



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1305143
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: _____

1305143

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
--	---

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> _____
---	--

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	MULL-HEYEN 1-24
Doc ID	1305143

Tops

Name	Top	Datum
ANHYDRITE	578	+1271
BASE ANHYDRITE	599	+1250
HEEBNER	3120	-1271
BROWN LIME	3253	-1404
LANSING	3275	-1426
BASE KANSAS CITY	3507	-1658
VIOLA	3546	-1697
SIMPSON	3594	-1745
ARBUCKLE	3658	-1809

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	MULL-HEYEN 1-24
Doc ID	1305143

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	341	A-CONN	175	1/4#CellFlake,3%CC
Surface	12.25	8.625	23	341	COMMON	175	1/4#CellFlake,3%CC
Production	7.875	5.5	14	3740	AA-2	150	10%Salt,1/4#CF
Production	7.875	5.5	14	3740	60/40 POZMIX	30	na

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

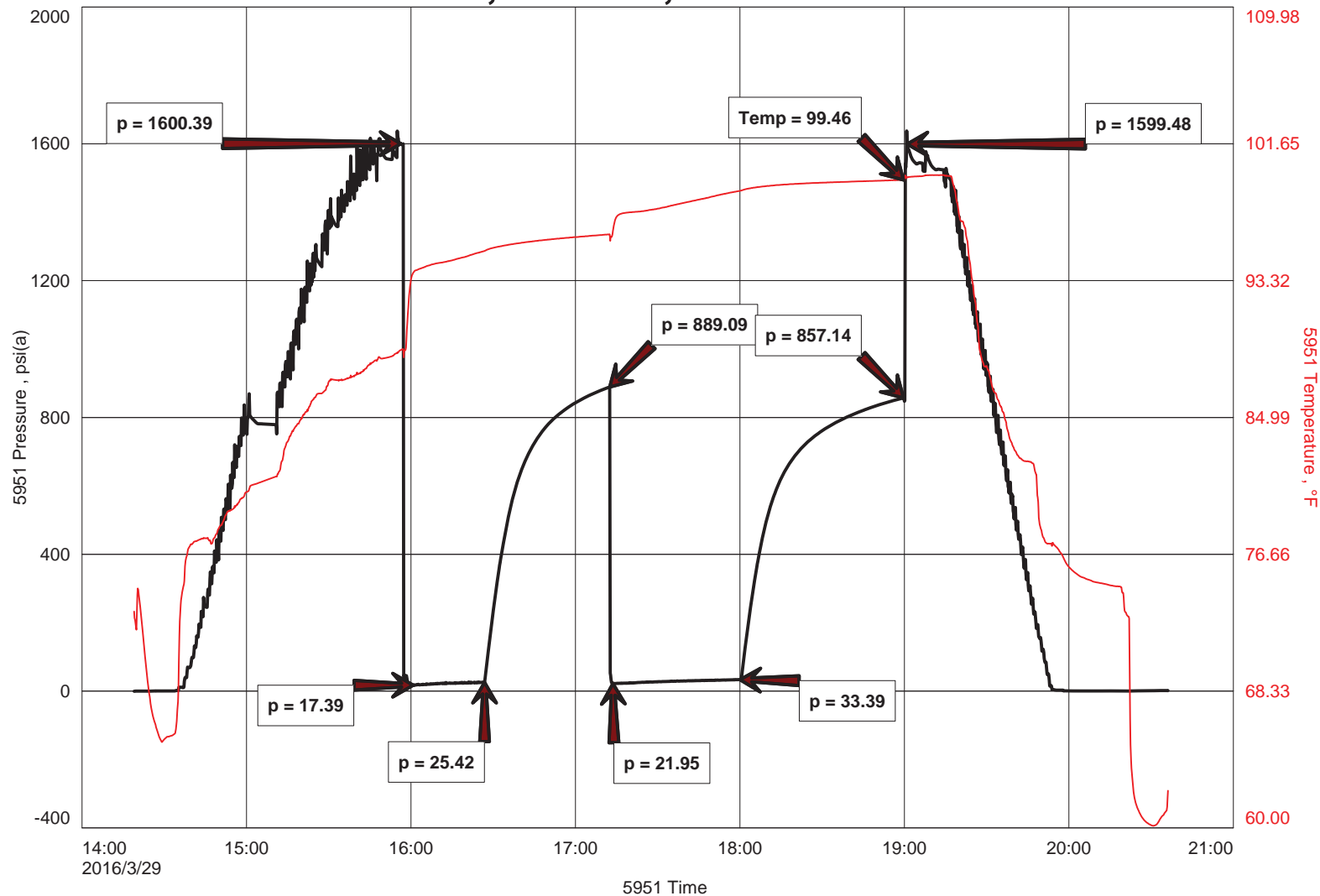
Well Name	Mull-Heyen #1-24
Company Name	LD Drilling, Inc.
Formation	DST #1, Lansing "B-F" 3295'-3355'
Test Type	Bottom-Hole w/safety joint
Surface Location	Sec 24-22s-12w-Stafford Co.-KS
KB Elevation (SL)	1849.000
Gauge Name	5951
Start Test Date	2016/03/29
Start Test Time	14:19:00
Final Test Date	2016/03/29
Final Test Time	20:37:00
Job Number	F427
Contact	LD Davis
Site Contact	Kim Shoemaker

TEST RESULTS

Initial flow, strong blow @ BOB in 1.5 minutes. No blowback.
 Final flow, strong blow @ BOB immediately, GTS 30 min, TSTM. No blowback.

Recovered 45' of GCM; 10% gas, 90% mud.

MULL-HEYEN #1-24, DST #1, LANSING "B-F" 3295'-3355'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN 1 DST1

ON LOCATION:	<u>13:30</u>
START RECORDERS:	<u>14:19</u>
STOP RECORDERS:	

Company LD Drilling Inc Lease & Well No. MULL-HEYEN #1-24
 Contractor LD Drilling Rig #1 Charge to LD Drilling Inc.
 Elevation 1849' KB Formation LANS. "B-F" Effective Pay _____ Ft. Ticket No. F427
 Date 3-29-16 Sec. 24 Twp. 22S Range 12W County STAFFORD State KS
 Test Approved By KIM SHOENAKER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 3295 ft. to 3355 ft. Total Depth 3355 ft.
 Packer Depth 3290 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3295 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3278 ft. Recorder Number 5591 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3299 ft. Recorder Number 5589 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CREMFLAC Viscosity 67 (4" LCM) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 8.7 Water Loss 8.0 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 2800 P.P.M. Drill Pipe Length 3267 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 S.J. Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? GTS (TSTM) Reversed Out _____ Anchor Length 60 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 28" PERF IN ANCHOR in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong blow @ B.O.B. IN 1 1/2 min. NO BLOWBACK.
 2nd Open: Strong blow @ B.O.B. immediately. GTS 30 min TSTM. No BB

Recovered 45 ft. of GCM 10" gas, 90" mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

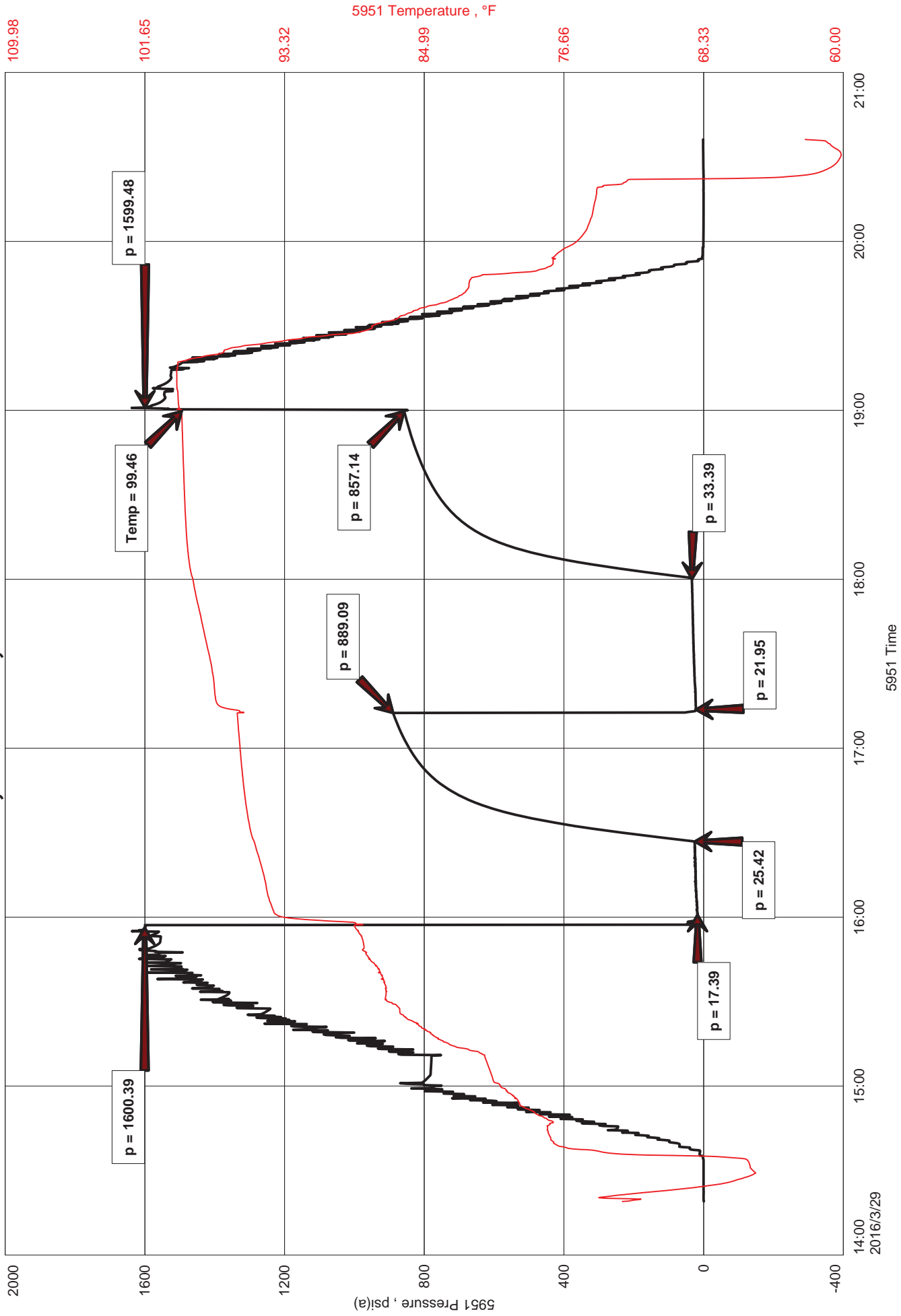
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	<u>5. Joint</u>
	<u>82 MRT (PRIT)</u>
	Total

Time Set Packer(s) 16:00 A.M. P.M. Time Started Off Bottom 19:00 A.M. P.M. Maximum Temperature 99°F

Initial Hydrostatic Pressure..... (A) 1600 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 25 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 889 P.S.I.
 Final Flow Period..... Minutes 45 (E) 22 P.S.I. to (F) 33 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 857 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 1599 P.S.I. Jake Fahrenbruch

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

MULL-HEYEN #1-24, DST #1, LANSING "B-F" 3295'-3355'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 14:19
 TIME OFF: 20:37

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN1DST1

Company LD Drilling Inc. Lease & Well No. Mull-Heyen #1-24
 Contractor LD Drilling Charge to LD Drilling Inc.
 Elevation 1849' KB Formation Lansing "B-F" Effective Pay _____ Ft. Ticket No. F427
 Date 3-29-16 Sec. 24 Twp. _____ 22s S Range 12w W County Stafford State KANSAS
 Test Approved By Kim Shoemaker Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3295 ft. to 3355 ft. Total Depth 3355 ft.
 Packer Depth 3290 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3295 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3278 ft. Recorder Number 5591 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3299 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 67 (4# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 8.7 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 2,800 P.P.M. Drill Pipe Length 3,267 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? GTS (TSTM) Reversed Out NO Anchor Length 60 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong blow @ BOB in 1.5 minute. No blowback.
 2nd Open: Strong blow @ BOB immediately. GTS 30 min, TSTM. No blowback.

Recovered 45 ft. of GCM 10% gas, 90% mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: _____
 Price Job _____
 Other Charges _____
 Insurance _____
 Total _____

Time Set Packer(s) 16:00 A.M. P.M. Time Started Off Bottom 19:00 A.M. P.M. Maximum Temperature 99 F
 Initial Hydrostatic Pressure..... (A) 1600 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 25 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 889 P.S.I.
 Final Flow Period..... Minutes 45 (E) 22 P.S.I. to (F) 33 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 857 P.S.I.
 Final Hydrostatic Pressure..... (H) 1599 P.S.I.

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Mull-Heyen #1-24
Company Name	LD Drilling, Inc.
Formation	DST #2, L/KC "H-K" 3403'-3480'
Test Type	Bottom-Hole w/safety joint
Surface Location	Sec 24-22s-12w-Stafford Co.-KS
KB Elevation (SL)	1849.000
Gauge Name	5951
Start Test Date	2016/03/30
Start Test Time	07:20:00
Final Test Date	2016/03/30
Final Test Time	14:11:00
Job Number	F428
Contact	LD Davis
Site Contact	Kim Shoemaker

TEST RESULTS

Initial flow, strong blow @ BOB in 1.75 minutes. No blowback.
 Final flow, Strong blow @ BOB in .75 minutes, GTS 15 minutes. Blowback @ BOB.
 Gas Guaged at 32,000 CF/D (11# @ .25")

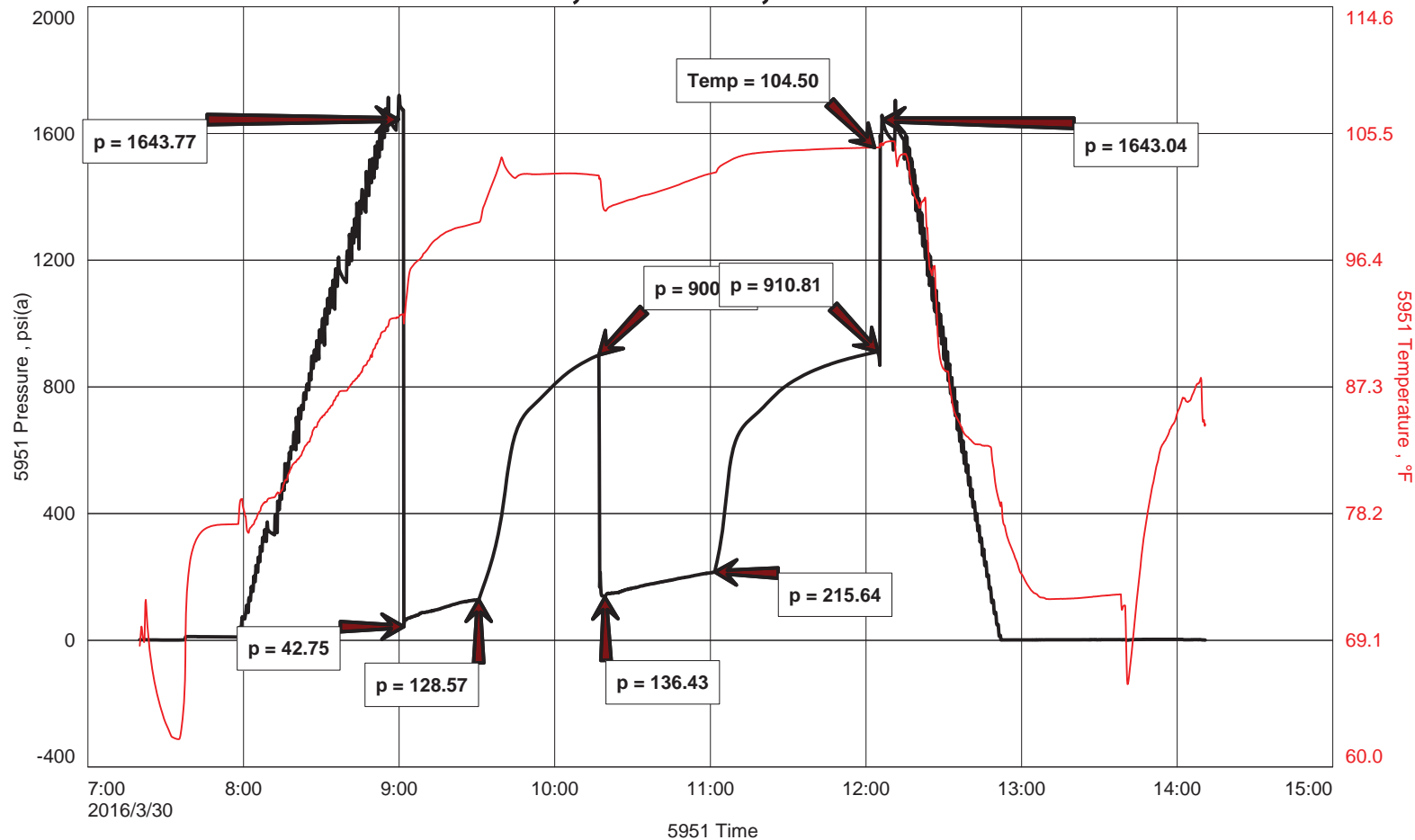
TOTAL FLUID RECOVERED: 485'

50' GCOSM 15% GAS, 2% OIL, 83% MUD

435' Gassy Oil 15% GAS, 85% OIL

GRAVITY: 31 @ 60 F

MULL-HEYEN #1-24, DST #2, L/KC "H-K" 3403'-3480'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN 1DST1

ON LOCATION: 07:00
 START RECORDERS: 07:20
 STOP RECORDERS: 14:11

Company LD DRILLING, INC. Lease & Well No. MULL-HEYEN #1-24
 Contractor LD DRILLING Charge to LD DRILLING, INC.
 Elevation 1849' KB Formation L/KC "H-K" Effective Pay _____ Ft. Ticket No. F428
 Date 3-30-16 Sec. 74 Twp. 22S Range 12W County STAFFORD State KS
 Test Approved By KIM SHOEMAKER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 2 Interval Tested from 3403 ft. to 3480 ft. Total Depth 3480 ft.
 Packer Depth 3398 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3403 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3386 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3408 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 (1" LCM) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 8.9 Water Loss 15.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 18000 P.P.M. Drill Pipe Length 3375 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 S.JNT. Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? GTS Reversed Out _____ Anchor Length 77 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 KH in. 43' PERF IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW @ BOB IN 1 3/4 MIN. NO BLOWBACK.
 2nd Open: STRONG BLOW @ BOB IN 3/4 MIN. GTS 15 MIN. BLOWBACK @ BOB

Recovered 50 ft. of GC OSM 15" GAS, 2" OIL, 83" MUD
 Recovered 435 ft. of GASSY OIL 15" GAS, 85" OIL
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

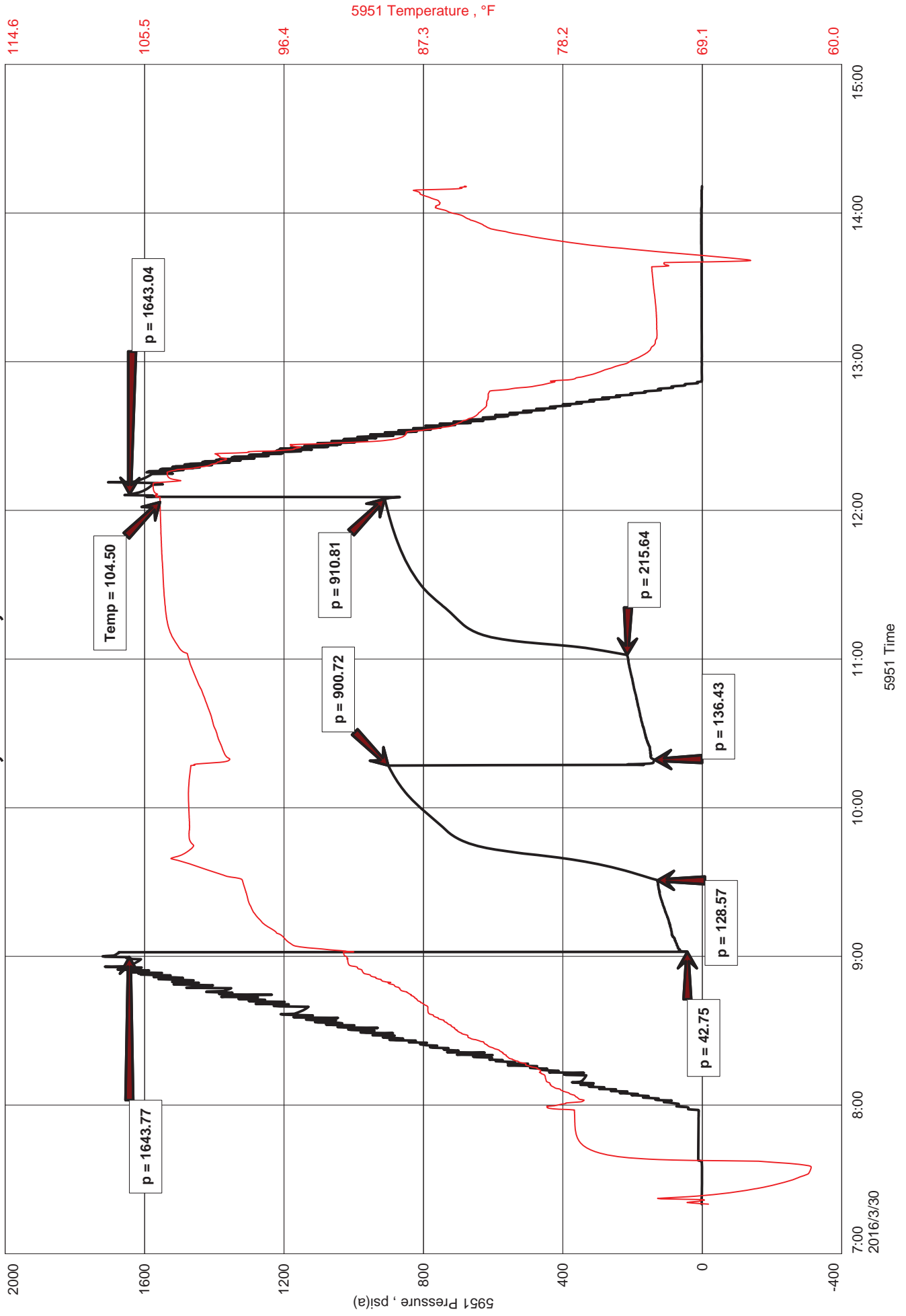
Recovered 2 ft. of _____ Price Job _____
 Recovered 2 ft. of TOTAL RECOVERED FLUID: 485' Other Charges _____
 Remarks: GAS GAUGED @ 32,000 CF/D. (11" @ 1/4') S. JOINT
GRAVITY: 31 @ 60°F 84 MPT (PRIT)
 Total _____

Time Set Packer(s) 09:00 A.M. P.M. Time Started Off Bottom 12:00 A.M. P.M. Maximum Temperature 105°F

Initial Hydrostatic Pressure..... (A) 1644 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 43 P.S.I. to (C) 129 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 901 P.S.I.
 Final Flow Period..... Minutes 45 (E) 136 P.S.I. to (F) 216 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 911 P.S.I. THANKS!
 Final Hydrostatic Pressure..... (H) 1643 P.S.I. Jake Fahrenbruch

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MULL-HEYEN #1-24, DST #2, L/KC "H-K" 3403'-3480'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 07:20
 TIME OFF: 14:11

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN1DST2

Company LD Drilling Inc. Lease & Well No. Mull-Heyen #1-24
 Contractor LD Drilling Charge to LD Drilling Inc.
 Elevation 1849' KB Formation L/KC "H-K" Effective Pay _____ Ft. Ticket No. F428
 Date 3-30-16 Sec. 24 Twp. _____ 22s S Range _____ 12w W County Stafford State KANSAS
 Test Approved By Kim Shoemaker Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 3403 ft. to 3480 ft. Total Depth 3480 ft.
 Packer Depth 3398 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3403 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3386 ft. Recorder Number 5591 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3408 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 (1# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 8.9 Water Loss 15.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 18,000 P.P.M. Drill Pipe Length 3,375 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number _____ Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? GTS Reversed Out NO Anchor Length 77 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: Strong blow @ BOB in 1.75 minutes. No blowback.
 2nd Open: Strong blow @ BOB in .75 minutes. GTS 15 min. Blowback @ BOB.

Recovered 50 ft. of GCOSM 15% GAS, 2% OIL, 83% MUD
 Recovered 435 ft. of Gassy Oil 15% GAS, 85% OIL
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Recovered _____ ft. of <u>TOTAL RECOVERED FLUID: 485'</u>	Price Job
Remarks: <u>Gas guaged @ 32,000 CF/D. (11# @ .25")</u>	Other Charges
<u>GRAVITY: 31 @ 60 F</u>	Insurance
	Total

Time Set Packer(s) 09:00 A.M. P.M. Time Started Off Bottom 12:00 A.M. P.M. Maximum Temperature 105 F

Initial Hydrostatic Pressure..... (A) 1644 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 43 P.S.I. to (C) 129 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 901 P.S.I.
 Final Flow Period..... Minutes 45 (E) 136 P.S.I. to (F) 216 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 911 P.S.I.
 Final Hydrostatic Pressure..... (H) 1643 P.S.I.

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

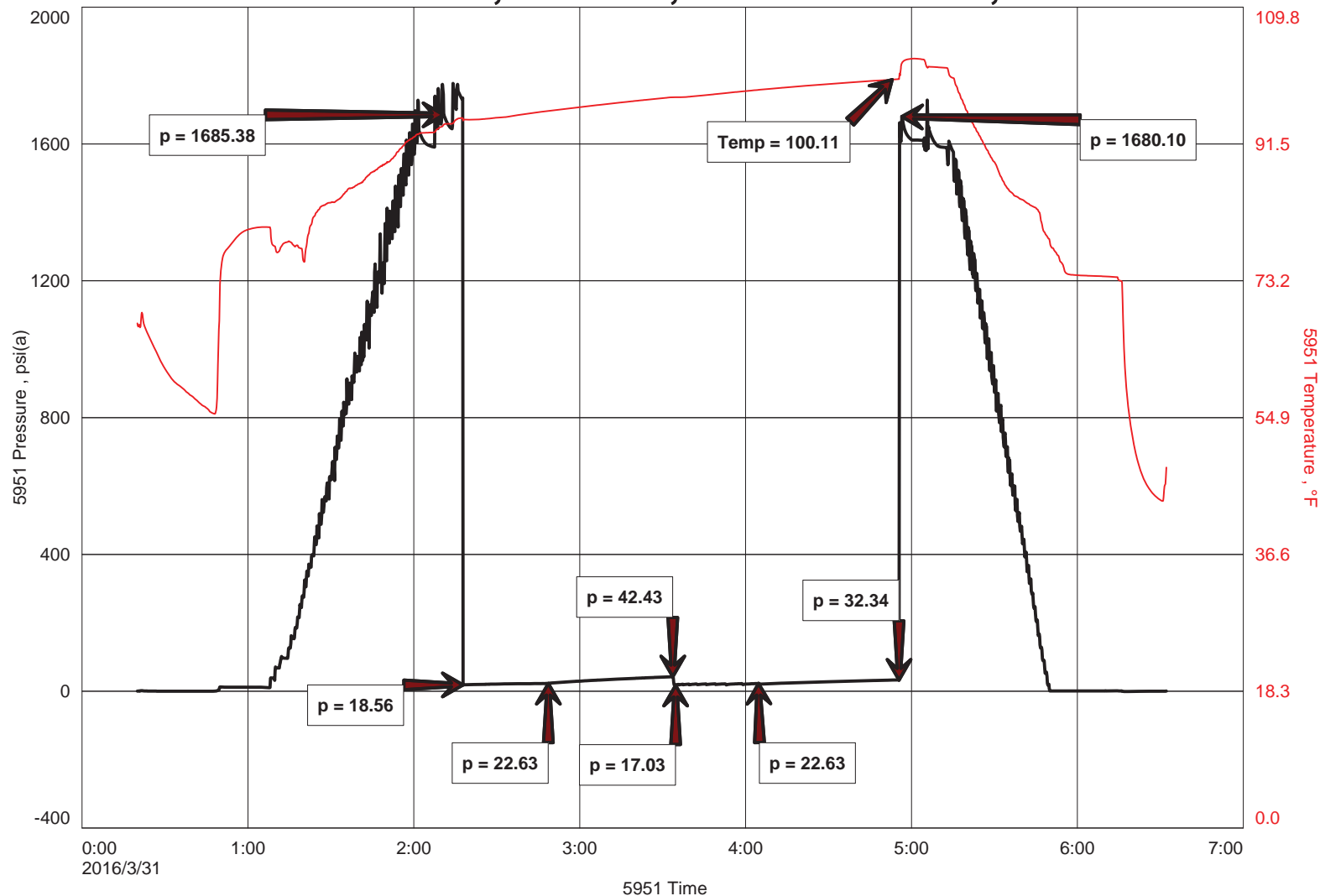
Well Name	Mull-Heyen #1-24
Company Name	LD Drilling, Inc.
Formation	DST #3, Congl./Viola, 3502'-3590'
Test Type	Bottom-Hole w/safety joint
Surface Location	Sec 24-22s-12w-Stafford Co.-KS
KB Elevation (SL)	1849.000
Gauge Name	5951
Start Test Date	2016/03/31
Start Test Time	00:20:00
Final Test Date	2016/03/31
Final Test Time	06:32:00
Job Number	F429
Contact	LD Davis
Site Contact	Kim Shoemaker

TEST RESULTS

Initial flow, weak blow, increased to 2".
Final flow, weak blow, increased to 1".

Recovered 15' of drilling mud, 100% mud.

MULL-HEYEN #1-24, DST #3, CONG./VIOLA, 3502"-3590'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN 1DST3

ON LOCATION: 23:56
 START RECORDERS: 00:20
 STOP RECORDERS: 06:32

Company LD DRILLING, INC. Lease & Well No. MULL-HEYEN #1-24
 Contractor LD DRILLING Charge to LD DRILLING, INC.
 Elevation 1849' NB Formation CONG/VFOVA Effective Pay _____ Ft. Ticket No. F429
 Date 3-31-16 Sec. 24 Twp. 22 S Range 12 W County STAFFORD State KS
 Test Approved By KEN SIKEMAKER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 3 Interval Tested from 3502 ft. to 3590 ft. Total Depth 3590 ft.
 Packer Depth 3497 ft. Size 6 3/4 in. Packer depth — ft. Size 6 3/4 in.
 Packer Depth 3502 ft. Size 6 3/4 in. Packer depth — ft. Size 6 3/4 in.
 Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3485 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3507 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 57 (1"CM) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 15.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 18000 P.P.M. Drill Pipe Length 3474 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 S.J.M. Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 88 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 X 4 in. Surface Choke Size 22" PERF 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK BLOW, INC TO 2"
 2nd Open: WEAK BLOW, INC TO 1"

Recovered 15 ft. of DRLG MUD 100" MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

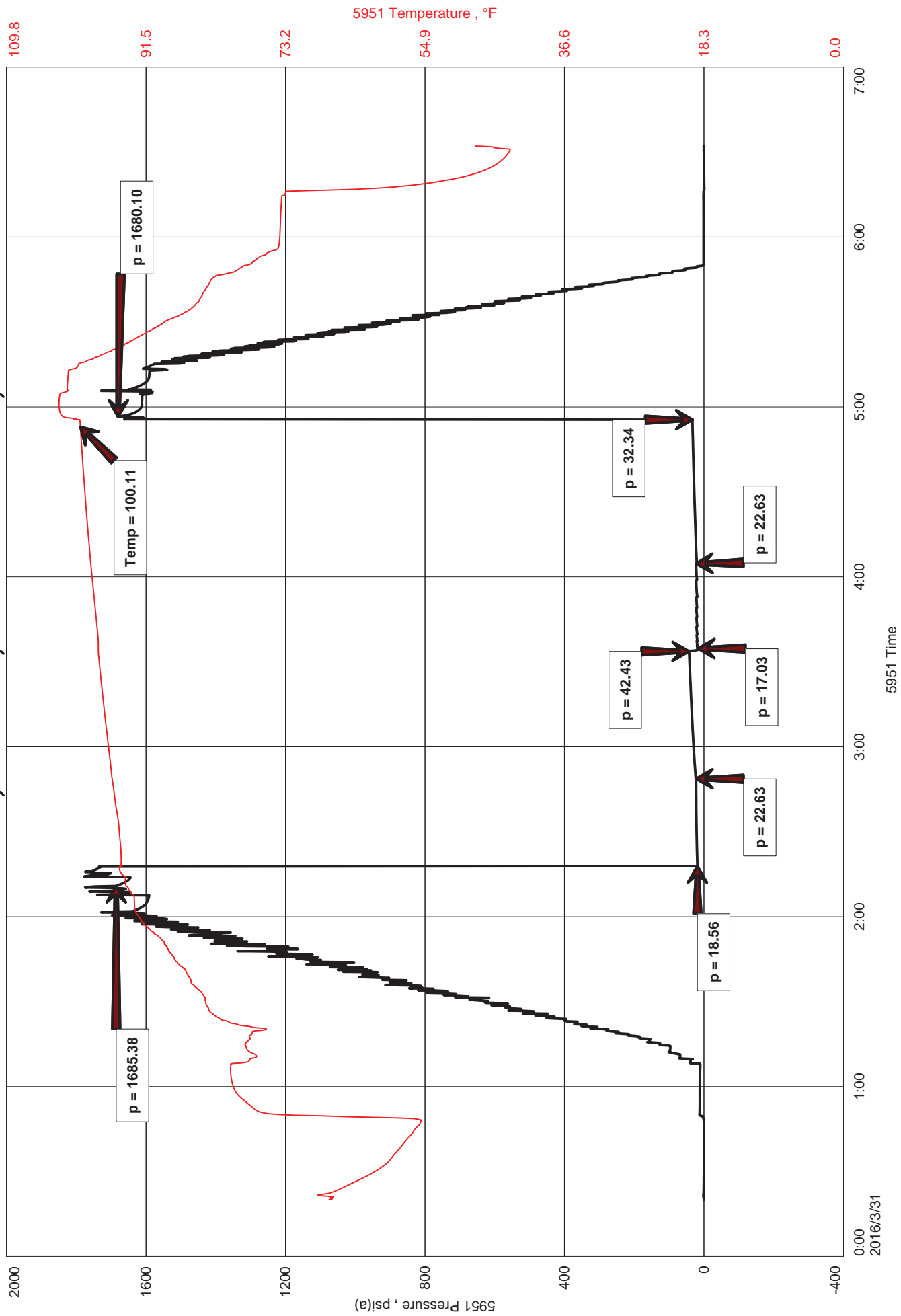
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	<u>S. JOINT</u>
	<u>84MRT (PRAT)</u>
	Total

Time Set Packer(s) 02:19 A.M. P.M. Time Started Off Bottom 04:49 A.M. P.M. Maximum Temperature 100 F

Initial Hydrostatic Pressure..... (A) 1685 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 19 P.S.I. to (C) 23 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 42 P.S.I.
 Final Flow Period..... Minutes 30 (E) 17 P.S.I. to (F) 23 P.S.I.
 Final Closed In Period..... Minutes 45 (G) 32 P.S.I. THANKS!
 Final Hydrostatic Pressure..... (H) 1680 P.S.I. [Signature]

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

MULL-HEYEN #1-24, DST #3, CONG. MIOLA, 3502" -3590'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 00:20
 TIME OFF: 06:32

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN1DST3

Company LD Drilling Inc. Lease & Well No. Mull-Heyen #1-24
 Contractor LD Drilling Charge to LD Drilling Inc.
 Elevation 1849' KB Formation CONG./VIOLA Effective Pay _____ Ft. Ticket No. F429
 Date 3-31-16 Sec. 24 Twp. _____ Range 22s S Range _____ County 12w W County Stafford State KANSAS
 Test Approved By Kim Shoemaker Diamond Representative Jake Fahrenbruch

Formation Test No. 3 Interval Tested from 3502 ft. to 3590 ft. Total Depth 3590 ft.
 Packer Depth 3497 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3502 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3485 ft. Recorder Number 5591 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3507 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 57 (1# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 15.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 18,000 P.P.M. Drill Pipe Length 3,474 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 88 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak blow, increased to 2"
 2nd Open: Weak blow, increased to 1"

Recovered <u>15</u> ft. of <u>DRLG MUD</u>	<u>100% mud</u>
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) 02:19 A.M. P.M. Time Started Off Bottom 04:49 A.M. P.M. Maximum Temperature 100 F

Initial Hydrostatic Pressure..... (A) 1685 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 19 P.S.I. to (C) 23 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 42 P.S.I.
 Final Flow Period..... Minutes 30 (E) 17 P.S.I. to (F) 23 P.S.I.
 Final Closed In Period..... Minutes 45 (G) 32 P.S.I.
 Final Hydrostatic Pressure..... (H) 1680 P.S.I.

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

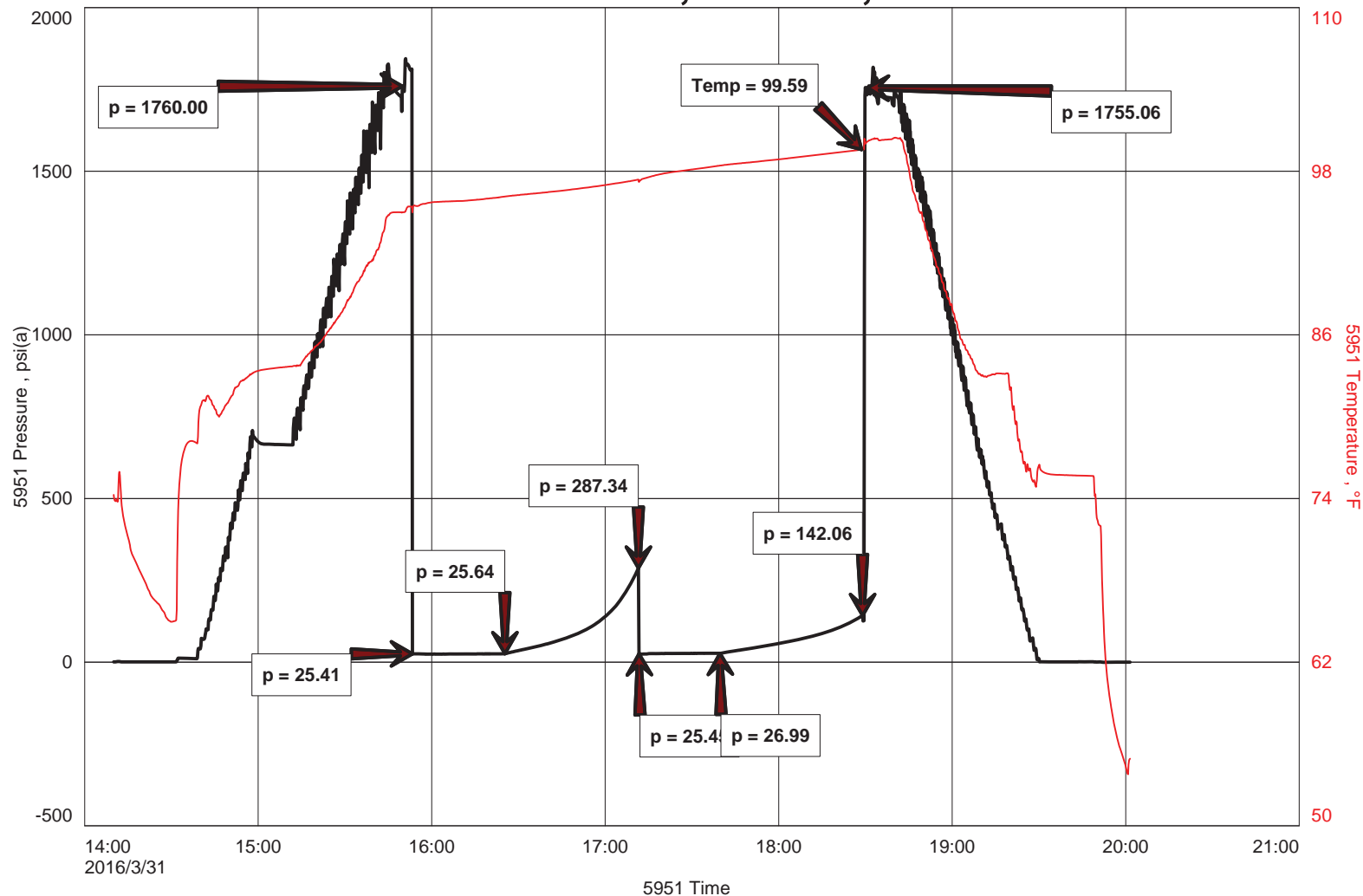
Well Name	Mull-Heyen #1-24
Company Name	LD Drilling, Inc.
Formation	DST #4, Simpson 3592'-3626'
Test Type	Bottom-Hole w/safety joint
Surface Location	Sec 24-22s-12w-Stafford Co.-KS
KB Elevation (SL)	1849.000
Gauge Name	5951
Start Test Date	2016/03/31
Start Test Time	14:10:00
Final Test Date	2016/03/31
Final Test Time	20:02:00
Job Number	F430
Contact	LD Davis
Site Contact	Kim Shoemaker

TEST RESULTS

Initial flow, weak blow, inc to 2.75".
Final flow, weak blow, inc to 1".

Recovered 25' of SOCM, 4% oil, 96% mud
Tool sample: OCM 20% oil, 80% mud

MULL-HEYEN #1-24, DST #4, 3592'-3626'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

ON LOCATION: 13:55
 START RECORDERS: 14:10
 STOP RECORDERS: 20:02

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN 12574

Company LD DRILLING, INC. Lease & Well No. MULL-HEYEN #1-24
 Contractor LD DRILLING Charge to LD DRILLING, INC.
 Elevation 1849' KB Formation SIMPSON Effective Pay _____ Ft. Ticket No. F430
 Date 3-31-16 Sec. 24 Twp. 22S Range 12W County STAFFORD State KS
 Test Approved By KEN SHIDEMAKER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 4 Interval Tested from 3592 ft. to 3626 ft. Total Depth 3626 ft.
 Packer Depth 3587 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3592 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3575 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3597 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 57 (1" x 100) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 15.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 18000 P.P.M. Drill Pipe Length 3564 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 S. JOINT Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 34 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK BLOW, INC TO 2 3/4"
 2nd Open: WEAK BLOW, INC TO 1"

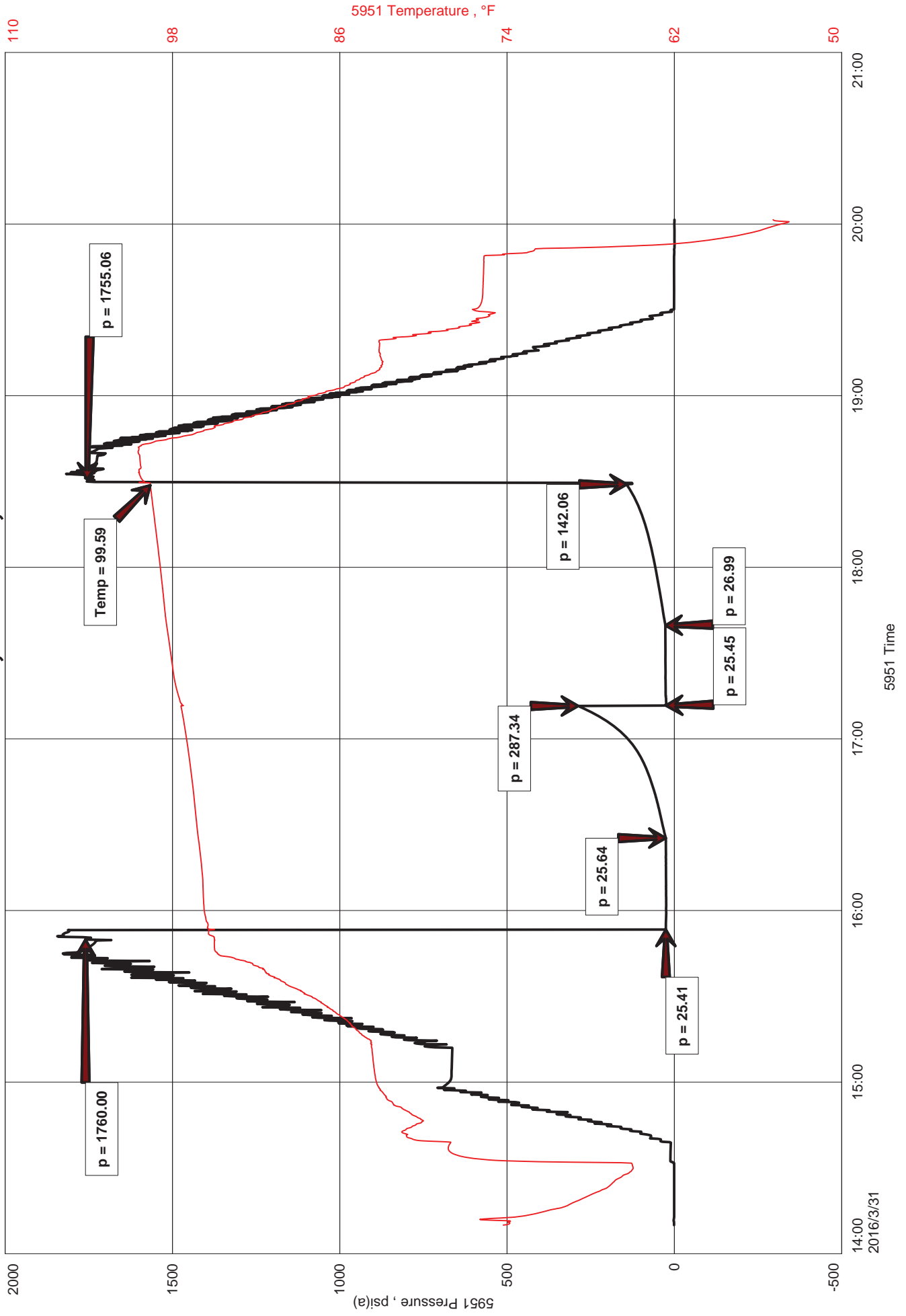
Recovered 25 ft. of SOCM 4" OIL, 96% MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Price Job _____
 Other Charges _____
 Remarks: TOOL SAMPLE: OCM 20" OIL, 80% MUD S. JOINT
J4 MRT (PRAM)
 Total _____

Time Set Packer(s) 3:53 A.M. / P.M. Time Started Off Bottom 6:23 A.M. / P.M. Maximum Temperature 100°F

Initial Hydrostatic Pressure..... (A) 1760 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 25 P.S.I. to (C) 26 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 287 P.S.I.
 Final Flow Period..... Minutes 30 (E) 25 P.S.I. to (F) 27 P.S.I.
 Final Closed In Period..... Minutes 45 (G) 142 P.S.I. THANKS!
 Final Hydrostatic Pressure..... (H) 1755 P.S.I. [Signature]

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MULL-HEYEN #1-24, DST #4, 3592'-3626'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 14:10
 TIME OFF: 20:02

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN1DST4

Company LD Drilling Inc. Lease & Well No. Mull-Heyen #1-24
 Contractor LD Drilling Charge to LD Drilling Inc.
 Elevation 1849' KB Formation SIMPSON Effective Pay _____ Ft. Ticket No. F430
 Date 3-31-16 Sec. 24 Twp. _____ Range 22s S Range _____ County Stafford State KANSAS
 Test Approved By Kim Shoemaker Diamond Representative Jake Fahrenbruch

Formation Test No. 4 Interval Tested from 3592 ft. to 3626 ft. Total Depth 3626 ft.

Packer Depth 3587 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3592 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3575 ft. Recorder Number 5591 Cap. 5000 P.S.I.

Bottom Recorder Depth (Outside) 3597 ft. Recorder Number 5584 Cap. 5000 P.S.I.

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

Mud Type CHEMICAL Viscosity 57 (1# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9.0 Water Loss 15.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 18,000 P.P.M. Drill Pipe Length 3,564 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number _____ Test Tool Length 28 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. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak blow, increased to 2.75".

2nd Open: Weak blow, increased to 1".

Recovered 25 ft. of SOCM 4% oil, 96% mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: Tool sample: OCM 20% oil, 80% mud

Price Job
Other Charges
Insurance
Total

Time Set Packer(s) 15:53 A.M. P.M. Time Started Off Bottom 18:23 A.M. P.M. Maximum Temperature 100 F

Initial Hydrostatic Pressure..... (A) 1760 P.S.I.

Initial Flow Period..... Minutes 30 (B) 25 P.S.I. to (C) 26 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 287 P.S.I.

Final Flow Period..... Minutes 30 (E) 25 P.S.I. to (F) 27 P.S.I.

Final Closed In Period..... Minutes 45 (G) 142 P.S.I.

Final Hydrostatic Pressure..... (H) 1755 P.S.I.

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Mull-Heyen #1-24
Company Name	LD Drilling, Inc.
Formation	DST #5, Arbuckle, 3588'-3655'
Test Type	Bottom-Hole w/safety joint
Surface Location	Sec 24-22s-12w-Stafford Co.-KS
KB Elevation (SL)	1849.000
Gauge Name	5951
Start Test Date	2016/04/01
Start Test Time	03:47:00
Final Test Date	2016/04/01
Final Test Time	11:14:00
Job Number	F431
Contact	LD Davis
Site Contact	Kim Shoemaker

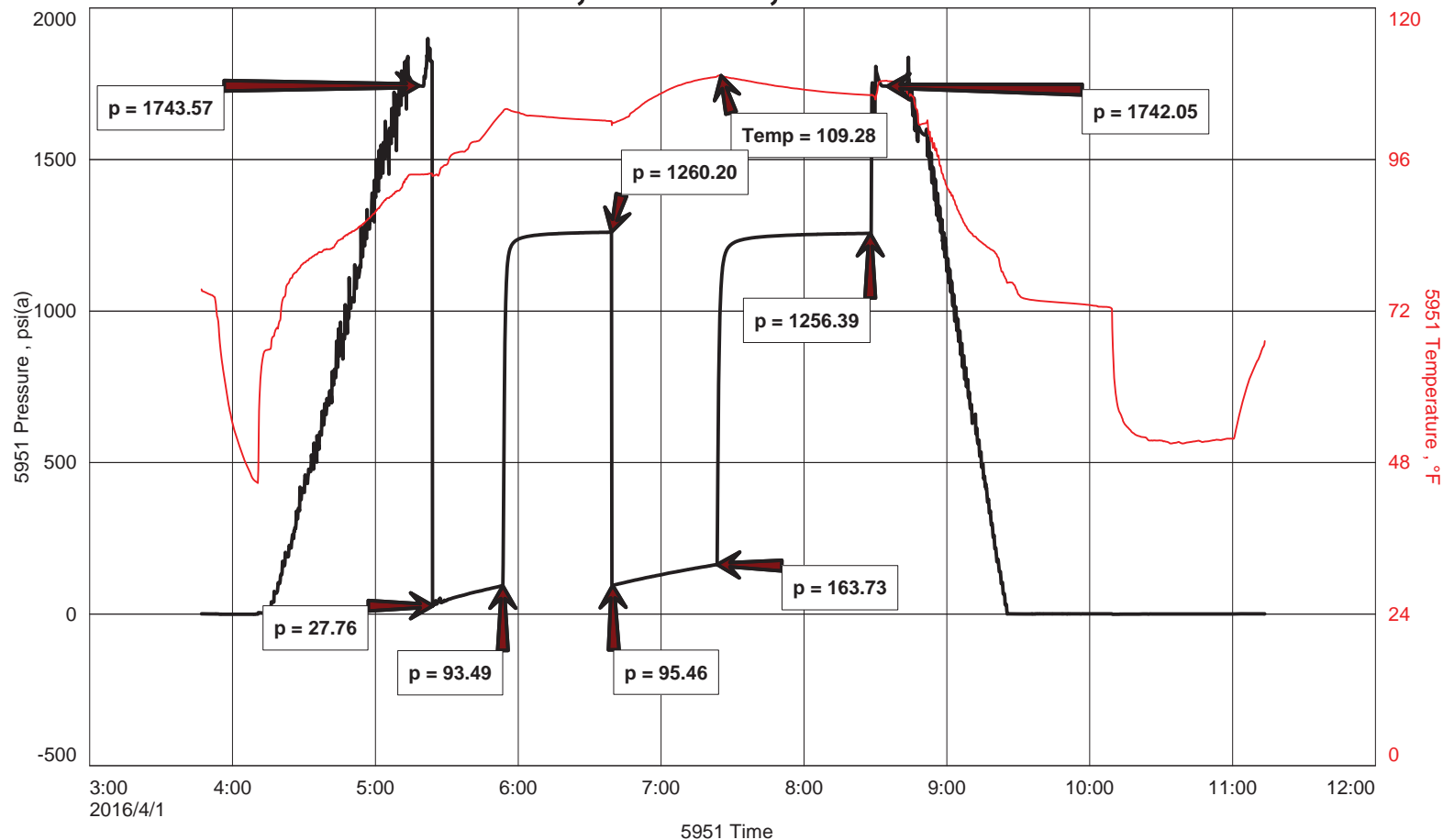
TEST RESULTS

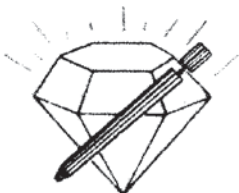
Initial flow, fair blow, increased to BOB in 16.5 minutes. No blowback.
 Final flow, fair blow, increased to BOB in 28 minutes. Surface blowback, died.

TOTAL FLUID RECOVERED: 320'

- 65' SOCWM 4% oil, 30% wtr, 66% mud
- 255' Salt Water 100% wtr
- Chlorides: 25,000 PPM
- RW: .32 ohm @ 60 F
- PH: 8.0

MULL-HEYEN #1-24, DST #5, ARBUCKLE 3588'-3655'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

DRILL-STEM TEST TICKET

FILE: MULL-HEYEN 12075

ON LOCATION: 03:30
 START RECORDERS: 03:47
 STOP RECORDERS: 11:14

Company LD DRILLING, INC. Lease & Well No. MULL-HEYEN #1-24
 Contractor LD DRILLING Charge to LD DRILLING INC.
 Elevation 1849 KB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. F431
 Date 4-1-16 Sec. 24 Twp. 22S Range 12W County STAFFORD State K.S.
 Test Approved By KEM SHOENAKER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 5 Interval Tested from 3588 ft. to 3655 ft. Total Depth 3655 ft.
 Packer Depth 3583 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3588 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3561 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3593 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHROMA Viscosity 54 (1" @ 100) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 12.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 10000 P.P.M. Drill Pipe Length 3560 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 S. Joint Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 67 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 IN in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: FAER BLOW, INC TO BOB IN 16 1/2 MINUTES.
 2nd Open: FAER BLOW, INC TO BOB IN 28 MIN. SURFACE BLOWN, DIED.

Recovered 65 ft. of SOC W/M 4" ODL, 30" WTR, 66" MUD
 Recovered 255 ft. of SALT WATER 100" WTR
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of *Tore up both packers*
 Recovered _____ ft. of _____

Remarks: TOTAL RECOVERED FLUID: 320'
RW: .32 L @ 60°F
CHLORIDES: 25000 PPM PH: 8.0

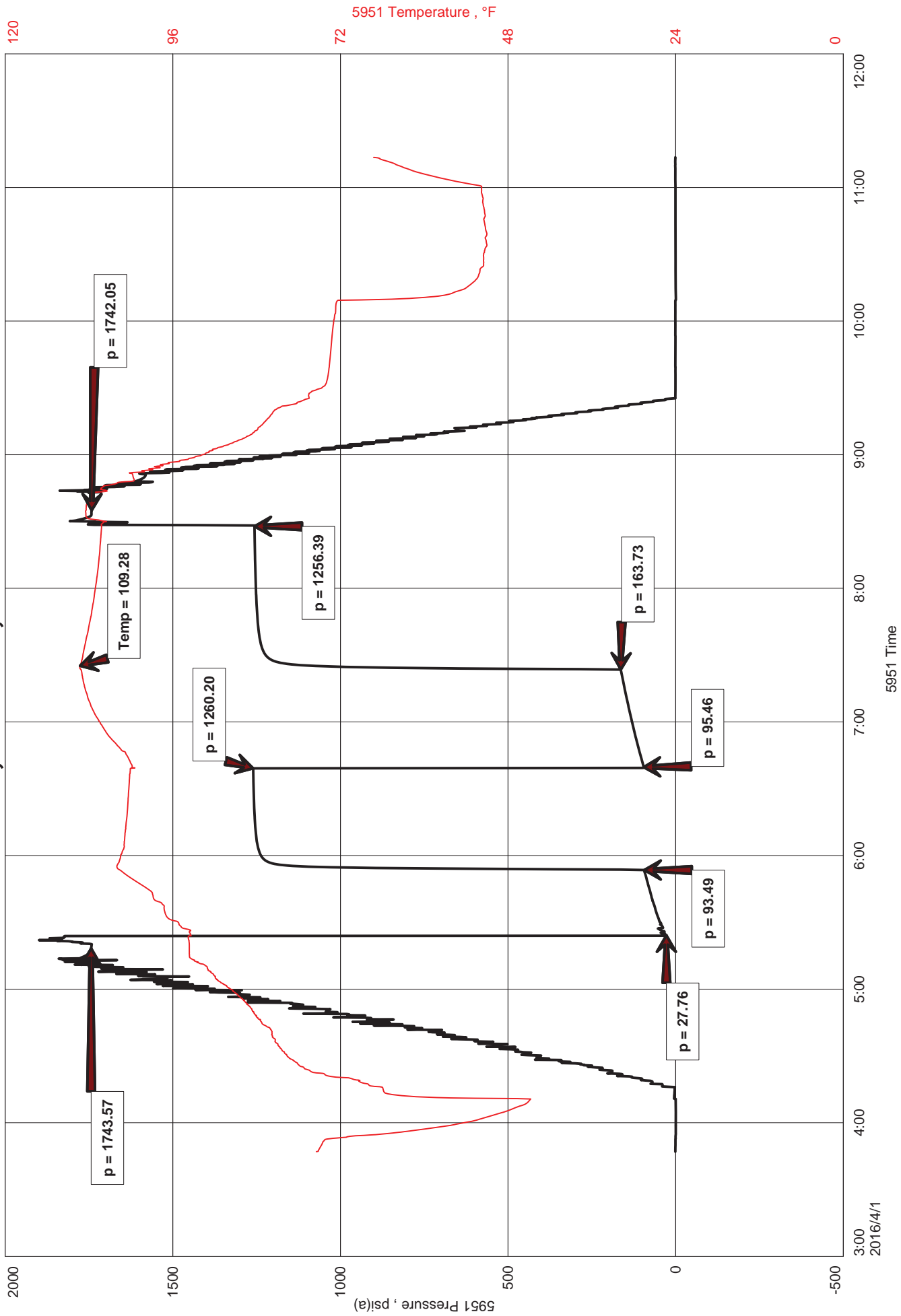
Price Job
Reg Packer x 2
Other Charges
<u>S. JOINT</u>
<u>84 MWT (P.P.M.)</u>
Total

Time Set Packer(s) 05:25 A.M. P.M. Time Started Off Bottom 08:25 A.M. P.M. Maximum Temperature 109°F

Initial Hydrostatic Pressure..... (A) 1744 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 28 P.S.I. to (C) 93 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1260 P.S.I.
 Final Flow Period..... Minutes 45 (E) 95 P.S.I. to (F) 164 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1256 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 1742 P.S.I. Jake Fahrenbruch

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MULL-HEYEN #1-24, DST #5, ARBUCKLE 3588'-3655'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 03:47
 TIME OFF: 11:14

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN1DST5

Company LD Drilling Inc. Lease & Well No. Mull-Heyen #1-24
 Contractor LD Drilling Charge to LD Drilling Inc.
 Elevation 1849' KB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. F431
 Date 4-1-16 Sec. 24 Twp. 22s S Range 12w W County Stafford State KANSAS
 Test Approved By Kim Shoemaker Diamond Representative Jake Fahrenbruch

Formation Test No. 5 Interval Tested from 3588 ft. to 3655 ft. Total Depth 3655 ft.
 Packer Depth 3583 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3588 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3561 ft. Recorder Number 5591 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3593 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 54 (1# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 12.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 10,000 P.P.M. Drill Pipe Length 3,560 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 67 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{34' perms} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Fair blow, increased to BOB in 16.5 minutes.
 2nd Open: Fair blow, increased to BOB in 28 minutes. Surface blowback, died.

Recovered 65 ft. of SOCWM 4% oil, 30% wtr, 66% mud
 Recovered 255 ft. of Salt Water 100% wtr
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: TOTAL RECOVERED FLUID: 320'
Chlorides: 25,000 PPM
RW: .32 ohm @ 60 F PH: 8.0

Time Set Packer(s) 05:25 ^{A.M.} P.M. Time Started Off Bottom 08:25 ^{A.M.} P.M. Maximum Temperature 109 F

Initial Hydrostatic Pressure..... (A) 1744 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 28 P.S.I. to (C) 93 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1260 P.S.I.
 Final Flow Period..... Minutes 45 (E) 95 P.S.I. to (F) 164 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1256 P.S.I.
 Final Hydrostatic Pressure..... (H) 1742 P.S.I.

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KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-584-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

WELL # 1-24 MULL-HEYEN

FIELD HEYEN

LOCATION 2180' FNL 1680' FEL

SECTION 24 T15P 22S R0E 12W

COUNTY STAFFORD STATE KANSAS

CONTRACTOR L. D. DRILLING, INC.

DATE 3-25-16 COMPLETION 4-2-16

WELL NO. 3750 LTD. NO. 3749

WELL TYPE 2897 TYPE NO. CHEMICAL

ELEVATIONS

KB 1849

DF _____

EL 1844

Measurements Are All
From 1849 KB

CASING

SURFACE 8 5/8" @ 341'

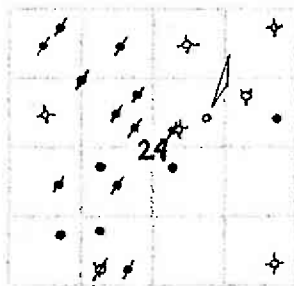
PRODUCTION 5 1/2" @

ELECTRICAL SURVEYS

DUAL IND., DENS-N. MICRO

SAMPLES SAVED FROM	3000	TO	3750
DRILLING TIME KEPT FROM	2800	TO	3750
SAMPLES EXAMINED FROM	3000	TO	3750
GEOLOGICAL SUPERVISION FROM	3200	TO	3750
GEOLOGIST ON WELL	<u>KIM B. SHOEMAKER</u>		

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	578+ 1271	582+ 1267
B/ANN.	599+ 1260	603+ 1246
HEEBNER	3120- 1271	3121- 1272
BROWN LIME	3253- 1404	3255- 1406
LANSING	3275- 1426	3282- 1433
B/KC	3507- 1658	3507- 1658
VIOLA	3546- 1697	3550- 1701
SIMPSON	3594- 1745	3595- 1746
ARBuckle	3658- 1809	3650- 1801



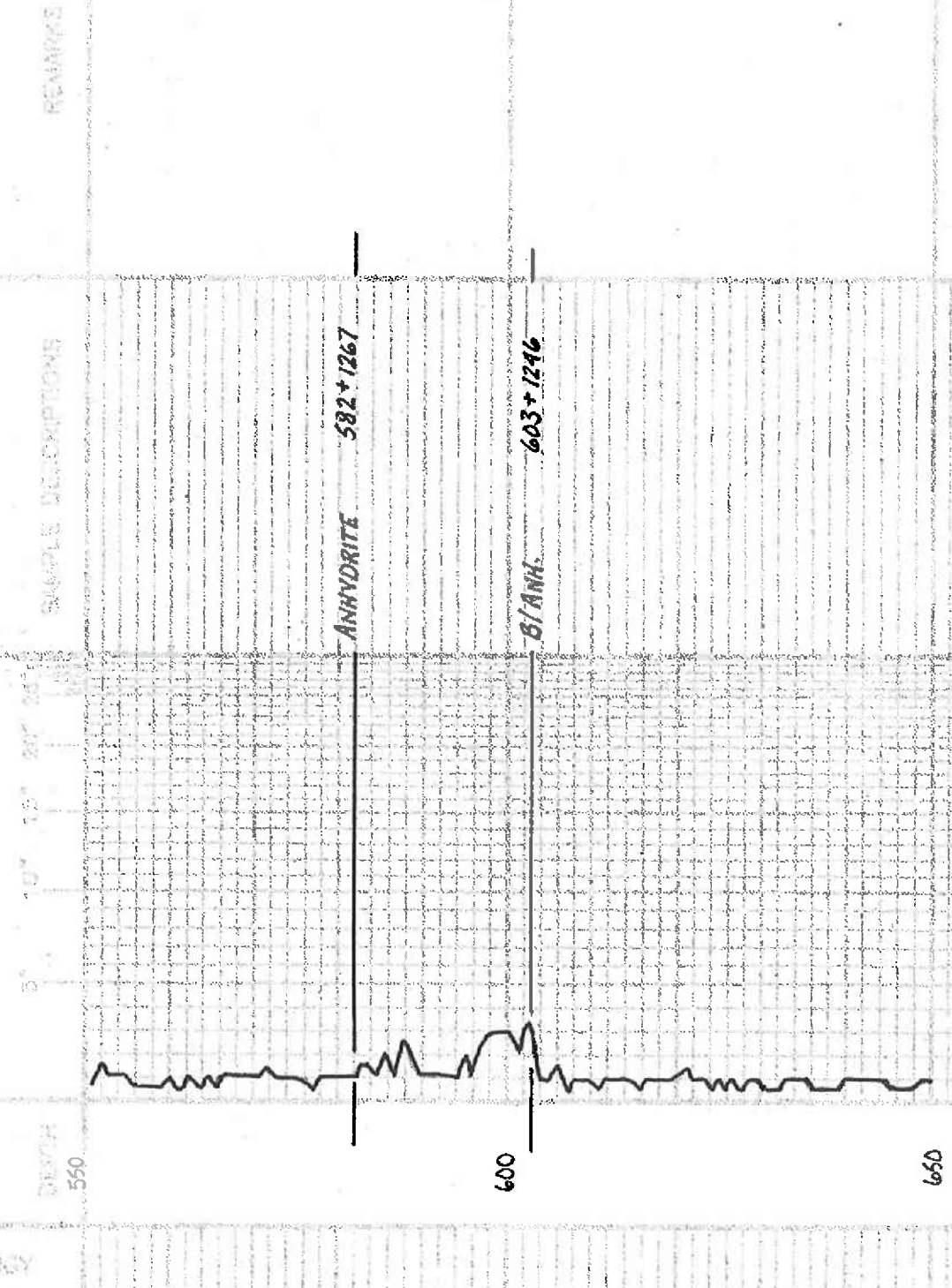
API: 15-185-2395B

3-25-16 SAND
 3-26 @ 344'
 3-27 @ 1725'
 3-28 @ 2585'
 3-29 @ 3333'
 3-30 @ 3480'
 3-31 @ 3590'
 4-1 @ 3655'
 4-2 @ 3750'

LEGEND

- Anhydrite
- B/ANN.
- Heebner
- Brown Lime
- Lansing
- B/KC
- Viola
- Simpson
- Arbuckle
- Carbonate
- Sandstone
- Shale
- Sandstone
- Limestone
- Gypsum
- Salt
- Sandstone

DRILLING TIME IN MINUTES
 PER FOOT
 Rate of Penetration (RPM)

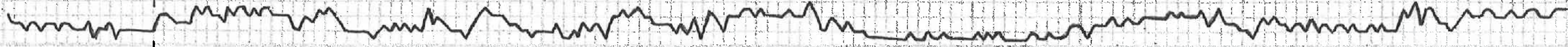


2800

ТОРЕНА 2828-979

2900

3000



Samples are Logged

Sh. Gray

ls. to foss. sh. foss.

Sh. Red. Dsg.

Δ Gy.

ls. sh. foss. - Cobble

ls. to foss. sh. (Dolomite)

ls. to red. sh. foss. - VSL - Chly

ls. to sh. VSL Foss.

3100

3200

3300

3400

LS. Tan. V.S. Foss. V.S. Chly. w/ Bl. Br. Dots

LS. Tan. L. Br. V.S. Foss.

HEBNER 3121-1277
Sh. Blk. Carb.

LS. G. Sp.

LS. wh. V.S. Foss. S.A.

TORONTO

LS. wh. V.S. Foss. V.S. Chly.

DOUGLAS

Sh. Bl. S.A. Gummy

Sh. L. Blue Gy. Silty

Sh. L. G. Gy. Silty

Sh. G. L. Gy. Silty

Sh. L. Gy. Soft Gummy

BROWN LIME 3255-1406

LS. G. V.S. Foss.

LANS LOG

Sh. L. G.

Sh. Bl.

LANSING 3282-1433

LS. wh. L. Gy. S. Foss. S.A.

LS. Tan. S. Foss.

Sh. L. G. Carb.

LS. Tan. Foss. B. Gy. p.

Bl. wh. Sp. S.A. V.S. V.S. Foss. S.A.

Sh. L. Blue

LS. Bl. Gy. Foss. F. R. Gy. p.

LS. L. Gy. V.S. Foss. Silty F. R. Gy. p.

LS. Bl. Gy. R. S. Foss.

Sh. L. G.

LS. Tan. L. Br. V.S. Foss. F. R. Gy. p.

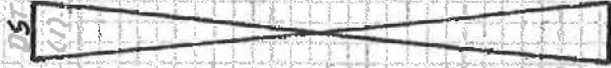
LS. V.S. Foss. V.S. Foss. F. R. Gy. p.

VIS. 59

MTC. 88

ML. 8

CHL. 2800



15 (1)

DST. (2) 3215-3355

150 DEN: Bottom bucket 1 1/2 min.

24 DEN: Imm. GTS 30 min. TSTM 88:

30-45-45-60

Re. 45' GCH

(10' to 80' M)

PP. 17:35 22:38 #

SIP: 889-857 #

Temp

99.4 F

DST. (2) 3403-3480

150 DEN: Bottom bucket 1.25 min.

24 DEN: Imm. GTS 15 min.

30-45-45-60

Re. 50' V.S. Foss.

(55' to 2' to 100')

TP: 185'

LS. Bl. Silty

Sh. Gy. Silty

LS. Bl. Silty

88' Blue

88' Bottom

88' Bucket

32,000 G.D.

88' (100')

88' (100')



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

24-22-12

FIELD SERVICE TICKET
1718 13432 A

DATE _____ TICKET NO. _____

DATE OF JOB 4-2-16 DISTRICT Pratt		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 Mull-Heven WELL NO. 1-24						
ADDRESS		COUNTY Stafford STATE KS						
CITY STATE		SERVICE CREW Matta, Ernst, McGraw						
AUTHORIZED BY		JOB TYPE: cnu 5 1/2 long string						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 4-2-16 DATE	ARR PM	TIME
27463	1						ARR PM	2:30
						ARRIVED AT JOB	ARR PM	6:00
73768	.25					START OPERATION	ARR PM	8:46
						FINISH OPERATION	ARR PM	9:35
						RELEASED	ARR PM	10:15
						MILES FROM STATION TO WELL		45

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA-2 CRT	SK	150		2,550 00
CP 103	60/40 P02	SK	30		360 00
CC 102	celloflak	lb	38		140 60
CC 111	salt	lb	816		408 00
CC 113	gypsum	lb	705		528 76
CC 129	FIA 322	lb	113		847 50
CC 201	Gilsonite	lb	900		603 00
CF 607	LATCH DOWN plug + baffle 5 1/2	EA	1		400 00
CF 1251	AutoFill float shoe 5 1/2	EA	1		360 00
CF 1651	Turbolizer 5 1/2	EA	8		880 00
CF 1901	BASKET 5 1/2	EA	1		290 00
CC 151	Mud flush	GA1	1,000		1,500 00
E100	Ru. miles	Mi	45		202 50
E101	heavy eq. miles	Mi	90		675 00
E113	prop + bulk del.	TA	376		939 38
CE 204	DEPTI charge 3001-4000'	Lhr	1		2,160 00
CE 240	blend + mix	SK	180		252 00
CE 504	plug cont	SK	1		280 00
5003	54 Per. visor	EA	1		175 00
SUB TOTAL					13,521 73
CHEMICAL / ACID DATA:		SERVICE & EQUIPMENT		%TAX ON \$	
		MATERIALS		%TAX ON \$	
TOTAL					6,760 86

SERVICE REPRESENTATIVE <i>Mike Matta</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>X [Signature]</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	---

FIELD SERVICE ORDER NO.

Customer L.D. Drilling	Lease No.	Date 4-2-16
Lease Mull-Haven	Well # 1-24	
Field Order # 13432	Station Pratt	Casing 5 1/2
		Depth 3750.5
Type Job CNW 5 1/2 long string	Formation	County STAFFORD
		State KS
		Legal Description 24-22-12

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		150 150 sacks	A7-2	RATE 10.25 gpm	PRESS 10.25 gpm	ISIP .870 Flw 322
Depth 3750.5	Depth	From	To	Pre Pad	Max	1/4 #	6 #	5 Min.
Volume 11.2	Volume	From	To	Pad	30 sacks	60 / 40 ASZ	2 % 901	10 Min.
Max Press 1.800	Max Press	From	To	Frac	Avg			15 Min.
Well Connection P.C.	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 3726.24	Packer Depth	From	To	Flush	90.1	Gas Volume		Total Load

Customer Representative L.D.	Station Manager Kevin Golobey	Treater Mike Mattal
Service Units 37586	27463	70959 73768
Driver Names Mattal	EMST	McGraw

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00					ON location / SAFETY meeting
6:00					Run 5 1/2 14" casing BASKET ON #4
					CENT ON 1, 3, 5, 7, 9, 11, 13, 15
7:50					CSNG ON BOTTOM
7:56					HOOK TO CSNG / BREAK CORE W. RIG
8:46	300		24	4	PUMP 1000 GALS mud FLUSH
8:52	400		5	5	PUMP 5 bbl WATER
8:53	450		39.5	5.5	Mix 150 SXS @ 14.8 PPG
9:01			4	3	WASH PUMP + LINE / release plug
9:04				6.5	START PUMP.
9:13	450		60	6	LIFT PRESSURE
9:18	800		88	3	SLOW RATE
9:19	1,800		909		plug DOWN, released + held
9:30			7		plug rat hole
					JOB complete
					Thank You!
					Mike Mattal
					Shawn + EJ



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ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 13291 A

DATE _____ TICKET NO. _____

DATE OF JOB: <u>3-26-16</u> DISTRICT _____	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, Inc.</u>	LEASE: <u>Multi-Horiz</u> 1-24 WELL NO. _____			
ADDRESS _____	COUNTY: <u>Stafford</u> STATE: <u>KS</u>			
CITY _____ STATE _____	SERVICE CREW: <u>Scott, Jake, Mark</u>			
AUTHORIZED BY: <u>L.D. Davis</u>	JOB TYPE: <u>8 5/8 Surface Pipe on W</u>			
EQUIPMENT# HRS	EQUIPMENT# HRS	EQUIPMENT# HRS	TRUCK CALLED	DATE AM PM TIME
<u>8679</u> <u>15</u>			ARRIVED AT JOB	<u>3/25/16</u> <u>8:15</u>
<u>7378</u> <u>13</u>			START OPERATION	<u>3/26/16</u> <u>12:45</u>
			FINISH OPERATION	<u>3/26/16</u> <u>1:15</u>
			RELEASED	<u>3/26/16</u> <u>1:45</u>
			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: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	A-con blend Cement	SK	175		3150.00
CP100C	Common cement	SK	175		2800.00
CC102	Cellofloc	lb	88		325.60
CC109	Calcium chloride	lb	825		866.25
CF153	Wooden Cement Plug 8 5/8	EA	1		160.00
E100	Unit Mileage charge pickups	MI	45		202.50
E101	Heavy Equipment Mileage	MI	90		675.00
E113	Prop + Bulk Delivery Charge	TM	743		1856.25
CE200	Depth Charge 0-500'	Yds	1		1000.00
CE240	Blending + Mixing Service Chrg	SK	550		490.00
CE504	Plug Container Utilization	Job	1		250.00
300 SM	Service Supervisor first 8 hrs	EA	1		175.00

SUB TOTAL 11,950.60

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	<u>16,597.50</u>

SERVICE REPRESENTATIVE: <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u>
FIELD SERVICE ORDER NO. _____	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>L.D. Drilling, Inc</i>	Lease No.	Date <i>3/26/16</i>
Lease <i>Mull - Herten</i>	Well # <i>1-24</i>	
Field Order # <i>15291 A</i>	Station <i>Pratt, KS</i>	Casing <i>5 7/8</i>
		Depth <i>341'</i>
Type Job <i>8 1/2" Surface pipe</i>	Formation <i>CHN</i>	Legal Description <i>24-22-12</i>
		County <i>Stafford</i>
		State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>8 1/2" 2 3/4"</i>							
Depth <i>341</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>21168</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>500</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>8 1/2"</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <i>Rick</i>	Station Manager <i>Kenn Gendley</i>	Treater <i>Scott Graves</i>
--	--	--------------------------------

Service Units <i>70752</i>	<i>78</i>	<i>86774</i>	<i>70959</i>	<i>73768</i>				
Driver Names <i>Scott</i>	<i>Jo</i>	<i>M</i>	<i>R</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:15</i>					<i>On location Safety Meeting Rig up</i>
					<i>Break Circulation</i>
<i>12:45</i>	<i>130</i>			<i>5</i>	<i>Pump H₂O spacer</i>
<i>12:47</i>	<i>170</i>		<i>.5</i>	<i>5.5</i>	<i>Mix 175 SKS A-con 12 pag</i>
<i>1:01</i>	<i>230</i>		<i>76.98</i>	<i>5.5</i>	<i>Mix 175 SKS Common 15.6 pag</i>
<i>1:08</i>	<i>40</i>		<i>37.40</i>		<i>Shut down Cement at Surface</i>
<i>1:09</i>					<i>Release Plug</i>
<i>1:10</i>	<i>1:20</i>			<i>5.5</i>	<i>Shut displacement</i>
<i>1:15</i>	<i>225</i>		<i>20.5</i>		<i>Shut down</i>
					<i>Job Complete</i>