final Test Time</b>	16:57:00
<b>Job Number</b>	P0083
<b>Report Date</b>	2015/06/20
<b>Prepared By</b>	Michael Carroll



**TEST RECOVERY**

<b>Remarks</b>	<b>Recovery:</b>	<b>16' Mud 100%M</b>
	<b>Total Fluid:</b>	<b>16'</b>
	<b>Tool Sample:</b>	<b>1%O 99%M</b>



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: HOWARD1-21DST#5

TIME ON: 1040  
TIME OFF: 1657

Company L.D. Drilling Inc Lease & Well No. Howard #1-21  
Contractor L.D. Drilling Charge to L.D. Drilling Inc  
Elevation 3385KB Formation Pawnee/Ft.Scott Effective Pay \_\_\_\_\_ Ft. Ticket No. P0083  
Date 6-20-15 Sec. 21 Twp. \_\_\_\_\_ 6 S Range \_\_\_\_\_ 36 W County \_\_\_\_\_ Thomas State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative \_\_\_\_\_ Michael Carroll

Formation Test No. 5 Interval Tested from 4578 ft. to 4660 ft. Total Depth 4660 ft.  
Packer Depth 4573 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4578 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 4563 ft. Recorder Number 5950 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4647 ft. Recorder Number 0230 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chem Viscosity 51 Drill Collar Length 0 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 3000 P.P.M. Drill Pipe Length 4545 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 11 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 82(18.5a) 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: WSB-BUILT TO 1/2" IN 30 MINUTES **NOBB**  
2nd Open: NO BLOW-BUILT TO WSB IN 30 MINUTES **NOBB**

Recovered 16 ft. of MUD 100%M  
Recovered 16 ft. of TOTAL FLUID  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Remarks: _____	Other Charges
TOOL SAMPLE: <u>1%O 99%M</u>	Insurance
	Total

Time Set Packer(s) 1:10P.M. A.M. P.M. Time Started Off Bottom 3:10P.M. A.M. P.M. Maximum Temperature 124  
Initial Hydrostatic Pressure..... (A) 2241 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 18 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 1287 P.S.I.  
Final Flow Period..... Minutes 30 (E) 19 P.S.I. to (F) 29 P.S.I.  
Final Closed In Period..... Minutes 30 (G) 1280 P.S.I.  
Final Hydrostatic Pressure..... (H) 2244 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.

# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L.D. DRILLING, Inc.  
 LEASE # 1-21 HOWARD  
 FIELD WILDCAT  
 LOCATION 1200' FNL & 1900' FEL  
 SEC 21 TWP 6s RGE 36w  
 COUNTY THOMAS STATE KANSAS  
 CONTRACTOR L.D. DRILLING, Inc.  
 SPUD 6-11-15 COMP 6-21-15  
 RTD 4860 LTD 4860  
 MUD UP 3576 TYPE MUD CHEMICAL

ELEVATIONS  
 KB 3385  
 DF \_\_\_\_\_  
 GL 3380  
 Measurements to All  
 From 3385 KB  
 CASING  
 SURFACE 8 5/8" @ -429'  
 PRODUCTION \_\_\_\_\_  
 ELECTRICAL SURVEYS  
 DUAL IND., DENS.-N.,

SAMPLES SAVED FROM 3800 TO 4860  
 DRILLING TIME KEPT FROM 3800 TO 4860  
 SAMPLES EXAMINED FROM 3800 TO 4860  
 GEOLOGICAL SUPERVISION FROM 3900 TO 4860  
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	3014+371	3012+373
B/ANH.	3050+335	3046+339
WABAUNSEE	3899-514	3894-509
HEEBNER	4196-811	4192-807
LANSING	4246-861	4240-855
B/KC	4489-1104	4489-1104
PAWNEE	4608-1223	4606-1221
FORT SCOT	4672-1287	4670-1285
CHEDKEE	4699-1314	4699-1314
MISSISSIPPI	NR	4850-1465

21	*
	*

REMARKS  
 6-11-15 SPUD  
 6-12 @ 452'  
 6-13 @ 1420'  
 6-14 @ 2718'  
 6-15 @ 3585'  
 6-16 @ 4000'  
 6-17 @ 4250'  
 6-18 @ 4485'  
 6-19 @ 4507'  
 6-20 @ 4650'  
 6-21 @ 4810'

### LEGEND

- Anhydrite
- Salt
- Sandstone
- Siltstone
- Carbonate
- Limestone
- Cool Limestone
- Chert
- Dolomite

DRILLING TIME IN MINUTES  
 PER FOOT  
 Rate of Penetration Increases

5" 10" 15" 20" 25"

DEPTH  
 2950

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

3000

ANHYDRITE 3012+373

B/ANH 3046+339

3100

3800

3900

4000

Samples are tagged

Sh. Bl Silty

LS. to Sil. Foss. Yssi. L. R. F. V. Mud  
Blk. Sat. ad. Sil. No. Foss. No odor  
(3895)

Sh. Bl Silty

60

LS. to Silty Du.

LS. wt. Sil. Foss. Silty

Silty Silty

Sh. Bl Silty

Sh. Bl Silty

WABUNSEL (STOLLER)

3894-509

LS. Bl. Silty Silty

Dol. LS. Fossil. Silty

Sh. Bl. Silty

LS. Dol. Foss. Yssi. L. R. F. V. Mud  
Blk. Sat. ad. Sil. No. Foss. No odor  
(3896)

LS. wt. Sil. Foss. Silty  
Silty Dol. Bl. Silty dol. Silty No. Foss. No odor  
(3897)

LS. wt. Sil. Foss. Yssi. L. R. F. V. Mud  
Blk. Sat. ad. Sil. No. Foss. No odor  
(3898)

Sh. Bl. Silty

LS. wt. Sil. Foss. Yssi. L. R. F. V. Mud  
Blk. Sat. ad. Sil. No. Foss. No odor  
(3899)

Dol. Fossil. Silty

Sh. Bl. Silty

LS. Bl. Silty Yssi. Chly.

LS. Bl. Silty Dolomite Fossil

Sh. Bl. Silty

LS. wt. Foss. Coleritic

DST  
-CD

WAB 706

WAB 705

WAB 707

WAB 708

WAB 709



DST (1) 3902-4000

1st level: Blow count to 5"

2nd level: " " " 5"

30.45-45-60

Rec. 1' CO

170 V30CWM (31/01/26/27/28)

TP: 111'

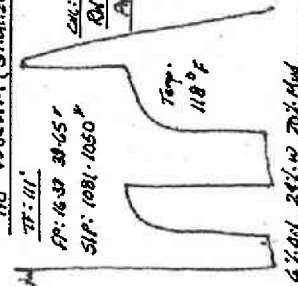
PP: 633 30-65'

SIP: 1081-1050'

AV: 0

Top 118'

Total Sample: 61.01 to 281.10 20% Mud



15. wt. Sil. fossil. Sil. A

Sh. Bl.

15. Dk. V. fossil. Sil. A

15. Fossil. Calcite

15. Fossil. Foss.

Sh. Bl.

15. wt. Sil. Foss.

15. wt. Sil. Foss. Sil. A

15. Gy. Dk. V. sil. cherty

Sh. Dk. Sil. Foss.

15. wt. Sil. Fossil. Calcite

15. T. H. Sil. Foss.

HEEBNER 1192-801

Sh. Bl. Calc.

15. wt. Sil. Fossil. of the Tong. Sil. A

Sh. Bl. Silty

15. wt. Sil. Fossil. V. Sil. Cherty. P. G. G. P.

Bl. Dk. Sil. Foss.

Sh. Bl. Silty

LANSING 1240-855

15. wt. Sil. Fossil. Sil. Cherty

15. Fossil. Sil. Fossil. Sil. A. F. G. P.

15. Bl. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

15. Bl. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

Sh. Bl. Silty

15. wt. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

15. Bl. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

Sh. Bl.

15. Fossil. Sil. Fossil. Sil. A. F. G. P.

15. Bl. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

Sh. Bl.

15. Bl. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

15. Bl. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

15. wt. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

15. Bl. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

15. wt. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

15. Bl. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

Sh. Bl.

Sh. Bl. Silty

15. wt. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

15. Bl. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

TOPEKA

TORONTO

LANS-406

VS: 62

WL: 9.0

WL: 8.0

CL: 3880

DST

(78)

(78)

(78)

(78)

DST

(87)

4100

4200

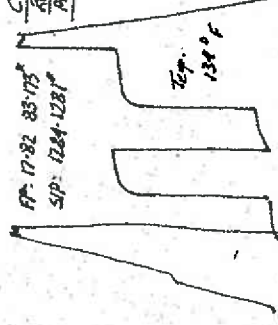
4300

DST (2) 1210-1283  
15. wt. Sil. Fossil. Sil. A. F. G. P.  
15. Bl. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.  
15. Bl. Sil. Fossil. Sil. Fossil. Sil. A. F. G. P.

Re. 323' SMV (71'H, 93'W)

CP: 73.000  
AV: 00.000  
AV: 7

FP: 1782 88.175  
SIP: 1284-1281



Tool Sample: (200' WPT)

21.5. 501. 500. 500. 10. 2000  
A 20275

65. 60. 50. 40.

65. 60. 50. 40. 30. 20. 10. 0.

Sh. Silty Sh.

15. 10. 5. 0. 0. 0. 0. 0.

Sh. Rl

15. 10. 5. 0. 0. 0. 0. 0.

Sh. Rl

15. 10. 5. 0. 0. 0. 0. 0.

Sh. Silty Sh.

Sh. Silty Sh.

15. 10. 5. 0. 0. 0. 0. 0.

Sh. Rl

Sh. Silty Sh.

15. 10. 5. 0. 0. 0. 0. 0.

Sh. Rl

15. 10. 5. 0. 0. 0. 0. 0.

Sh. Silty Sh.

Sh. Rl

Sh. Silty Sh.

Sh. Rl

Sh. Silty Sh.

Sh. Rl

15. 10. 5. 0. 0. 0. 0. 0.

Sh. Silty Sh.

Sh. Rl

Sh. Silty Sh.

Sh. Rl

15. 10. 5. 0. 0. 0. 0. 0.

Sh. Silty Sh.

Sh. Rl

Sh. Silty Sh.

Sh. Rl

15. 10. 5. 0. 0. 0. 0. 0.

Sh. Silty Sh.

Sh. Rl

Sh. Silty Sh.

Sh. Rl

15. 10. 5. 0. 0. 0. 0. 0.

Sh. Silty Sh.

Sh. Rl

Vis: 57  
WT: 9.2  
WT: 9.6  
CM: 4500

STARK

DST (9)

MORMANTON

ALTAMONT

Vis: 51  
WT: 9.1  
WT: 8.8  
CM: 5000

DST (5)

Vis: 51  
WT: 9.2  
WT: 8.8  
CM: 5000

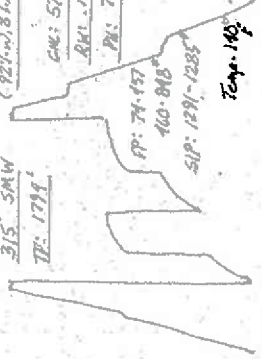
FORT SCOT 1670 - 1285

DST (3) 4360-1185

15000' Bottom Bucket 3 min. 25 sec.  
20' 4" 30"  
30-45-15-20

Rec. 47' Vacuum (2700' 57' 40' 45' 10')  
630 Y50CMW (2700' 90' 10' 10' 10')  
370 Y50CMW (1700' 40' 10' 10' 10')

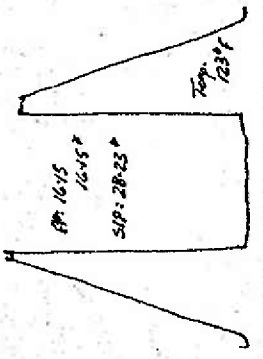
315' SWW (921' 10' 8' 10')  
TP: 171'  
CNC: 57,000  
REL: 150 652  
PK: 7



DST (4) 4188-1580

15000' Bottom Bucket 3 min. 25 sec.  
20' 4" 30"  
30-30-30-30

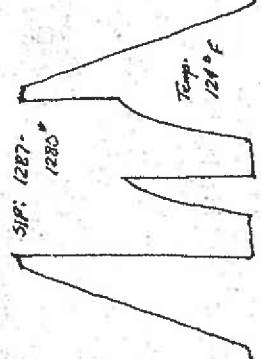
Rec. 2' Mud



DST (5) 4578-1660

15000' Bottom Bucket 3 min. 25 sec.  
20' 4" 30"  
30-30-30-30

Rec. 16' Mud



CHEROKEE 4699-1314

417 1611A

Sh. Blue-grey clay

15. 23 1/2 Sh. Blue-grey clay

16. 23 1/2 Sh. Blue-grey clay

17. 23 1/2 Sh. Blue-grey clay

18. 23 1/2 Sh. Blue-grey clay

19. 23 1/2 Sh. Blue-grey clay

20. 23 1/2 Sh. Blue-grey clay

21. 23 1/2 Sh. Blue-grey clay

22. 23 1/2 Sh. Blue-grey clay

23. 23 1/2 Sh. Blue-grey clay

24. 23 1/2 Sh. Blue-grey clay

25. 23 1/2 Sh. Blue-grey clay

26. 23 1/2 Sh. Blue-grey clay

27. 23 1/2 Sh. Blue-grey clay

28. 23 1/2 Sh. Blue-grey clay

29. 23 1/2 Sh. Blue-grey clay

30. 23 1/2 Sh. Blue-grey clay

31. 23 1/2 Sh. Blue-grey clay

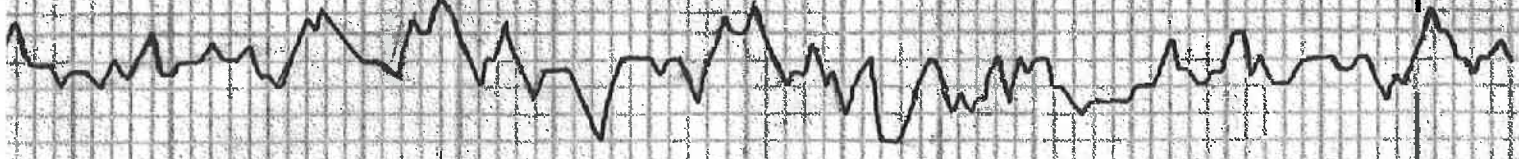
MISSISSIPPI 4850-1465

23-24-65 - Div.

165 55  
167 93  
168 92  
CAL. 1000

4800

RTU 4800-1475





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

FIELD SERVICE TICKET  
 1718 12530 A

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

DATE OF JOB: <u>06-22-15</u> DISTRICT: <u>PRATT</u>				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: <u>L.D. Drilling</u>				LEASE: <u>Howard</u> 1-21 WELL NO.:			
ADDRESS:				COUNTY: <u>Thomas</u> STATE: <u>KS</u>			
CITY:				SERVICE CREW: <u>Sullivan, Ed Anderson</u>			
AUTHORIZED BY:				JOB TYPE: <u>case NW P.I.t</u>			

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
						ARRIVED AT JOB	6-21-15	AM	7:00
<u>19843</u>	<u>40</u>	<u>no</u>				START OPERATION	6-21-15	AM	10:15
<u>19833</u>	<u>40</u>	<u>no</u>				FINISH OPERATION	6-22-15	AM	3:00
						RELEASED	6-22-15	AM	3:30
						MILES FROM STATION TO WELL			100

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: \_\_\_\_\_  
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 per cent	SB	240		2,880.00
CC 200	CMT GEL	lb	414		103.50
CC 102	cell fake	lb	60		222.00
CF 153	wooden Plug 5 3/2	SB	1		140.00
E 100	Dickie no	mi	100		450.00
E 101	Heavy Sport no	mi	200		1,500.00
E 113	Bulk Deling	mm	1,035		2,587.50
CE 204	Depth charge 3,000-400'	SB	1		2,160.00
CE 240	Blow-down	SB	240		336.00
3003	Service Supplement	SB	1		175.00

SUB TOTAL 10,574.00

CHEMICAL / ACID DATA:			

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

TOTAL 6,873.10

SERVICE REPRESENTATIVE: Robert Fuller  
 THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Leonard Boese  
 (WELL OWNER OPERATOR CONTRACTOR OR AGENT)



Customer <i>LD Drilby</i>	Lease No.	Date <i>06-22-15</i>	
Lease <i>HOWARD</i>	Well # <i>1-21</i>		
Field Order # <i>12830</i>	Station <i>PRATT</i>	Casing	Depth
Type Job <i>CNW P.T.A</i>	Formation	County <i>TOMAS</i>	State <i>KS</i>
		Legal Description <i>21-6-30</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth	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
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager <i>DAVE SETH</i>	Treater <i>Robert L...</i>
-------------------------	-------------------------------------	-------------------------------

Service Units	<i>37900</i>	<i>84981</i>	<i>19843</i>	<i>14355</i>	<i>19883</i>				
Driver Names	<i>Sullivan</i>	<i>Edwards</i>	<i>CHAVEC</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:15</i>					<i>on loc</i>
					<i>P.T.A.</i>
<i>11:20</i>			<i>5</i>	<i>5</i>	<i>Set Plug @ 3030' w/50stk 60/102</i>
			<i>12 1/2</i>		<i>space</i>
<i>11:30</i>			<i>5</i>		<i>space</i>
			<i>37</i>		<i>rod</i>
<i>12:15</i>			<i>5</i>		<i>Set Plug @ 2130' w/100stk 60/102</i>
			<i>25</i>		<i>space</i>
<i>12:30</i>			<i>29</i>		<i>space</i>
			<i>5</i>		<i>rod</i>
<i>1:35</i>			<i>12 1/2</i>	<i>11</i>	<i>Set Plug 470' w/50stk</i>
			<i>5</i>		<i>space</i>
<i>1:45</i>					<i>cut</i>
<i>2:55</i>			<i>5</i>		<i>Disp</i>
<i>3:00</i>			<i>7</i>		<i>Plug Top 45' w/10stk</i>
					<i>Plug Rod w/30stk</i>
					<i>503 Complete</i>
					<i>Thank</i>



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

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

21-6s-36w

FIELD SERVICE TICKET  
1718 12266 A

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

DATE OF JOB <b>6-12-2015</b>	DISTRICT <b>Prst &amp; Ks</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>Howser</b>						WELL NO. <b>1-21</b>		
ADDRESS		COUNTY <b>Thomas</b>	STATE <b>Ks</b>						
CITY STATE		SERVICE CREW <b>Dsrin, Ed, Besney</b>							
AUTHORIZED BY		JOB TYPE: <b>CNW / 8 5/8 SURFACE</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE <b>6-11</b>	AM <b>8:00</b>	TIME <b>6:30</b>
<b>19843</b>	<b>1/2</b>					ARRIVED AT JOB	<b>6-12</b>	<b>AM</b>	<b>12:30</b>
<b>19860</b>	<b>1/4</b>					START OPERATION	<b>6-12</b>	<b>AM</b>	<b>2:00</b>
						FINISH OPERATION	<b>6-12</b>	<b>PM</b>	<b>2:30</b>
						RELEASED	<b>6-12</b>	<b>PM</b>	<b>3:00</b>
						MILES FROM STATION TO WELL	<b>259</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, 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: *Robert W. ...*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
<b>CP103</b>	<b>60/40 P02</b>	<b>SK</b>	<b>300</b>		<b>3,600 00</b>	
<b>CC109</b>	<b>Calcium Chloride</b>	<b>Lb</b>	<b>774</b>		<b>812 70</b>	
<b>CC102</b>	<b>cellulose</b>	<b>Lb</b>	<b>75</b>		<b>277 50</b>	
<b>CF153</b>	<b>WOODEN CEMENT PLUG, 8 5/8</b>	<b>Eg</b>	<b>1</b>		<b>160 00</b>	
<b>E100</b>	<b>unit mileage charge - pickup, 2 hrs, 2 hrs &amp; 2 hrs</b>	<b>Mi</b>	<b>100</b>		<b>450 00</b>	
<b>E101</b>	<b>Heavy Equipment + Mileage</b>	<b>Mi</b>	<b>200</b>		<b>1,500 00</b>	
<b>E113</b>	<b>PROPANE gas Bulk Delivery charges, per ton</b>	<b>Ton</b>	<b>12.90</b>		<b>3,225 00</b>	
<b>CE200</b>	<b>Depth Charge 0-500</b>	<b>4hr</b>	<b>1</b>		<b>1,000 00</b>	
<b>CE240</b>	<b>Blenders &amp; mixing Service charge</b>	<b>SK</b>	<b>300</b>		<b>420 00</b>	
<b>CE504</b>	<b>PLUS container utilization charge</b>	<b>Job</b>	<b>1</b>		<b>250 00</b>	
<b>5003</b>	<b>Service supervisor, hrs &amp; hrs on loc.</b>	<b>Eg</b>	<b>1</b>		<b>175 00</b>	
					<b>SUB TOTAL</b>	<b>11,870 20</b>

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
<b>D. Scann ...</b>		TOTAL	<b>7,715 63</b>

SERVICE REPRESENTATIVE: *Ed Dsrin* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Robert W. ...*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer <b>LD Drilling Inc</b>	Lease No.	Date <b>6-12-2015</b>
Lease <b>Howsie</b>	Well # <b>1-21</b>	
Field Order # <b>1226</b>	Station <b>Progress</b>	Casing <b>8 5/8</b>
		Depth <b>432</b>
Type Job <b>LNW / 8 5/8 Surface</b>	Formation <b>JD-432</b>	County <b>Thomas</b>
		State <b>KS</b>
		Legal Description <b>21-6s-36u</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<b>8 5/8</b>				Pre Pad	Max		5 Min.	
Depth <b>432</b>	Depth	From	To	Pad	Min		10 Min.	
Volume <b>27 1/2</b>	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <b>412</b>	Packer Depth	From	To					

Customer Representative <b>Rick</b>	Station Manager <b>Kevin Gordley</b>	Treater <b>Darin Franklin</b>
Service Units <b>92911 84981 19843 19903 19860</b>		
Driver Names <b>Darin Ed Ed Besch Besch</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>12:30pm</b>					<b>on location / safety meetings</b>
					<b>432' - 8 5/8</b>
					<b>300SK 60/40 P02, 2% Gel, 3% CC</b>
					<b>1/4" Cell Clack, 14.8 pps, 1.21 yr. 12, 5.16 wster</b>
<b>2:00pm</b>	<b>200</b>		<b>3</b>	<b>6</b>	<b>pump 3 bbls water</b>
	<b>200</b>		<b>65</b>	<b>6</b>	<b>mix 300SK cement</b>
					<b>shut down</b>
					<b>Release plug</b>
	<b>200</b>		<b>0</b>		<b>start displacement</b>
<b>2:30pm</b>	<b>200</b>		<b>26</b>		<b>shut in</b>
					<b>Cement die circular 10 bbls</b>
					<b>Job complete / Darin &amp; crew</b>
					<b>Thank YOU!!!</b>