



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1295023
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: _____

1295023

Operator Name: _____ Lease Name: _____ Well #: _____

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

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

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

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> <i>(Submit ACO-4)</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	RIEBEL 1-9
Doc ID	1295023

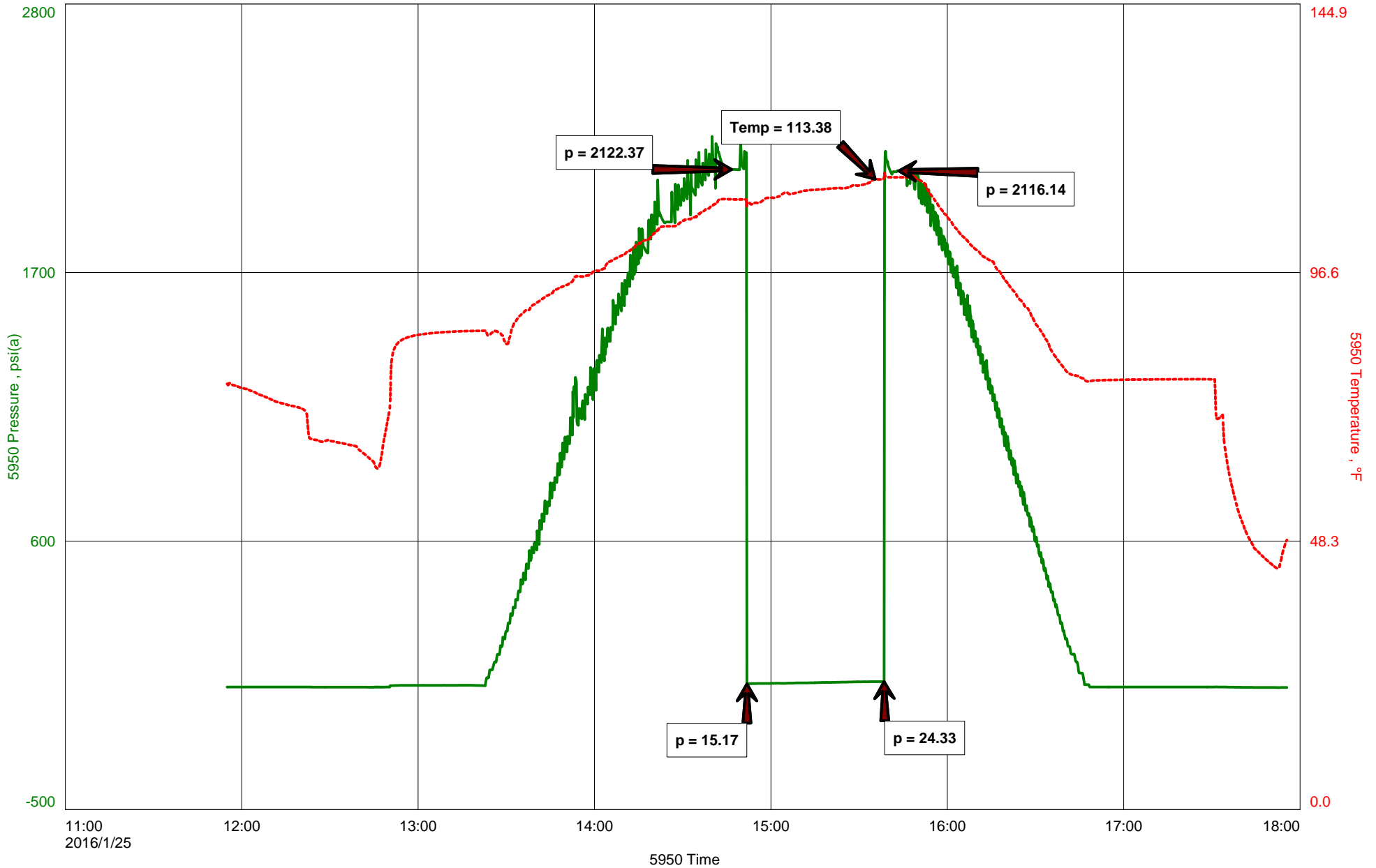
Tops

Name	Top	Datum
ANHYDRITE	2062	+651
BASE ANHYDRITE	2092	+621
STOTLER	3548	-835
HEEBNER	3986	-1273
LANSING	4027	-1314
STARK	4290	-1577
BASE KANSAS CITY	4368	-1655
MARMATON	4398	-1685
FORT SCOTT	4542	-1829
CHEROKEE	4565	-1852
MISSISSIPPI	4652	-1939

L.D. Drilling Inc
Dst #1 L/KC 200' Zone 4283-4310'
Start Test Date: 2016/01/25
Final Test Date: 2016/01/25

Riebel #1-9
Formation: Dst #1 L/KC 200' Zone 4283-4310'
Pool: Infield
Job Number: P0099

Riebel #1-9





Hoisington, Kansas

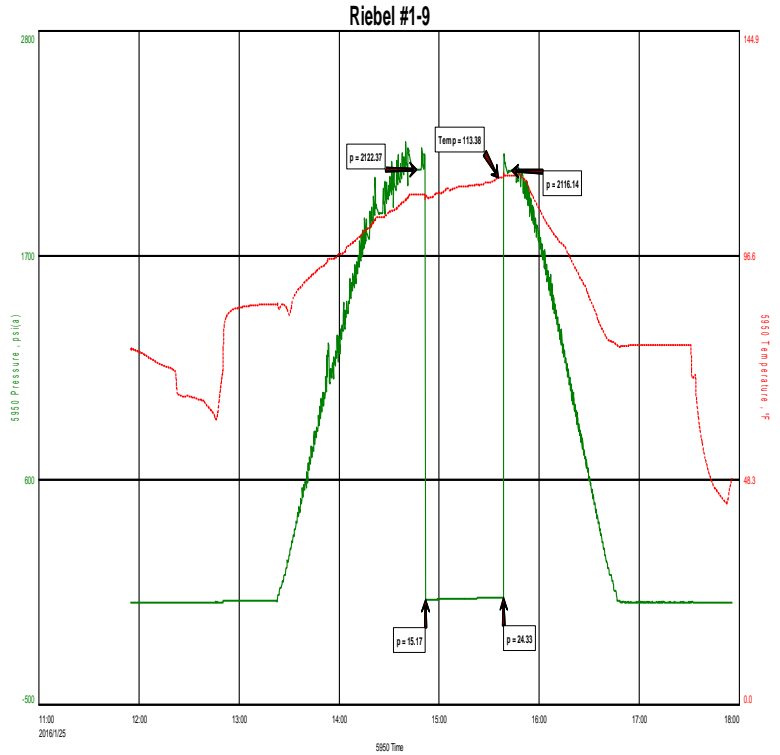
Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name L.D. Drilling Inc

Contact	L.D. Davis
Well Name	Riebel #1-9
Unique Well ID	Dst #1 L/KC 200' Zone 4283-4310'
Surface Location	Sec9-19s-27w Lane County
Field	Infield
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	L.D. Drilling Inc

Formation	Dst #1 L/KC 200' Zone 4283-4310'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2016/01/25
Start Test Time	11:55:00
Final Test Time	17:55:00
Job Number	P0099
Report Date	2016/01/25
Prepared By	Michael Carroll



TEST RECOVERY

Remarks	Recovery:	18' Mud	100%M
	Total Fluid:	18'	
	Tool Sample:	100%M	



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: RIEBEL1-9DST#1

TIME ON: 1155
TIME OFF: 1755

Company L.D. DRILLING INC Lease & Well No. RIEBEL #1-9
Contractor L.D. DRILLING Charge to L.D. DRILLING INC
Elevation 2707EST Formation L/KC 200' ZONE Effective Pay _____ Ft. Ticket No. P0099
Date 1-25-16 Sec. 9 Twp. _____ 19 S Range _____ 27 W County LANE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative Michael Carroll

Formation Test No. 1 Interval Tested from 4283 ft. to 4310 ft. Total Depth 4310 ft.
Packer Depth 4278 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4283 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4271 ft. Recorder Number 5950 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4287 ft. Recorder Number 0230 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 48 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4700 P.P.M. Drill Pipe Length 4250 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 27 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.

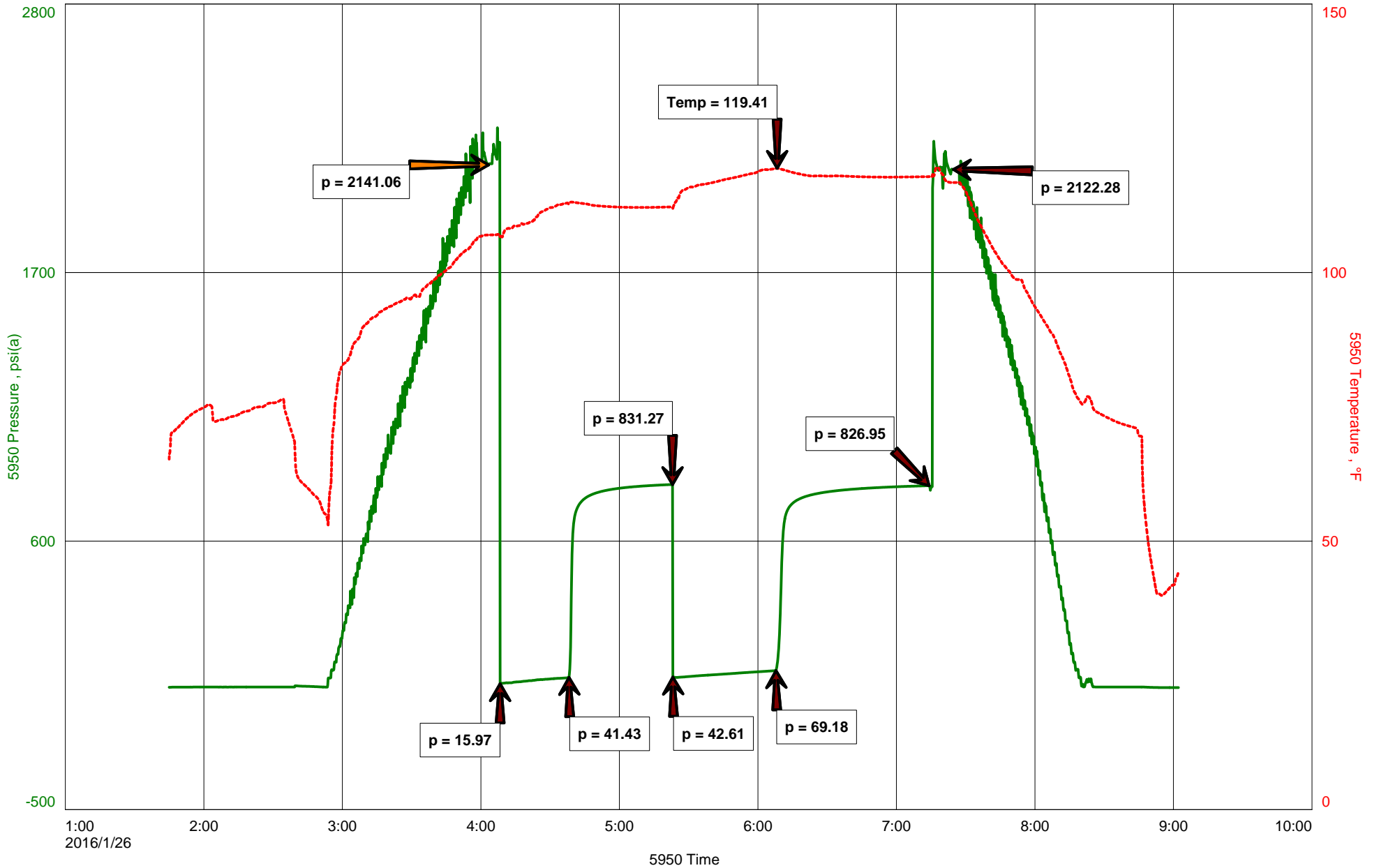
Blow: 1st Open: WSB-BUILT TO 1 1/4" IN 30 MINUTES
2nd Open: _____

Recovered <u>18</u> ft. of <u>MUD 100%M</u>	Price Job Other Charges Insurance Total
Recovered <u>18</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	
TOOL SAMPLE: <u>100%M</u>	

Time Set Packer(s) 2:50 P.M. A.M. P.M. Time Started Off Bottom 3:30 A.M. P.M. Maximum Temperature 113
Initial Hydrostatic Pressure..... (A) 2122 P.S.I.
Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 24 P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) 2116 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.

Riebel #1-9





Hoisington, Kansas

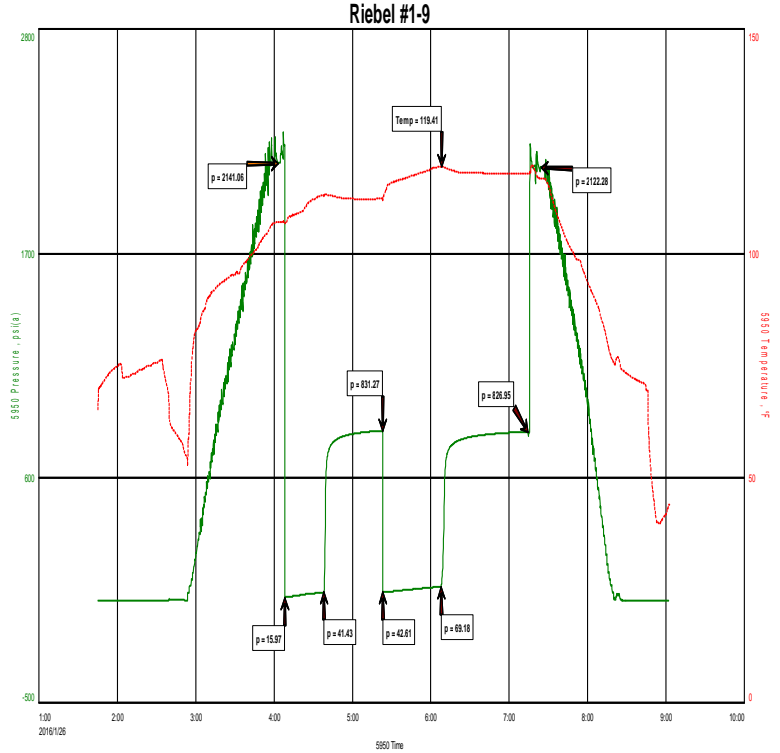
Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name L.D. Drilling Inc

Contact	L.D. Davis
Well Name	Riebel #1-9
Unique Well ID	Dst #2 L/KC 220' Zone 4321-4356'
Surface Location	Sec9-19s-27w Lane County
Field	Alamota South
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	L.D. Drilling Inc

Formation	Dst #2 L/KC 220' Zone 4321-4356'
Well Fluid Type	06 Water
Test Purpose	Initial Test
Start Test Date	2016/01/26
Start Test Time	01:45:00
Final Test Time	09:05:00
Job Number	P0100
Report Date	2016/01/26
Prepared By	Michael Carroll



TEST RECOVERY

Remarks	Recovery:	106'	MW	45%W	55%M
	Total Fluid:	106'			
	Tool Sample:	1%O	56%W	43%M	
	Chlorides	38000 PPM			
	PH	7			
	RW	.4 @ 30 Degrees			



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: RIEBEL1-9DST#2

TIME ON: 0145
TIME OFF: 0905

Company L.D. DRILLING INC Lease & Well No. RIEBEL #1-9
Contractor L.D. DRILLING Charge to L.D. DRILLING INC
Elevation 2707EST Formation L/KC 220' ZONE Effective Pay _____ Ft. Ticket No. P0100
Date 1-26-16 Sec. 9 Twp. _____ 19 S Range _____ 27 W County LANE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative Michael Carroll

Formation Test No. 2 Interval Tested from 4321 ft. to 4356 ft. Total Depth 4356 ft.
Packer Depth 4316 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4321 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4309 ft. Recorder Number 5950 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4325 ft. Recorder Number 0230 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 50 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 6.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4300 P.P.M. Drill Pipe Length 4288 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: 1/4" BLOW-BUILT TO 5 1/2" IN 30 MINUTES WSBB
2nd Open: WSB-BUILT TO 4 3/4" IN 45 MINUTES NOBB

Recovered 106 ft. of WM 45%W 55%M CHLORIDES 38000 PPM
Recovered 106 ft. of TOTAL FLUID PH 7
Recovered _____ ft. of _____ RW .4 @ 30 DEGREES

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>1%O 56%W 43%M</u>	Total

Time Set Packer(s) 4:05 A.M. A.M. P.M. Time Started Off Bottom 7:05 A.M. A.M. P.M. Maximum Temperature 119

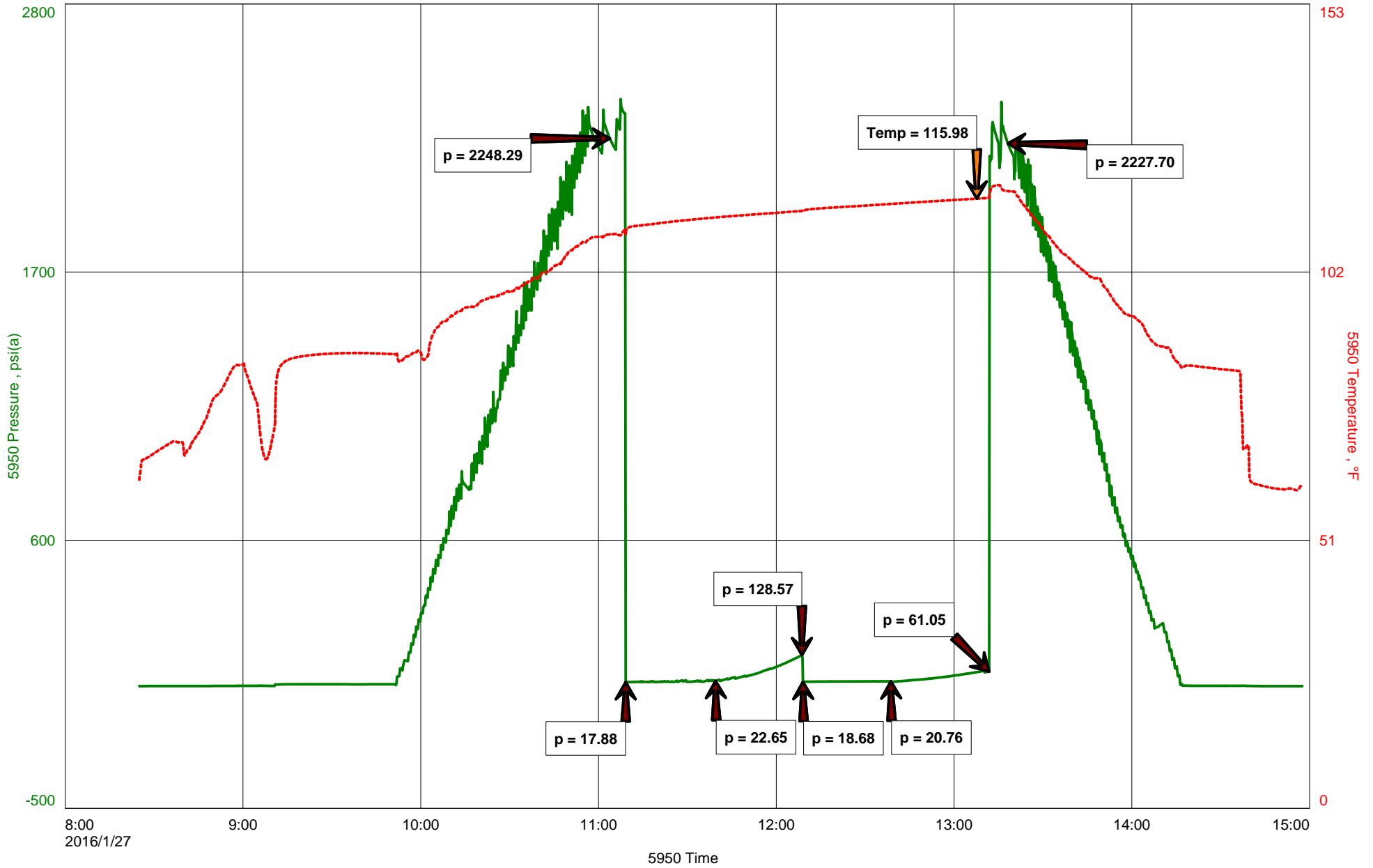
Initial Hydrostatic Pressure..... (A) 2141 P.S.I.
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 41 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 831 P.S.I.
Final Flow Period..... Minutes 45 (E) 43 P.S.I. to (F) 69 P.S.I.
Final Closed In Period..... Minutes 60 (G) 827 P.S.I.
Final Hydrostatic Pressure..... (H) 2122 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.

L.D. Drilling Inc
Dst #3 Marm/Cherokee 4470-4590'
Start Test Date: 2016/01/27
Final Test Date: 2016/01/27

Riebel #1-9
Formation: Dst #3 Marm/Cherokee 4470-4590'
Pool: Infield
Job Number: P0101

Riebel #1-9





Hoisington, Kansas

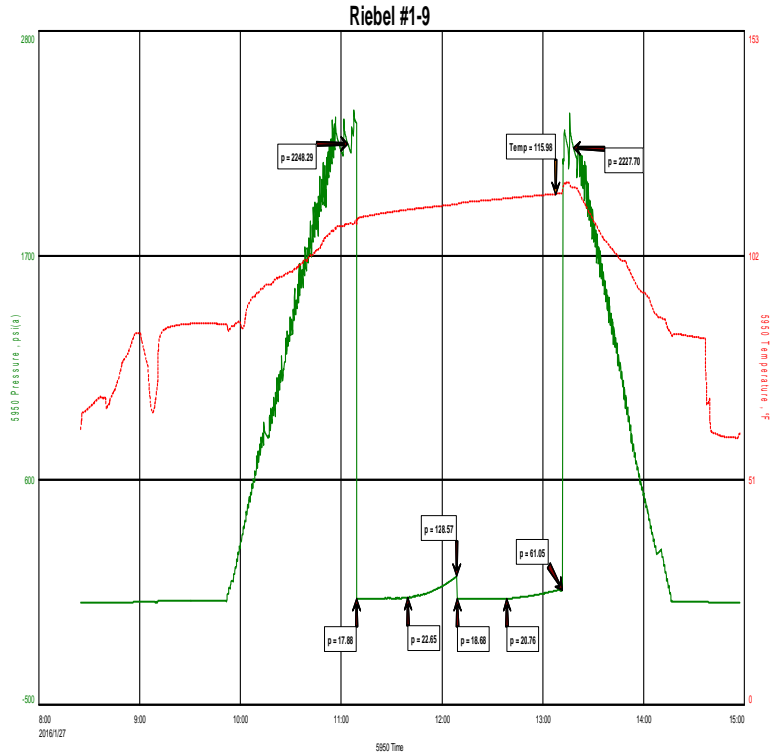
Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name L.D. Drilling Inc

Contact	L.D. Davis
Well Name	Riebel #1-9
Unique Well ID	Dst #3 Marm/Cherokee 4470-4590'
Surface Location	Sec9-19s-27w Lane County
Field	Alamota South
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	L.D. Drilling Inc

Formation	Dst #3 Marm/Cherokee 4470-4590'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2016/01/27
Start Test Time	08:25:00
Final Test Time	15:00:00
Job Number	P0101
Report Date	2016/01/27
Prepared By	Michael Carroll



TEST RECOVERY

Remarks	Recovery:	5'	Mud	100%M
	Total Fluid:	5'		
	Tool Sample:	100%M		



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: RIEBEL1-9DST#3

TIME ON: 0825
TIME OFF: 1500

Company L.D. DRILLING INC Lease & Well No. RIEBEL #1-9
Contractor L.D. DRILLING Charge to L.D. DRILLING INC
Elevation 2707EST Formation MARM/CHEROKEE Effective Pay _____ Ft. Ticket No. P0101
Date 1-27-16 Sec. 9 Twp. _____ 19 S Range _____ 27 W County LANE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative Michael Carroll

Formation Test No. 3 Interval Tested from 4470 ft. to 4590 ft. Total Depth 4590 ft.
Packer Depth 4465 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4470 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4458 ft. Recorder Number 5950 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4570 ft. Recorder Number 0230 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 55 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4700 P.P.M. Drill Pipe Length 4437 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 120(25A) 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 1/4" IN 30 MINUTES **NOBB**
2nd Open: NO BLOW-BUILT TO WSB IN 30 MINUTES **NOBB**

Recovered 5 ft. of MUD 100%M
Recovered 5 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Recovered _____ ft. of _____

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

Time Set Packer(s) 11:07 A.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 1:07 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 116

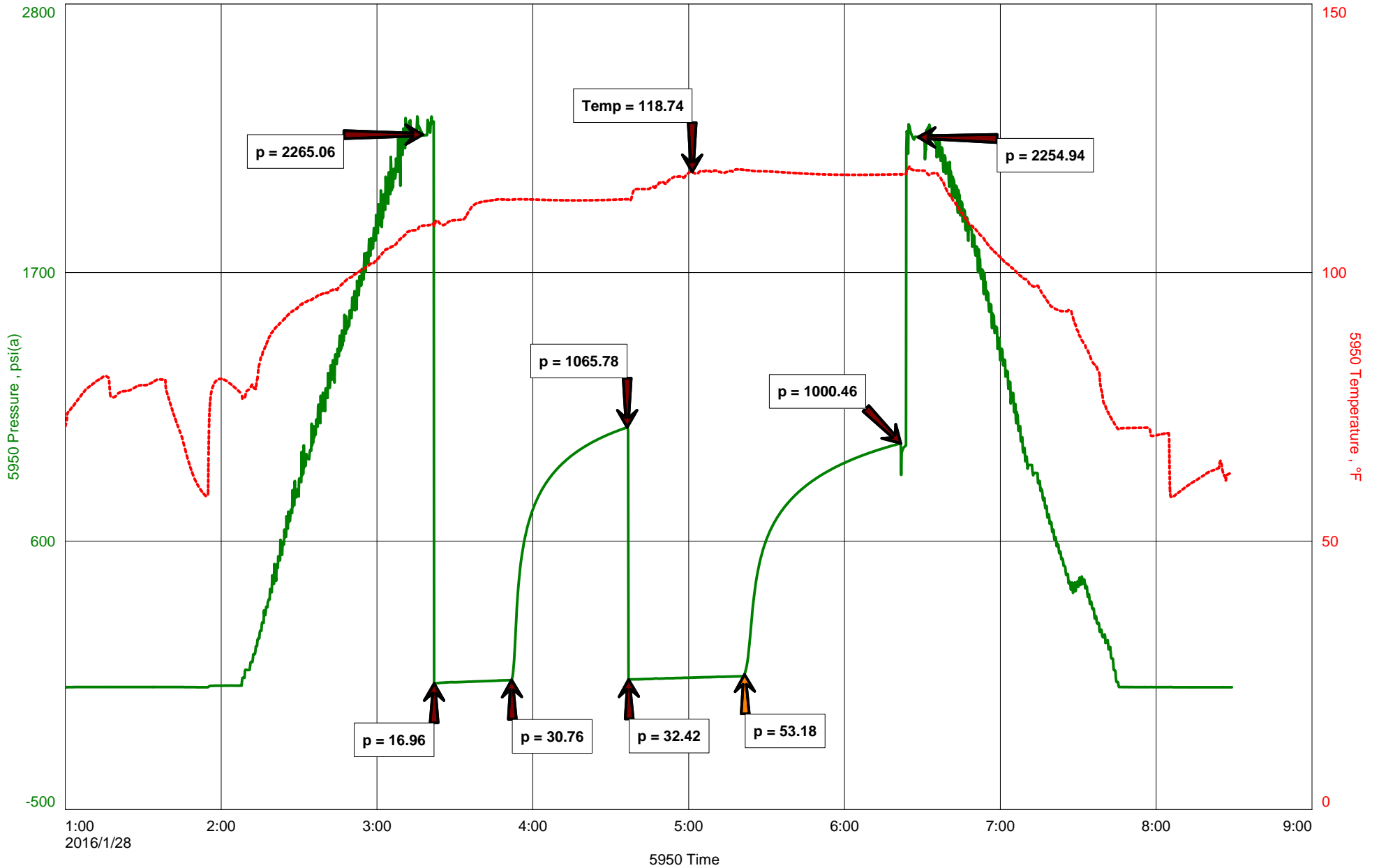
Initial Hydrostatic Pressure..... (A) 2248 P.S.I.
Initial Flow Period..... Minutes 30 (B) 18 P.S.I. to (C) 23 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 129 P.S.I.
Final Flow Period..... Minutes 30 (E) 19 P.S.I. to (F) 21 P.S.I.
Final Closed In Period..... Minutes 30 (G) 61 P.S.I.
Final Hydrostatic Pressure..... (H) 2228 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.

L.D. Drilling Inc
Dst #4 Cherokee Sand 4582-4642'
Start Test Date: 2016/01/28
Final Test Date: 2016/01/28

Riebel #1-9
Formation: Dst #4 Cherokee Sand 4582-4642'
Pool: Infield
Job Number: P0102

Riebel #1-9





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

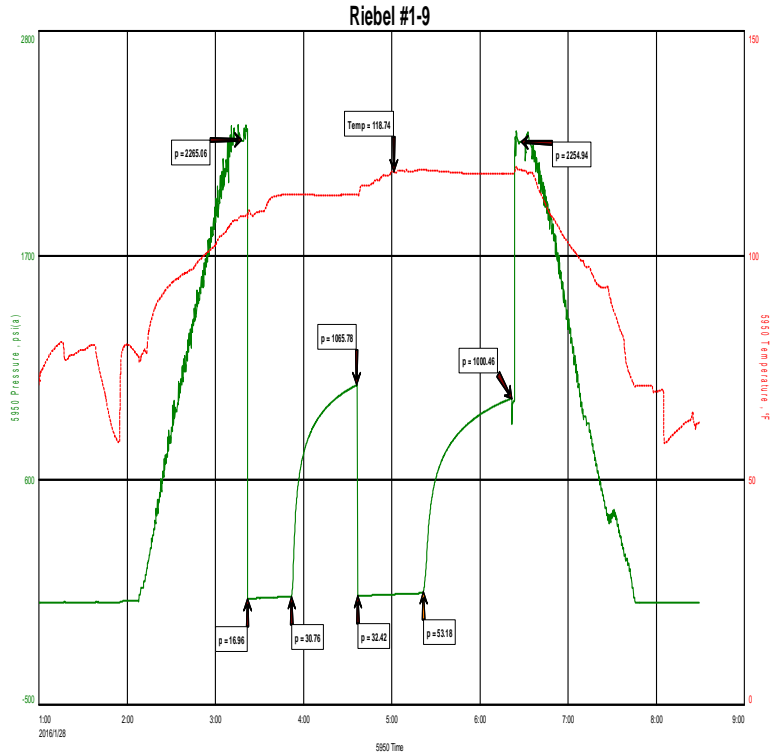
Hoisington, Kansas

General Information

Company Name L.D. Drilling Inc

Contact	L.D. Davis
Well Name	Riebel #1-9
Unique Well ID	Dst #4 Cherokee Sand 4582-4642'
Surface Location	Sec9-19s-27w Lane County
Field	Alamota South
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	L.D. Drilling Inc

Formation	Dst #4 Cherokee Sand 4582-4642'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2016/01/28
Start Test Time	01:00:00
Final Test Time	08:30:00
Job Number	P0102
Report Date	2016/01/28
Prepared By	Michael Carroll



TEST RECOVERY

Remarks	Recovery:	8'	Clean Oil	Gravity 35 @ 60 Degrees
		62'	SLOCM 2%O	98%M
	Total Fluid:	70'		
	Tool Sample:	12%O	8%W	80%M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: RIEBEL1-9DST#4

TIME ON: 0100
TIME OFF: 0830

Company L.D. DRILLING INC Lease & Well No. RIEBEL #1-9
Contractor L.D. DRILLING Charge to L.D. DRILLING INC
Elevation 2707EST Formation CHEROKEE SAND Effective Pay _____ Ft. Ticket No. P0102
Date 1-28-16 Sec. 9 Twp. _____ 19 S Range _____ 27 W County LANE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative Michael Carroll

Formation Test No. 4 Interval Tested from 4582 ft. to 4642 ft. Total Depth 4642 ft.
Packer Depth 4577 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4582 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4570 ft. Recorder Number 5950 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4619 ft. Recorder Number 0230 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 48 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.7 Water Loss 8.0 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 4200 P.P.M. Drill Pipe Length 4549 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 60(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: 1/4" BLOW-BUILT TO 3 3/4" IN 30 MINUTES WSBB
2nd Open: WSB-BUILT TO 2" IN 45 MINUTES NOBB

Recovered 8 ft. of CLEAN OIL GRAVITY 35 @ 60 DEGREES
Recovered 62 ft. of SLOCM 2%O 98%M
Recovered 70 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>12%O 8%W 80%M</u>	Total

Time Set Packer(s) 3:20 A.M. A.M. P.M. Time Started Off Bottom 6:20 A.M. A.M. P.M. Maximum Temperature 119

Initial Hydrostatic Pressure..... (A) 2265 P.S.I.
Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1066 P.S.I.
Final Flow Period..... Minutes 45 (E) 32 P.S.I. to (F) 53 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1000 P.S.I.
Final Hydrostatic Pressure..... (H) 2255 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
 316-884-9709 * WICHITA, KS

GEOLOGIST'S REPORT
 DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.
 LEASE *1-9 RIEBEL
 FIELD WILDCAT
 LOCATION 330' ENL $\frac{1}{2}$ 800' FEL
 SEC 9 TWP 19s RGE 27W
 COUNTY LANE STATE KANSAS
 CONTRACTOR L. D. DRILLING, INC.
 SPUD 1-19-16 COMP 1-29-16
 RTD 4750 LTD 4752
 MUD UP 3373 TYPE MUD CHEMICAL

ELEVATIONS
 KB 2713
 DF
 GL 2708
 Measurements Are All
 From 2713 KB

CASING
 SURFACE 8 5/8" @ 306'
 PRODUCTION 5 1/2" @
 ELECTRICAL SURVEYS
 DUAL IND, DENS-N. MICRO

SAMPLES SAVED FROM 3500 TO 4750
 DRILLING TIME KEPT FROM 3400 TO 4750
 SAMPLES EXAMINED FROM 3500 TO 4750
 GEOLOGICAL SUPERVISION FROM 3900 TO 4750
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2062-651	2059-654
B/ANH.	2092-621	2090-623
STOTLER	3648-835	3646-833
HEEBNER	3986-1273	3984-1271
LANSING	4027-1314	4024-1311
STARK	4290-1577	4285-1572
B/KC	4368-1655	4366-1653
MARMATON	4398-1685	4395-1682
FORT SCOTT	4542-1829	4539-1826
CHEROKEE	4565-1862	4562-1849
MISSISSIPPI	4652-1939	4648-1935



API: 15-101-22577

REMARKS

1-19-16, SPUD.
 1-20 @ 309'
 1-21 @ 1005'
 1-22 @ 2300'
 1-23 @ 3270'
 1-24 @ 3923'
 1-25 @ 4310'
 1-26 @ 4356'
 1-27 @ 4590'
 1-28 @ 4642'
 1-29 @ 4750'

LEGEND

- Dolomite
- Chert
- Oil Lims
- Limestones
- Carb sh
- Shale
- Sandstone
- Salt
- Anhydrite

DRILLING TIME IN MINUTES
 PER FOOT
 Rate of Penetration Increases

DEPTH
 2000

SAMPLE DESCRIPTIONS

REMARKS

LITHOLOGY

ANHYDRITE 2059-654

B/ANH. 2090-623

3400

3500

3600

Samples are tagged

Sh. Hlg. G. Sdy. Silty

Sh. Hlg. G. Silty

STOTLER 3516-833

ls. Th. Bl. Silty Foss.

ls. G. Silty Foss.

ls. wt. Foss. Colitic

ls. Hlg. G. Silty Foss.

Sh. Hlg.

ls. Bl. Silty Foss. Colitic

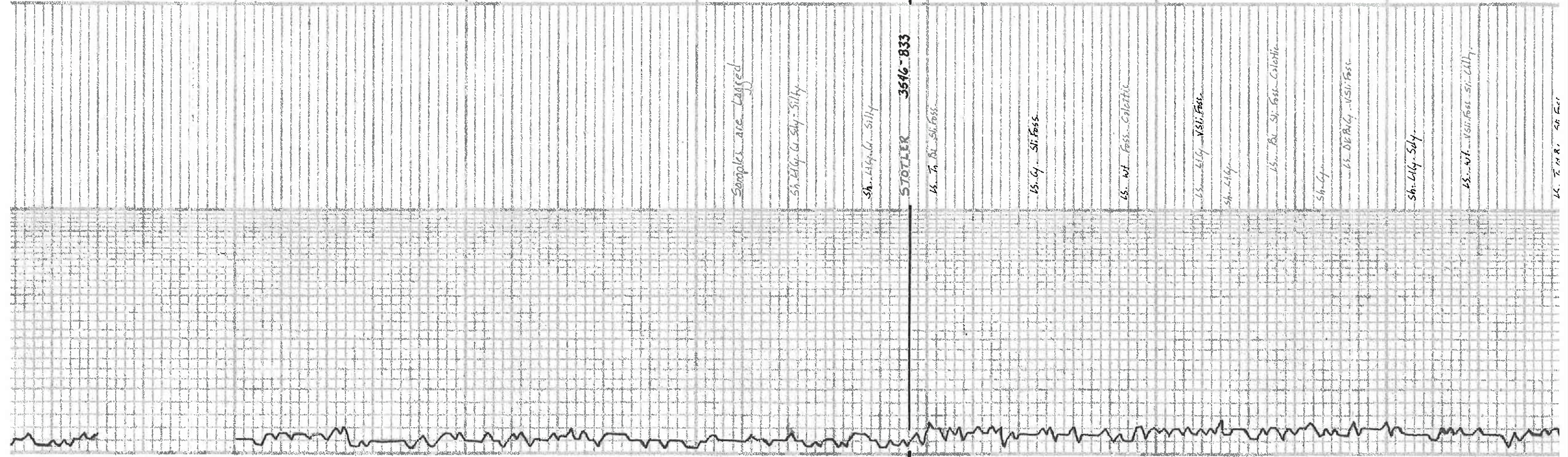
Sh. G.

ls. Bl. Hlg. Silty Foss.

Sh. Hlg. Sdy.

ls. wt. Silty Foss. Silty

ls. Th. Bl. Silty Foss.



3700

3800

3900

4000

LS. T.M.B. Sh. Foss.

Shaly shale

LS. wt. Foss. Calcitic

LS. wt. Hg. Sh. Foss.

LS. wt. Hg. Foss.

LS. T.M.B. Foss. Calcitic

Sh. Hg.

LS. wt. Hg. Foss. Chalky

LS. wt. Hg. Foss. Chalky

LS. wt. Sh. Foss. Chalky

Sh. Hg.

LS. Bl. Sh. Foss.

Sh. L.M. Sdy

LS. T. Sh. A. Calcitic

LS. T. wt. ool. Sh. A.

LS. wt. ool. Calcitic

Shaly Calc.

Sh. Ool. Blk.

LS. D.K.R. D.

LS. wt. Hg. Foss.

LS. G. Dm.

LS. T. H. B. Fossil. Calcitic

LS. T. wt. ool. Foss.

LS. Bl. Sh. Foss.

LS. wt. Sh. Foss. Chalky

HEEBNER 3981-1271

Sh. Blk. Gng.

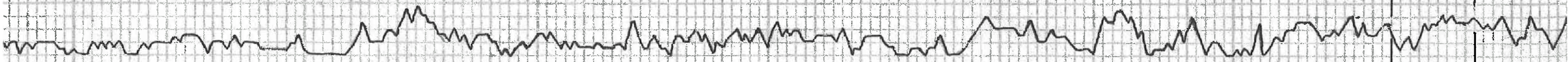
Sh. L. Biv. Gd.

LS. wt. Sh. Foss. Sh. A.

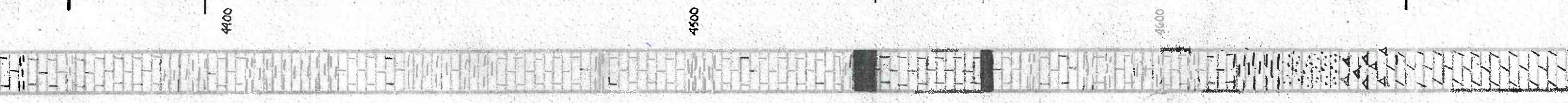
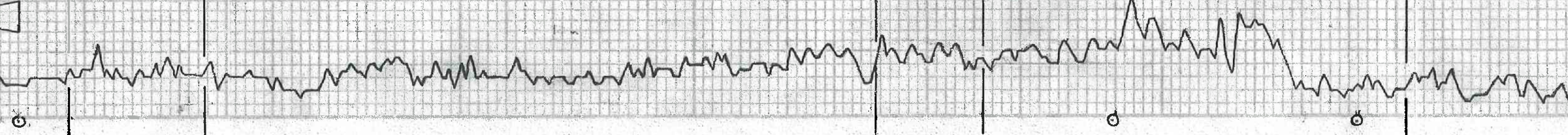
Sh. Rd.

VIS: 48
WT: 9.2
WT: 7.2
CMT: 4700

TORONTO
TOR-LOG

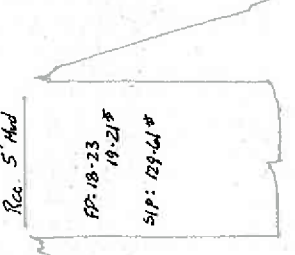


Vis: 47
WT: 96
WL: 80
CML: 3700



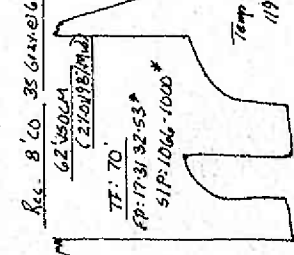
41. *Ag. sil. sh. & silt. sh.*
 BIKE 4366-1653
 42. *Cl. sh. & silt. sh.*
 43. *Bl. silty.*
 44. *Bl. silty.*
 MARMATON 4395-1682
 45. *Bl. silty. sh. & silt. sh.*
 46. *Bl. silty. sh. & silt. sh.*
 47. *Bl. silty. sh. & silt. sh.*
 48. *Bl. silty. sh. & silt. sh.*
 49. *Bl. silty. sh. & silt. sh.*
 50. *Bl. silty. sh. & silt. sh.*
 51. *Bl. silty. sh. & silt. sh.*
 52. *Bl. silty. sh. & silt. sh.*
 53. *Bl. silty. sh. & silt. sh.*
 54. *Bl. silty. sh. & silt. sh.*
 55. *Bl. silty. sh. & silt. sh.*
 56. *Bl. silty. sh. & silt. sh.*
 57. *Bl. silty. sh. & silt. sh.*
 58. *Bl. silty. sh. & silt. sh.*
 59. *Bl. silty. sh. & silt. sh.*
 60. *Bl. silty. sh. & silt. sh.*
 61. *Bl. silty. sh. & silt. sh.*
 62. *Bl. silty. sh. & silt. sh.*
 63. *Bl. silty. sh. & silt. sh.*
 64. *Bl. silty. sh. & silt. sh.*
 65. *Bl. silty. sh. & silt. sh.*
 66. *Bl. silty. sh. & silt. sh.*
 67. *Bl. silty. sh. & silt. sh.*
 68. *Bl. silty. sh. & silt. sh.*
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 77. *Bl. silty. sh. & silt. sh.*
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 79. *Bl. silty. sh. & silt. sh.*
 80. *Bl. silty. sh. & silt. sh.*
 81. *Bl. silty. sh. & silt. sh.*
 82. *Bl. silty. sh. & silt. sh.*
 83. *Bl. silty. sh. & silt. sh.*
 84. *Bl. silty. sh. & silt. sh.*
 85. *Bl. silty. sh. & silt. sh.*
 86. *Bl. silty. sh. & silt. sh.*
 87. *Bl. silty. sh. & silt. sh.*
 88. *Bl. silty. sh. & silt. sh.*
 89. *Bl. silty. sh. & silt. sh.*
 90. *Bl. silty. sh. & silt. sh.*
 91. *Bl. silty. sh. & silt. sh.*
 92. *Bl. silty. sh. & silt. sh.*
 93. *Bl. silty. sh. & silt. sh.*
 94. *Bl. silty. sh. & silt. sh.*
 95. *Bl. silty. sh. & silt. sh.*
 96. *Bl. silty. sh. & silt. sh.*
 97. *Bl. silty. sh. & silt. sh.*
 98. *Bl. silty. sh. & silt. sh.*
 99. *Bl. silty. sh. & silt. sh.*
 100. *Bl. silty. sh. & silt. sh.*

DST (3) 4470-1590
1st Blow: Blow count to 1 1/4"
2nd Blow: Surface Blow
30-30-30-30
Rec. 5' Mud



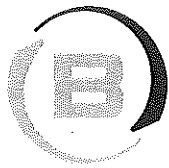
Tool Sample: 100% Mud

DST (4) 4582-4642
1st Blow: Blow count to 3 3/4"
2nd Blow: " " " 2"
30-45-45-60



Rec. 8' CO 35 Gravel 60°F
62-60-60
(270/28/100)
TF: 70
FP: 17-31 32-53
SIP: 10-10-10-10

Tool Sample: 12/101 8.7-10 80% Mud.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201
9-19-27

FIELD SERVICE TICKET
1718 13009 A

DATE _____ TICKET NO. _____

DATE OF JOB 1-29-16	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 LO Drilling inc		LEASE Riebn				WELL NO. 1-9	
ADDRESS		COUNTY LANC		STATE KS			
CITY		STATE		SERVICE CREW MATTAL, ERNST, ANTHONY, MARTINEZ			
AUTHORIZED BY		JOB TYPE: C/W 5 1/2 2 stage LONG STRINGS					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE AM TIME
19645	1						1-28-16 8:00
						ARRIVED AT JOB	1-29-16 12:30
73768	.5					START OPERATION	3:04
						FINISH OPERATION	5:08
19919	.5					RELEASED	6:00
						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: *X L D DAVIS B. KERR*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA-2 CMT	SY	150		2550 00
CP 101	A-con blend	SY	300		5400 00
CP 103	60/40 Poz	SY	30		360 00
CC 107	cellorine	lb	113		418 10
CC 109	calcium chloride	lb	846		888 30
CC 111	Salt	lb	816		408 00
CC 113	GYPsum	lb	705		528 75
CC 129	FIA 322	lb	113		847 50
CC 201	Silsonite	lb	898		601 16
CF 451	TWO STAGE CMT COLLAR 5 1/2	EA	1		4500 00
CF 1251	AUTO FILL FLOUT SHW 5 1/2	EA	1		360 00
CF 1651	TU 150 1/2" 5 1/2	EA	7		770 00
CF 1901	Bas Kat 5 1/2	EA	2		580 00
CC 151	MUD FLUSH	BT	1,000		1500 00
SUB TOTAL					

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE <i>Mike Mattal</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>X L D DAVIS B. KERR</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO.	

BASIC

energy services, L.P.

1 OF 2

TREATMENT REPORT

Customer	LD Drilling inc	Lease No.		Date	1-29-16
Lease	Riebel	Well #	1-9		
Field Order #	13009	Station	Pratt	Casing	5 1/2
				Depth	4745.37'
Type Job	CNW 5 1/2	2 stage	Long string	Formation	TD-4750'
				Legal Description	9-14-27
				County	Lane
				State	Ks

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	5 1/2	Tubing Size		Shots/Ft		Rate	10% salt
Depth	4745.37	Depth		From	To	Press	109.9 yf
Volume	115.7	Volume		From	To	ISIP	.87 F14322
Max Press	1500	Max Press		From	To	5 Min.	
Well Connection	PC	Annulus Vol.		From	To	10 Min.	
Plug Depth	4705	Packer Depth		From	To	15 Min.	
				Flush	114.9	Gas Volume	
						Total Load	

Customer Representative	LD	Station Manager	Kevin Goring	Treater	Mike Mattui
Service Units	37586	84941	19843	70959	73768
Driver Names	Mattui	Ernst		Anthony	Martinez

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:30 PM					on location / safety meeting 43'-5J
					running 5 1/2 14" casing 111 JTS
					D.V. tool 2089' ^{TOP OF} JT 62
					Baskets on JT 3, 62
					Turbos on 1, 2, 3, 4, 6, 8, 61
1:50					Casing on bottom - 5 1/2 SET AT 4748'
1:55					Hook to casing / Break circ w. Rig
3:04	200		24	5	Pump 24 bbls mud flush
3:09	200		5	5	Pump 5 bbl water
3:10	200		48	5	Mix 150 SKS AA-2 CMT @ 14.8 MPG
3:20	-		4	3	WASH pump + Line
3:24	-		-	-	release plug
3:26	200		-	6	START fresh water displacement
3:37	200		65	6	Switch to mud displacement
3:40	250		80	5.5	LIFT Pressure
3:47	400		105	4	Slow rate
3:49	1500		114.9		plug down released + hold
3:56					DROP opening tool in well
4:00	-		7	3	plug rat hold
4:14	1400				Open tool.

See next page

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energy services, L.P. 2 of 2

TREATMENT REPORT

Customer LD Drilling inc	Lease No.	Date 1-29-16
Lease Riebel	Well # 1-9	
Field Order # 13009	Station Pratt	Casing 5 1/2
	Depth	County Lane
Type Job CWU - LONG STRINGS	Formation	State Ks
		Legal Description

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	Treater
-------------------------	-----------------	---------

Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					TOP STAGE
4:21	200	}	148	5	Mix 300 SK A-con @ 11.6 rps
4:52	—		4	3	WASH PUMP + LINE
4:55	—		—	—	DROP PLUG
4:56	250		6		START DISPLACEMENT
5:06	400		45	4	SLOW RATE
5:08	1,700		51		PLUG DOWN, TOOL SHUT RELEASED + HOLD
					CERC. 25 bbl CEMENT TO PEST
					JOB COMPLETE
					Thank You!
					MIKE MATTAI
					SHAWN, JAKE, DARREL

L. D. DRILLING, INC.

7 SW 26th Avenue

GREAT BEND, KS 67530

Customer LD RIEBEL 1-9 Order _____

Lease _____ Date _____

Description of Pipe TD-4750'

Amount Top Row

Jts.	Run	Ins.	Run	Ins.	Ft.	Ins.	Ft.	Ins.	Ft.	Ins.
1	43	18	41	42						
2	43	23	43	21						
3	42	68	42	91						
4	43	23	43	22						
5	43	20	42	65						
6	42	96	42	68						
7	43	22	43	29						
8	43	24	43	20						
9	43	24	43	20						
10	42	63	43	05						
11	43	22	43	22						
12	43	23	43	24						
13	42	81	43	22						
14	43	22	43	19						
15	42	92	43	24						
16	43	22	43	24						
17	41	41	42	62						
18	43	25	42	62						
19	42	88	43	23						
20	42	65	43	23						
21	41	36	36	10						
22	43	24	12	49						out
23	43	21	12	00						out
24	43	26								
25	41	26								
26	42	88								
27	43	25								
28	42	64								
29	42	93								
30	39	07								
Total	1782	72	920	47						

~~TOTAL~~
 48 51.84
 Run 11 Jts
 5/2 SET - 4748'
 PBD - 4205'
 DV TOOL - 2089'

TOTAL PIECES _____ LENGTH _____ FEET _____ INCHES _____

RECEIVED BY _____ TALLIED BY _____

SW 26th Avenue
 GREAT BEND, KS 67530

Customer LD RIEBEL 1-9 Order _____

Lease _____ Date _____

Description of Pipe TD-4750'

Amount BTM Row

Jts.	Ins.	Ft.	Ins.	Ft.	Ins.
1	43 23	43 23	43 24	-out	
2	43 23	43 22	42 74	-out	
3	43 25	43 25			
4	43 26	41 34			
5	43 11	40 28			
6	43 24	43 24			
7	43 21	42 68			
8	42 62	43 20			
9	42 40	43 22			
10	42 74	43 23			
DW 12	42 67	43 23			
13	43 24	43 22			
14	43 23	38 83			
15	42 98	43 22			
16	42 91	43 23			
17	39 20	43 10			
18	42 86	43 25			
19	42 46	43 23			
20	42 74	42 66			
21	43 24	42 75			
22	43 24	43 00			
23	40 98	43 22			
24	43 22	43 22			
25	43 29	42 76			
26	40 19	42 95			
27	43 24	43 26			
28	40 25	43 24			
29	41 35	43 27			
30	42 37	43 24			
	43 24	43 22			
Total	1277 64	1285 03	85 98		

TOTAL PIECES _____ LENGTH _____ FEET _____ INCHES _____

RECEIVED BY _____ TALLIED BY _____

Customer	LD Drilling inc	Lease No.		Date	1-20-16						
Lease	Rivobd	Well #	1-9								
Field Order #	13008	Station	Pratt	Casing	8 5/8	Depth	309	County	LANE	State	KS
Type Job	cnw 8 5/8 surface		Formation			Legal Description	9-19-27				

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME				
Casing	8 5/8	Tubing Size		Shots/Ft		Acid	300 SAs 60/40 POZ	RATE	PRESS	ISIP
Depth	309	Depth		From	To	Pre Pad	290 99 32	Max	1/4 # SW	5 Min.
Volume	19.5	Volume		From	To	Pad		Min		10 Min.
Max Press	320	Max Press		From	To	Frac		Avg		15 Min.
Well Connection	3 1/2	Annulus Vol.		From	To			HHP Used		Annulus Pressure
Plug Depth	286	Packer Depth		From	To	Flush	18	Gas Volume		Total Load

Customer Representative	LD	Station Manager	Kevin Guidry	Treater	Mike Mattal
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Service Units	37586	78982	86779	19826	19918				
Driver Names	Mattal	Franklin		Graves					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:20 AM					ON LOCATION / SAFETY Meeting
5:15 AM					Run 7 JTS 8 5/8 casing 24'
6:15					Casing on bottom
6:20					hook to casing / Break circ w. Rig
6:45	50		3	5	Pump 3 bbl water
6:48	150		65	6	Mix 300 SAs 60/40 POZ @ 14.8 PPG
7:00	150		—	5	START DISPLACEMENT
7:07	200		18	—	Plug Down, 10 bbls TO PIT
			—	—	Shut in well

JOB COMPLETE
 Thank You!
 Mike Mattal
 Darin, Scott