

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	WEEKS 1-11
Doc ID	1418694

Tops

Name	Top	Datum
ANHYDRITE	2320	388
BASE ANHYDRITE	2353	355
STOTLER	3443	735
HEEBNER	3792	1084
LANSING	3829	1121
BASE KANSAS CITY	4058	1350
PAWNEE	4218	1510
FORT SCOTT	4270	1562
CHEROKEE	4292	1584
MISSISSIPPI	4376	1668

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	WEEKS 1-11
Doc ID	1418694

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	300	COMMON	275	2%Gel,3% CC
Production	7.875	5.5	15.5	4226	A-Conn	350	3% CC
Production	7.875	5.5	15.5	4226	AA-2	150	10%Salt,10%Gypsum
Production	7.875	5.5	15.5	4226	60/40 Pozmix	30	@ Rathole



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

11-9-28

FIELD SERVICE TICKET
1718 16730 A

DATE _____ TICKET NO. _____

DATE OF JOB: 5/1/2018	DISTRICT: P98d1ks	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: weeks				WELL NO. 1-11			
ADDRESS:		COUNTY: Sheridan		STATE: KS					
CITY:		STATE:		SERVICE CREW: Dgrin, Keven, Ed					
AUTHORIZED BY:		JOB TYPE: 2421P 8 5/8 Surface							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19843	1/2						5/1	PM	4:30
19860	1/2						5/1	PM	9:30
							5/1	AM	10:35
							5/1	PM	10:45
							5/1	AM	11:00
						MILES FROM STATION TO WELL	193		

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: R. W. White
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP100	Common	SK	275		4,400 00	
CC102	Cellof19ke	Lb	69		255 30	
CC109	Calcium Chloride	Lb	777		815 85	
CC200	Cement Gel	Lb	518		129 50	
E100	Unit milesse Chsrse - Pickups, small usrs CS	m.	100		450 00	
E101	Heavy Equipment + milesse	m.	200		1,500 00	
E113	Proppsnt + gnd Bulk Delivery chsrse per ton mtr	tn/m	1295		3,237 50	
CE200	Depth Chsrse 0-500	4hr	1		1,000 00	
CE240	Blending & mixing Service Chsrse	SK	275		385 00	
5003	Service Supervisor, first 8 hrs on loc.	ES	1		175 00	
					SUB TOTAL	12,348 15

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
Discounted TOTAL		7038	45

SERVICE REPRESENTATIVE: Vasin Kankar
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: R. W. White
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Customer <i>LD Drilling</i>	Lease No.	Date <i>5/1/2018</i>
Lease <i>Wrecks</i>	Well # <i>1-11</i>	
Field Order # <i>16730</i>	Station <i>Pratt, KS</i>	Casing <i>8 5/8</i>
	Depth <i>303</i>	County <i>Sheridan</i>
Type Job <i>242/8 5/8 surface</i>	Formation <i>TD-303</i>	Legal Description <i>11-9-28</i>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>8 5/8</i>							
Depth <i>303</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>19.3</i>	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>283</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <i>283</i>	Packer Depth	From	To	Flush <i>Freshwater</i>	Gas Volume		Total Load

Customer Representative <i>RICIC</i>	Station Manager <i>Justin Westerman</i>	Treater <i>Darin Friskien</i>
-----------------------------------------	--------------------------------------------	----------------------------------

Service Units <i>92911 84981 19843 19960 19860</i>									
Driver Names <i>Darin Keven Keven Ed Ed</i>									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>11:45pm</i>					<i>On location / 59ft, mixed 275 sic cement, 2% 601 3% calcium chloride, 1/4# Cellofloc 15.0pps, 1.34yeilz, 6.13 water</i>
<i>10:30pm</i>	<i>300</i>		<i>3</i>	<i>5</i>	<i>Pump 3 bbls water</i>
	<i>300</i>		<i>66</i>	<i>5</i>	<i>mix 275 sic cement</i>
	<i>300</i>		<i>18</i>	<i>5</i>	<i>Displace 18 bbl's water</i>
<i>10:45pm</i>					<i>Shut in</i>
					<i>Cement dia Circulsk-3bbl's</i>
					<i>Job Complete / Darin & Crew Thank You!!!</i>



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

Job Log

Customer:	LD DRILLING INC.	Cement Pump No.:	38119-19570 <i>AKRS</i>	Operator TRK No.:	98815		
Address:		Ticket #:	1718-15686 L	Bulk TRK No.:	30463-37547	14355-37724	
City, State, Zip:		Job Type:	Z-42 PRODUCTION				
Service District:		Well Type:	OIL				
Well Name and No.:	WEEKS 1-11	Well Location:	47066	County:	SHERIDAN	State:	KS

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-CON	350	3%CaCl, 1/4#POLYFLAKE	30463-37547	Front	Back
AA-2	150	10%GYPSUM, 10%SALT, 65%FLUID LOSS, .5%DEFOAMER, 1/4#POLYFLAKE, 6#GILSONITE	14355-37724	Front	Back
60/40 POZ	30	4%GEL		Front	Back

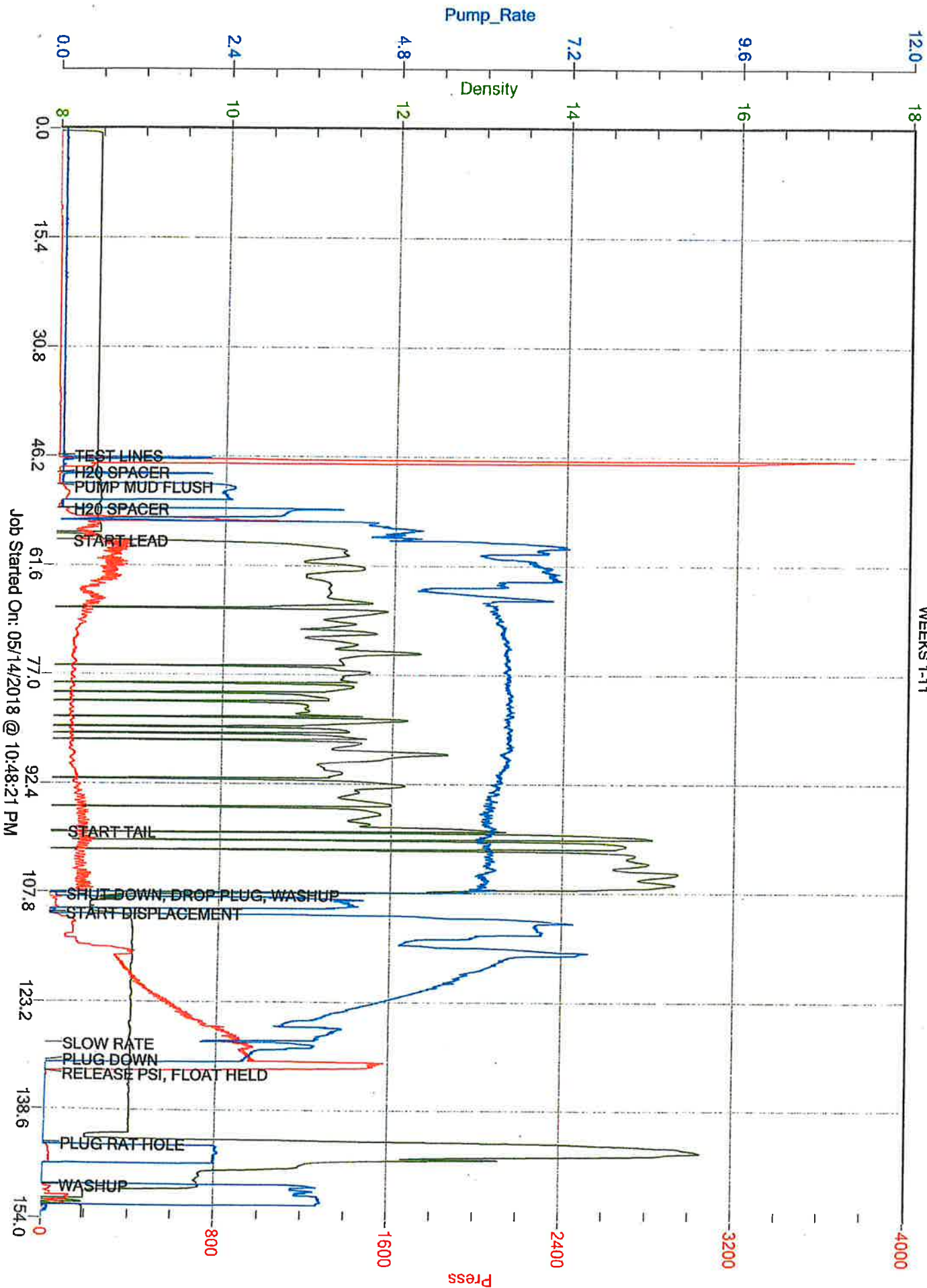
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	11.2	3.16	19.63	1106	Man Hours:	<i>48</i>
Tail:	14.8	1.54	6.51	231	# of Men on Job:	5

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
							CENT 1,3,5,7,9,11,13,15 BASKETS 1,3,13,37,51,75
11:00 PM							ON LOC, SAFTEY MTG, R.U.
12:35 AM					3700		TEST LINES
0:38	2.3	5			30		H2O SPACER
0:40	4	24			130		PUMP MUD FLUSH
12:46 AM	4.5	5			200		H2O SPACER
0:48	6.4				300		START LEAD@11.2#
1:31	6.2	197			150		START TAIL @ 14.8#
1:37		41					SHUT DOWN, DROP PLUG, WASHUP
1:40	6.5				120		START DISPLACEMENT
1:58	3	90			940		SLOW RATE
2:01		100			940-1520		PLUG DOWN
2:03					1520-0		RELEASE PSI, FLOAT HELD
2:12							PLUG RH
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!
							CIRCULATED 70 SX TO PIT

Size Hole	7 7/8	Depth	4450'		TYPE	
Size & Wt. Csg.	5 1/2 15.5	Depth	4225'	New / Used	Packer	Depth
tbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP

Customer Signature:	<i>Mark Davis By DL Scott</i>	Basic Representative:	<i>CHAD HINZ</i>
		Basic Signature:	<i>[Signature]</i>
		Date of Service:	5/14/2018

LD DRILLING INC.
WEEKS 1-11





Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
May
07
2018

DST #1 Formation: Toronto Test Interval: 3799 - 3825' Total Depth: 3825'

Time On: 01:40 05/07 Time Off: 09:05 01/01
 Time On Bottom: 03:59 05/07 Time Off Bottom: 06:59 05/07

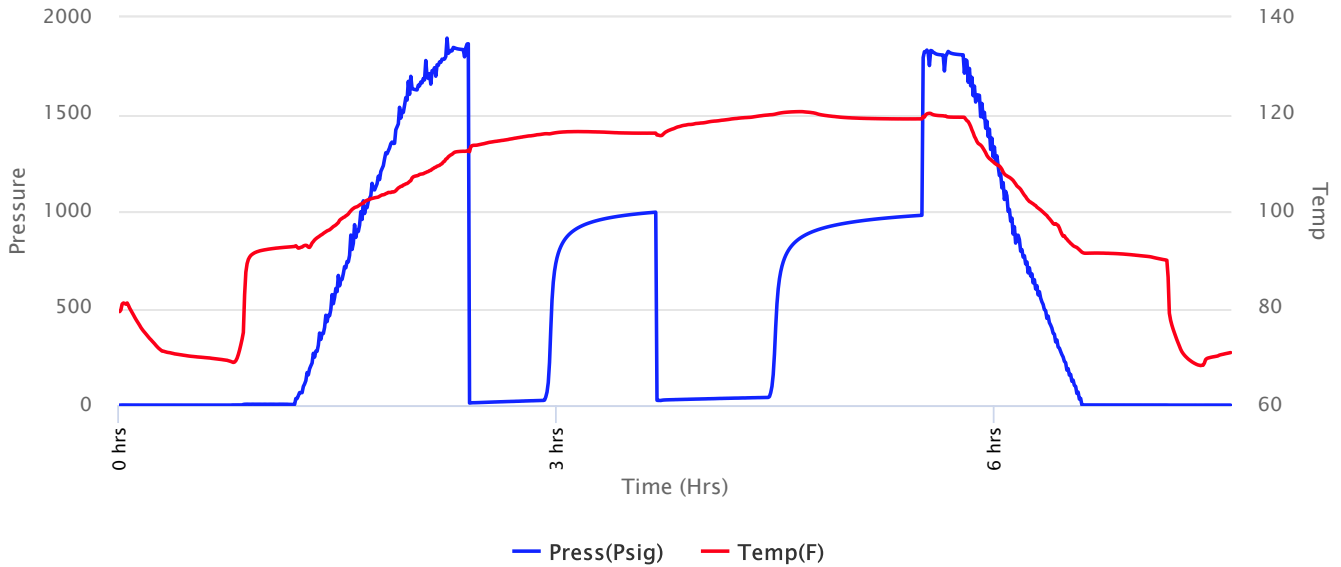
Electronic Volume Estimate:
138'

1st Open
Minutes: 30
6.2" at 30 min

1st Close
Minutes: 45
0" at 45 min

2nd Open
Minutes: 45
7.4" at 45 min

2nd Close
Minutes: 60
0" at 60 min





Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
 May
07
 2018

DST #1 Formation: Toronto Test Interval: 3799 - 3825' Total Depth: 3825'

Time On: 01:40 05/07 Time Off: 09:05 01/01
 Time On Bottom: 03:59 05/07 Time Off Bottom: 06:59 05/07

Recovered

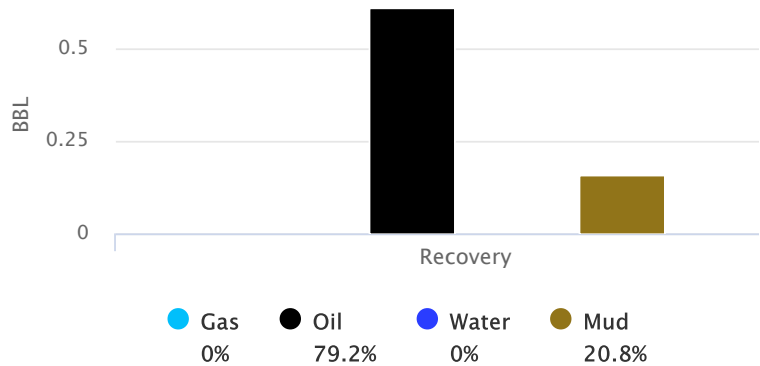
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
35	0.3591	O	0	100	0	0
40	0.4104	HMCO	0	61	0	39

Total Recovered: 75 ft
 Total Barrels Recovered: 0.7695

Reversed Out
 NO

Initial Hydrostatic Pressure	1797	PSI
Initial Flow	12 to 25	PSI
Initial Closed in Pressure	996	PSI
Final Flow Pressure	26 to 40	PSI
Final Closed in Pressure	980	PSI
Final Hydrostatic Pressure	1724	PSI
Temperature	121	°F
Pressure Change Initial Close / Final Close	1.6	%

Recovery at a glance





Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE May 07 2018

DST #1 Formation: Toronto Test Interval: 3799 - 3825' Total Depth: 3825'

Time On: 01:40 05/07 Time Off: 09:05 01/01
 Time On Bottom: 03:59 05/07 Time Off Bottom: 06:59 05/07

Down Hole Makeup

Heads Up: 10.25 FT	Packer 1: 3794 FT
Drill Pipe: 3776.68 FT <i>ID-3 1/4</i>	Packer 2: 3799 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3783.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3801 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 26	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/4</i>	
Change Over: 0 FT	
Perforations: (below): 25 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
County: SHERIDAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2703 EGL
Field Name: Solomon Fork
Pool: Infield
Job Number: 142

<p>DATE May 07 2018</p>

DST #1 **Formation: Toronto** **Test Interval: 3799 - 3825'** **Total Depth: 3825'**

Time On: 01:40 05/07 Time Off: 09:05 01/01
Time On Bottom: 03:59 05/07 Time Off Bottom: 06:59 05/07

Mud Properties

Mud Type: Chemical **Weight:** 9.0 **Viscosity:** 54 **Filtrate:** 6.4 **Chlorides:** 1,400 ppm



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
 May
07
 2018

DST #2 **Formation: Lansing "A"** **Test Interval: 3824 - 3840'** **Total Depth: 3840'**
 Time On: 15:07 05/07 Time Off: 22:59 05/07
 Time On Bottom: 17:50 05/07 Time Off Bottom: 20:50 05/07

Recovered

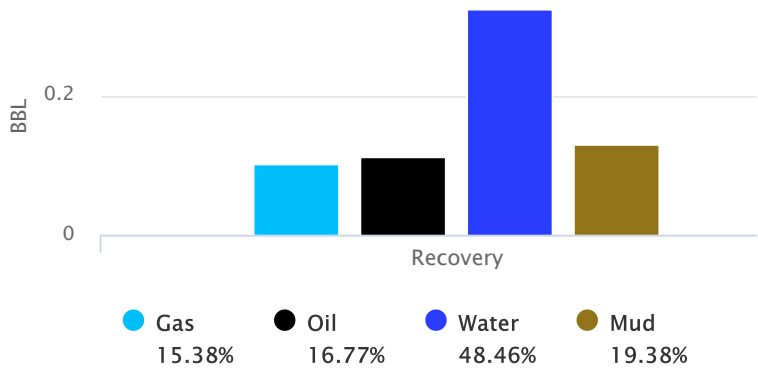
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
10	0.1026	G	100	0	0	0
10	0.1026	O	0	100	0	0
45	0.4617	SLOCMCW	0	2	70	28

Total Recovered: 65 ft
 Total Barrels Recovered: 0.6669

Reversed Out
 NO

Initial Hydrostatic Pressure	1845	PSI
Initial Flow	11 to 21	PSI
Initial Closed in Pressure	1037	PSI
Final Flow Pressure	22 to 35	PSI
Final Closed in Pressure	1030	PSI
Final Hydrostatic Pressure	1843	PSI
Temperature	119	°F
Pressure Change Initial Close / Final Close	0.7	%

Recovery at a glance





Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
County: SHERIDAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2703 EGL
Field Name: Solomon Fork
Pool: Infield
Job Number: 142

DATE May 07 2018

DST #2	Formation: Lansing "A"	Test Interval: 3824 - 3840'	Total Depth: 3840'
	Time On: 15:07 05/07	Time Off: 22:59 05/07	
	Time On Bottom: 17:50 05/07	Time Off Bottom: 20:50 05/07	

REMARKS:

IF: 2 3/4 inch blow
ISI: No BB
FF: 3 1/4 inch blow
FSI: No BB

TOOL SAMPLE: TRACE OIL, 100% WATER

Gravity: 28.9 @ 60 degrees F

Ph: 6.5

RW: .15 @ 75 degrees F

Chlorides: 49,000 ppm



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
 May
08
 2018

DST #3 **Formation: Lansing "B"** **Test Interval: 3850 - 3868'** **Total Depth: 3868'**
 Time On: 06:06 05/08 Time Off: 14:31 05/08
 Time On Bottom: 08:08 05/08 Time Off Bottom: 11:08 05/08

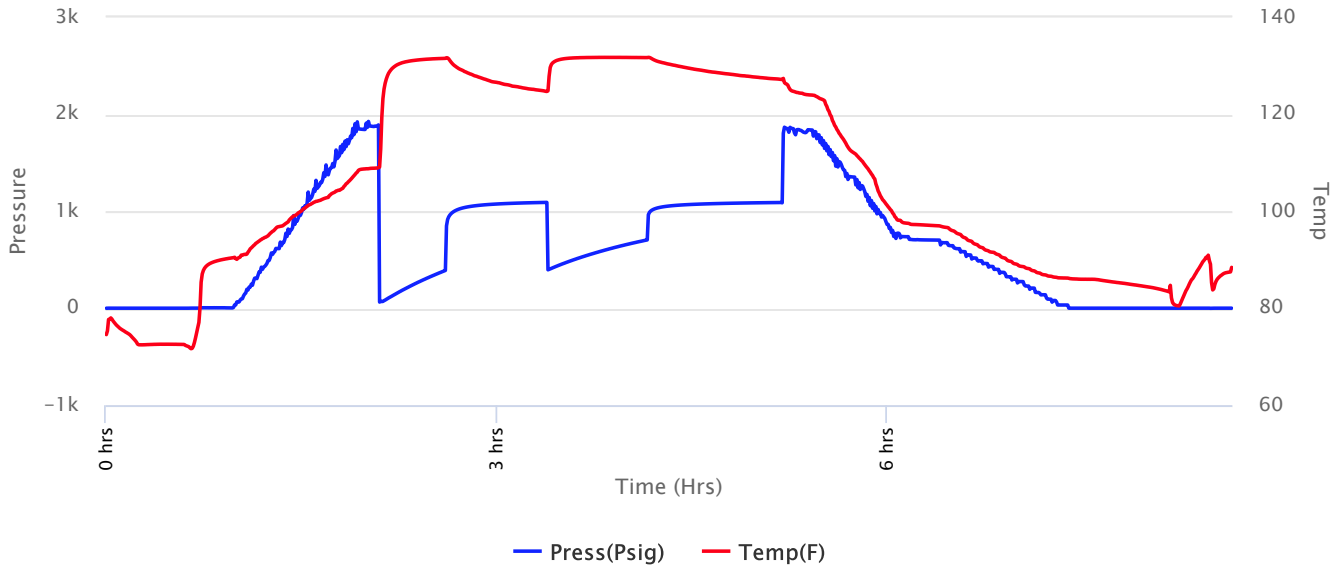
Electronic Volume Estimate:
 1735'

1st Open
 Minutes: 30
 91.4" at 30 min

1st Close
 Minutes: 45
 0" at 45 min

2nd Open
 Minutes: 45
 98.0" at 45 min

2nd Close
 Minutes: 60
 2.6" at 60 min





Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
County: SHERIDAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2703 EGL
Field Name: Solomon Fork
Pool: Infield
Job Number: 142

DATE May 08 2018

DST #3	Formation: Lansing "B"	Test Interval: 3850 - 3868'	Total Depth: 3868'
	Time On: 06:06 05/08	Time Off: 14:31 05/08	
	Time On Bottom: 08:08 05/08	Time Off Bottom: 11:08 05/08	

REMARKS:

IF: BOB 3 min.
ISI: 1/4 inch BB
FF: BOB 4 1/2 min.
FSI: 2 1/4 inch BB

We slid about 2-3 feet when setting tool.

TOOL SAPLE: 3% OIL, 97% WATER

Gravity: 29.7 @ 60 degrees F

Ph: 7.0

RW: .11 @ 79 degrees F

Chlorides: 55,000 ppm



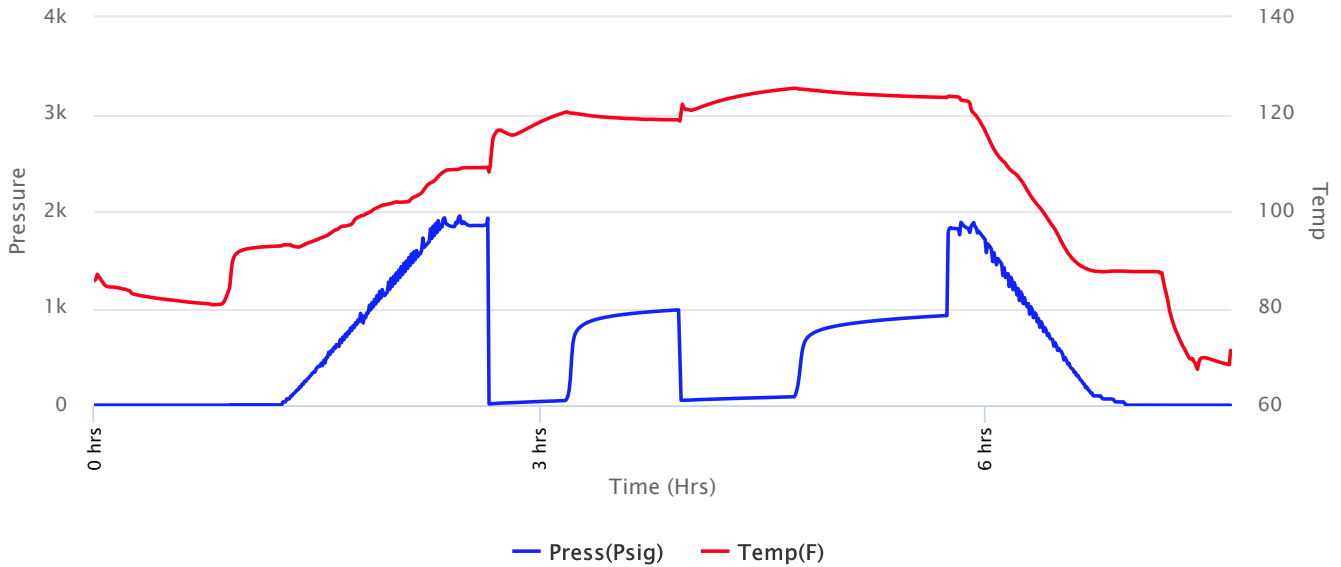
Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
 May
08
 2018

DST #4 **Formation: Lansing "D"** **Test Interval: 3868 - 3880'** **Total Depth: 3880'**
 Time On: 20:35 05/08 Time Off: 04:01 05/09
 Time On Bottom: 23:10 05/08 Time Off Bottom: 02:10 05/09

Electronic Volume Estimate: 503'	<u>1st Open</u> Minutes: 30 24.0" at 30 min	<u>1st Close</u> Minutes: 45 0" at 45 min	<u>2nd Open</u> Minutes: 45 26.0" at 45 min	<u>2nd Close</u> Minutes: 60 0" at 60 min
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Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
 May
08
 2018

DST #4 **Formation: Lansing "D"** **Test Interval: 3868 - 3880'** **Total Depth: 3880'**
 Time On: 20:35 05/08 Time Off: 04:01 05/09
 Time On Bottom: 23:10 05/08 Time Off Bottom: 02:10 05/09

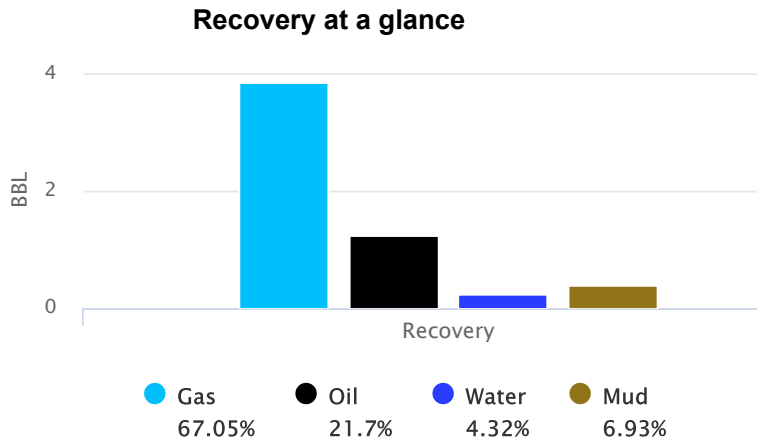
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
370	3.7962	G	100	0	0	0
110	1.1286	SLGCO	3	97	0	0
20	0.2052	SLGCSLWCHMCO	5	38	19	38
60	0.6156	SLGCSLOCHWCM	2	12	34	52

Total Recovered: 560 ft
 Total Barrels Recovered: 5.7456

Reversed Out
 NO

Initial Hydrostatic Pressure	1855	PSI
Initial Flow	14 to 49	PSI
Initial Closed in Pressure	984	PSI
Final Flow Pressure	51 to 87	PSI
Final Closed in Pressure	925	PSI
Final Hydrostatic Pressure	1854	PSI
Temperature	126	°F
Pressure Change Initial Close / Final Close	5.9	%





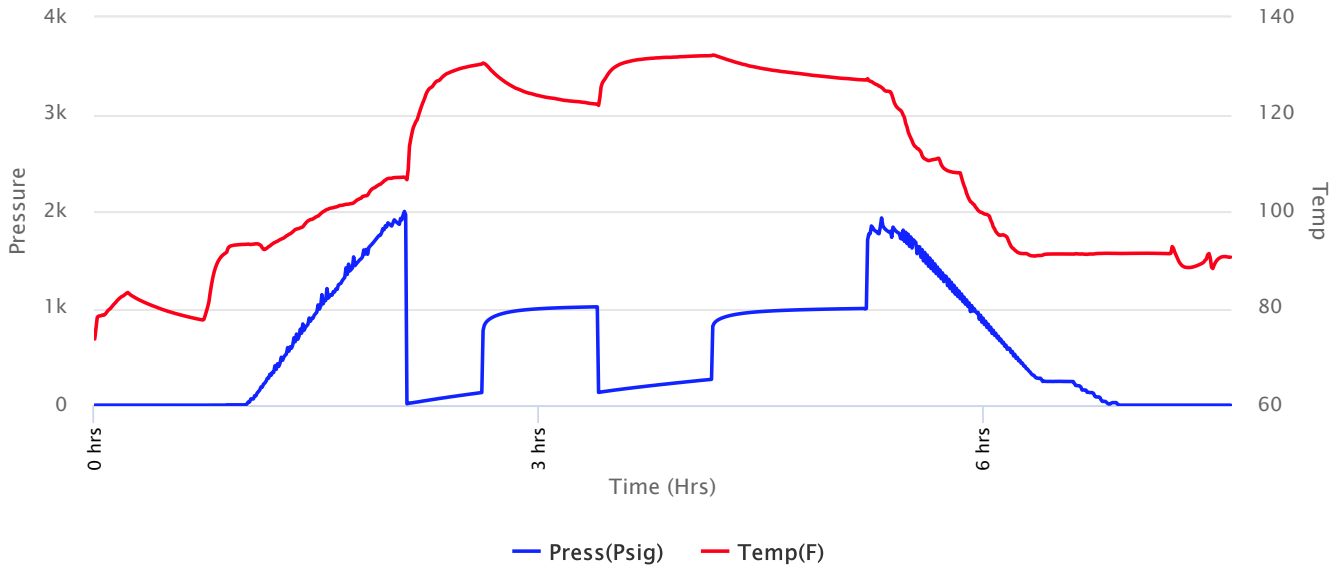
Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
 May
09
 2018

DST #5 **Formation: LKC "E-F"** **Test Interval: 3893 - 3908'** **Total Depth: 3908'**
 Time On: 10:20 05/09 Time Off: 17:47 05/09
 Time On Bottom: 12:23 05/09 Time Off Bottom: 15:23 05/09

Electronic Volume Estimate: 588'	<u>1st Open</u> Minutes: 30 26.2" at 30 min	<u>1st Close</u> Minutes: 45 0" at 45 min	<u>2nd Open</u> Minutes: 45 32.0" at 45 min	<u>2nd Close</u> Minutes: 60 0" at 60 min
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Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
 May
09
 2018

DST #5 Formation: LKC "E-F" Test Interval: 3893 - 3908' Total Depth: 3908'

Time On: 10:20 05/09 Time Off: 17:47 05/09
 Time On Bottom: 12:23 05/09 Time Off Bottom: 15:23 05/09

Recovered

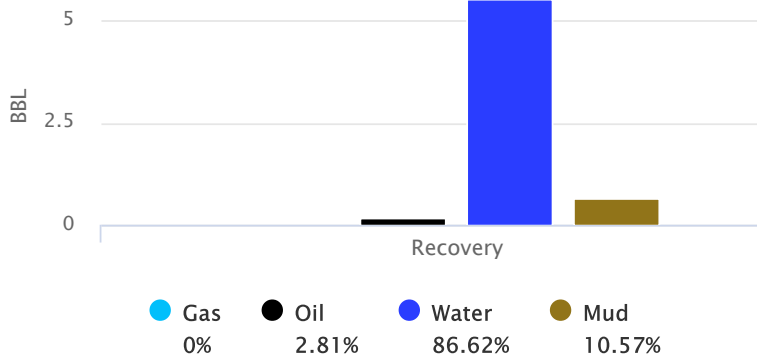
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
10	0.1026	O	0	100	0	0
175	1.7955	SLOCHMCW	0	3	67	30
435	4.4631	SLMCW (trace O)	0	.5	96.5	3

Total Recovered: 620 ft
 Total Barrels Recovered: 6.3612

Reversed Out
 NO

Initial Hydrostatic Pressure	1866	PSI
Initial Flow	16 to 131	PSI
Initial Closed in Pressure	1015	PSI
Final Flow Pressure	133 to 268	PSI
Final Closed in Pressure	998	PSI
Final Hydrostatic Pressure	1853	PSI
Temperature	133	°F
Pressure Change Initial Close / Final Close	1.7	%

Recovery at a glance





Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
County: SHERIDAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2703 EGL
Field Name: Solomon Fork
Pool: Infield
Job Number: 142

<p>DATE May 09 2018</p>

DST #5 **Formation: LKC "E-
F"** **Test Interval: 3893 -
3908'** **Total Depth: 3908'**

Time On: 10:20 05/09

Time Off: 17:47 05/09

Time On Bottom: 12:23 05/09

Time Off Bottom: 15:23 05/09

REMARKS:

IF: BOB 12 1/2 min

ISI: 1/4 inch BB

FF: BOB 16 min.

FSI: Surface BB

TOOL SAMPLE: TRACE OIL, 99% WATER, 1% MUD

Gravity: 26 @ 60 degrees F

Ph: 7.0

RW: .13 @ 82 degrees F

Chlorides: 45,000 ppm



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE May 09 2018

DST #5 **Formation: LKC "E-F"** **Test Interval: 3893 - 3908'** **Total Depth: 3908'**

Time On: 10:20 05/09 Time Off: 17:47 05/09
 Time On Bottom: 12:23 05/09 Time Off Bottom: 15:23 05/09

Down Hole Makeup

Heads Up: 10.36 FT	Packer 1: 3888 FT
Drill Pipe: 3870.79 FT <i>ID-3 1/4</i>	Packer 2: 3893 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3877.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3895 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 15	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/4</i>	
Change Over: 0 FT	
Perforations: (below): 14 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
County: SHERIDAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2703 EGL
Field Name: Solomon Fork
Pool: Infield
Job Number: 142

<p>DATE May 09 2018</p>

DST #5 **Formation: LKC "E-
F"** **Test Interval: 3893 -
3908'** **Total Depth: 3908'**

Time On: 10:20 05/09 Time Off: 17:47 05/09
Time On Bottom: 12:23 05/09 Time Off Bottom: 15:23 05/09

Mud Properties

Mud Type: Chemical **Weight:** 9.0 **Viscosity:** 47 **Filtrate:** 6.2 **Chlorides:** 1,700 ppm



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
May
09
2018

DST #5 **Formation: LKC "E-
F"** **Test Interval: 3893 -
3908'** **Total Depth: 3908'**

Time On: 10:20 05/09 Time Off: 17:47 05/09
 Time On Bottom: 12:23 05/09 Time Off Bottom: 15:23 05/09

Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
------	---------	-----	-------



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
May
10
2018

DST #6 Formation: LKC "H" Test Interval: 3943 - 3969' Total Depth: 3969'

Time On: 03:07 05/10 Time Off: 10:21 05/10
 Time On Bottom: 05:05 05/10 Time Off Bottom: 08:05 05/10

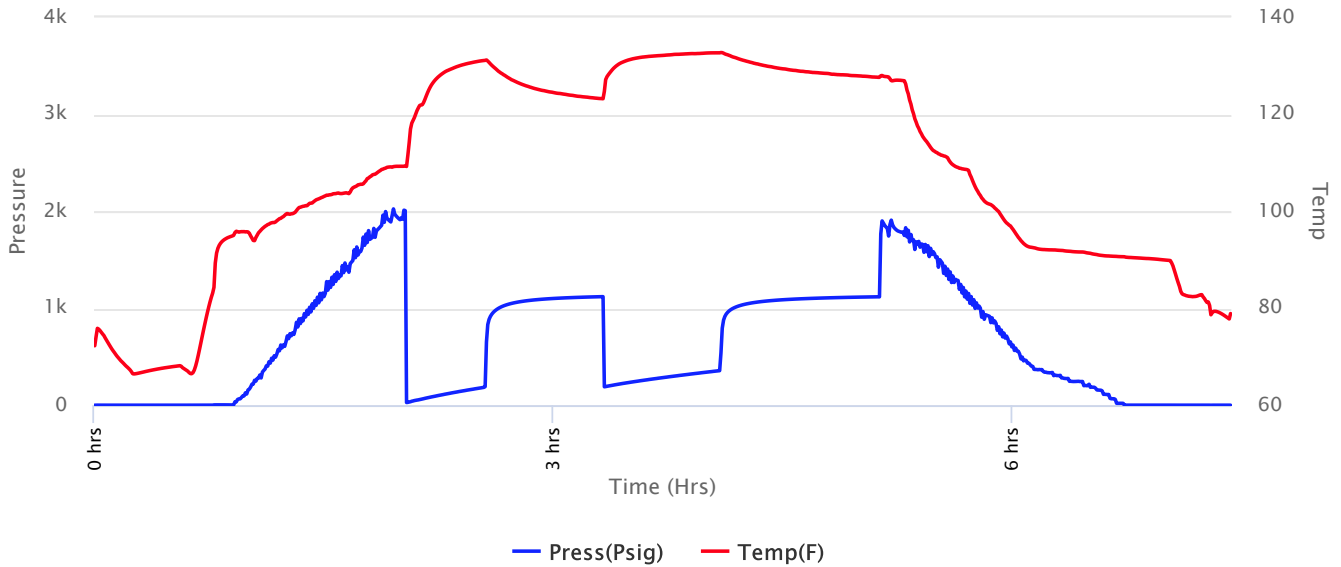
Electronic Volume Estimate:
960'

1st Open
Minutes: 30
44.3" at 30 min

1st Close
Minutes: 45
2.1" at 45 min

2nd Open
Minutes: 45
47.0" at 45 min

2nd Close
Minutes: 60
3.5" at 60 min





Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
 May
10
 2018

DST #6 Formation: LKC "H" Test Interval: 3943 - 3969' Total Depth: 3969'

Time On: 03:07 05/10 Time Off: 10:21 05/10
 Time On Bottom: 05:05 05/10 Time Off Bottom: 08:05 05/10

Recovered

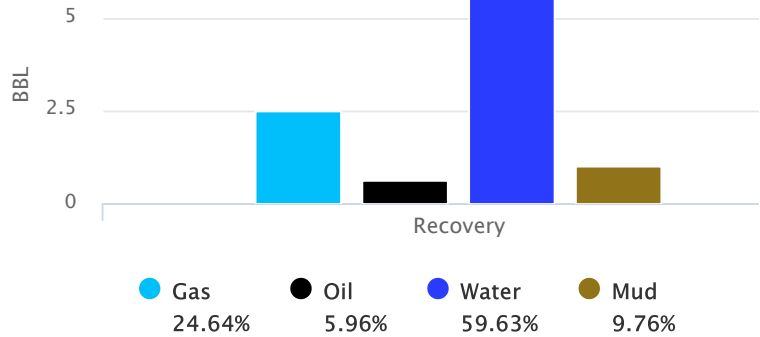
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
235	2.4111	G	100	0	0	0
45	0.4617	SLGCO	2	98	0	0
155	1.5903	SLGCSLOCHMCW	6	8	45	41
560	5.7456	SLMCW (trace O)	0	.5	93.5	6

Total Recovered: 995 ft
 Total Barrels Recovered: 10.2087

Reversed Out
 NO

Initial Hydrostatic Pressure	1914	PSI
Initial Flow	28 to 192	PSI
Initial Closed in Pressure	1120	PSI
Final Flow Pressure	191 to 357	PSI
Final Closed in Pressure	1118	PSI
Final Hydrostatic Pressure	1909	PSI
Temperature	133	°F
Pressure Change Initial Close / Final Close	0.2	%

Recovery at a glance





Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE May 10 2018

DST #6 Formation: LKC "H" Test Interval: 3943 - 3969' Total Depth: 3969'

Time On: 03:07 05/10 Time Off: 10:21 05/10
 Time On Bottom: 05:05 05/10 Time Off Bottom: 08:05 05/10

Down Hole Makeup

Heads Up: 22.21 FT	Packer 1: 3938 FT
Drill Pipe: 3932.64 FT <i>ID-3 1/4</i>	Packer 2: 3943 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3927.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3945 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 26	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/4</i>	
Change Over: 0 FT	
Perforations: (below): 25 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
County: SHERIDAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2703 EGL
Field Name: Solomon Fork
Pool: Infield
Job Number: 142

<p>DATE May 10 2018</p>

DST #6 **Formation: LKC "H"** **Test Interval: 3943 - 3969'** **Total Depth: 3969'**

Time On: 03:07 05/10 Time Off: 10:21 05/10
Time On Bottom: 05:05 05/10 Time Off Bottom: 08:05 05/10

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 60 **Filtrate:** 6.0 **Chlorides:** 1,900 ppm



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
May
10
2018

DST #7 **Formation: LKC "I-J"** **Test Interval: 3972 - 4012'** **Total Depth: 4012'**

Time On: 19:53 05/10 Time Off: 03:26 05/11
 Time On Bottom: 22:23 05/10 Time Off Bottom: 01:23 05/11

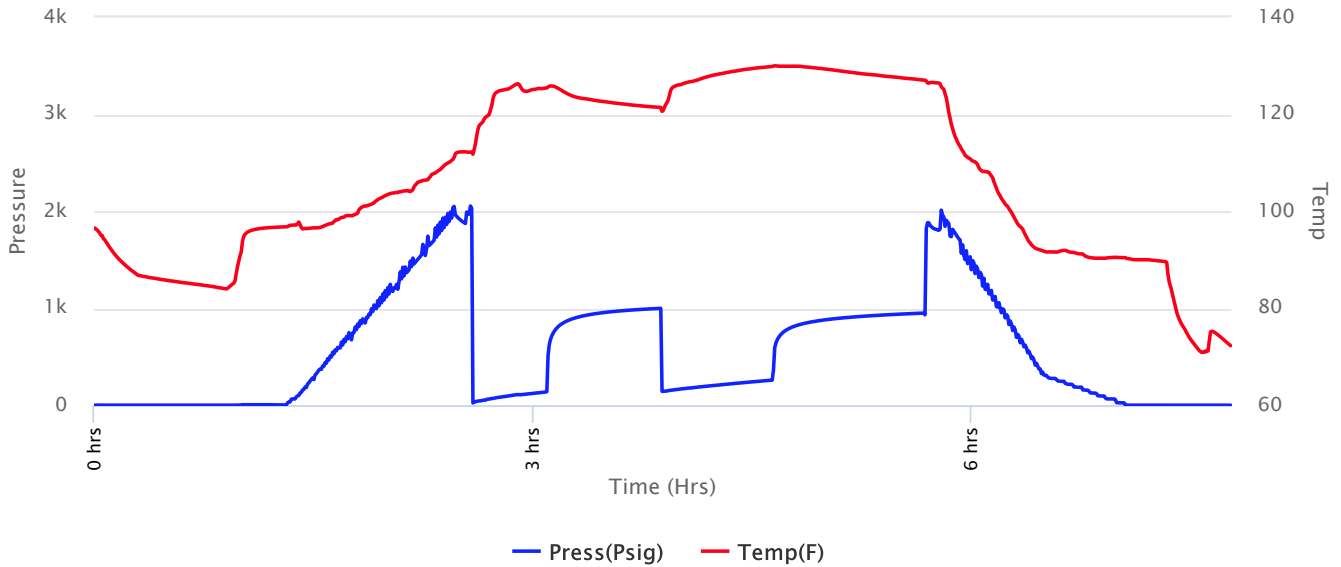
Electronic Volume Estimate:
819'

1st Open
Minutes: 30
40.8" at 30 min

1st Close
Minutes: 45
.9" at 45 min

2nd Open
Minutes: 45
38.9" at 45 min

2nd Close
Minutes: 60
0" at 60 min





Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
 May
10
 2018

DST #7 **Formation: LKC "I-J"** **Test Interval: 3972 - 4012'** **Total Depth: 4012'**
 Time On: 19:53 05/10 Time Off: 03:26 05/11
 Time On Bottom: 22:23 05/10 Time Off Bottom: 01:23 05/11

Recovered

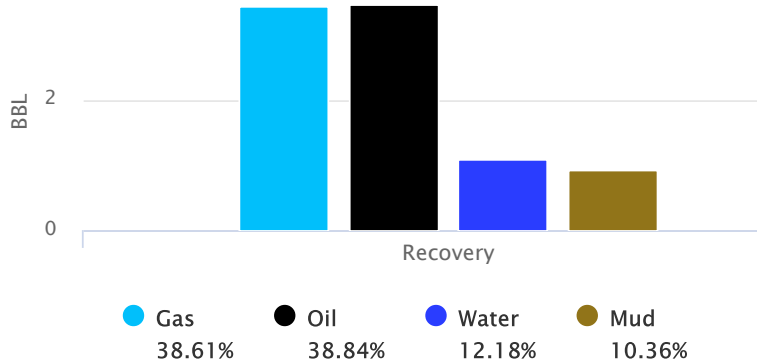
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
255	2.6163	G	100	0	0	0
350	3.591	SLGCO	12	88	0	0
205	2.1033	SLOCSLGCWCM	19	14	28	39
60	0.6156	SLOCSLMCW	0	2	81	17

Total Recovered: 870 ft
 Total Barrels Recovered: 8.9262

Reversed Out
 NO

Initial Hydrostatic Pressure	1874	PSI
Initial Flow	24 to 140	PSI
Initial Closed in Pressure	1000	PSI
Final Flow Pressure	144 to 259	PSI
Final Closed in Pressure	951	PSI
Final Hydrostatic Pressure	1872	PSI
Temperature	131	°F
Pressure Change Initial Close / Final Close	4.9	%

Recovery at a glance





Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
County: SHERIDAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2703 EGL
Field Name: Solomon Fork
Pool: Infield
Job Number: 142

DATE May 10 2018

DST #7	Formation: LKC "I- J"	Test Interval: 3972 - 4012'	Total Depth: 4012'
	Time On: 19:53 05/10	Time Off: 03:26 05/11	
	Time On Bottom: 22:23 05/10	Time Off Bottom: 01:23 05/11	

REMARKS:

IF: BOB 6 min.
ISI: 1/4 inch BB
FF: BOB 10 min
FSI: Surface BB

TOOL SAPLE: 83% OIL, 9% WATER, 8% MUD

Gravity: 38.5 @ 60 degrees F

Ph: 7.0

RW: .18 @ 65 degrees F

Chlorides: 42,000 ppm



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE May 10 2018

DST #7 **Formation: LKC "I-
J"** **Test Interval: 3972 -
4012'** **Total Depth: 4012'**

Time On: 19:53 05/10 Time Off: 03:26 05/11
 Time On Bottom: 22:23 05/10 Time Off Bottom: 01:23 05/11

Down Hole Makeup

Heads Up: 24.18 FT	Packer 1: 3967 FT
Drill Pipe: 3963.61 FT <i>ID-3 1/4</i>	Packer 2: 3972 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3956.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3974 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 40	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/4</i>	
Change Over: 0 FT	
Perforations: (below): 39 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
County: SHERIDAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2703 EGL
Field Name: Solomon Fork
Pool: Infield
Job Number: 142

DATE May 10 2018

DST #7 **Formation: LKC "I-
J"** **Test Interval: 3972 -
4012'** **Total Depth: 4012'**

Time On: 19:53 05/10 Time Off: 03:26 05/11
Time On Bottom: 22:23 05/10 Time Off Bottom: 01:23 05/11

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 55 **Filtrate:** 6.4 **Chlorides:** 1,800 ppm



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
May
10
2018

DST #7 **Formation: LKC "I-
J"** **Test Interval: 3972 -
4012'** **Total Depth: 4012'**

Time On: 19:53 05/10 Time Off: 03:26 05/11
 Time On Bottom: 22:23 05/10 Time Off Bottom: 01:23 05/11

Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
May
11
2018

DST #8 Formation: LKC "K" Test Interval: 4011 - 4037' Total Depth: 4037'
 Time On: 10:58 05/11 Time Off: 18:42 05/11
 Time On Bottom: 12:07 05/11 Time Off Bottom: 15:07 05/11

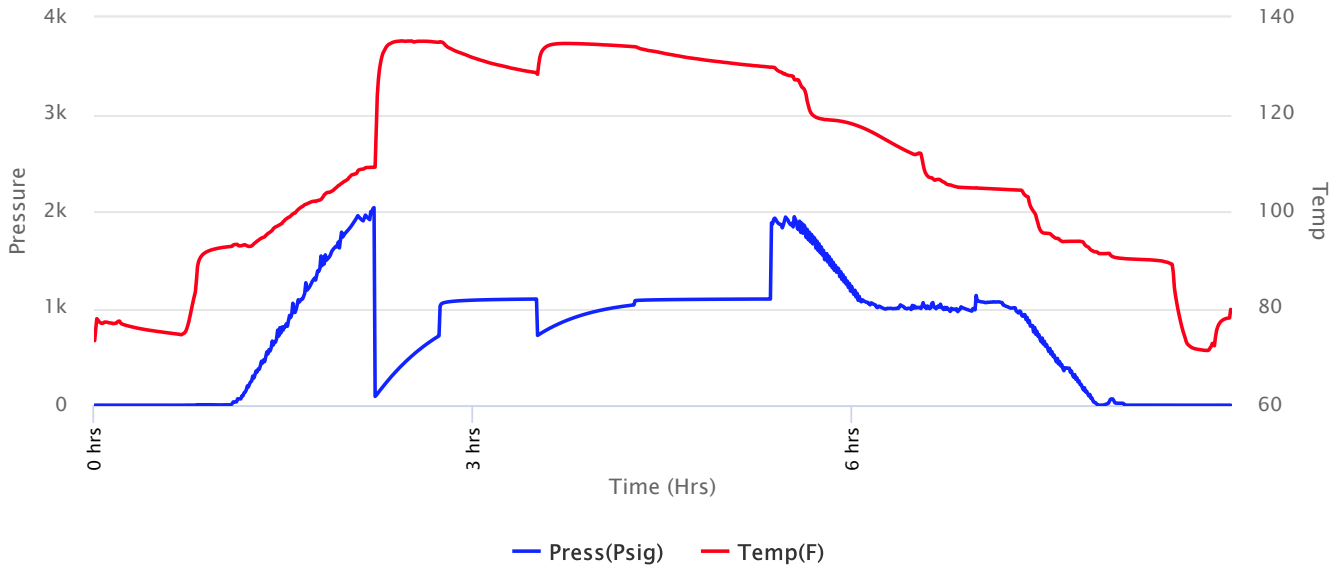
Electronic Volume Estimate:
2844'

1st Open
Minutes: 30
205.9" at 30 min

1st Close
Minutes: 45
0" at 45 min

2nd Open
Minutes: 45
128.0" at 45 min

2nd Close
Minutes: 60
0" at 60 min





Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2703 EGL
 Field Name: Solomon Fork
 Pool: Infield
 Job Number: 142

DATE
 May
11
 2018

DST #8 Formation: LKC "K" Test Interval: 4011 - 4037' Total Depth: 4037'

Time On: 10:58 05/11 Time Off: 18:42 05/11
 Time On Bottom: 12:07 05/11 Time Off Bottom: 15:07 05/11

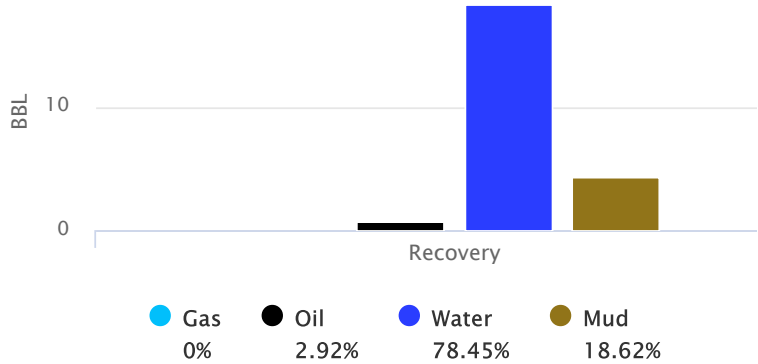
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
835	8.5671	SLOCMCW	0	3	70	27
1030	10.5678	SLOCMLCW	0	4	91	5
340	3.4884	MCW	0	0	71	29
60	0.6156	WCM	0	0	23	77

Total Recovered: 2265 ft
 Total Barrels Recovered: 23.2389

Reversed Out
 YES

Recovery at a glance



Initial Hydrostatic Pressure	1914	PSI
Initial Flow	91 to 716	PSI
Initial Closed in Pressure	1096	PSI
Final Flow Pressure	721 to 1035	PSI
Final Closed in Pressure	1095	PSI
Final Hydrostatic Pressure	1894	PSI
Temperature	136	°F
Pressure Change Initial Close / Final Close	0.0	%



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
County: SHERIDAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2703 EGL
Field Name: Solomon Fork
Pool: Infield
Job Number: 142

<p>DATE May 11 2018</p>

DST #8 Formation: LKC "K" Test Interval: 4011 - Total Depth: 4037'
4037'

Time On: 10:58 05/11 Time Off: 18:42 05/11
Time On Bottom: 12:07 05/11 Time Off Bottom: 15:07 05/11

REMARKS:

IF: BOB 1 1/2 min.

ISI: No BB

FF: BOB 2 1/2 min.

FSI: No BB

TOOL SAMPLE: 4% OIL, 96% WATER

Ph: 7.0

RW: .13 @ 79 degrees F

Chlorides: 49,000 ppm



Company: L. D. Drilling, Inc
Lease: Weeks #1-11

SEC: 11 TWN: 9S RNG: 28W
County: SHERIDAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2703 EGL
Field Name: Solomon Fork
Pool: Infield
Job Number: 142

<p>DATE May 11 2018</p>

DST #8 Formation: LKC "K" Test Interval: 4011 - Total Depth: 4037'
4037'

Time On: 10:58 05/11 Time Off: 18:42 05/11
Time On Bottom: 12:07 05/11 Time Off Bottom: 15:07 05/11

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 55 **Filtrate:** 6.4 **Chlorides:** 1,800 ppm

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

315-684-9709 * WICHITA, KS

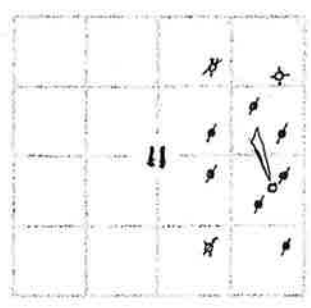
GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY	L. D. DRILLING, INC.	ELEVATIONS	
LEASE	* I-11 WEEKS	K8	2708
FIELD	SOLOMON FORK	OF	
LOCATION	1950' FSL & 600' FEL	OL	2703
TRIP	11 9s 28w	Measurements Are All	
COUNTY	SHERIDAN KANSAS	From	2708 K8
OPERATOR	L. D. DRILLING, INC.	DRAG	
SPUD	5-1-18	SIZE	8 5/8" @ 300'
FIN	5-13-18	SIZE	5 1/2" @
WELL NO.	4450	SECTIONAL ENERGY	
WELL NO.	3282	DUAL IND., DENS-N, MICRO	
	CHEMICAL		

SAMPLES START FROM	3400	TO	4450
DRILLING TIME REPT FROM	3400	TO	4450
SAMPLES EXAMINED FROM	3400	TO	4450
GEOLOGICAL SUPERVISION FROM	3400	TO	4450
GEOLOGIST ON WELL	KIM B. SHOEMAKER		

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2320+388	2323+385
B/ANH.	2353+355	2357+351
STOTLER	3448-738*	3446-738
HEEBNER	3792-1084	3794-1086
LANSING	3829-1121	3830-1122
B/KC	4058-1350	4059-1351
PAWNEE	4218-1510	4218-1510
FORT SCOTT	4870-1562	4270-1562
CHEROKEE	4292-1584	4298-1590
MISSISSIPPI	4376-1668	4372-1664



REMARKS

API: 15-179-21416

*: Stoller Log 3443-235

5-1-18 SPUD

5-2 @ 303'

5-3 @ 1605'

5-4 @ 2505'

5-5 @ 3080'

5-6 @ 3528'

5-7 @ 3825'

5-8 @ 3868'

5-9 @ 3888'

5-10 @ 3969'

5-11 @ 4030'

5-12 @ 4157'

5-13 @ 4450'

LEGEND

	Anhydrite
	Sandstone
	Shale
	Siltstone
	Limestone
	Dolomite
	Chert
	Gypsum
	Sub-salt

DRILLING TIME IN MINUTES PER FOOT

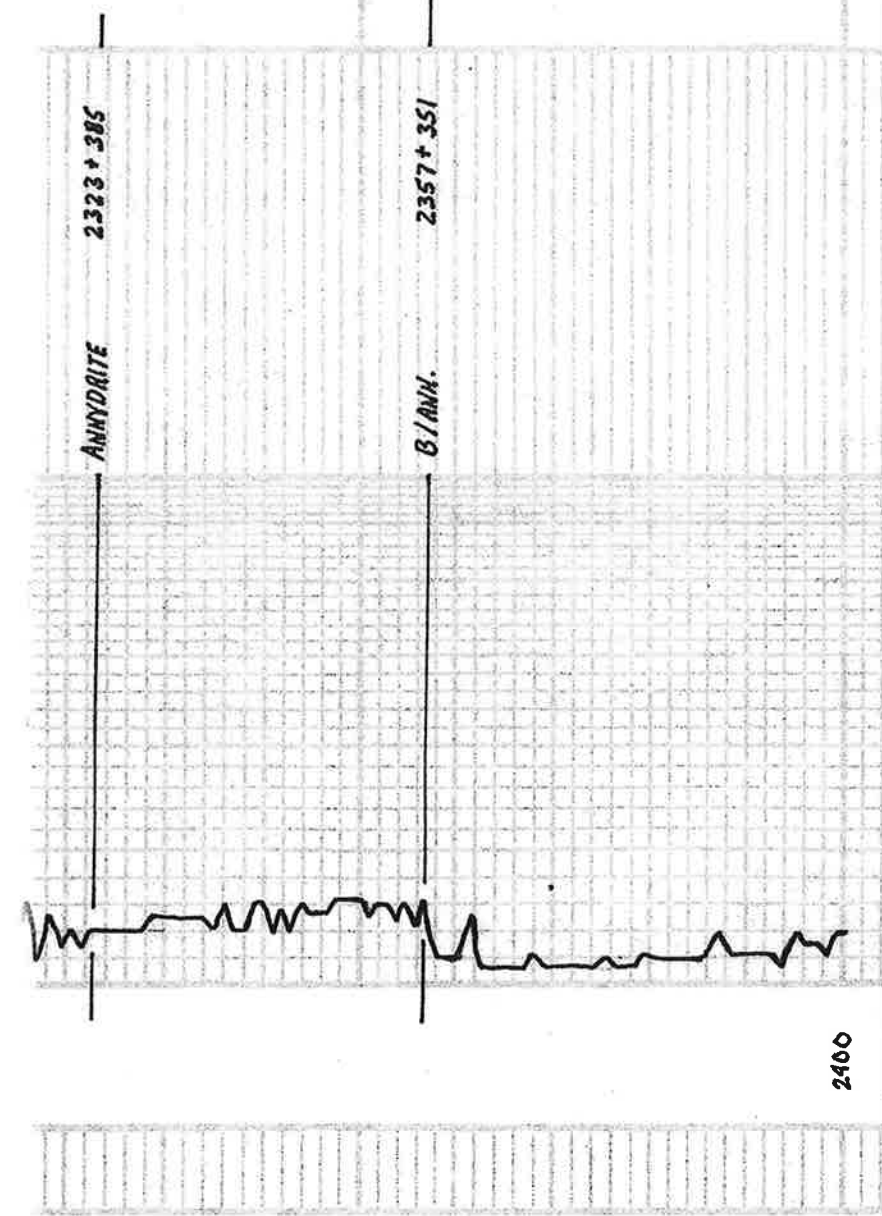
Rate of Penetration (RPM)

DEPTH 2500

LITHOLOGY

SHAPE DISRUPTIONS

REMARKS



3400

Samples are lagged

Ls. Tr. Ltg. VSI: Foss. USA

Sh. Ltg. G. Silty. Silty.

Sh. Ltg. L.A. Silty

STOTLER 3446-738

Ls. wt. VSI: Foss. Silty Chilly.

Ls. wt. Foss. Calceitic

Sh. Gy. Ltg.

Ls. Gy. Silty Foss.

Ls. Tr. Ltg. Foss. Calceitic

3500

3600

Ls. Tr. wt. VSI: Foss. VSI: Chilly

Sh. Gy.

Ls. Tr. wt. Foss. ool.

Ls. Tr. wt. Silty Chilly.

Sh. Rd.

Ls. Tr. Gy. Dm.

Ls. wt. Silty Foss. Foss. VSI: Chilly.

Sh. Ltg. G.

TOPEKA 3578-870

Ls. wt. ool. Foss. silty Chilly.

Ls. Tr. Gy. Silty Foss.

Ls. Tr. wt. Foss. Calceitic

Ls. wt. Foss. Chilly.

Sh. Ltg.

Ls. wt. Foss. Calceitic

Ls. wt. Foss. Calceitic VSI: Chilly.

Sh. Dk. G.

VIS: 51 WT: 90
WL: 6.4 CAL: 100

Sdy. sh. In g. blue gy.

ls. wt foss. sh calcite

sh lign.

ls. Tan. foss. calcite
ls. Tan. V. Foss. Suc. Dalmanites

sh. lign.

DST (1) 3799-3825
1st OPEN: Blow drill to 6 1/4"
2nd OPEN: " " " 7 3/4"
OB: None

ls. wt. 7000-8000

Rec. 35' Cement. 26.6xv. @ 60°F
40' Muddy Oil (61/2" Oil 397.4)
TF: 75'

ls. Tan. lign. V. SRA

ls. Tan. Foss. Calcite

Tool Sample
SS 1/2" Oil
ES 1/2" Oil
Temp. 121°F

FP: 1225 2640 #
SIP: 996.980 #

HEBNER 3794-1086
sh. Blk Carb. ls. Blk. V. S. Foss.

sh. L. Blue

ls. Tan. L. R. Foss. St. Foss. F. V. S. P.
L. R. - Dk. Bl. Sh. - Sp. L. S. V. S. F. D. Dull Flow
ls. wt. Sh. Foss. S. A. P. H. g.
sh. R. ls.

DST (2) 3824-3840
1st OPEN: Blow drill to 2 3/4"
2nd OPEN: " " " 3 1/4"
30-45-45-60
Rec. 10' G.L.P.
45' V. S. F. D. M. (22.0 Oil 207.3, 287.4)
TF: 65'

TORONTO 3816-1108
VIS: 50 WT: 9.0
NK: 60 CIL: 1600

ls. Tan. L. R. Foss. St. Foss. F. V. S. P.
L. R. - Dk. Bl. Sh. - Sp. L. S. V. S. F. D. Dull Flow
ls. wt. Sh. Foss. S. A. P. H. g.
sh. R. ls.

FP: 1121 2235 #
SIP: 1037.1030 #

Tool Sample
100% W
Temp. 119°F

LANSING 3830-1122
ls. wt. lign. V. S. Foss. SRA

sh. Bl. L. G.

ls. Tan. Sh. Foss. S. A. P. H. g.
sh. Bl. L. G.

DST (3) 3850-3868
1st OPEN: Bottom bucket 3 min.
2nd OPEN: " " " 4 1/2 min.
30-45-45-60
OB: 1/4"
88: 2 1/4"

DST (1)

ls. Tan. Sh. Foss. S. A. P. H. g.
sh. Bl. L. G.

Rec. 50' Cement. (200/101) 29.7 G. V. @ 60°F
175' O. C. H. W. (28.0 Oil 271.0, 271.0)
280' V. S. F. D. M. (22.0 Oil 267.0, 271.0)
680' V. S. F. D. M. (12.0 Oil 287.0, 271.0)
TF: 1555'

Tool Sample
27.00
97% W
Temp. 132°F

ls. wt. lign. V. S. Foss. V. S. L. G. L. G.

DST (5)

sh. G.
Dull. Tan. L. G. M. S. L. G. P. H. g.
L. R. - Dk. Bl. Sh. - Sp. L. S. V. S. F. D. Dull Flow
ls. wt. Sh. Foss. S. A. P. H. g.
sh. R. ls.

DST (4) 3868-3880
1st OPEN: Bottom bucket 19 min.
2nd OPEN: " " " 18 "
30-45-45-60
Rec. 370' G.L.P.
110' 580' (27.6, 27.6, 27.6, 27.6) 35 G. V. @ 60°F
20' G. W. T. O. (57.6, 28.0 Oil 291.0, 307.4)
60' O. C. H. W. (27.6, 121.0, 347.0, 527.4)
TF: 190'

Tool Sample
27.00
26% W
28% L
Temp. 126°F

ls. wt. V. S. Foss. S. L. G. L. G.

ls. wt. lign. wt. S. L. G. L. G.

ls. wt. V. S. L. G.

Tool Sample
39% W
17% L
Temp. 133°F

FP: 1449 5187 #
SIP: 984.925 #

DST (6)

sh. Bl. L. G.
ls. G. wt. V. S. Foss. S. A. P. H. g.
sh. Bl. L. G.

DST (5) 3893-3908
1st OPEN: Bottom bucket 12 min.
2nd OPEN: " " " 16 "
30-45-45-60
OB: 1/4"
88: Surface

ls. G. wt. V. S. Foss. S. A. P. H. g.
sh. Bl. L. G.

Rec. 10' Cement. 26.6xv. @ 60°F
175' V. S. F. D. M. (22.0 Oil 271.0, 207.4)
435' S. M. W. T. O. (27.6, 121.0, 347.0, 527.4)
TF: 680 #

sh. Bl. L. G.

Tool Sample
39% W
17% L
Temp. 133°F

FP: 1641 13268 #
SIP: 1015.998 #

ls. G. wt. V. S. Foss. S. A. P. H. g.
sh. Bl. L. G.

DST (6) 3943-3969
1st OPEN: Bottom bucket 6 min.
2nd OPEN: " " " 6 "
30-45-45-60
OB: 2"

ls. G. wt. V. S. Foss. S. A. P. H. g.
sh. Bl. L. G.

Rec. 235' G.L.P.
45' 560' (27.6, 28.0, 28.0, 28.0) 36.7 G. V. @ 60°F
155' O. C. H. W. (27.6, 121.0, 347.0, 527.4)
TF: 190'

sh. Bl. L. G.

Temp. 133°F

3700

3800

3900

4000

LA Blue Sulph. H.I. Co.

Sh. Yellow Bl. G. Blue

MISSISSIPPI 4372-1664

LS. Th. Bl. Sh. A

A. wt. 214. 150. 600. Fresh Cut

A. Sp. wt. 1000. Fresh Cut

LS. wt. 214. 8.5. Chilly

LS. wt. 214. 150. Chilly

LS. wt. 385. 50. Chilly

LS. wt. 50. 1000. 50. Chilly

V. MISSISSIPPI

415. 58. 17. 9. 7

Wt. 6. 7. 1000

RTD 4450-1742

6

4400

4500

