

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 Recompletion Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or 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](mailto: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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# FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269  
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0122  
 LOCATION Hoxie KS  
 FOREMAN Miles Shaw

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
1-2-20		Anderson 1-32	32	4S	24W	Dodge	
CUSTOMER LD Drilling		Seldo-4S W 7m.18		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				101			
CITY		STATE	ZIP CODE	102			

JOB TYPE Surfave HOLE SIZE 12.25" HOLE DEPTH 292' CASING SIZE & WEIGHT 8 5/8" 23#  
 CASING DEPTH 292' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL 1.4 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 17.25bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting and Rig up on LD drilling Circulate casing mix 225#  
Class A cement 38 cc 28 gal displace 17.25bbls Shut in Cement did  
Circulate 35bbls top

Thanks Miles + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PC002	1	PUMP CHARGE	1150.00	1150.00
M001	30	MILEAGE	6.50	195.00
M003	11.13	Ton Mileage delivery	600.00	600.00
CB004	225 sr	Surfave blend	24.50	5512.50
			Subtotal	7457.50
			less 25% discount	1844.37
			Subtotal	5593.13
			SALES TAX	310.08
			ESTIMATED TOTAL	5903.21

AUTHORIZATION RHL TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



TICKET 032791

PAGE 1 OF 2

CHARGE TO: Davis Petroleum  
 ADDRESS  
 CITY, STATE, ZIP CODE

SERVICE LOCATIONS  
 1. Ness City, KS  
 2.  
 3.  
 4.

WELL/PROJECT NO. #2  
 TICKET TYPE  SERVICE  SALES  
 CONTRACTOR L.D. Drlg  
 WELL TYPE Oil  
 INVOICE INSTRUCTIONS

LEASE Anderson  
 COUNTY/PARISH Decatur  
 RIG NAME/NO.  
 STATE KS  
 CITY Oberlin  
 DELIVERED TO Location  
 ORDER NO.  
 WELL PERMIT NO.  
 WELL LOCATION Oberlin 14-S-3-W  
1/2-N-W-into

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1								
578		1		MILEAGE <u>Trk #115</u>			120	mi	5.00	600.00
				<u>Pump Charge Longstring</u>			1	job	1400.00	1400.00
402		1		<u>Centralizers</u>			8	ea	75.00	600.00
403		1		<u>CMT Baskets</u>			3	ea	275.00	825.00
406		1		<u>Latch down Plug + Baffle</u>			1	ea	250.00	250.00
407		1		<u>Insert float shoe w/ Auto fill</u>			1	ea	325.00	325.00
481		1		<u>Mud Flush</u>			500	gal	1.50	750.00
821		1		<u>Liquid KCL</u>			2	gal	25.00	50.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

**X**

DATE SIGNED 1/10/2020 TIME SIGNED 11:00  A.M.  P.M.

REMIT PAYMENT TO:  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  
 WE UNDERSTOOD AND MET YOUR NEEDS?  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
 ARE YOU SATISFIED WITH OUR SERVICE?  
 YES  NO  
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1  
 4800.00  
 2 10684.52  
 15484.52

TOTAL 16285.25

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR Gudrun Fuchs APPROVAL [Signature]

Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 032791

CUSTOMER Davis Petroleum WELL Anderson #2 DATE 1/10/2020 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	WELL			UNIT PRICE	AMOUNT
		LOC	ACCT			DF	QTY	U/M		
325		1			Standard CMT	150	skts		13.00	2025.00
284		1			Calseal	7	skts		40.00	280.00
283		1			Salt	800	lbs		0.25	200.00
292		1			Halocl 322	100	lbs		8.50	850.00
276		1			Floccle	75	lbs		3.00	225.00
330		1			SMP Cement	235	skts		17.00	3995.00
290		1			D-Air	4	gd		42.00	168.00
581		1			SERVICE CHARGE	385			1.85	712.25
583		1			MILEAGE CHARGE	2346.6			0.95	2229.27
					TOTAL WEIGHT					
					LOADED MILES	180				
					CUBIC FEET					
					TON MILES					

CONTINUATION TOTAL 10684.52

ON Location 5 1/2" 15.5 lb/ft RTD: 4.230' TP: 4.222' PRTD: 4.179'

Cent: 1.3, 5.2, 9.1, 13.15 Baskets: 1, 27, 64

Start 5/8" Casing in well Drop Ball - Circulate

1/10 0445 1/11 0115

0245 350 Pump 500 gal Mud Flush 350 Pump 20 bbl KCL Spacers

0250 0 Plug RH [307]

0255 300 Mix 305 sks of SMD @ 11.4 pps 300 Mix 150 sks of EA-2 @ 15.6 pps

0345 Wash P/L Drop Latch down

0355 850 Start Displacement 400 - L'off Pressure 800 - Max L'off Pressure 1500 Land Latch down Plug

0415 0345 0415 0415 0415

0445 Wash up Trk #115

Job Complete

235 sks of SMD + 150 sks of EA-2 used

Thank You

Steele, Preston, Riebel

0445

0130

0415 5/8 99.5

0355 6/8 0

0345 4/8 122

0250 2 15

0245 6/8 20



**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
 County: DECATUR  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2795 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 433  
 API #: 15-039-21268-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**07**  
 2020

**DST #1**      **Formation: LKC "A,B"**      **Test Interval: 3859 - 3940'**      **Total Depth: 3940'**  
 Time On: 20:58 01/07      Time Off: 03:40 01/08  
 Time On Bottom: 23:52 01/07      Time Off Bottom: 01:52 01/08

Electronic Volume Estimate:  
 27'

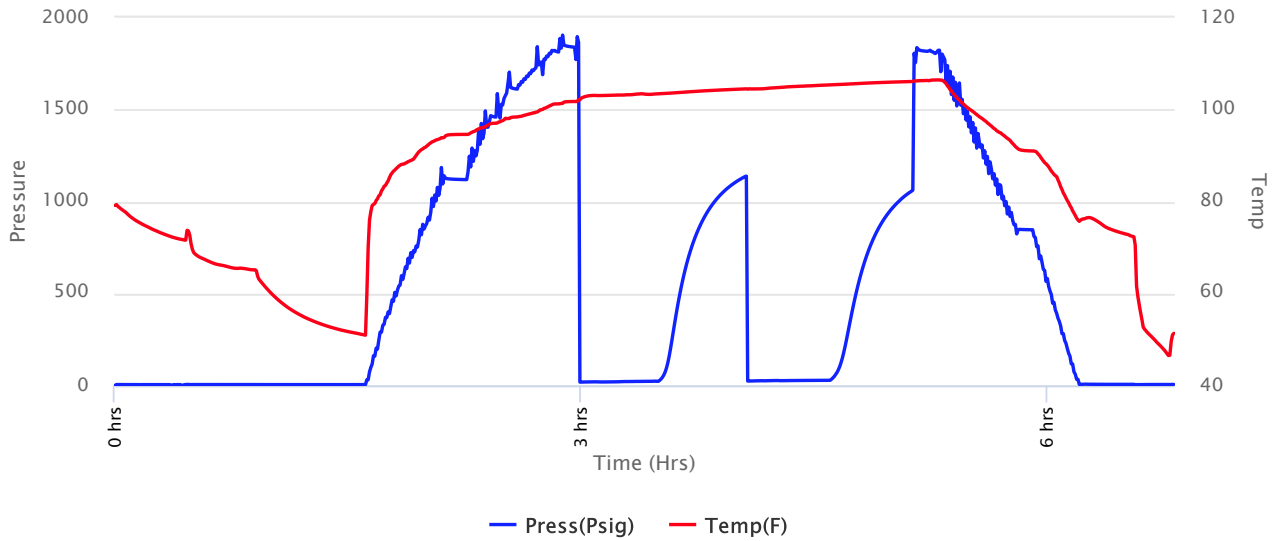
1st Open  
 Minutes: 30  
 Current Reading: 1.9" at 30 min  
 Max Reading: 1.9"

1st Close  
 Minutes: 30  
 Current Reading: 0" at 30 min  
 Max Reading: 0"

2nd Open  
 Minutes: 30  
 Current Reading: .7" at 30 min  
 Max Reading: .7"

2nd Close  
 Minutes: 30  
 Current Reading: 0" at 30 min  
 Max Reading: 0"

Inside Recorder







**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
 County: DECATUR  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2795 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 433  
 API #: 15-039-21268-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**07**  
 2020

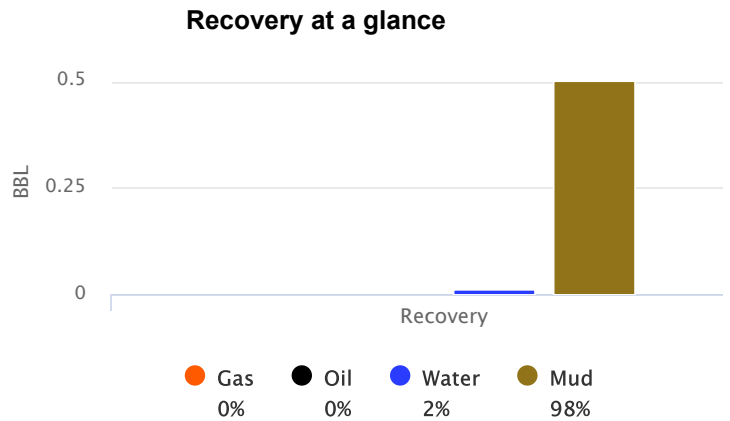
**DST #1**      **Formation: LKC "A,B"**      **Test Interval: 3859 - 3940'**      **Total Depth: 3940'**  
 Time On: 20:58 01/07      Time Off: 03:40 01/08  
 Time On Bottom: 23:52 01/07      Time Off Bottom: 01:52 01/08

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLS					
50	0.513	SLWCM	0	0	2	98

Total Recovered: 50 ft  
 Total Barrels Recovered: 0.513

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1896	PSI
Initial Flow	19 to 23	PSI
<b>Initial Closed in Pressure</b>	<b>1138</b>	<b>PSI</b>
Final Flow Pressure	25 to 28	PSI
<b>Final Closed in Pressure</b>	<b>1041</b>	<b>PSI</b>
Final Hydrostatic Pressure	1819	PSI
Temperature	106	°F
Pressure Change Initial Close / Final Close	8.5	%



GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
County: DECATUR  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2795 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 433  
API #: 15-039-21268-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
January  
**07**  
2020

<b>DST #1</b>	<b>Formation: LKC</b> <b>"A,B"</b>	<b>Test Interval: 3859 -</b> <b>3940'</b>	<b>Total Depth: 3940'</b>
	Time On: 20:58 01/07	Time Off: 03:40 01/08	
	Time On Bottom: 23:52 01/07	Time Off Bottom: 01:52 01/08	

**BUCKET MEASUREMENT:**

1st Open: 1/4" Blow built to 2" over 30 min.  
1st Close: No Return  
2nd Open: Surface Return built to 3/4" over 30 min.  
2nd Close: No Return

**REMARKS:**

Tool Sample: 0% Gas 0% Oil 2% Water 98% Mud



**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
 County: DECATUR  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2795 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 433  
 API #: 15-039-21268-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**07**  
 2020

**DST #1**      **Formation: LKC "A,B"**      **Test Interval: 3859 - 3940'**      **Total Depth: 3940'**  
 Time On: 20:58 01/07      Time Off: 03:40 01/08  
 Time On Bottom: 23:52 01/07      Time Off Bottom: 01:52 01/08

**Down Hole Makeup**

<b>Heads Up:</b> 20.12 FT	<b>Packer 1:</b> 3853.94 FT
<b>Drill Pipe:</b> 3846.49 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 3858.94 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3843.36 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3862 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 81.06	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 13 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 63.06 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 3 FT <i>4 1/2-FH</i>	



**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
 County: DECATUR  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2795 EGL







**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
 County: DECATUR  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2795 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 433  
 API #: 15-039-21268-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**08**  
 2020

**DST #2 Formation: LKC "B-G" Test Interval: 3918 - 4003' Total Depth: 4003'**  
 Time On: 13:54 01/08 Time Off: 21:36 01/08  
 Time On Bottom: 16:27 01/08 Time Off Bottom: 19:27 01/08

Electronic Volume Estimate:  
 316'

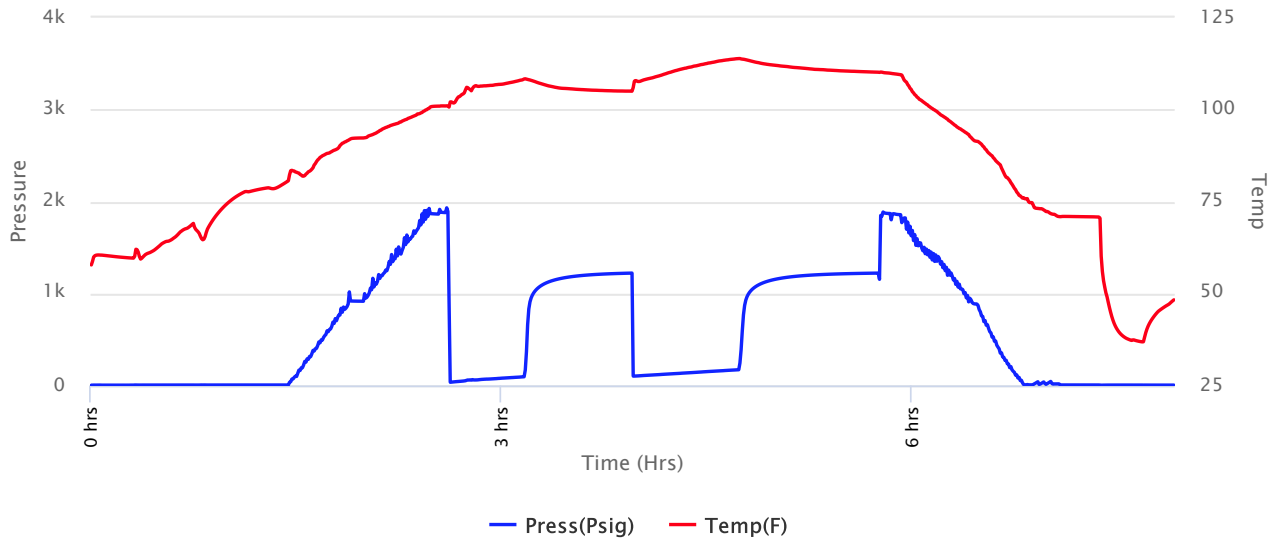
1st Open  
 Minutes: 30  
 Current Reading:  
 13.4" at 30 min  
 Max Reading: 13.4"

1st Close  
 Minutes: 45  
 Current Reading:  
 0" at 45 min  
 Max Reading: 0"

2nd Open  
 Minutes: 45  
 Current Reading:  
 16.9" at 45 min  
 Max Reading: 16.9"

2nd Close  
 Minutes: 60  
 Current Reading:  
 0" at 60 min  
 Max Reading: 0"

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
 County: DECATUR  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2795 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 433  
 API #: 15-039-21268-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**08**  
 2020

**DST #2 Formation: LKC "B-G" Test Interval: 3918 - 4003' Total Depth: 4003'**  
 Time On: 13:54 01/08 Time Off: 21:36 01/08  
 Time On Bottom: 16:27 01/08 Time Off Bottom: 19:27 01/08

Recovered

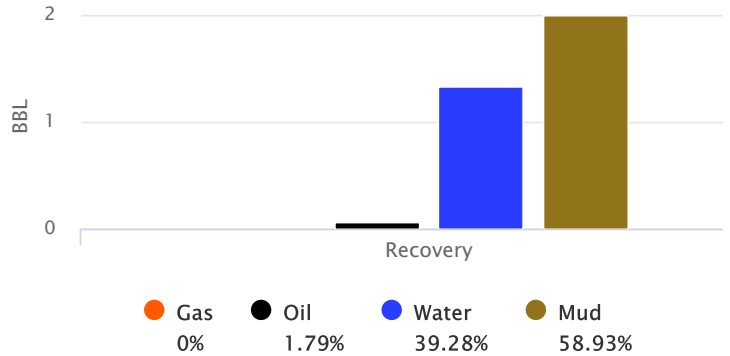
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1	0.01026	O	0	100	0	0
141	1.44666	SLWCSLOCM	0	3	2	95
63	0.64638	SLOCWCM	0	1	20	79
63	0.64638	SLMCW (trace O)	0	.1	84.9	15
63	0.64638	SLMCW	0	0	97	3

Total Recovered: 331 ft  
 Total Barrels Recovered: 3.39606

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1882	PSI
Initial Flow	38 to 95	PSI
<b>Initial Closed in Pressure</b>	<b>1221</b>	<b>PSI</b>
Final Flow Pressure	105 to 245	PSI
<b>Final Closed in Pressure</b>	<b>1221</b>	<b>PSI</b>
Final Hydrostatic Pressure	1867	PSI
Temperature	114	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
County: DECATUR  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2795 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 433  
API #: 15-039-21268-00-00

**Operation:**

Uploading recovery &  
pressures

**DATE**

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<b>DST #2</b>	<b>Formation: LKC "B-G"</b>	<b>Test Interval: 3918 - 4003'</b>	<b>Total Depth: 4003'</b>
	Time On: 13:54 01/08	Time Off: 21:36 01/08	
	Time On Bottom: 16:27 01/08	Time Off Bottom: 19:27 01/08	

**BUCKET MEASUREMENT:**

1st Open: BoB in 24 min. 4 sec.  
1st Close: No Return  
2nd Open: BoB in 25 min. 34 sec.  
2nd Close: No Return

**REMARKS:**

Chased tool approx 10' to bottom.

Tool Sample: 0% Gas .1% Oil 94.9% Water 5% Mud

Ph: 7

Measured RW: .16 @ 36 degrees °F

RW at Formation Temp: 0.057 @ 114 °F

Chlorides: 83000 ppm





**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
 County: DECATUR  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2795 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 433  
 API #: 15-039-21268-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**08**  
 2020

**DST #2**      **Formation: LKC "B-G"**      **Test Interval: 3918 - 4003'**      **Total Depth: 4003'**  
 Time On: 13:54 01/08      Time Off: 21:36 01/08  
 Time On Bottom: 16:27 01/08      Time Off Bottom: 19:27 01/08

**Down Hole Makeup**

<b>Heads Up:</b> 23.95 FT	<b>Packer 1:</b> 3913.1 FT
<b>Drill Pipe:</b> 3909.48 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 3918.1 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3902.52 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3921 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 84.9	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 17 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 62.9 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 3 FT <i>4 1/2-FH</i>	



**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
 County: DECATUR  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2795 EGL



Uploading recovery & pressures

Pool: Infield  
Job Number: 433  
API #: 15-039-21268-00-00

**DATE**  
January  
**08**  
2020

**DST #2**      **Formation: LKC "B-G"**      **Test Interval: 3918 - 4003'**      **Total Depth: 4003'**  
Time On: 13:54 01/08      Time Off: 21:36 01/08  
Time On Bottom: 16:27 01/08      Time Off Bottom: 19:27 01/08

**Gas Volume Report**

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
 County: DECATUR  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2795 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 433  
 API #: 15-039-21268-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**09**  
 2020

**DST #3**      **Formation: LKC "H-L"**      **Test Interval: 4001 - 4115'**      **Total Depth: 4115'**  
 Time On: 11:08 01/09      Time Off: 18:00 01/09  
 Time On Bottom: 12:47 01/09      Time Off Bottom: 15:47 01/09

Electronic Volume Estimate:  
 498'

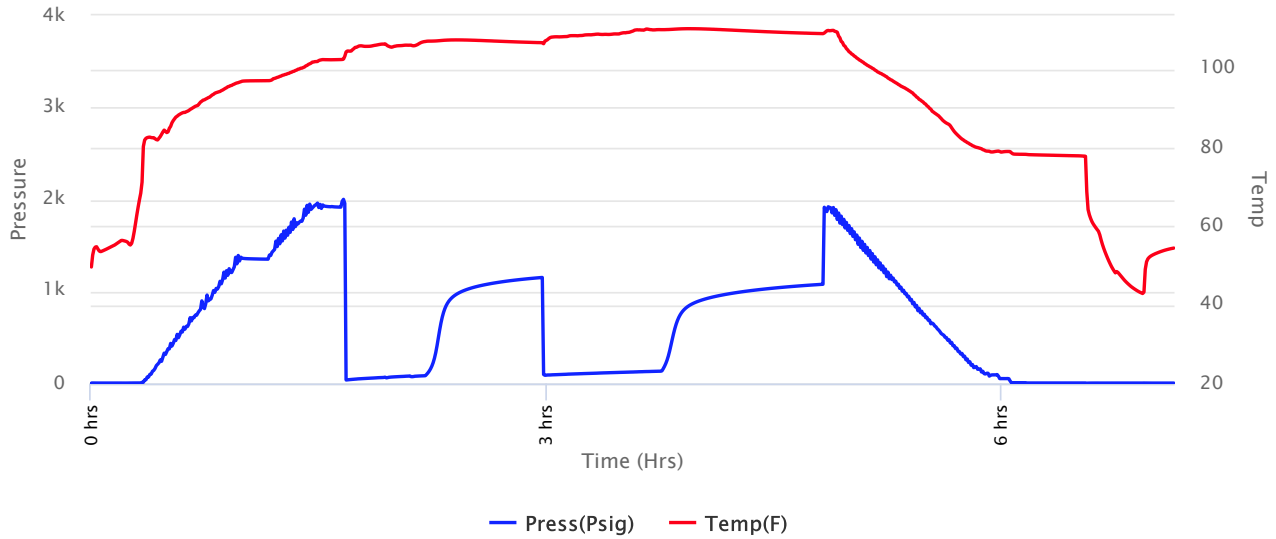
1st Open  
 Minutes: 30  
 Current Reading: 17.8" at 30 min  
 Max Reading: 17.8"

1st Close  
 Minutes: 45  
 Current Reading: 0" at 45 min  
 Max Reading: 0"

2nd Open  
 Minutes: 45  
 Current Reading: 29.7" at 45 min  
 Max Reading: 29.7"

2nd Close  
 Minutes: 60  
 Current Reading: 0" at 60 min  
 Max Reading: 0"

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
 County: DECATUR  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2795 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 433  
 API #: 15-039-21268-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**09**  
 2020

**DST #3 Formation: LKC "H-L" Test Interval: 4001 - 4115' Total Depth: 4115'**  
 Time On: 11:08 01/09 Time Off: 18:00 01/09  
 Time On Bottom: 12:47 01/09 Time Off Bottom: 15:47 01/09

Recovered

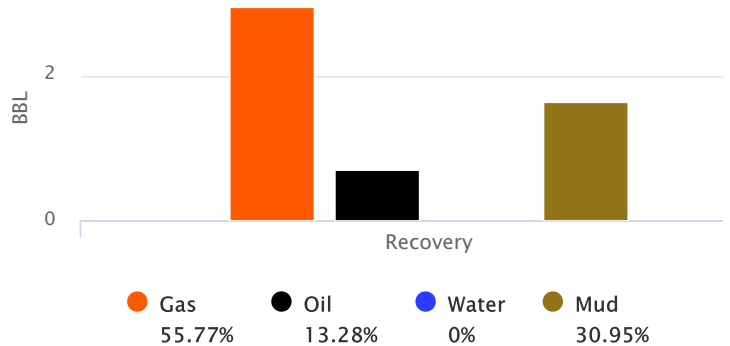
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
252	2.58552	G	100	0	0	0
10	0.1026	HOCM	0	40	0	60
63	0.64638	SLGCSLOCM	5	15	0	80
63	0.64638	SLOCSLGCM	10	10	0	80
63	0.64638	SLGCHOCM	15	35	0	50
63	0.64638	GCHMCO	25	42	0	33

Total Recovered: 514 ft  
 Total Barrels Recovered: 5.27364

Reversed Out  
 NO

Initial Hydrostatic Pressure	1923	PSI
Initial Flow	41 to 100	PSI
<b>Initial Closed in Pressure</b>	<b>1148</b>	<b>PSI</b>
Final Flow Pressure	91 to 133	PSI
<b>Final Closed in Pressure</b>	<b>1075</b>	<b>PSI</b>
Final Hydrostatic Pressure	1879	PSI
Temperature	111	°F
Pressure Change Initial Close / Final Close	6.4	%

**Recovery at a glance**



GIP cubic foot volume: 16.51241



**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
County: DECATUR  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2795 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 433  
API #: 15-039-21268-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
January  
**09**  
2020

**DST #3**      **Formation: LKC "H-  
L"**      **Test Interval: 4001 -  
4115'**      **Total Depth: 4115'**  
Time On: 11:08 01/09      Time Off: 18:00 01/09  
Time On Bottom: 12:47 01/09      Time Off Bottom: 15:47 01/09

**BUCKET MEASUREMENT:**

1st Open: BoB in 23 min. 32 sec.  
1st Close: No Return  
2nd Open: BoB in 14 min. 30 sec.  
2nd Close: No Return

**REMARKS:**

Chased tool approx 10' to bottom.

Tool Sample: 5% Gas 50% Oil 0% Water 45% Mud



**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
 County: DECATUR  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2795 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 433  
 API #: 15-039-21268-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
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 2020

**DST #3**      **Formation: LKC "H-L"**      **Test Interval: 4001 - 4115'**      **Total Depth: 4115'**  
 Time On: 11:08 01/09      Time Off: 18:00 01/09  
 Time On Bottom: 12:47 01/09      Time Off Bottom: 15:47 01/09

**Down Hole Makeup**

<b>Heads Up:</b> 4.56000000000003 FT	<b>Packer 1:</b> 3995.52 FT
<b>Drill Pipe:</b> 3972.51 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4000.52 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3984.94 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4003 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 114.48	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 15 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 94.48 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 3 FT <i>4 1/2-FH</i>	



**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
 County: DECATUR  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2795 EGL

**Operation:**  
Uploading recovery &  
pressures

Field Name: Wildcat  
Pool: Infield  
Job Number: 433  
API #: 15-039-21268-00-00

**DATE**  
January  
**09**  
2020

**DST #3      Formation: LKC "H-  
L"      Test Interval: 4001 -      Total Depth: 4115'**  
Time On: 11:08 01/09      Time Off: 18:00 01/09  
Time On Bottom: 12:47 01/09      Time Off Bottom: 15:47 01/09

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.2      **Viscosity:** 48      **Filtrate:** 7.2      **Chlorides:** 1500 ppm



**Operation:**

**Company: L. D. Drilling, Inc**  
**Lease: Anderson #1-32**

SEC: 32 TWN: 4S RNG: 29W  
County: DECATUR  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2795 EGL  
Field Name: Wildcat





# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.  
 WELL 1-32 ANDERSON  
 FIELD WILDCAT  
 LOCATION 2250' ENL + 1785' FEL  
 SEC. 32 T15N 4s R2E 29W  
 COUNTY DECATUR STATE KANSAS  
 CONTRACTOR L. D. DRILLING, INC.  
 DATE 1-2-2020 TO 1-10-20  
 DEPTH 4230 TO 4228  
 LOG NO. 3500 TYPE LOG CHEMICAL

FORMATION 2795  
 DEPTH 2790  
 Measurements Are w/ From 2795 KB  
 CASING SIZE 8 5/8" @ 289'  
 HOLES 5 1/2" @  
 EQUIPMENT DUAL IND., DENS-N, MICRO

SAMPLES SAVED FROM 3600 TO 4230  
 DRILLING TIME KEPT FROM 3300 TO 4230  
 SAMPLES EXAMINED FROM 3600 TO 4230  
 GEOLOGICAL SUPERVISION FROM 3700 TO 4230  
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2568+227	2571+224
B/ANL.	2600+195	2606+189
HEEBNER	3858-1063	3860-1065
LANGING	3906-1111	3906-1111
B/KC	4112-1317	4110-1315



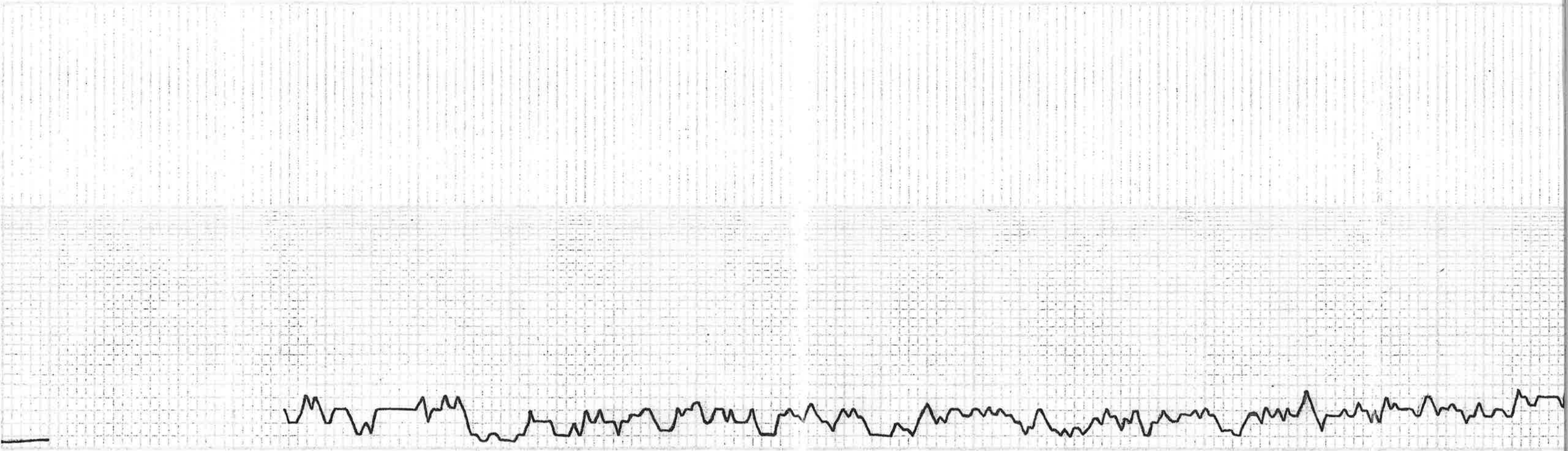
REMARKS

12-27-19 Moved In.  
 1-2-2020 SRUP  
 1-3 @ 212'  
 1-4 @ 1650'  
 1-5 @ 2654'  
 1-6 @ 3375'  
 1-7 @ 3830'  
 1-8 @ 3940'  
 1-9 @ 4100'  
 1-10 @ 4230'

API: 15-039-21268

LEGEND

- Anhydrite
- Blank
- Heebner
- Lansing
- B/KC
- B/ANL.
- Sandstone
- Shale
- Limestone
- Dolomite
- Oil
- Gas
- Water
- Sulfate
- Chloride
- Nitrate
- Phosphate
- Magnesium
- Calcium
- Sodium
- Potassium
- Iron
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- Manganese
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2650

3300

3400

3500



Samples are layered

3600

LS. G. Sl. Foss.

Sh. Lt. G. L.

LS. Tn. Lt. G. Sl. Foss.

LS. G. VSI. Foss.

Sh. Rd.

LS. G. Sl. Foss. VSI. Calcitic

LS. wt. Tn. Sl. Foss. VSI. chly.

Sh. Rd.

LS. Tn. Bl. Sh. Foss.

LS. Tn. Foss. Sl. Foss.

LS. wt. Sl. Foss. Sl. A

Sh. Lt. G. L.

Sh. Rd.

LS. wt. Sl. Foss. Sl. A

LS. Tn. wt. Foss.

LS. Tn. G. VSI. Foss. Sl. A

Sh. Bl. G. L.

Sh. Rd. Bl. G. L.

LS. G. VSI. Foss.

LS. wt. Sl. Foss. Sl. A

Sh. G.

LS. wt. Chly.

VIS. 45 WT: 8.8

WLI: 6.8 CHL: 7.00

DST (1) 3859-3940

1st open: slow built to 2"

2nd open: " " 3 1/4"

Tool Sample

2 1/2" Wt

987.7 Wt

30-30-30-30

Rec. 50' USWM

FP: 1933 25-28"

SIP: 1038-1041"

HEBNER 3860-1065

Sh. Bl. G. L.

LS. G. VSI. Foss.

Sh. Lt. Bl. G. L.

Sh. Rd.

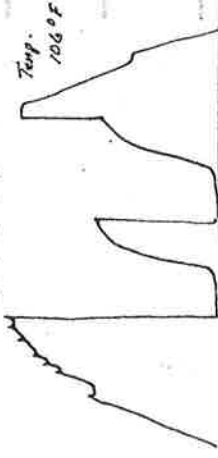
TORONTO

3891-1096

LS. wt. Lt. G. Sl. Foss. P. V. Ind

LS. wt. Bl. G. L. dlt. Tarrysh. No odor

Sh. Rd.



TORONTO  
3891-1096

45. wt 4 1/2 Sl: Foss. P. Vis. No odor  
45. wt 4 1/2  
Sh. Rd

LANSING  
3906-1111

45. 7 1/2 wt Sl: Foss. Fr. V. No odor  
DU. BU. Hvy SH. GUSFD. No Flour  
V. F. Odor

45. wt 4 1/2  
Sh. Rd

45. wt 4 1/2 Foss. Sl: Foss. Fr. V. No odor  
BU. DU. Hvy SH. GUSFD. No Flour  
F. Odor

45. 7 1/2 wt Sl: Foss. No. Sl: A. Fr. V. No odor  
BU. Hvy SH. F. SFD. No Flour  
F. Odor

45. 7 1/2  
Sh. Rd

45. 7 1/2 Sl: Foss. Sl: A. Fr. P. Vis. No odor  
BU. SH. V. S. SFD. Dull Flour  
F. Odor

45. Rd. Blue-G

45. wt 0.07369 F. V. No odor  
BU. Spid-Sat. Sl. GUSFD. No Flour  
F. Odor

45. 4 1/2 Foss. Fr. V. No odor  
BU. SH. Sl. F. SFD. No Flour  
F. Odor

45. wt 4 1/2 V. Sl: Foss. Sl: A

Sh. DFG.

Sh. Rd

45. wt 4 1/2 Sl: Foss. P. Vis. No odor  
BU. DU. SH. Sl. SFD. No Flour  
F. Odor

45. wt 4 1/2 Sl: A

Sh. Rd

Sh. Rd Purple

45. 7 1/2 wt Sl: Foss. P. Vis. No odor  
V. DU. SH. Spid-Sat. Sl. V. SFD. Dull Flour  
F. Odor

45. 4 1/2 wt 4 1/2

Sh. DFG. Sh. Purple silty.

45. 4 1/2 Sl: A

Sh. Rd

45. 7 1/2 Sl: Foss. Fr. V. No odor  
BU. SH. Spid-Sat. Sl. F. SFD. Dull Flour  
F. Odor

45. wt 4 1/2

Sh. Rd

45. wt Foss. P. Vis. No odor  
BU. SH. Spid-Sat. Sl. V. SFD. No Flour  
F. Odor

Sh. Rd Purple

Sh. Rd

45. 4 1/2 Sl: A

Sh. Rd

Sh. Rd

45. Yellow Foss. Col. Sl: A

Sh. Rd

Sh. Rd

Sh. Rd Orange

45. 4 1/2 Sl: Foss.

Sh. Rd Purple

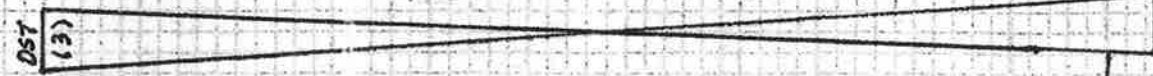
45. 4 1/2 Sl: Foss. Sl: A

3900

4000

4100

4200



VLOG

Vis: 48  
WT: 92  
WU: 72  
CHK: 1500

DST (2) 3918-4003  
15' open: Bottom bucket 24 min.  
2nd open: " " 25 "

30-45-45-60

Rec. J. Clean oil

M: 1500 W/M (37.0) 27.0 W 95.0 M  
G: 1500 W/M (28.0) 28.0 W 95.0 M  
G: 1500 W/M (28.0) 28.0 W 95.0 M

TP: 331

FP: 38-95 105-245\*

SIP: 1221-1221\*



Temp. 119°F

DST (3) 4000-4115

15' open: Bottom bucket 23 min.  
2nd open: " " 14 "

30-45-45-60

Rec. 252' G.L.P.

10' H. H. (40.0) 10.0 W 100.0 M  
G: 1000 W/M (37.0) 15.0 W 100.0 M  
G: 1000 W/M (37.0) 15.0 W 100.0 M

TP: 262

FP: 41-100 91-133\*

SIP: 1448-1075\*



Temp. 110°F

4200



RTD 4230-1435



Sh. Bl.

Sh. Bl. Drags

LS Gy. 150. Fass.

Sh. Bl. Purple

LS Bl. 5. Sl. Fass. S1A

DEPTH

LOG TIME MINUTE/FEET

WELL DESCRIPTION

REMARKS

OWNER L. D. DRILLING, INC.

LEASE # 1-32 ANDERSON

LOCATION 2250 FWL 1785 32 4s 29W

COUNTY DECATUR KANSAS

2795 KB