



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1247146
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: _____



1247146

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

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

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

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

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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

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

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

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	McCRARY 9
Doc ID	1247146

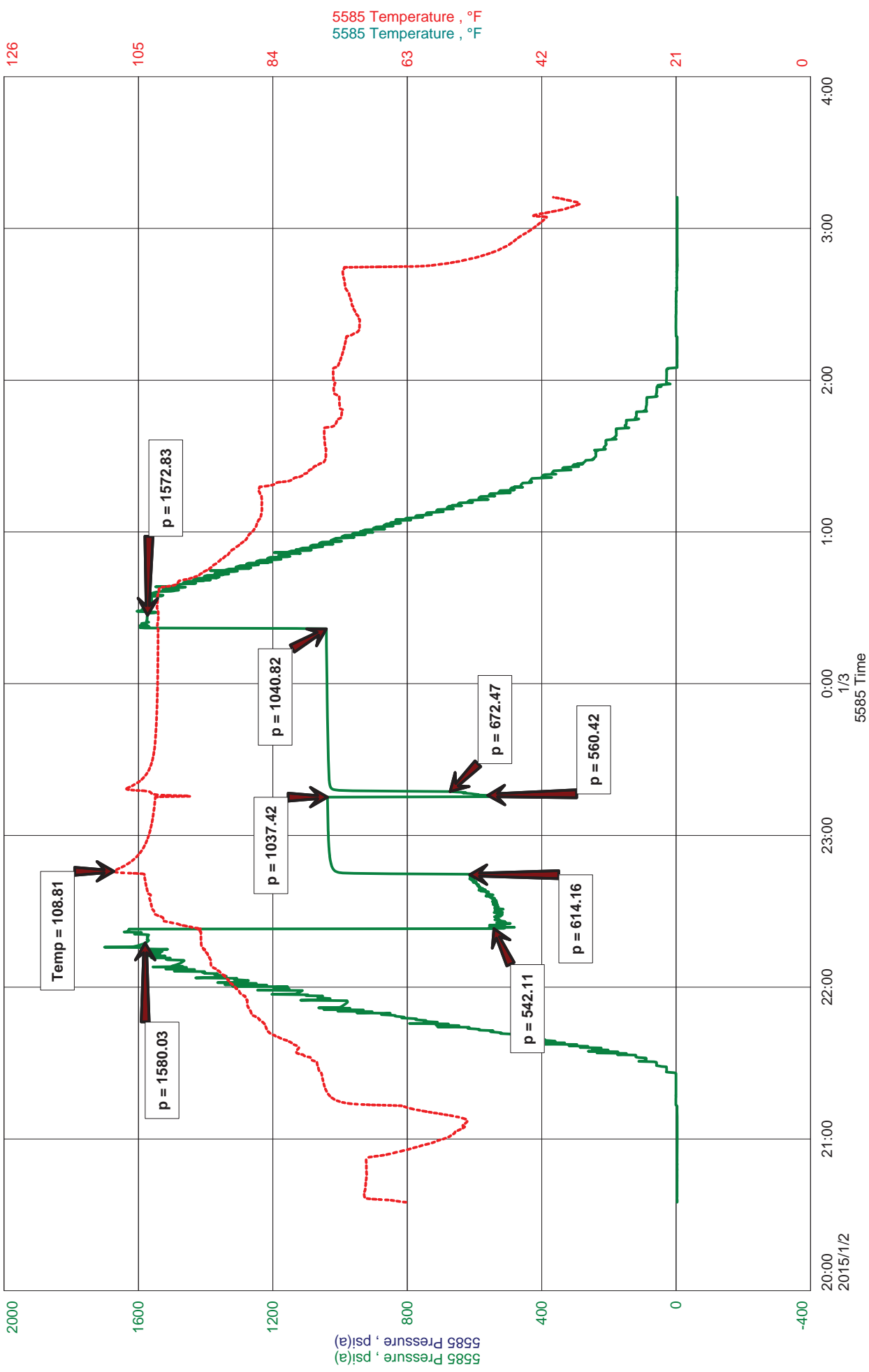
Tops

Name	Top	Datum
ANHYDRITE	682	1184
BASE ANHYDRITE	703	1163
HEEBNER	3118	-1252
TORONTO	3136	-1270
BROWN LIME	3249	-1383
LANSING	3264	-1398
BASE KANSAS CITY	3442	-1576
VIOLA	3488	-1622
SIMPSON	3518	-1652
ARBUCKLE	3566	-1700

LD DRILLING INC
DST1 LANS C-F 3281-3344
Start Test Date: 2015/01/02
Final Test Date: 2015/01/03

McCRARY 9
Formation: DST1 LANS C-F 3281-3344
Pool: WILDCAT
Job Number: A139

McCRARY 9



DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA
CELL # 620-617-7202

General Information

Company Name	LD DRILLING INC	LD DAVIS	Job Number	A139
Contact		McCRRARY 9	Representative	ANDY CARREIRA
Well Name		DST1 LANS C-F 3281-3344	Well Operator	LD DRILLING INC
Unique Well ID		SEC 19-21S-12W STAFFORD CNTY,KS	Report Date	2015/01/02
Surface Location			Prepared By	ANDY CARREIRA
Well License Number				
Field		WILDCAT		
Well Type		Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST1 LANS C-F 3281-3344
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2015/01/02	Start Test Time	20:35:00
Final Test Date	2015/01/03	Final Test Time	03:12:00

Gauge Name	5585
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Test Results

RECOVERY: 123' GOCWM 10%G,5%O,30%W,55%M
406' GOCMW 10%G,5%O,80%W,5%M
529' TOTAL FLUID



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: McCRARY 9 DST1

TIME ON: 20:35
TIME OFF: 03:12

Company LD DRILLING INC Lease & Well No. McCRARY 9
Contractor PETROMARK 2 Charge to LD DRILLING INC
Elevation 1865 GL EST Formation LANS C-F Effective Pay _____ Ft. Ticket No. A139
Date 1-2-15 Sec. 19 Twp. 21 S Range 12 W County STAFFORD State KANSAS
Test Approved By KURT TALBOTT Diamond Representative ANDY CARREIRA

Formation Test No. 1 Interval Tested from 3281 ft. to 3344 ft. Total Depth 3344 ft.
Packer Depth 3276 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3281 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3269 ft. Recorder Number 5585 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3283 ft. Recorder Number 8471 Cap. 10000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 51 Drill Collar Length 123.11 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3000 P.P.M. Drill Pipe Length 3132.89 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number N/A Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? YES Reversed Out NO Anchor Length 63 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: BOB IN 30 SEC. GTS IN 1 MIN. FLUID TO SURFACE IN 4 MIN. (BOBbb)
2nd Open: BOB FOR 8 MIN. DECREASED TO 6" (5"bb)

Recovered 123 ft. of GOCWM 10%G,5%O,30%W,55%M
Recovered 406 ft. of GOCMW 10%G,5%O,80%W,5%M
Recovered 529 ft. of TOTAL FLUID CHLORIDES= 40000 PPM

Recovered _____ ft. of _____	RW= .2 @ 60	
Recovered _____ ft. of _____	PH= 6	Price Job
Recovered _____ ft. of _____		Other Charges
Remarks: <u>DRILLER TURNED TOOL 8 TIMES.INSTEAD OF 5 ON ISI. ONLY ABLE TO TURN TOOL 2 TIMES FOR FINAL SHUT IN</u>		Insurance
<u>TOOL SAMPLE: LESS THAN 1% OIL, WATER</u>		Total

Time Set Packer(s) 10:24 PM A.M. P.M. Time Started Off Bottom 12:19 AM A.M. P.M. Maximum Temperature 109

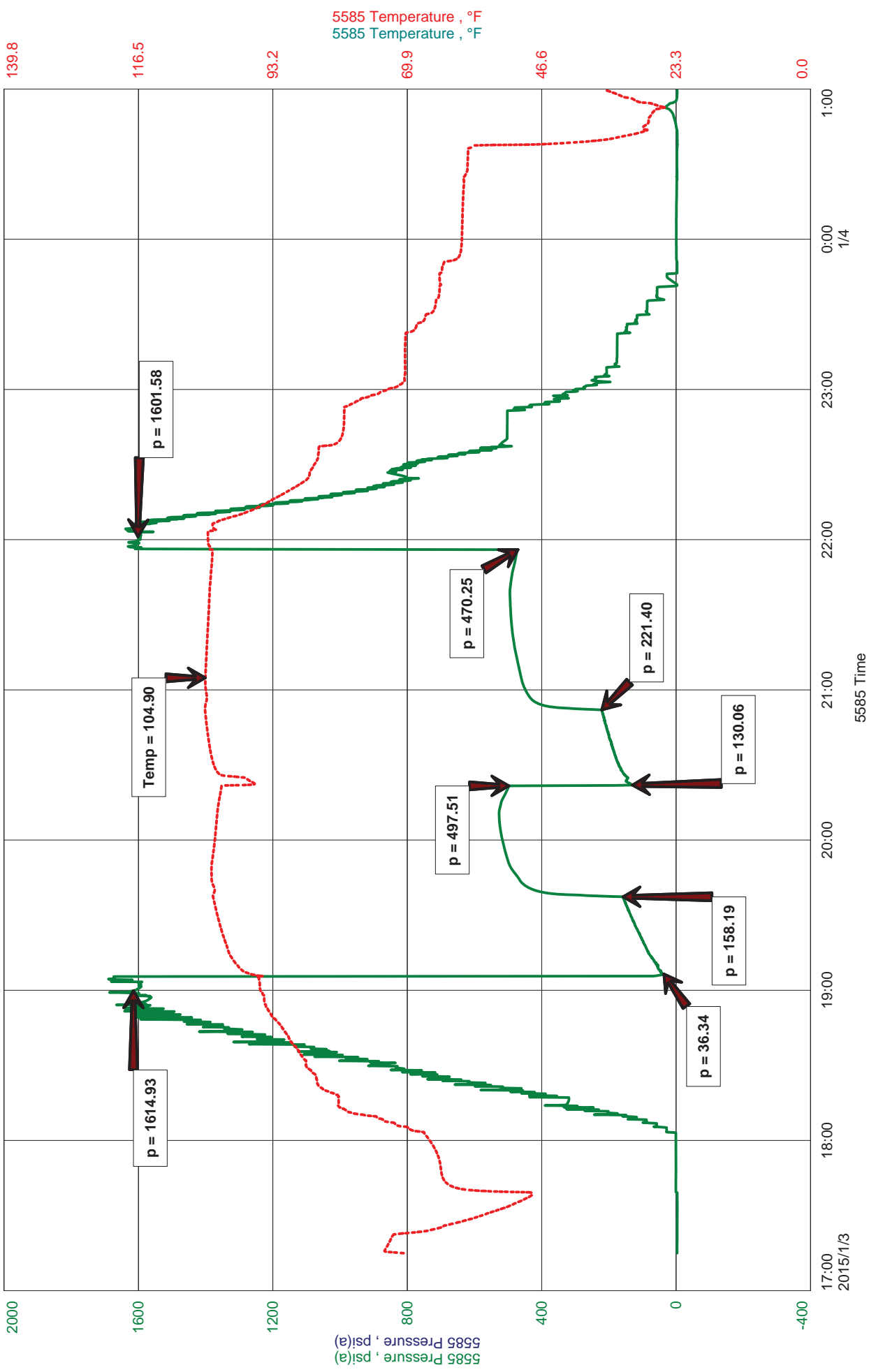
Initial Hydrostatic Pressure..... (A) 1580 P.S.I.
Initial Flow Period..... Minutes 20 (B) 542 P.S.I. to (C) 614 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1037 P.S.I.
Final Flow Period..... Minutes 20 (E) 560 P.S.I. to (F) 672 P.S.I.
Final Closed In Period..... Minutes 45 (G) 1041 P.S.I.
Final Hydrostatic Pressure..... (H) 1573 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.

LD DRILLING INC
DST2 LANS H,I,J 3380-3440
Start Test Date: 2015/01/03
Final Test Date: 2015/01/04

McCRARY 9
Formation: DST2 LANS H,I,J 3380-3440
Pool: WILDCAT
Job Number: A140

McCRARY 9



DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA
CELL # 620-617-7202

General Information

Company Name	LD DRILLING INC	LD DAVIS	Job Number	A140
Contact		McCRARY 9	Representative	ANDY CARREIRA
Well Name		DST2 LANS H,I,J 3380-3440	Well Operator	LD DRILLING INC
Unique Well ID		SEC 19-21S-12W STAFFORD CNTY,KS	Report Date	2015/01/03
Surface Location			Prepared By	ANDY CARREIRA
Well License Number				
Field		WILDCAT		
Well Type		Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST2 LANS H,I,J 3380-3440
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2015/01/03	Start Test Time	17:15:00
Final Test Date	2015/01/04	Final Test Time	01:00:00

Gauge Name	5585
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Test Results

RECOVERY: 112' GOCWM 10%G,5%O,20%W,65%M
63' GOCMW 10%G,10%O,50%W,30%M
315' GOSMW 5%G,2%O,88%W,5%M
490' TOTAL FLUID

CHLORIDES= 14000 PPM
RW= .7 @ 58
PH= 6

TOOL SAMPLE: LESS THAN 1%OIL, WATER



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: McCRARY 9 DST2

TIME ON: 17:15
TIME OFF: 01:00

Company LD DRILLING INC Lease & Well No. McCRARY 9
Contractor PETROMARK 2 Charge to LD DRILLING INC
Elevation 1865 GL EST Formation LANS H,I,J Effective Pay _____ Ft. Ticket No. A140
Date 1-3-15 Sec. 19 Twp. 21 S Range 12 W County STAFFORD State KANSAS
Test Approved By KURT TALBOTT Diamond Representative ANDY CARREIRA

Formation Test No. 2 Interval Tested from 3380 ft. to 3440 ft. Total Depth 3440 ft.
Packer Depth 3375 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3380 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3368 ft. Recorder Number 5585 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3382 ft. Recorder Number 8471 Cap. 10000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type CHEMICAL Viscosity 48 Drill Collar Length 123.11 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5000 P.P.M. Drill Pipe Length 3231.89 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number N/A Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO 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: BOB IN 30 SEC. (10"bb)
2nd Open: BOB IMMEDIATELY (GAS TO SURFACE DURING FINAL SHUT IN) (10"bb)

Recovered 112 ft. of GOCWM 10%G,5%O,20%W,65%M
Recovered 63 ft. of GOCMW 10%G,10%O,50%W,30%M
Recovered 315 ft. of GOSMW 5%G,2%O,88%W,5%M
Recovered 490 ft. of TOTAL FLUID CHLORIDES= 14000 PPM

Recovered _____ ft. of _____	RW= .7 @ 58	Price Job
Recovered _____ ft. of _____	PH= 6	Other Charges
Remarks: _____		Insurance
TOOL SAMPLE: LESS THAN 1% OIL, WATER		Total

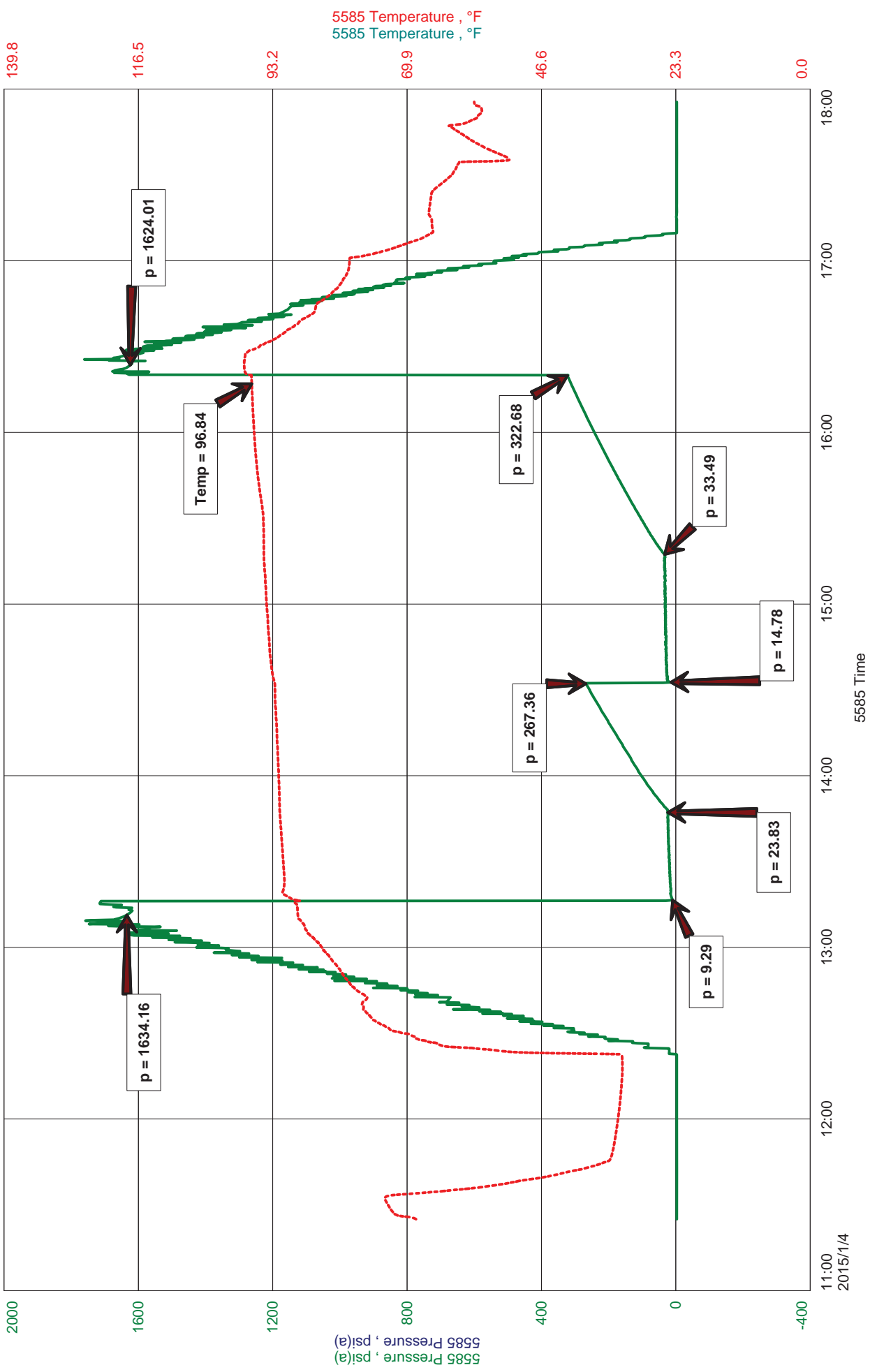
Time Set Packer(s) 7:06 PM A.M. P.M. Time Started Off Bottom 9:51 PM A.M. P.M. Maximum Temperature 105
Initial Hydrostatic Pressure..... (A) 1615 P.S.I.
Initial Flow Period..... Minutes 30 (B) 36 P.S.I. to (C) 158 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 498 P.S.I.
Final Flow Period..... Minutes 30 (E) 130 P.S.I. to (F) 221 P.S.I.
Final Closed In Period..... Minutes 60 (G) 470 P.S.I.
Final Hydrostatic Pressure..... (H) 1602 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.

LD DRILLING INC
DST3 LANS K+L 3436-3500
Start Test Date: 2015/01/04
Final Test Date: 2015/01/04

McCRARY 9
Formation: DST3 LANS K+L 3436-3500
Pool: WILDCAT
Job Number: A141

McCRARY 9



DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA
CELL # 620-617-7202

General Information

Company Name	LD DRILLING INC	LD DAVIS	Job Number	A141
Contact		McCRARY 9	Representative	ANDY CARREIRA
Well Name		DST3 LANS K+L 3436-3500	Well Operator	LD DRILLING INC
Unique Well ID		SEC 19-21S-12W STAFFORD CNTY,KS	Report Date	2014/01/14
Surface Location			Prepared By	ANDY CARREIRA
Well License Number				
Field		WILDCAT		
Well Type		Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST3 LANS K+L 3436-3500
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2015/01/04	Start Test Time	11:25:00
Final Test Date	2015/01/04	Final Test Time	17:55:00

Gauge Name	5585
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Test Results

RECOVERY: 90' GIP
30' MUD
30' TOTAL FLUID

TOOL SAMPLE: 100% MUD



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: McCRARY 9 DST3

TIME ON: 11:25
 TIME OFF: 17:55

Company LD DRILLING INC Lease & Well No. McCRARY 9
 Contractor PETROMARK 2 Charge to LD DRILLING INC
 Elevation 1865 GL EST Formation LANS K+L Effective Pay _____ Ft. Ticket No. A141
 Date 1-4-15 Sec. 19 Twp. 21 S Range 12 W County STAFFORD State KANSAS
 Test Approved By KURT TALBOTT Diamond Representative ANDY CARREIRA

Formation Test No. 3 Interval Tested from 3436 ft. to 3500 ft. Total Depth 3500 ft.
 Packer Depth 3431 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3436 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3424 ft. Recorder Number 5585 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3438 ft. Recorder Number 8471 Cap. 10000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 48 Drill Collar Length 123.11 ft. I.D. 2 1/4 in.
 Weight 9.2 Water Loss 8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 5000 P.P.M. Drill Pipe Length 3287.89 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number N/A Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 64 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: BOB IN 25 MIN. (NObb)
 2nd Open: BOB IN 30 MIN. (NObb)

Recovered 90 ft. of GIP
 Recovered 30 ft. of MUD
 Recovered 30 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: _____	
TOOL SAMPLE: 100% MUD	Total

Time Set Packer(s) 1:17 PM A.M. P.M. Time Started Off Bottom 4:17 PM A.M. P.M. Maximum Temperature 97

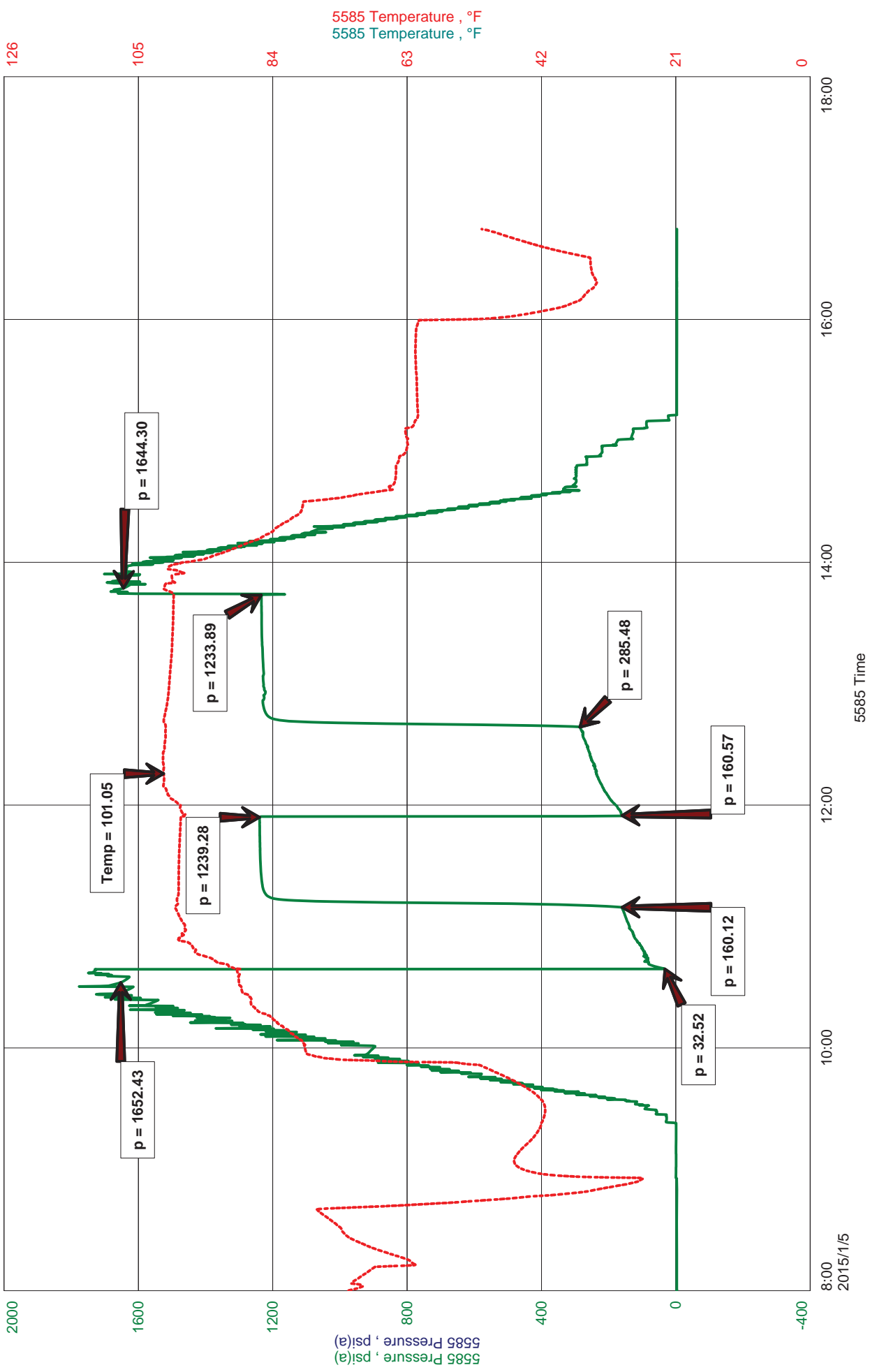
Initial Hydrostatic Pressure..... (A) 1634 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 24 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 267 P.S.I.
 Final Flow Period..... Minutes 45 (E) 15 P.S.I. to (F) 33 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 323 P.S.I.
 Final Hydrostatic Pressure..... (H) 1624 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.

LD DRILLING INC
DST4 SIMPSON-ARBUCKLE 3481-3575
Start Test Date: 2015/01/05
Final Test Date: 2015/01/05

McCRARY 9
Formation: DST4 SIMPSON-ARBUCKLE 3481-3575
Pool: WILDCAT
Job Number: A142

McCRARY 9



DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA
CELL # 620-617-7202

General Information

Company Name	LD DRILLING INC	LD DAVIS	Job Number	A142
Contact		McCRARY 9	Representative	ANDY CARREIRA
Well Name			Well Operator	LD DRILLING INC
Unique Well ID	DST4 SIMPSON-ARBUCKLE 3481-3575		Report Date	2015/01/05
Surface Location	SEC 19-21S-12W STAFFORD CNTY,KS		Prepared By	ANDY CARREIRA
Well License Number				
Field		WILDCAT		
Well Type		Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST4 SIMPSON-ARBUCKLE 3481-3575
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2015/01/05	Start Test Time	08:00:00
Final Test Date	2015/01/05	Final Test Time	16:45:00

Gauge Name	5585
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Test Results

RECOVERY: 1764' GIP
25' SOSGM 20%G,LESS THAN 1%OIL,80%M
126' HOCGM 20%G,25%O,55%M
189' HOCGWM 20%G,40%O,10%W,30%M
315' HOCGWM 20%G,60%O,10%W,10%M
655' TOTAL FLUID

TOOL SAMPLE: 60%O,10%W,30%M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: McCRARY 9 DST4

TIME ON: 08:00
TIME OFF: 16:45

Company LD DRILLING INC Lease & Well No. McCRARY 9
Contractor PETROMARK 2 Charge to LD DRILLING INC
Elevation 1865 GL EST Formation SIMPSON-ARBUCKLE Effective Pay _____ Ft. Ticket No. A142
Date 1-5-15 Sec. 19 Twp. _____ 21 S Range _____ 12 W County STAFFORD State KANSAS
Test Approved By KURT TALBOTT Diamond Representative ANDY CARREIRA

Formation Test No. 4 Interval Tested from 3481 ft. to 3575 ft. Total Depth 3575 ft.
Packer Depth 3476 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3481 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3469 ft. Recorder Number 5585 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3483 ft. Recorder Number 8471 Cap. 10000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 60 Drill Collar Length 123.11 ft. I.D. 2 1/4 in.
Weight 9.8 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 6000 P.P.M. Drill Pipe Length 3332.89 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number N/A Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 94 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: BOB IN 4 MIN. (3"bb)
2nd Open: BOB IN 5 MIN. (1/2"bb)

Recovered <u>1764</u> ft. of <u>GIP</u>	
Recovered <u>25</u> ft. of <u>SOSGM 20%G, LESS THAN 1%OIL, 80%M</u>	
Recovered <u>126</u> ft. of <u>HOCGM 20%G, 25%O, 55%M</u>	
Recovered <u>189</u> ft. of <u>HOCGWM 20%G, 40%O, 10%W, 30%M</u>	
Recovered <u>315</u> ft. of <u>HOCGWM 20%G, 60%O, 10%W, 10%M</u>	Price Job
Recovered <u>655</u> ft. of <u>TOTAL FLUID</u>	Other Charges
Remarks: _____	Insurance
<u>TOOL SAMPLE: 60%OIL, 10%WATER, 30%MUD</u>	Total

Time Set Packer(s) 10:39 AM A.M. P.M. Time Started Off Bottom 1:39 AM A.M. P.M. Maximum Temperature 101

Initial Hydrostatic Pressure..... (A) 1652 P.S.I.
Initial Flow Period..... Minutes 30 (B) 33 P.S.I. to (C) 160 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1239 P.S.I.
Final Flow Period..... Minutes 45 (E) 161 P.S.I. to (F) 285 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1234 P.S.I.
Final Hydrostatic Pressure..... (H) 1644 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.



Musgrove
 Petroleum Geology
 212 Main Street, Claflin KS

Geologist's Report

Company: L.D. Drilling, Inc.
 Lease: McCrary #9
 Field: Mueller
 Surface Location: SE-NE-SW-SE (950' FSL & 1641' FEL)
 Sec: 19 Twp: 21S Rge: 12W
 County: Stafford State: Kansas
 GL: 1861' KB: 1866'

Contractor: Petromark Drilling Rig #2
 Spud: 12/29/14 Comp: 1/5/15
 RTD: 3575' LTD: 3572'
 Mud Up: +/- 2600' Mud Type: Chemical Displaced

Drilling Time Kept From: 3000' to RTD
 Samples Saved From: 3000' to RTD
 Samples Examined: 3000' to RTD
 Geological Supervision: 3200' to RTD
 Geologist on Well: Jim Musgrove and Kurt Talbott

Surface Casing: 8 5/8" @ 377'
 Production Casing: 5 1/2" @

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

Well Comparison

FORMATION	WELL BEING DRILLED CHARTER MCCRARY #9 1866 KB		OFFSET HARBAR DRILLING MCCRARY #2 1868 KB		OFFSET MIDSTATES MCCRARY #6 1880 KB	
	LD	SS	LD	SS	LD	SS
ANHYDRITE	682	1184				
BASE ANHYDRITE	703	1163				
HEEBNER	3118	-1252				
TORONTO	3136	-1270				
BROWN LIME	3249	-1383				
LANSING	3264	-1398	3267	-1399	3276	-1395
BASE KC	3442	-1576				
VIOLA	3488	-1622	3486	-1618	3503	-1623
SIMPSON	3518	-1652	3509	-1641	3533	-1653
ARBUCKLE	3566	-1700	3562	-1694	3586	-1683
TOTAL DEPTH	3572	-1706	3570	-1702	3593	-1690

Spot Location



ROCK TYPES

- Cht: shale, gry
- Dolprim: Carbon Sh
- Lmst fw<7: shale, gm
- shale, red: Ss
- Silst: Silst

EVENTS

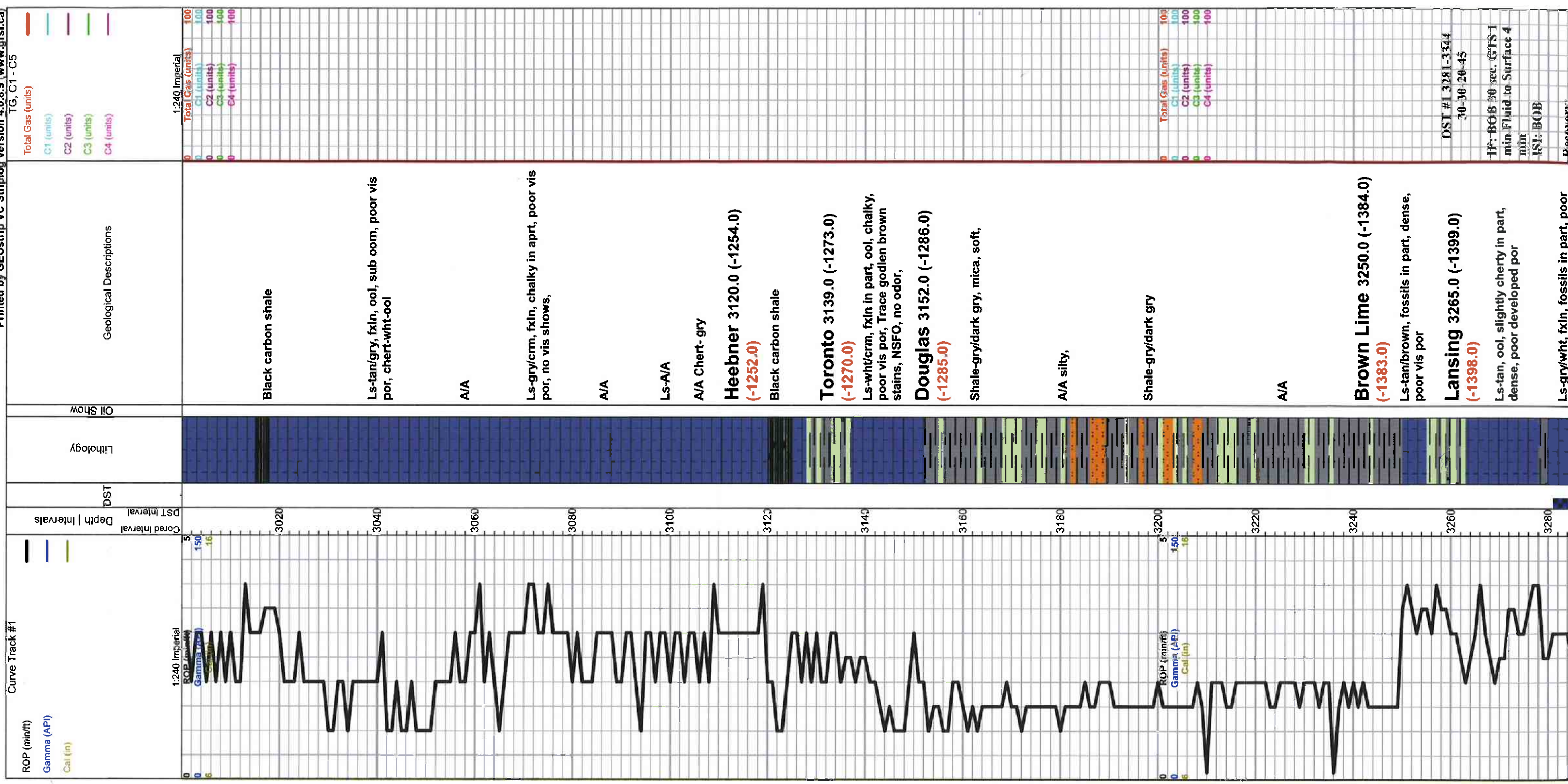
- 1. Casing Shoe
- 2. RTE

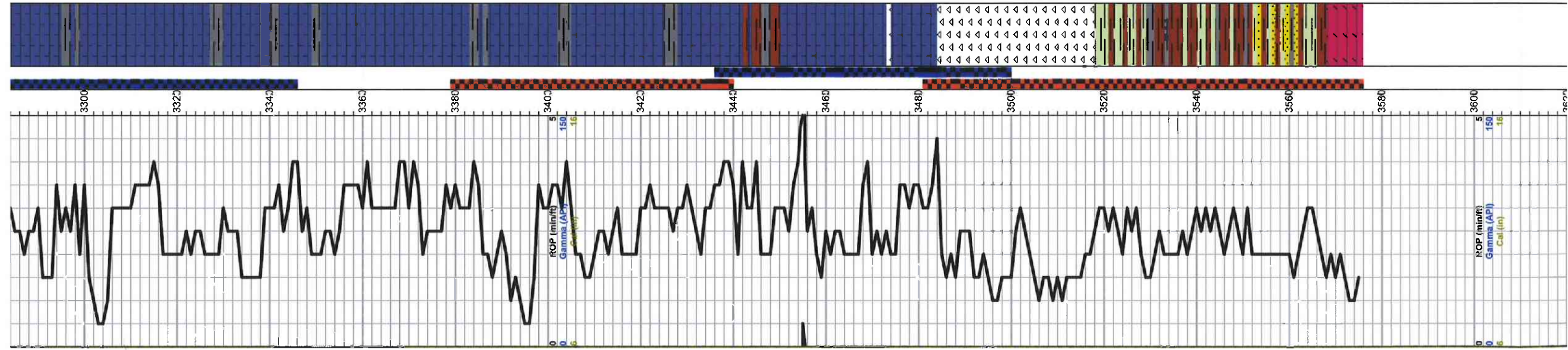
INTERVALS

- Core
- DST

OTHER SYMBOLS

- DST Int
- DST alt





123' GOCWM 10g 50-30w-55m 406' GOCMW 10g 50-80w-5m	Pressures: ISIP 1037 psi FSIP 1041 psi FFP 542-614 psi FFP 560-672 psi HSH 1580-1573 psi	Kurt Talbott From 3345 to RTD DST #1 3380-3440 30-45-30-60 IF: BOB 4 min	Recovery: 112' GOCWM 10g 50-20w-65m 63' GOCMW 10g 10-50w-30m 315' GSOCMW 5g 20-88w-5m	Pressures: ISIP 498 psi FSIP 470 psi IFP 36-158 psi FFP 130-221 psi HSH 1615-1602 psi	Total Gas (units) >100 C1 (units) 100 C2 (units) 100 C3 (units) 100 C4 (units) 100	DST #3 3436-3500 30-45-45-60 IF: BOB 25 min	Recovery: 90' GIP 30' Mud	Pressures: ISIP 267 psi FSIP 323 psi IFP 9-24 psi FFP 15-33 psi HSH 1634-1624 psi	DST #4 3481-3575 30-45-45-60 IF: BOB 4 min	Recovery: 1764' GIP 25' VSOGM 10 20g 80m 126' HOCGM 20g 250-55m 189' HOCGM 20g 400-10w-36m 345' HOCGM 20g 600-10w-10m	Pressures: ISIP 1239 psi ESIP 1234 psi IFP 33-160 psi FFP 161-285 psi HSH 1652-1644 psi	Total Gas (units) 100 C1 (units) 100 C2 (units) 100 C3 (units) 100 C4 (units) 100										
fossil cast por, golden brown to light brown stains, NSFO, faint to fair odor	LS-gry/tan, highly fossiliferous, scattered por, trace black dark brwn stains, NSFO, Faint odor,	LS-whtgry, fxln, chalky, poor vis por,	LS-wht/lt gry/tan, fxln, ool, sub oom por, trace light brown stains, TrSFO, no odor,	LS-crm/wht/tan, fxln, ool, poor inner ool to sub oom por, Trace stains, NSFO, no odor	LS-gry/tan, fxln, dense, poor vis por, chalky, Shale-gry/brown/blk	LS-tan/gry, fxln, dense, poor vis por, chalky in part,	LS-tan/crm/gry, fxln, ool, oom por, dark brown stains, Fair SFO, good odor,	LS-wht/lt gry, fxln, ool, poor to fair inner ool to oo mpor, light brown stains, TrSFO, good odor	LS-wht/crm, fxln, poor inner ool por, dark brown stains, TrSFO, faint to fair odor	LS-crm/tan, fxln, ool, poor inner ool por, dark brown spotty stains, NSFO, chalky Shale-gry/brwn	LS-crm/tan/wht, fxln, ool, poor vis por, cherty in part, chalky	Shale-gry/grn	Viola 3484.0 (-1618.0) (-1622.0)	Chert-boney wht/crm, scattered semi trip,	Chert-boney wht/crm/tan,	Simpson 3520.0 (-1654.0) (-1652.0)	Shale-maroon/brwn/grn	Shale-maroon/turq	Sand-clear/brwn, fine grained, well sorted, sub round, poor inner gran por, golden brwn stain/saturation, TrSFO, faint odor	Arbuckle 3566.0 (-1700.0) (0.0)	Dol-tan/buff, fxln, poor to fair inner xln to finely vug por, golden to dark brown stains, SFO, good odor	Total Depth 3575.0 (-1709.0) (-1706.0)



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 11667 A

19-215-12W

DATE _____ TICKET NO. _____

DATE OF JOB: 1-6-2015	DISTRICT: Prosser, 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: L. D. Drilling Inc.		LEASE: McGarry		WELL NO. 9					
ADDRESS:		COUNTY: Stafford		STATE: KS					
CITY:		STATE:		SERVICE CREW: D. King, James B., Scott G.					
AUTHORIZED BY:		JOB TYPE: CNW / 5 1/2 tons strings							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
27283	1						1-6	PM	12:10
27463	1					ARRIVED AT JOB	1-6	AM	5:30
19959	1					START OPERATION	1-6	AM	11:00
73768	1					FINISH OPERATION	1-6	AM	12:00
						RELEASED	1-6	PM	1:00
						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: Brandon D Willis
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	102 Cement	SK	150		2550 00
CP103	60/40 po2	SK	30		360 00
CC102	Cellofibre	Lb	38		140 60
CC111	SSIT	Lb	816		408 00
CC113	Gypsum	Lb	705		528 75
CC129	FLD-322	Lb	113		847 50
CC201	Gilsonite	Lb	900		603 00
CF607	Leach Down Plus & Baffle, 5 1/2 (Blue)	ES	1		400 00
CF1001	Cementing shoe picker type, 5 1/2 (Red)	ES	1		3700 00
CF1651	Turbolizers, 5 1/2 (Blue)	ES	6		660 00
CF190	5 1/2 BSSket (Blue)	ES	1		290 00
CC151	Mud Flush	Gal	500		750 00
E100	Unit Mileage Charge - Pickups, Sm. trucks & cabs	Mi	45		202 50
E101	Hesup Equipment Mileage	Mi	90		675 00
E113	Proppant size Bulk Delivery Charges per ton mile	Ton/mi	376		939 38
CE204	Depn charge, 3001-4000	Yr	1		2160 00
CE240	Blowdown & Trans Service Charge	SK	180		252 00
CE504	Plus container utilization charge	Job	1		250 00
SC03	Service Supervisory first 8 hrs on loc.	ES	1		175 00
SUB TOTAL					15,891 73
CHEMICAL / ACID DATA:		SERVICE & EQUIPMENT		%TAX ON \$	
		MATERIALS		%TAX ON \$	
Discarded TOTAL					11,124 21

SERVICE REPRESENTATIVE: Darin Kravitz
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Brandon D Willis
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer <i>LD Drilling</i>	Lease No.	Date <i>1-6-2015</i>
Lease <i>McGarry</i>	Well # <i>9</i>	
Field Order # <i>11667</i>	Station <i>Pratt, KS</i>	Casing <i>5 1/2</i>
		Depth <i>3568</i>
Type Job <i>CPW/5 1/2 Lonsstring</i>	Formation <i>TD-</i>	Legal Description <i>19-218-12W</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>				Pre Pad	Max		5 Min.	
Depth <i>3568</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>85</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>3553</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>David Rosch</i>	Station Manager <i>Kevin Goraley</i>	Treater <i>Derin Franklin</i>
Service Units <i>27283 27463 19955 73768</i>		
Driver Names <i>Derin Jensen Scott G. Scott C.</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>5:30pm</i>					<i>on location / SSPeqy meetings</i>
					<i>3568' 5 1/2 casing 15' shoe</i>
					<i>Turbolizers -</i>
					<i>Basket -</i>
					<i>150 SK AA 2 cement, 10% SSlt, 10% Gypsum</i>
					<i>.8% Fluid loss, .25 lb/sk coil pipe, 6 lb/sk</i>
					<i>Gilsonite, 14.8 pps, 1.54 veils, 6.52 water</i>
					<i>30SK 60/40 po2 290 Gr, 14.8 pps,</i>
<i>11:00am</i>	<i>300</i>		<i>5</i>	<i>4</i>	<i>pump 5 bbls water</i>
	<i>300</i>		<i>12</i>	<i>4</i>	<i>12 bbls mud flush</i>
	<i>300</i>		<i>5</i>	<i>4</i>	<i>5 bbls water</i>
	<i>300</i>		<i>41</i>	<i>4</i>	<i>mix 150SK cement</i>
			<i>0</i>		<i>shut down</i>
	<i>100</i>		<i>3</i>	<i>3</i>	<i>wash pump & lines</i>
			<i>0</i>		<i>Release plus</i>
	<i>100</i>		<i>0</i>	<i>6</i>	<i>SSlt displacement</i>
	<i>500</i>		<i>57</i>	<i>6</i>	<i>Lift pressure</i>
	<i>800</i>		<i>75</i>	<i>3</i>	<i>slow rate</i>
	<i>1,500</i>		<i>81</i>	<i>3</i>	<i>Bump plus</i>
					<i>Release - Held</i>
					<i>plus rest here</i>

Customer <i>L.O. Daulton</i>	Lease No.	Date <i>02-03-13</i>	
Lease <i>MCCRAY</i>	Well # <i>9</i>	Field Order # <i>11775</i>	Station <i>PRAT#</i>
Casing <i>3 1/2</i>	Depth	County <i>STAFFORD</i>	State <i>KS</i>
Type Job <i>CNW Square</i>	Formation	Legal Description <i>19-21-12</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>3 1/2</i>	<i>2 1/8</i>			Pre Pad	Max		5 Min.	
Depth	Depth	From	To	Pad	Min		10 Min.	
Volume <i>.7</i>	Volume <i>205</i>	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	Packer Depth <i>3536</i>	From	To					

Customer Representative	Station Manager <i>Tom Scott</i>	Treater <i>R. Gary Sullivan</i>
-------------------------	-------------------------------------	------------------------------------

Service Units	<i>3290</i>	<i>33708</i>	<i>20920</i>	<i>19826</i>	<i>23769</i>	<i>19905</i>			
Driver Names	<i>Phil</i>	<i>Eric</i>		<i>Phil</i>		<i>Kevin</i>			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:00</i>					<i>20 bbl</i>
<i>8:50</i>			<i>3</i>		<i>Load records</i>
	<i>500</i>				<i>DS</i>
<i>8:57</i>					<i>1st Injection Note</i>
		<i>1100</i>	<i>2</i>	<i>34</i>	
<i>9:03</i>			<i>5</i>		<i>M Oil SPACED</i>
					<i>M mixing and</i>
			<i>16.5</i>		<i>and mix</i>
			<i>5</i>		<i>M and SPACED</i>
					<i>ST DISK</i>
		<i>1,000</i>	<i>21.5</i>		<i>and out on Pools</i>
<i>10:00</i>		<i>2,000</i>			<i>shut down stage</i>
<i>10:10</i>		<i>1500</i>			<i>PSI BACK</i>
		<i>2,000</i>	<i>28</i>		<i>STAGE</i>
		<i>1800</i>			
<i>10:20</i>		<i>2000</i>	<i>30</i>		<i>PSI</i>
<i>10:23</i>	<i>0</i>	<i>C</i>			<i>Release PSI 30 sec out Pools</i>
<i>10:25</i>	<i>700</i>			<i>1</i>	<i>Downed out</i>
<i>10:48</i>			<i>24</i>		<i>shut down</i>
<i>11:00</i>	<i>200</i>			<i>1</i>	<i>Run to be wash through</i>
			<i>55</i>		<i>shut down Pull 10 J+1</i>
<i>11:45</i>	<i>500</i>	<i>500</i>			<i>PSI shut in 503 Comdite</i>



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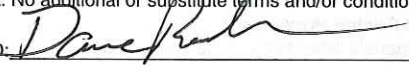
FIELD SERVICE TICKET
1718 11549 A

DATE _____ TICKET NO. _____

DATE OF JOB 12-29-14 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		LEASE McCrary WELL NO. 9							
ADDRESS		COUNTY Stafford STATE Ks							
CITY STATE		SERVICE CREW Josh Dale Joe							
AUTHORIZED BY		JOB TYPE: CNW 8 5/8 SURFACE							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
27463	20						12-29-14	PM	1815
19903-21010	20					ARRIVED AT JOB	12-29-14	AM	2030
92911						START OPERATION		AM	2200
						FINISH OPERATION		AM	2300
						RELEASED		AM	2300
						MILES FROM STATION TO WELL			45

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

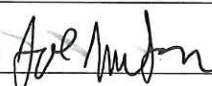
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. 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.

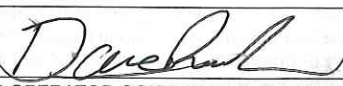
SIGNED: 
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	A-con Blend common	SIS	175		3,150 00
CP 100C	Common cement	SIS	175		2,800 00
CC 102	cello slabs	lb	88		325 60
CC 109	Calcium chloride	lb	825		866 25
CF 153	Wooden cement Plug	eq	1		160 00
F 100	Pickup mileage	mi	45		202 50
F 101	Heavy mileage	mi	90		675 00
F 113	Bulk Delivery	TM	743		1,856 25
CF 200	Depth Charge	4hr	1		1,000 00
CF 240	mixing Charge	SIS	350		490 00
CF 504	Plug Container	JOB	1		250 00
S 003	Supervision	eq	1		175 00

CHEMICAL / ACID DATA:			

SUB TOTAL		11,950 60
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
Dis counted TOTAL		8,365 42

SERVICE REPRESENTATIVE 
FIELD SERVICE ORDER NO.

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: 
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

