



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1249017
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: _____



1249017

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> <input type="checkbox"/> Other <i>(Specify)</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	ERNSTING 1-1
Doc ID	1249017

All Electric Logs Run

COMPENSATED DENSITY / NEUTRON LOG
DUAL INDUCTION LOG
MICRO LOG
SONIC LOG

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	ERNSTING 1-1
Doc ID	1249017

Tops

Name	Top	Datum
ANHYDRITE	558	+1234
BASE ANHYDRITE	577	+1215
HEEBNER	2957	-1165
TORONTO	2972	-1180
DOUGLAS	2986	-1194
BROWN LIME	3080	-1288
LANSING	3100	-1308
ARBUCKLE	3339	-1547

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	ERNSTING 1-1
Doc ID	1249017

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	24	376	A-CONN	200	3% CC, 1/4# Celloflake
Surface	12.25	8.625	24	376	COMMON	200	2% CC, 1/4# CF
Production	7.875	5.5	15.5	3455	AA-2	150	10%Salt, 10%Gypsum
Production	7.875	5.5	15.5	3455	60/40 Pozmix	30	



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: ernsting1-1dst1

TIME ON: 03:14
 TIME OFF: 11:36

Company LD Drilling Inc Lease & Well No. Ernsting #1-1
 Contractor Petromark Rig #2 Charge to LD Drilling Inc
 Elevation 1792 KB Formation Lans A-D Effective Pay _____ Ft. Ticket No. S0543
 Date 2-25-15 Sec. 1 Twp. 20 S Range 12 W County Barton State KANSAS
 Test Approved By Kurt Talbot Diamond Representative Jacob McCallie

Formation Test No. 1 Interval Tested from 3110 ft. to 3180 ft. Total Depth 3180 ft.

Packer Depth 3105 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 3110 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3098 ft. Recorder Number 5515 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3135 ft. Recorder Number 5586 Cap. 5,000 P.S.I.

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

Mud Type Chem Viscosity 50 Drill Collar Length 123 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 6,400 P.P.M. Drill Pipe Length 2961 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number NA Test Tool Length 26 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 70 (38.5 A) 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: 3/4" Blow- Built to 10" in 38 min NOBB

2nd Open: 1/2" Blow- Built to 9" in 45 min NOBB

Recovered 201 ft. of SLMCW 92% W 8% M

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Diesel in bucket

Tool Sample: 64% W 36% M

Time Set Packer(s) 6:25 AM A.M. Time Started Off Bottom 9:33 AM A.M. Maximum Temperature 98
P.M. P.M.

Initial Hydrostatic Pressure..... (A) 1484 P.S.I.

Initial Flow Period..... Minutes 38 (B) 15 P.S.I. to (C) 77 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 614 P.S.I.

Final Flow Period..... Minutes 45 (E) 79 P.S.I. to (F) 108 P.S.I.

Final Closed In Period..... Minutes 60 (G) 589 P.S.I.

Final Hydrostatic Pressure..... (H) 1477 P.S.I.

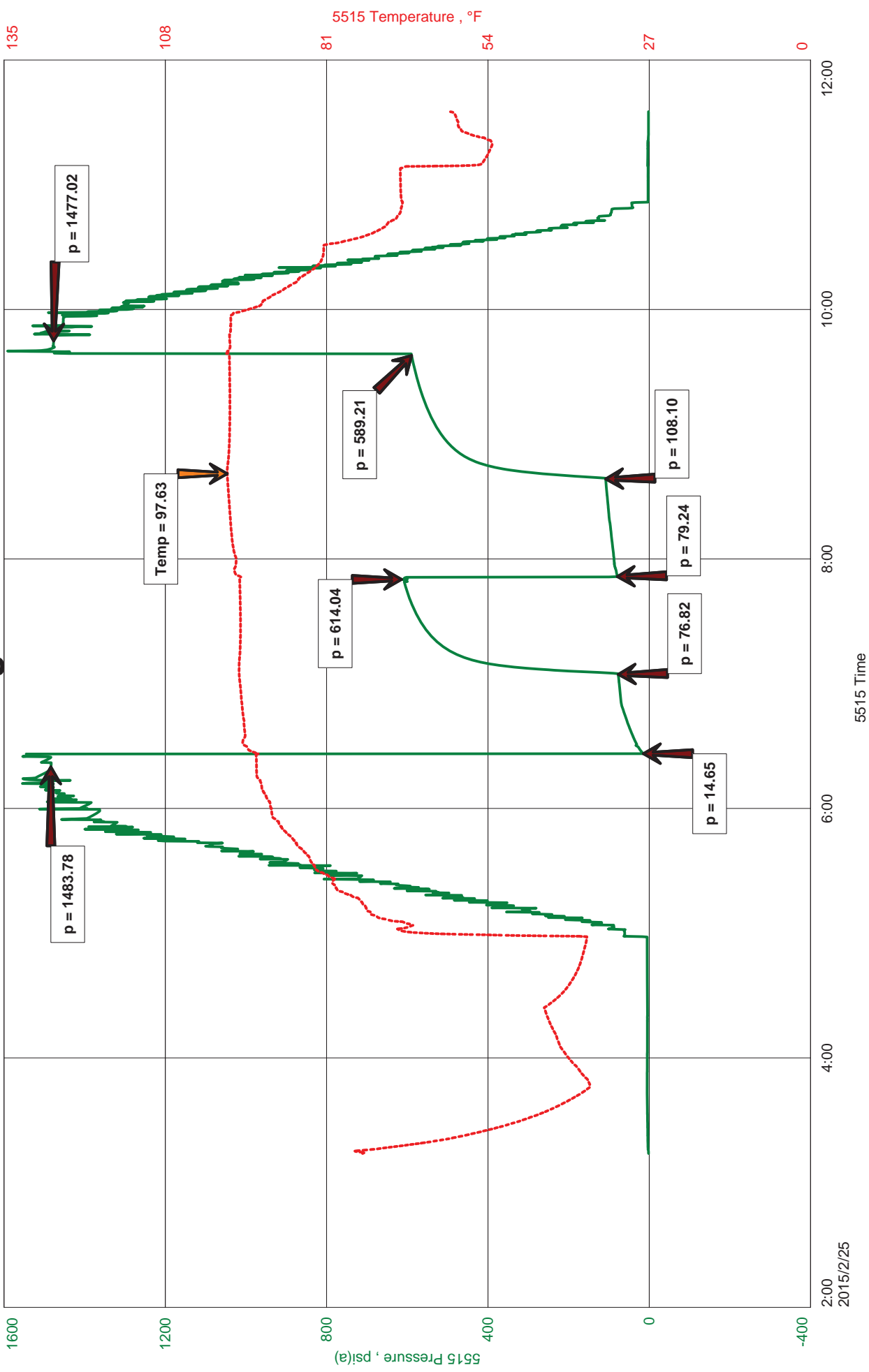
Price Job
Other Charges
Insurance
Total

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LD Drilling Inc
DST #1 Lans A-D 3110-3180'
Start Test Date: 2015/02/25
Final Test Date: 2015/02/25

Ernsting #1-1
Formation: DST #1 Lans A-D 3110-3180'
Pool: Infield
Job Number: S0543

Ernsting #1-1



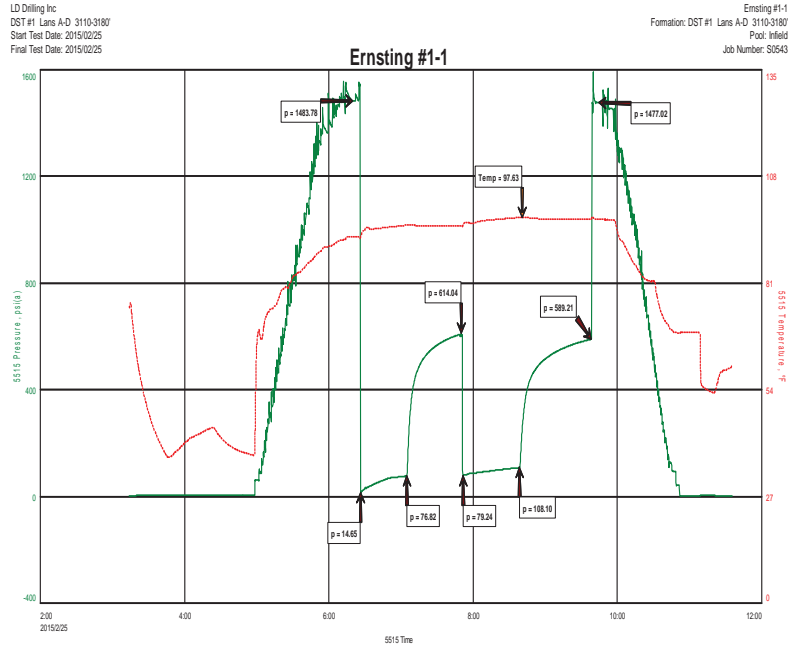


Hoisington, Kansas

JACOB MCCALLIE
620-617-7116
mccallie.dtlc@gmail.com

General Information

Company Name	LD Drilling Inc	Contact	LD Davis
Well Name		Well Name	Ernsting #1-1
Unique Well ID	DST #1 Lans A-D 3110-3180'	Surface Location	SEC 1-20S-12W Barton County
Field		Well Operator	LD Drilling Inc
Well Fluid Type		Test Type	Drill Stem Test
Test Purpose (AEUB)		Well Type	Vertical
Start Test Date	2015/02/25	Formation	DST #1 Lans A-D 3110-3180'
Start Test Time	03:14:00	Well Fluid Type	06 Water
Final Test Date	2015/02/25	Test Purpose (AEUB)	Initial Test
Final Test Time	11:36:00	Start Test Date	2015/02/25
Job Number	S0543	Start Test Time	03:14:00
Representative	Jacob McCallie	Final Test Date	2015/02/25
Prepared By	Jacob McCallie	Final Test Time	11:36:00
Report Date	2015/02/25	Job Number	S0543



FLUID RECOVERY

201' SLMCW 92% W 8% M

TOOL SAMPLE:
 64% W 36% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ernsting1-1dst2

TIME ON: 00:21
TIME OFF: 07:03

Company LD Drilling Inc Lease & Well No. Ernsting #1-1
Contractor Petromark Rig #2 Charge to LD Drilling Inc
Elevation 1792 KB Formation Lans H-J Effective Pay _____ Ft. Ticket No. S0544
Date 2-26-15 Sec. 1 Twp. 20 S Range 12 W County Barton State KANSAS
Test Approved By Kurt Talbot Diamond Representative Jacob McCallie

Formation Test No. 2 Interval Tested from 3219 ft. to 3300 ft. Total Depth 3300 ft.

Packer Depth 3214 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 3219 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3207 ft. Recorder Number 5515 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3285 ft. Recorder Number 5586 Cap. 5,000 P.S.I.

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

Mud Type Chem Viscosity 50 Drill Collar Length 123 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 6,400 P.P.M. Drill Pipe Length 3070 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number NA Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 81 (18A) 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 1" in 30 min **NOBB**

2nd Open: WSB- No Build **NOBB**

Recovered 20 ft. of OSM <1% O >99% M

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Diesel in bucket

Tool Sample: 1% O 99% M

Time Set Packer(s) 2:52 AM A.M. P.M. Time Started Off Bottom 4:52 AM A.M. P.M. Maximum Temperature 95

Initial Hydrostatic Pressure..... (A) 1519 P.S.I.

Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 17 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 136 P.S.I.

Final Flow Period..... Minutes 30 (E) 20 P.S.I. to (F) 23 P.S.I.

Final Closed In Period..... Minutes 30 (G) 64 P.S.I.

Final Hydrostatic Pressure..... (H) 1513 P.S.I.

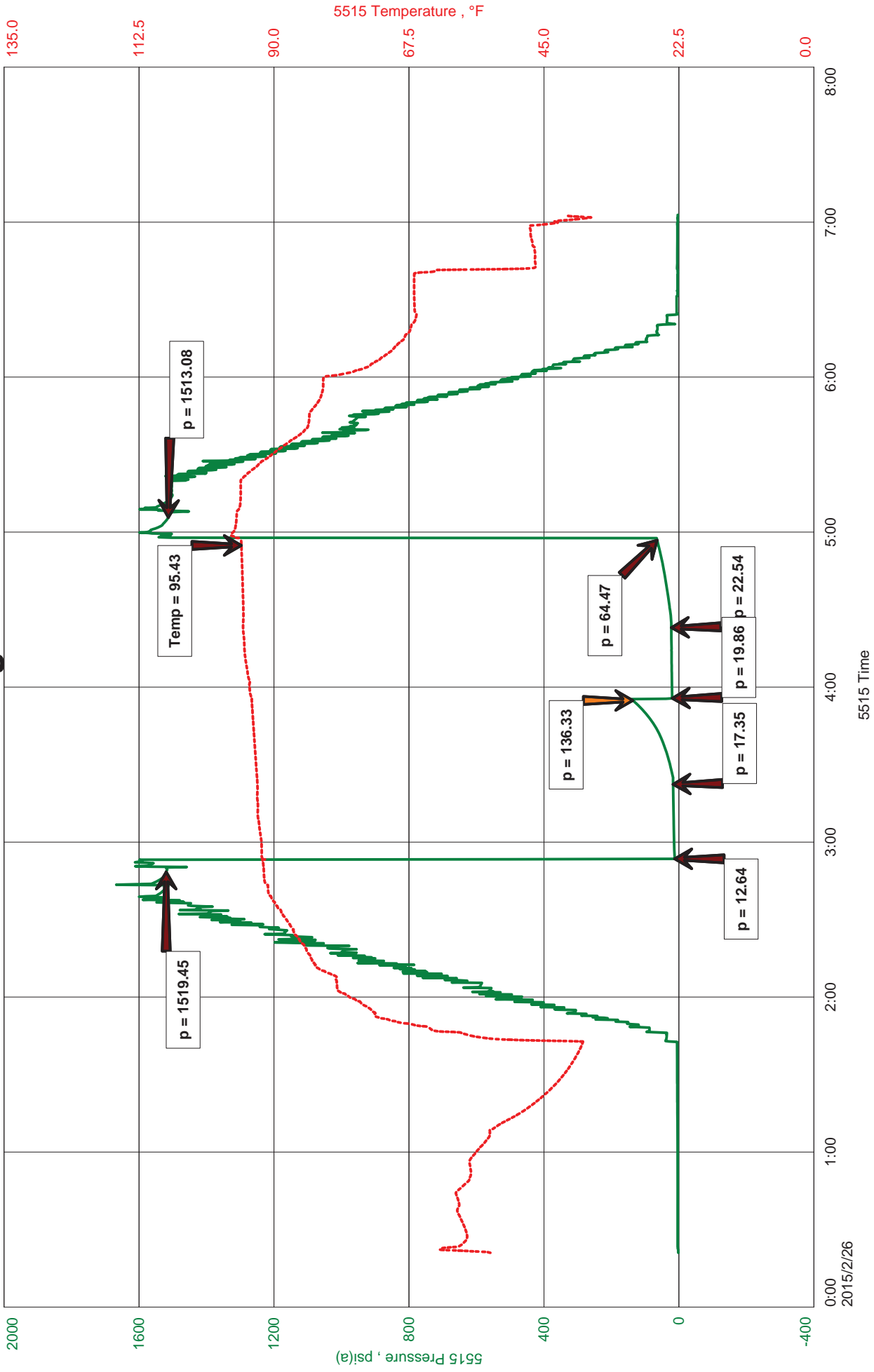
Price Job
Other Charges
Insurance
Total

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.

LD Drilling Inc
DST #2 Lan H-J 3219-3300'
Start Test Date: 2015/02/26
Final Test Date: 2015/02/26

Ernsting #1-1
Formation: DST #2 Lan H-J 3219-3300'
Pool: Infield
Job Number: S0544

Ernsting #1-1



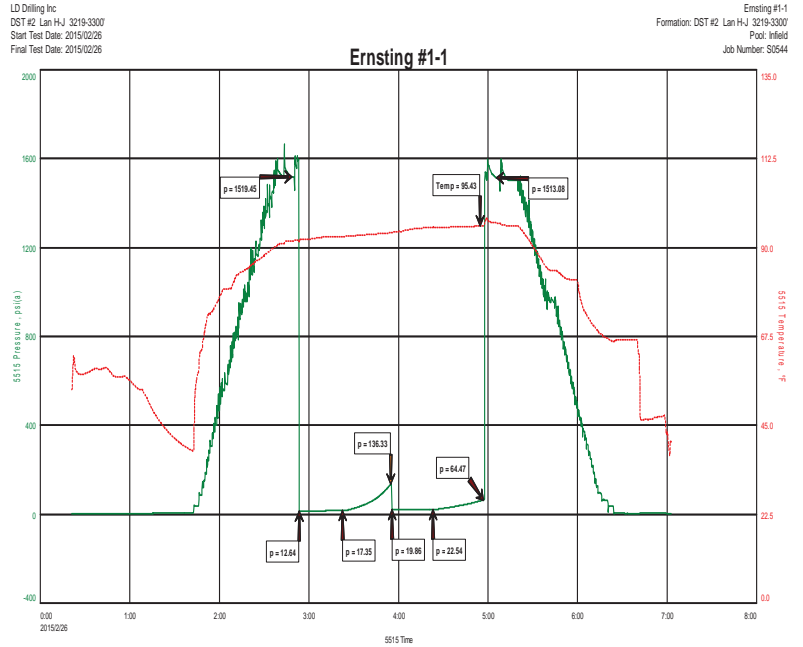


Hoisington, Kansas

JACOB MCCALLIE
620-617-7116
mccallie.dtlc@gmail.com

General Information

Company Name	LD Drilling Inc	Contact	LD Davis
Well Name	Ernsting #1-1	Well Name	Ernsting #1-1
Unique Well ID	DST #2 Lan H-J 3219-3300'	Surface Location	SEC 1-20S-12W Barton County
Field	Chase-Silica	Well Operator	LD Drilling Inc
Well Type	Drill Stem Test	Test Type	Vertical
Formation	DST #2 Lan H-J 3219-3300'	Well Fluid Type	01 Oil
Well Fluid Type	01 Oil	Test Purpose (AEUB)	Initial Test
Test Purpose (AEUB)	Initial Test	Start Test Date	2015/02/26
Start Test Date	2015/02/26	Start Test Time	00:21:00
Start Test Time	00:21:00	Final Test Date	2015/02/26
Final Test Date	2015/02/26	Final Test Time	07:03:00
Final Test Time	07:03:00	Job Number	S0544
Job Number	S0544	Representative	Jacob McCallie
Representative	Jacob McCallie	Prepared By	Jacob McCallie
Prepared By	Jacob McCallie	Report Date	2015/02/26
Report Date	2015/02/26		



FLUID RECOVERY

20' OSM <1% O >99% M

TOOL SAMPLE:
 1% O 99% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ernsting1-1dst3

TIME ON: 16:55
TIME OFF: 21:54

Company LD Drilling Inc Lease & Well No. Ernsting #1-1
Contractor Petromark Rig #2 Charge to LD Drilling Inc
Elevation 1792 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0545
Date 2-26-15 Sec. 1 Twp. 20 S Range 12 W County Barton State KANSAS
Test Approved By Kurt Talbot Diamond Representative Jacob McCallie

Formation Test No. 3 Interval Tested from 3316 ft. to 3341 ft. Total Depth 3341 ft.
Packer Depth 3311 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
Packer Depth 3316 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3304 ft. Recorder Number 5515 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3319 ft. Recorder Number 5586 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 64 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.5 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 10,500 P.P.M. Drill Pipe Length 3167 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 25 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 3/4" in 30 min **NOBB**
2nd Open: WSB- Built to 1/2" in 15 min **NOBB**

Recovered 3 ft. of CO 100% O
Recovered 33 ft. of OCM 25% O 75% M
Recovered 36 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>Diesel in bucket</u>	
Tool Sample: <u>30% O 60% M</u>	Total

Time Set Packer(s) 6:45 PM A.M. P.M. Time Started Off Bottom 8:00 PM A.M. P.M. Maximum Temperature 92

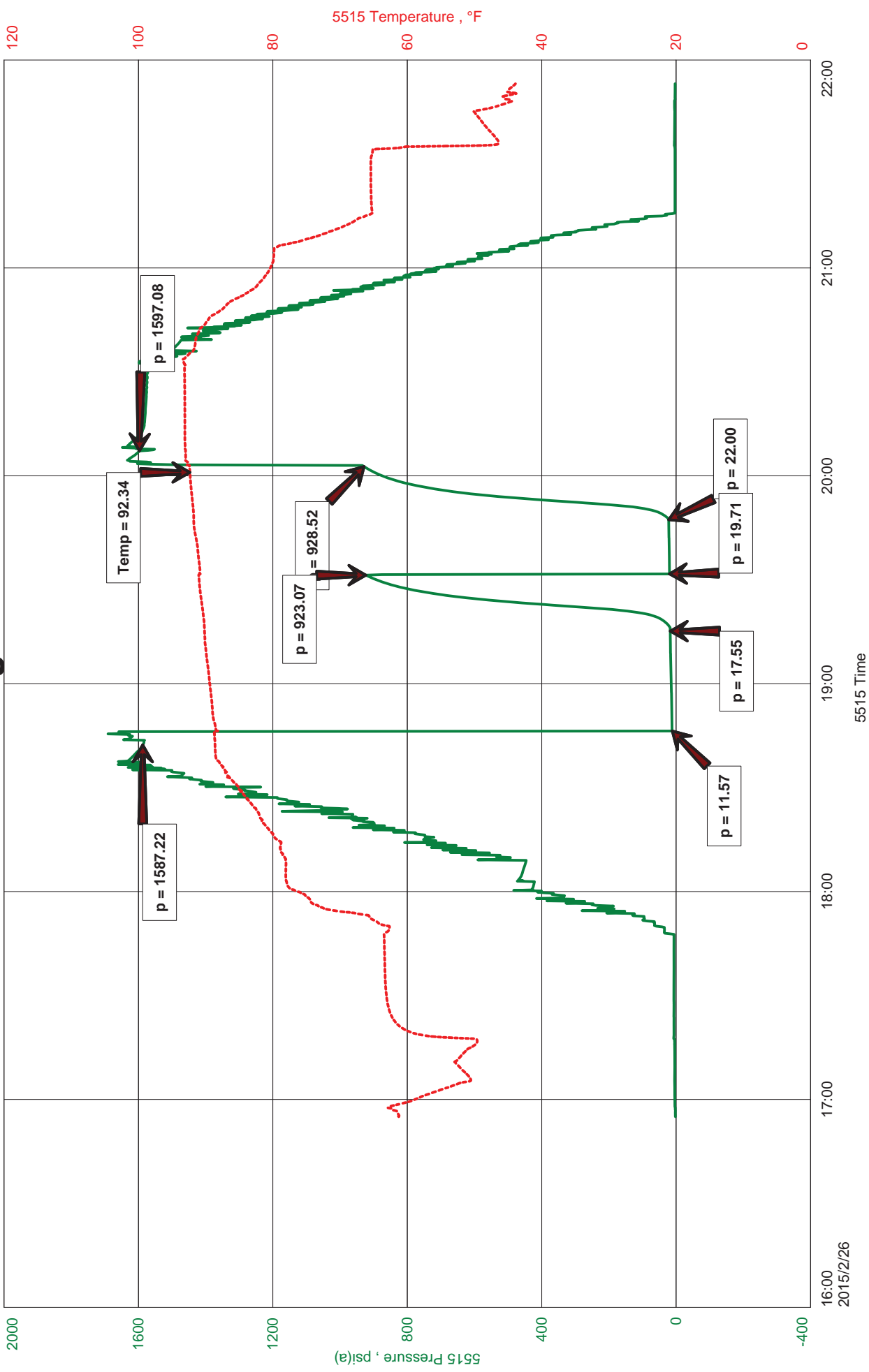
Initial Hydrostatic Pressure..... (A) 1587 P.S.I.
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 18 P.S.I.
Initial Closed In Period..... Minutes 15 (D) 923 P.S.I.
Final Flow Period..... Minutes 15 (E) 20 P.S.I. to (F) 22 P.S.I.
Final Closed In Period..... Minutes 15 (G) 929 P.S.I.
Final Hydrostatic Pressure..... (H) 1597 P.S.I.

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LD Drilling Inc.
DST #3 Arbuckle 3316-3341'
Start Test Date: 2015/02/26
Final Test Date: 2015/02/26

Ernsting #1-1
Formation: DST #3 Arbuckle 3316-3341'
Pool: Infield
Job Number: S0545

Ernsting #1-1





Hoisington, Kansas

JACOB MCCALLIE
620-617-7116
mccallie.dtlc@gmail.com

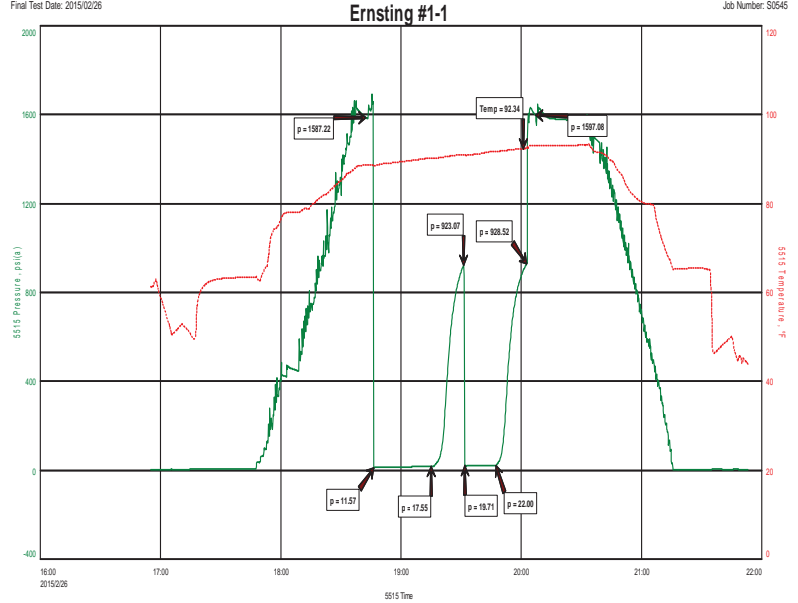
General Information

Company Name LD Drilling Inc.

Contact	LD Davis
Well Name	Ernsting #1-1
Unique Well ID	DST #3 Arbuckle 3316-3341'
Surface Location	SEC 1-20S-12W Barton County
Field	Chase-Silica
Well Operator	LD Drilling Inc.
Test Type	Drill Stem Test
Well Type	Vertical
Formation	DST #3 Arbuckle 3316-3341'
Well Fluid Type	01 Oil
Test Purpose (AEUB)	Initial Test
Start Test Date	2015/02/26
Start Test Time	16:55:00
Final Test Date	2015/02/26
Final Test Time	21:54:00
Job Number	S0545
Representative	Jacob McCallie
Prepared By	Jacob McCallie
Report Date	2015/02/26

LD Drilling Inc.
 DST #3 Arbuckle 3316-3341'
 Start Test Date: 2015/02/26
 Final Test Date: 2015/02/26

Ernsting #1-1
 Formation: DST #3 Arbuckle 3316-3341'
 Pore: Infield
 Job Number: S0545



FLUID RECOVERY

3'	CO	100% O
33'	OCM	25% O 75% M
36'	TOTAL FLUID	

TOOL SAMPLE:
30% O 60% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ernsting1-1dst4

TIME ON: 04:05
TIME OFF: 11:41

Company LD Drilling Inc Lease & Well No. Ernsting #1-1
Contractor Petromark Rig #2 Charge to LD Drilling Inc
Elevation 1792 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0546
Date 2-27-15 Sec. 1 Twp. 20 S Range 12 W County Barton State KANSAS
Test Approved By Kurt Talbot Diamond Representative Jacob McCallie

Formation Test No. 4 Interval Tested from 3316 ft. to 3341 ft. Total Depth 3350 ft.
Packer Depth 3311 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
Packer Depth 3316 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3304 ft. Recorder Number 5515 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3319 ft. Recorder Number 5586 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 64 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.5 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 10,500 P.P.M. Drill Pipe Length 3167 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 26 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: 3/4" Blow- Built to BB in 11 min WSBB
2nd Open: 1/2" Blow- Built to BB in 9 1/2 min WSBB

Recovered 189 ft. of GIP
Recovered 404 ft. of CO 100% O GRAVITY: 40 @ 60 degrees F
Recovered 94 ft. of OCM 22% O 78% M
Recovered 498 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Diesel in bucket</u>	Insurance
Tool Sample: <u>45% O 55% M</u>	Total

Time Set Packer(s) 6:23 AM A.M. P.M. Time Started Off Bottom 9:23 AM A.M. P.M. Maximum Temperature 101

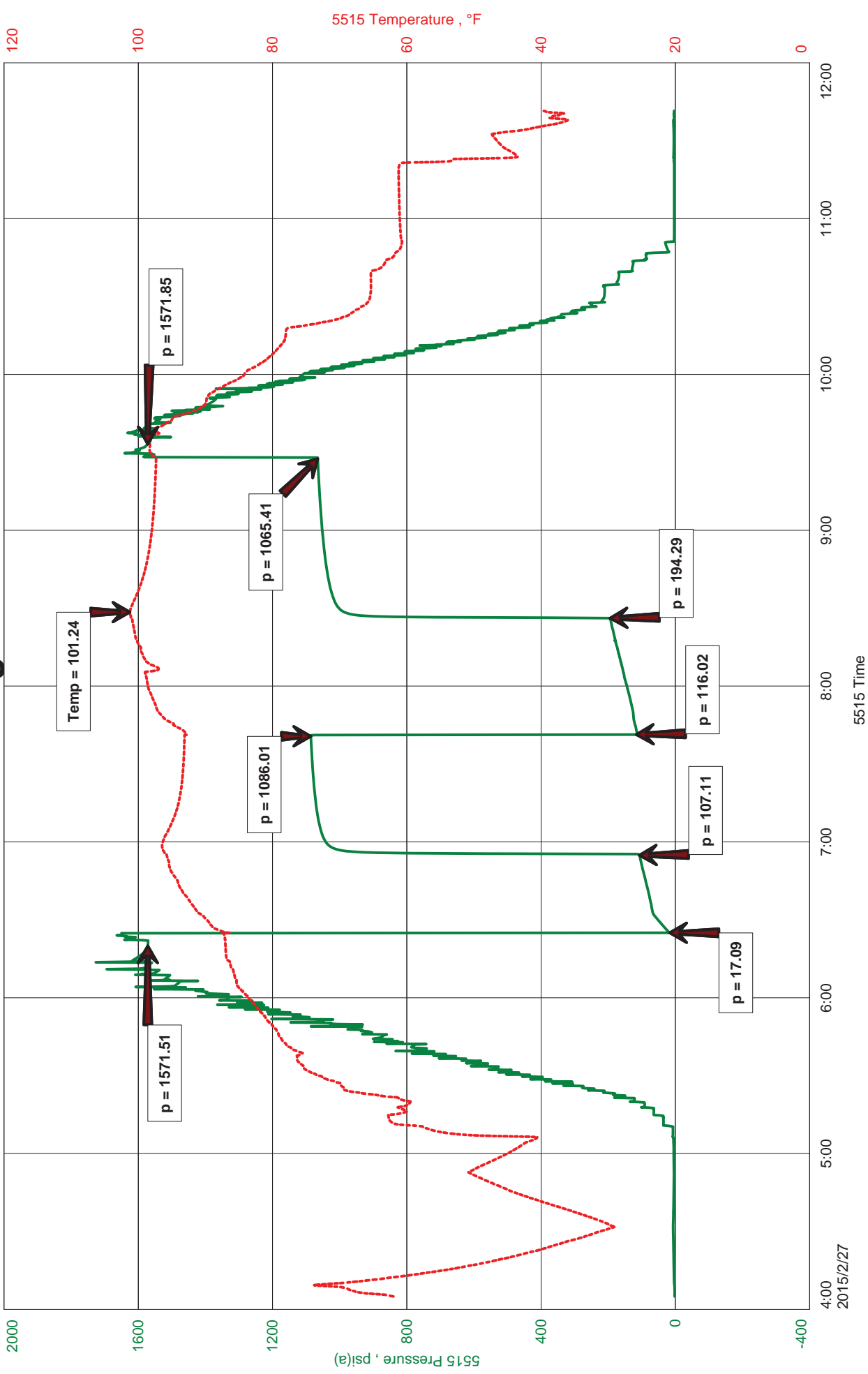
Initial Hydrostatic Pressure..... (A) 1572 P.S.I.
Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 107 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1086 P.S.I.
Final Flow Period..... Minutes 45 (E) 116 P.S.I. to (F) 194 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1065 P.S.I.
Final Hydrostatic Pressure..... (H) 1572 P.S.I.

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LD Drilling
DST #4 Arbuckle 3316-3350'
Start Test Date: 2015/02/27
Final Test Date: 2015/02/27

Ernsting #1-1
Formation: DST #4 Arbuckle 3316-3350'
Pool: Infield
Job Number: S0546

Ernsting #1-1





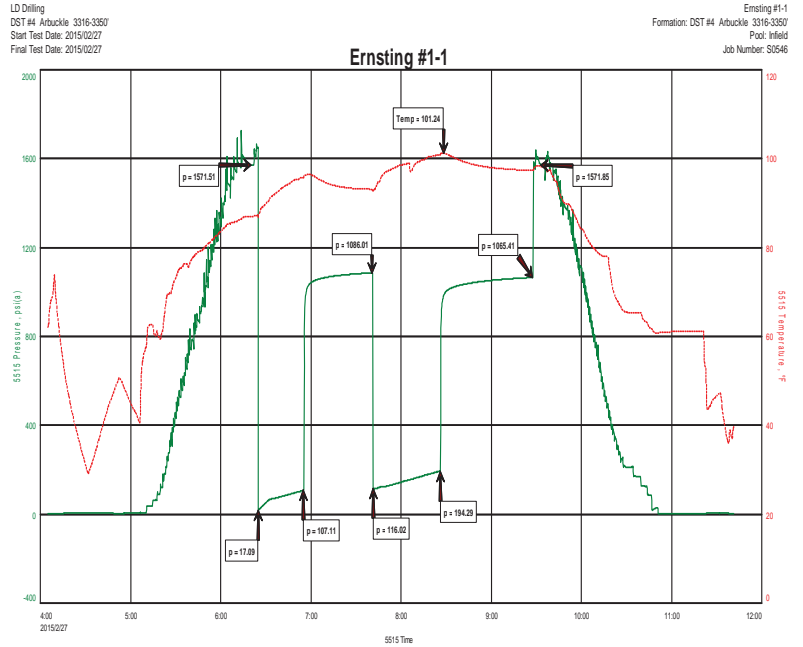
Hoisington, Kansas

JACOB MCCALLIE
620-617-7116
mccallie.dtlc@gmail.com

General Information

Company Name LD Drilling

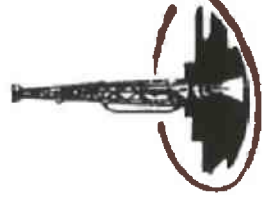
Contact	LD Davis
Well Name	Ernsting #1-1
Unique Well ID	DST #4 Arbuckle 3316-3350'
Surface Location	SEC 1-20S-12W Barton County
Field	Chase-Silica
Well Operator	LD Drilling
Test Type	Drill Stem Test
Well Type	Vertical
Formation	DST #4 Arbuckle 3316-3350'
Well Fluid Type	01 Oil
Test Purpose (AEUB)	Initial Test
Start Test Date	2015/02/27
Start Test Time	04:05:00
Final Test Date	2015/02/27
Final Test Time	11:41:00
Job Number	S0546
Representative	Jacob McCallie
Prepared By	Jacob McCallie
Report Date	2015/02/27



FLUID RECOVERY

189'	GIP		
404'	CO	100% O	GRAVITY: 40 @ 60 degrees F
94'	OCM	22% O 78% M	
498'	TOTAL FLUID		

TOOL SAMPLE:
 45% O 55% M



Petroleum Geology
212 Main Street, Claflin KS

Geologist's Report

Company: L.D. Drilling Inc.
 Lease: Ernsting #1-1
 Field: Chase-Silica
 Surface Location: S2-S2-SE(330' FSL & 1320' FEL)
 Sec: 1 Twp: 20S Rge: 12W
 County: Barton State: Kansas
 GL: 1787' KB: 1792'

Contractor: Petromark Drilling Rig #2
 Spud: 2/20/15 Comp: 2/27/15
 RTD: 3460' LTD: 3463'
 Mud Up: +/- 2700' Mud Type: Chemical Displaced

Drilling Time Kept From: 2700' to RTD
 Samples Saved From: 2800' to RTD
 Samples Examined: 2800' to RTD
 Geological Supervision: 3010' to RTD
 Geologist on Well: Kurt Talbott

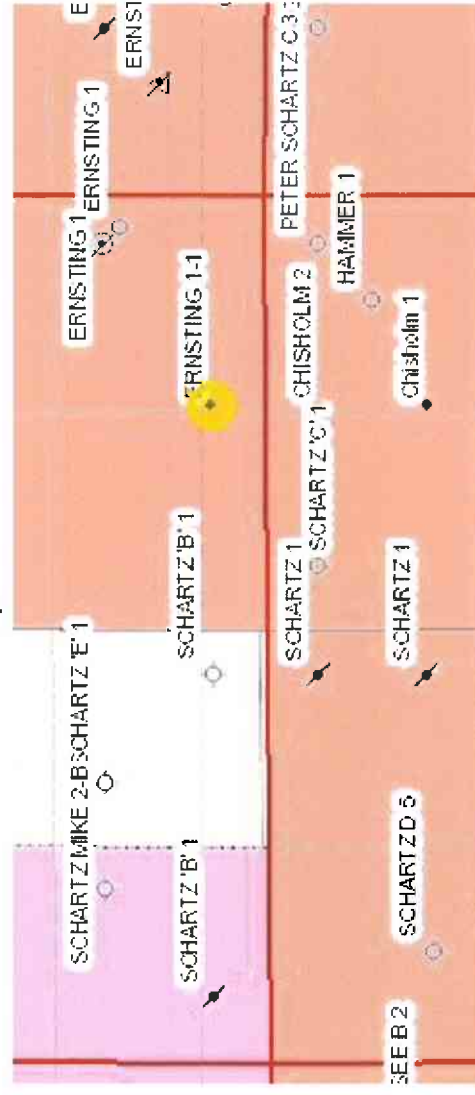
Surface Casing: 8 5/8" @ 375'
 Production Casing: 5 1/2" @

Wireline Logs: By Nabors: CNL/CDL, DIL, MEL, Sonic

		LD DRILLING		ISERN PETROLEUM		LD DRILLING	
		ERSTING 1-1		#1 ERNSTING		CHISHOLM #2	
		1792 KB		1789 KB		1791 KB	
FORMATION	Log	Log SS	SAMPLE	SS	MD	SS	
ANHYDRITE	558	1234	566	1223			
BASE ANHYDRITE	577	1215	580	1209			
HEEBNER	2957	-1165	2949	-1160	2963	-1117	
TORONTO	2972	-1180					
DOUGLAS	2986	-1194					
BROWN LIME	3080	-1288	3071	-1282	3088	-1416	
LANSING	3100	-1308	3088	-1299	3106	-1315	
ARBUCKLE	3339	-1547	3341	-1552	3348	-1557	
TOTAL DEPTH	3463	-1671	3359	-1570	3461	-1670	

Well Comparison

Spot Location



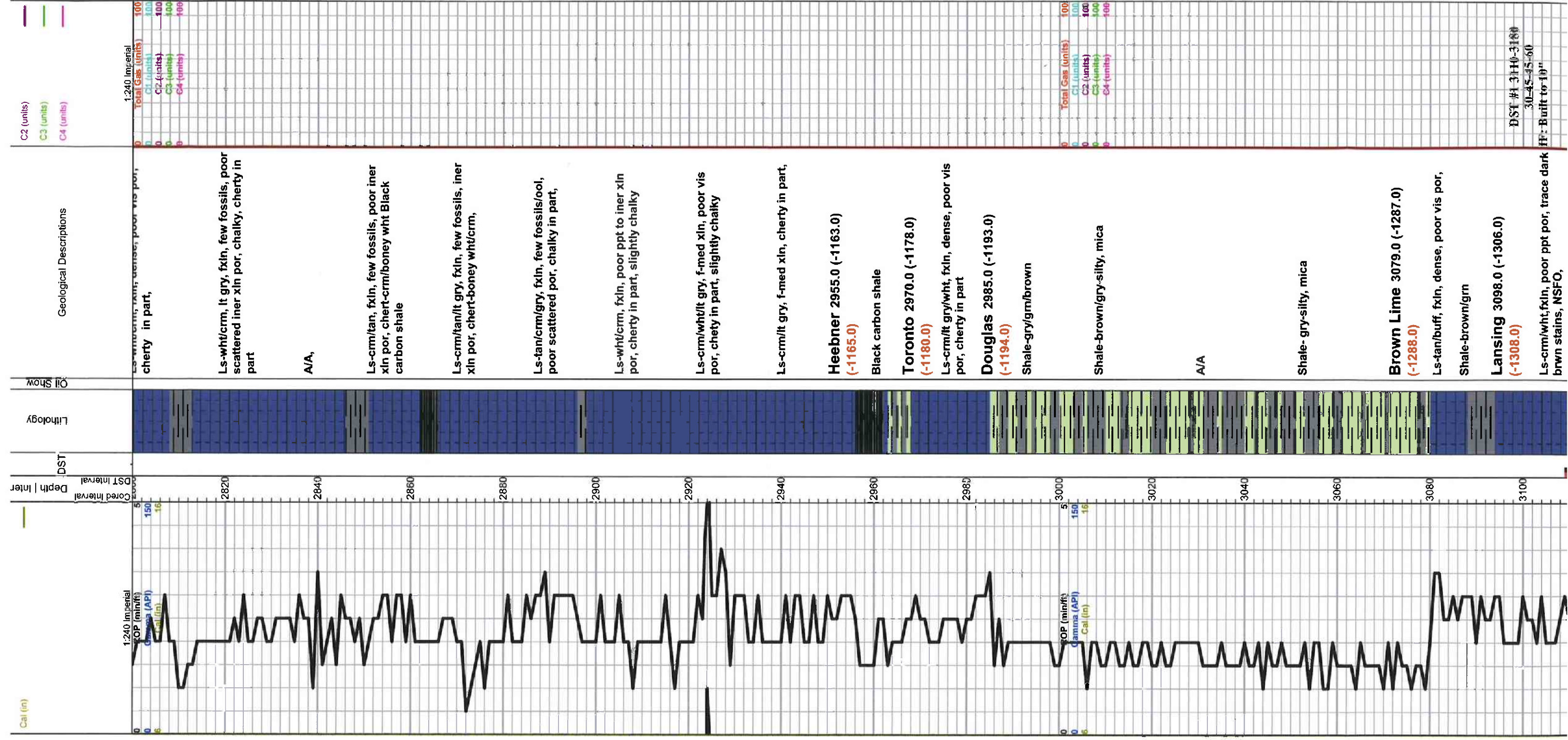
ROCK TYPES	
	Dolprism
	Lmst fw<7
	shale, gm
	shale, gry
	Carbon Sh

OTHER SYMBOLS

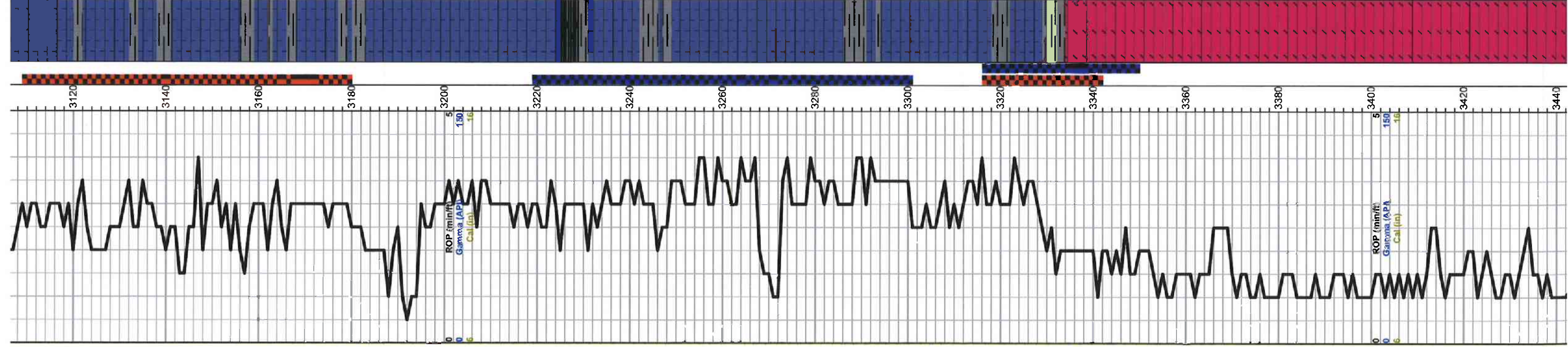
EVENTS
 -L Casing Shoe
 ▲ RTF
 ▲ Sidewall
 ▲ Left Casing Shoe
 ▼ Right Casing Shoe

INTERVALS
 ■ Core
 * DST

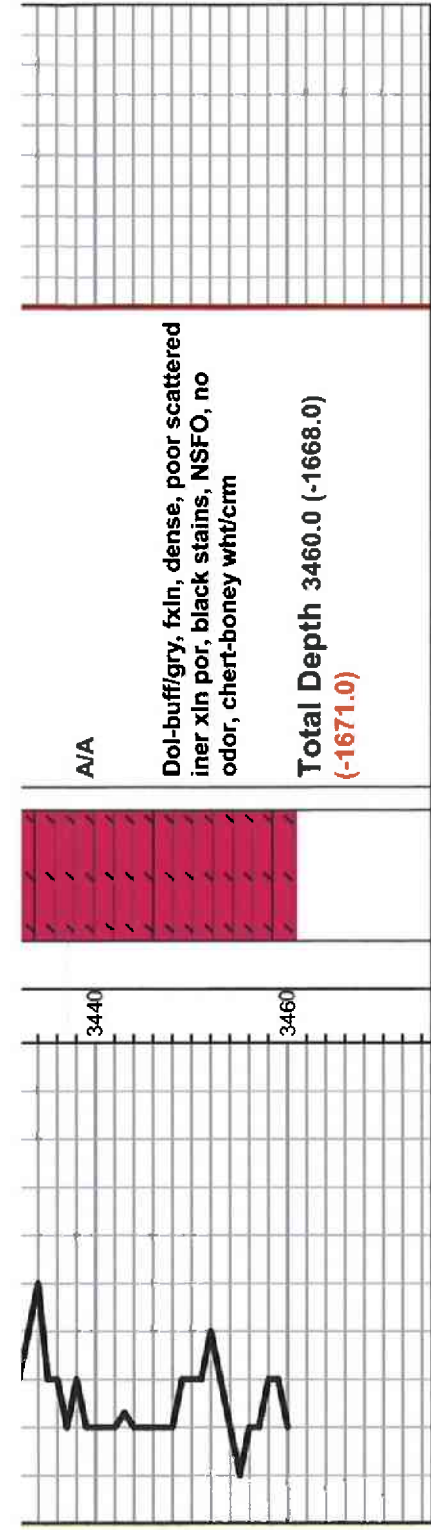
DST
 ■ DST Int
 ■ DST alt



DST # 3110-3180
30-45-45-60
FF: Buirt to 10"



brwn stains, NSFO,	Recovery: 201' SIMCW (92 w 8m)
Ls-wht/crm/lt gry, ool/few fossils, poor ppt to iner xln por, trace stains, Spotty SFO, faint odor, chalky	Pressures: ISIP 614 psi FSIP 589 psi IFP 15-17 psi FFP 79-108 psi HSH 1484-1474 psi
Ls-crm/tan, fxln, ool, iner xln to sub oom por, dark brown stains, TrSFO, faint odor chalky,	
Ls-crm/lt gry, ool, poor vis por, cherty in part, slightly chalky	
Ls-crm/tan, fxln, ool, poor scattered iner ool to sub oom por, scattered dark brown stains, TrSFO, faint odor, chalky	
Ls-crm/tan, fxln, ool, poor vis por, chalky	
Ls-crm/lt gry, fxln, ool, oom por, Trace stains, NSFO, chalky	
Ls-crm/tan/lt gry, fxln, dense, poor vis por, cherty in part,	Total Gas (units) 100 C1 (units) 100 C2 (units) 100 C3 (units) 100 C4 (units) 100
A/A	DST #2 3219-3300 30-30-30-30 IF: Built to 1"
Trace black carbon shale	Recovery: 20' VSIOC (10-99m)
Ls-crm/tan, fxln, scattered oom por, no vis shows, chalky in part,	Pressures: ISIP 136 psi FSIP 64 psi IFP 13-17 psi FFP 20-23 psi HSH 1519-1513 psi
Ls-tan/gry, fxln, ool, dense, poor vis por, cherty in part,	
Ls-wht/crm, fxln, ool, poor to fair iner ool to oom por, dark brown stains, Fair SFO, good odor	DST #3 3316-3341 30-15-15-15 IF: Built to 1 3/4"
Ls-crm/wht, fxln, ool, poor vis por, chert boney wht Shale- gry/bwn/grn	Recovery: 3' Clean Oil 33' OCM (250-75m)
Ls-crm/tan/lt gry, fxln, dense, poor vis por, chert-boney wht/crm	Pressures: ISIP 923 psi FSIP 929 psi IFP 12-18 psi FFP 20-22 psi HSH 1587-1597 psi
A/A	
Shale-brwn/aqua green	
Arbuckle 3334.0 (-1542.0) (-1547.0)	
Dol-tan/gry, fxln, ppt to iner xln por, golden to dark brown stains, SFO, good odor	DST #4 3316-3350 30-45-45-60 IF: BOB 11 min FF: BOB 9 1/2 min
Dol-tan/gry, fine to med xln, fair iner xln por, golden brown stains, Good SFO, good odor	Recovery: 189' GIP 404' Clean Oil 94' OCM (220-78m)
Dol-crm/tan, fine to med xln, fair iner xln por with scattered fair vug por, golden to dark brown stains, SFO, good odor, slightly chalky	Pressures: ISIP 1086 psi FSIP 1065 psi FFP 17-197 psi FFP 116-194 psi HSH 1572-1572 psi
Dol-crm/tan, f-med xln, few rhomb xln, iner xln por, dark brown stains, TrSFO, fair odor, chert-boney wht	Total Gas (units) 100 C1 (units) 100 C2 (units) 100 C3 (units) 100 C4 (units) 100
Dol-crm/tan, f-med rhomb xln, fair iner xln to finely vug por, dark brown to black stains, NSFO, fair odor	
Dol-tan/lt gry, fxln, poor scattered ppt to iner xln por, dark brown to black stains, NSFO, chalky, chert-boney wht	
Dol-crm/tan/lt gry, fxln, poor scattered iner xln por, black stains, NSFO, sour odor chert-boney wht	
A/A	





BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 12058 A

1-20-12

DATE _____ TICKET NO. _____

DATE OF JOB: 2-28-2015	DISTRICT: Pratt, KS	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: LD Drilling, Inc	LEASE: Ernst's	WELL NO. 1-1							
ADDRESS:	COUNTY: Barton	STATE: KS							
CITY:	STATE:	SERVICE CREW: Dsrin, Ed, Gibson							
AUTHORIZED BY:	JOB TYPE: CNW/ 5 1/2 Longstring								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
19843	3/4						2-28	AM	21:30
19860	1/2					ARRIVED AT JOB	2-28	AM	5:30
						START OPERATION	2-28	AM	10:15
						FINISH OPERATION	2-28	AM	11:00
						RELEASED	2-28	AM	12:00
						MILES FROM STATION TO WELL	58		

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: Brandon D Mills
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AD 2 Cement	SK	150		2,550 00
CP103	60/40	SK	30		360 00
CC102	Celloflake	Lb	38		140 00
CC111	SG12	Lb	816		408 00
CC113	Gypsum	Lb	705		528 75
CC129	FLA-322	Lb	113		847 50
CC201	Gilsonite	Lb	900		603 00
CF607	Latch Down Plug & BS Pile, 5 1/2 (Blue)	EG	1		400 00
CF1251	Auto Fill Floss Shoe, 5 1/2 (Blue)	EG	1		360 00
CF1651	Turbolizers 5 1/2 (Blue)	EG	6		660 00
CF1901	5 1/2" BSSket (Blue)	EG	1		290 00
CE131	SUSSr	Lb	50		250 00
CE151	Mud Flush	Gal	1000		1,500 00
E100	Unit milesse Chsrse - Pickups, SWS/USAs & CS15 ^{OR 124}	Mi.	45		202 50
E101	Hesoy Equipment Milesse	Mi.	90		675 00
E113	Proppant 92z Bulk Delivery Chsrse per ton	Tn/M	376		939 38
GE204	Depth Chsrse ' 3001 - 4,000'	Lhr	1		2160 00
GE240	Blenders & mixins Service Chsrse	SK	180		252 00
SO03	Service Supervisor, first 8 hrs on loc	EG	1		175 00
CE504	Plus container utilization chsrse	JOB	1		250 00
SUB TOTAL					13,551 73
CHEMICAL / ACID DATA:					
SERVICE & EQUIPMENT				%TAX ON \$	
MATERIALS				%TAX ON \$	
Discounted TOTAL				ihl	8,486 21

SERVICE REPRESENTATIVE: Varin Kramlich THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Brandon D Mills
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer LD Drilling, Inc	Lease No.	Date 2-28-2015	
Lease Ernsting	Well # 1-1		
Field Order # 12058	Station Pratt, KS	Casing 5 1/2	Depth 3454'
Type Job C.W. - LOWSTRAW	Formation TD-3460'	County Barton	State KS
		Legal Description 1-20-12	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
5 1/2				Pre Pad	Max		5 Min.
Depth 3454	Depth	From	To	Pad	Min		10 Min.
Volume 82	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 3439	Packer Depth	From	To				

Customer Representative David Rosch	Station Manager Kevin Golder	Treater Derin Franklin
---	--	----------------------------------

Service Units	27283	84981	19843	19903	19860				
Driver Names	Derin	E2	E2	Gibson	Gibson				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:30 pm					on location / safety meeting
					5 1/2 15.5# 3454'
					BASIC - #5
					C-1, 3, 5, 7, 9, 11
					150 SK AA2 Cement, 10% SS1#, 10% Gypsum, 1/4# Cellulose, 61bbsk Gilsonite
					14.8 pps, 1.54 veils, 6.52 water
10:15	300		5	5	Pump 5 bbls water
	300		24	5	24 bbls mud flush
	300		5	5	5 bbls water
	300		41	5	mix 150 sk cement
			0	0	Shut down
	0		3	3	Wash pump & lines
			0	0	Release Plug
	150		0	6	Start displacement
	400		50	6	Lift Pressure
	600		70	3	slow rate
	1500		82	3	Bump plug
					Release - Hold
					Plug Rgt hole
11:00 pm					Job complete / Derin & crew



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

1-205-12W

FIELD SERVICE TICKET
1718 12056 A

DATE _____ TICKET NO. _____

DATE OF JOB: <u>2-21-2015</u> DISTRICT: <u>Pratt, KS</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>LD Drilling, Inc</u>		LEASE: <u>Ernsting</u>		WELL NO.: <u>1-1</u>				
ADDRESS:		COUNTY: <u>Barton</u>	STATE: <u>KS</u>					
CITY: _____ STATE: _____		SERVICE CREW: <u>Darin, Ed, Denney</u>						
AUTHORIZED BY:		JOB TYPE: <u>CNW-SURFACES</u>						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	TIME
<u>19843</u>	<u>3 1/4</u>						<u>2-21</u>	<u>8:100</u>
<u>19860</u>	<u>3 1/4</u>					ARRIVED AT JOB	<u>2-21</u>	<u>16:30</u>
						START OPERATION	<u>2-21</u>	<u>12:00</u>
						FINISH OPERATION	<u>2-21</u>	<u>12:45</u>
						RELEASED	<u>2-21</u>	<u>1:05</u>
						MILES FROM STATION TO WELL		<u>51</u>

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: Brandon O Wills
(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	200		3600.00
CP100C	Common Cement	SK	200		3200.00
CC109	Calcium Chloride	Lb	940		987.00
CC102	Cellofloc	Lb	100		370.00
CF15.3	Wooden Cement Plus, 85/8	Eg	1		160.00
CC131	SUGR	Lb	50		250.00
E100	Unit Mileage Charge - Pickups, assembly, etc.	Mi	45		202.50
E101	Heavy Equipment Mileage	Mi	90		475.00
E113	Propose and Bulk Delivery charges, per ton	Ton	846		115.00
CE200	Depth Charge 10' 500'	4 hr	1		1000.00
CE240	Bleeding & Mixing Service Charge	SK	400		560.00
S003	Service Supervisor, first 8 hrs on loc.	Eg	1		175.00
CE504	Plus container utilization Charge	Job	1		250.00
SUB TOTAL					13,544.50

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
Discounted TOTAL		9,481.15

SERVICE REPRESENTATIVE: <u>Darin Franklin</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Brandon O Wills</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>LD Drilling LLC</i>	Lease No.	Date <i>2-21-2015</i>
Lease <i>Ernstings</i>	Well # <i>1-1</i>	
Field Order # <i>12056</i>	Station <i>Pratt, KS</i>	Casing <i>8 5/8</i>
Type Job <i>CNW/Sulfate 8 5/8</i>	Depth <i>350</i>	County <i>Barton</i>
	Formation <i>TD-380</i>	State <i>KS</i>
		Legal Description <i>1-205-12W</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>				Pre Pad	Max		5 Min.	
Depth <i>350</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>24 bbls</i>	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 <i>320</i>	Packer Depth	From	To					

Customer Representative <i>Dan Rosch</i>	Station Manager <i>Kevin Gordley</i>	Treater <i>Darin Franklin</i>
---	---	----------------------------------

Service Units	<i>27763</i>	<i>8498</i>	<i>19843</i>	<i>19903</i>	<i>19860</i>				
Driver Names	<i>Darin</i>	<i>Ed</i>	<i>Ed</i>	<i>Denny</i>	<i>Denny</i>				

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>10:30am</i>					<i>On location / Safety Meeting</i>
					<i>200 SK A-con Blena common, 3% cc</i>
					<i>1/4 # Cellflock, 12.0 pps, 2.47 vcid, 14.48 water</i>
					<i>200 SK common cement, 2% cc, 1/4 #</i>
					<i>Cellflock, 15.6 pps, 1.20 vcid, 5.23 water</i>
<i>12:00pm</i>	<i>200</i>		<i>3</i>	<i>5</i>	<i>Pump 3 bbls water</i>
	<i>200</i>		<i>88</i>	<i>5</i>	<i>mix 200SK less cement</i>
	<i>200</i>		<i>43</i>	<i>5</i>	<i>mix 200SK 1st cement</i>
					<i>Shut down</i>
					<i>Release plug</i>
	<i>200</i>		<i>23</i>	<i>5</i>	<i>Start displacement</i>
<i>12:45pm</i>					<i>Start in</i>
					<i>Cement & Circulate 10 bbls</i>
					<i>Job Complete / Dism & Crew</i>
					<i>THANK YOU!!!</i>