

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

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	ROUS 1-28
Doc ID	1403962

Tops

Name	Top	Datum
ANHYDRITE	772	+1151
BASE ANHYDRITE	798	+1125
TOPEKA	2680	-757
HEEBNER	2970	-1047
BROWN LIME	3066	-1143
LANSING	3080	-1157
BASE KANSAS CITY	3323	-1400
ARBUCKLE	3348	-1425



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

TTMH-27

FIELD SERVICE TICKET

1718 16278 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>2-26-2018</u> DISTRICT _____		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>LD DRILLING INC.</u>		LEASE <u>ROOS</u>		WELL NO. <u>1228</u>					
ADDRESS _____		COUNTY <u>BARTON</u>		STATE <u>Ks.</u>					
CITY _____ STATE _____		SERVICE CREW <u>LESLEY, MARQUEZ, HANSON, SCOTTY</u>							
AUTHORIZED BY _____		JOB TYPE: <u>242 5 1/2" C.S.</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>20920</u>	<u>2</u>						<u>2-26-18</u>		<u>8:00</u>
<u>19860</u>	<u>2</u>					ARRIVED AT JOB		AM	<u>10:00</u>
						START OPERATION		PM	<u>12:30</u>
						FINISH OPERATION		PM	<u>4:45</u>
						RELEASED		PM	<u>2:30</u>
						MILES FROM STATION TO WELL _____			

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: Mark Davis By DL Scott
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA2 CEMENT	SK	150		2550.00
CP 103	600/40 P02	SK	30		360.00
CC 102	CELL FLAKE	lb	38		140.60
CC 111	SALT	lb	817		408.50
CC 113	GYP SUM	lb	705		528.75
CC 148	C-17	lb	92		1,840.00
CC 201	GILSONITE	lb	901		603.67
CF 1251	AUTO FILL FLOAT SHOE, 5 1/2"	EA	1		360.00
CF 1607	LATCH DOWN PLUG & BAFFLE, 5 1/2"	EA	1		400.00
CF 1901	BASKET, 5 1/2"	EA	1		290.00
CF 1651	TURBOLIZER, 5 1/2"	EA	8		880.00
CC 151	MUD FLUSH	GAL	1000		1,500.00
E 100	PICKUP MILEAGE	MI	75		337.50
E 101	HEAVY EQUIPMENT MILEAGE	MI	150		1,125.00
E 113	BULK DELIVERY CHARGE	TM	626		1,565.63
CE 204	DEPTH CHARGE: 3001'-4000'	HR	1-4		2,160.00
CE 240	BLENDING SERVICE CHARGE	SK	180		252.00
CE 504	PLUG CONTAINER UTILIZATION	JOB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00
SUB TOTAL					<u>8,964.19</u>

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<u>8,964.19</u>

SERVICE REPRESENTATIVE <u>Mark Davis</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Mark Davis By DL Scott</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO. _____	

Customer <i>LD DRILLING, INC.</i>	Lease No.	Date <i>2-26-2018</i>
Lease <i>ROUS</i>	Well # <i>1-28 TD-</i>	
Field Order # <i>16278</i>	Station <i>PRATT, KS.</i>	Casing <i>3.5"</i>
		Depth <i>3460'</i>
Type Job <i>5 1/2" LONG STRING</i>	Formation	County <i>BARTON</i>
		State <i>Ks</i>
		Legal Description <i>28-165-11W</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5.5 x 15.5</i>	Tubing Size	Shots/Ft	<i>CMT-</i>	Acid <i>150 SK AA-2</i>		RATE	PRESS	ISIP
Depth <i>3451'</i>	Depth	From	To	Pre Pad <i>@ 1.54 CUFT³</i>		Max		5 Min.
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press <i>2000</i>	Max Press	From	To	Frac <i>15.4</i>		Avg		15 Min.
Well Connection <i>P.C.</i>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>3450'</i>	Packer Depth	From	To	Flush <i>81.8 BBL</i>		Gas Volume		Total Load

Customer Representative <i>RICK</i>	Station Manager <i>J. WESTERMAN</i>	Treater <i>D. SCOTT / K. LESLEY</i>
Service Units <i>P16531 84980 20920 19960 19860</i>		
Driver Names <i>LESLEY MARRUEZ HANSON</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:00 AM					ON LOCATION - SAFETY MEETING
10:05 AM					RUN 5 1/2" x 15.5" CSG.
					TURBO - 1, 3, 5, 7, 9, 11, 13, 15
					BASKET - #3
11:20 AM					CSG. ON BOTTOM
11:30 AM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
12:35 PM	300		5	5	H ₂ O
12:44 PM	275		24	5	MUD FLUSH
12:51 PM	275		5	5	H ₂ O SPACER
12:52 PM	250		42	5	MIX 150 SKS AA2 CMT. @ 14.8 PPG
1:00 PM					SHUT DOWN - CLEAR PUMP & LINES / DROPLD. 100%
1:10 PM	0		0	5	START DISPLACEMENT
1:22 PM	200		52	4	LIFT PRESSURE
1:27 PM	500		70	3	SLOW RATE
1:30 PM	1000		81.8	3	PLUG DOWN - HELD
					CIRC. THRU JOB
					PLUG RATHOLE
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY

ASIC Energy Services, L.P. is not responsible for any damages or legal actions of its employees, agents, independent contractors, or other persons or concerns.



TREATMENT REPORT

Customer **LD Drilling** Lease No. _____ Date **3/16/2018**
 Lease **Rous** Well # **1-28**
 Field Order # **16199** Station **Pratt, ks** Casing **5 1/2** Depth _____ County **Barton** State **ks**
 Type Job _____ Formation _____ Legal Description **28-16s-11w**

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2	2 7/8	4						
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
	3295	3353	55					
Volume	Volume	From	To	Pad	Min		10 Min.	
	19							
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
	2500							
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
	49.5							
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	
	3295			Oil & Water				

Customer Representative **Fred** Station Manager **Justin Westernman** Treater **Darin Franklin**

Service Units	92911	78982	86779	19960	19860				
Driver Names	Darin	Scott	Scott	Tyler	Tyler				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:00 pm					on location / safety meeting
					SK Common Cement
					14,000 ps, 1.51 veils, 7.71 water
8:00 pm	500		12	3	Log casing
		500	5	3 1/2	Injection Rate
		300	5	3	Pump 5 bbls oil
		300	13	3	mix 50 SK cement
		300	5	3	Displace 5 bbls oil 19 1/4 Totals
		156	13	3	14 1/4 bbls water
		600	15	2	
		700	17	1 1/4	
8:41 pm		800	19 1/4	1 1/4	Shut down & wait 30 min.
9:11 pm		0	1/4	0	Displace 1/4 bb wait 30 minutes
9:41 pm		0	3/4	0	
		900	10	1 3/4	Pump Away



ASIC Energy services, L.P.

TREATMENT REPORT

Customer LD Drilling	Lease No.	Date 3/16/2012
Lease Reus	Well # 1-28	
Field Order # 16197	Station	Casing 5 1/2 Depth
Type Job 242/SQUEEZE	Formation	County Barton State Ks
		Legal Description 28-16s-11a

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2	2 7/8							
Depth	Depth 3295	From	To	Pre Pad	Max		5 Min.	
Volume	Volume 19	From	To	Pad	Min		10 Min.	
Max Press	Max Press 2000	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol. 49.5	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth 3295	From	To	Flush 0.1 @ water	Gas Volume		Total Load	

Customer Representative Fred	Station Manager Justin Westerman	Treater Darin Franklin
-------------------------------------	---	-------------------------------

Service Units	9294	78982	86779	19860	19860				
Driver Names	Darin	Scott	Scott	Tyler	Tyler				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:50am		600	5	1 3/4	Pump 5 bbls oil
		600	13	1 3/4	mix 50 sk cement
		600	5	1 1/2	Pump 5 bbls oil
		150	10	1	13 bbls water 18 bbls Total
		150	12	1	
		350	13	1	
		500	15	1	
		750	18	1	Shut down
		0	0	0	wait 30 minutes
		10	1/2	1/4	Pump 1/2 bbl
		0	0	0	wait 30 minutes
		10	1/4	1/4	Pump 1/4 bbl
		10	18 3/4	0	wait 1 hour
		10	19 1/4	1/4	Pump 1/2 bbl
				1 1/2	Pull 1 Joint
	500		30	1 1/2	Reverse out
1:00pm					Shut in

Job complete/Darin & crew
Thank you!!!



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

TTMH 40

FIELD SERVICE TICKET

1718 16375 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>2/20/18</u> DISTRICT _____		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: _____								
CUSTOMER <u>L.P. Drilling, Inc</u>		LEASE <u>Rous</u>		1-28 WELL NO.						
ADDRESS _____		COUNTY <u>Barton</u>		STATE <u>KS</u>						
CITY _____ STATE _____		SERVICE CREW <u>Scott,</u>								
AUTHORIZED BY <u>Mark Davis</u>		JOB TYPE: <u>8 5/8 Surface Casing 242</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>86779</u>	<u>.5</u>					ARRIVED AT JOB	<u>2/19/18</u>			<u>11:00</u>
<u>21016</u>	<u>1.5</u>					START OPERATION	<u>2/20/18</u>			<u>2:00</u>
						FINISH OPERATION	<u>2/20/18</u>			<u>2:30</u>
						RELEASED	<u>2/20/18</u>			<u>3:00</u>
						MILES FROM STATION TO WELL _____				

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

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: X Rhl Wll
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60/40 Poz	SK	300		3600.00
CC102	Celloflake	lb	76		281.20
CC109	Calcium Chloride	lb	774		812.76
CF153	Wooden Cement Plug 8 5/8	EA	1		160.00
E100	Unit Mileage Pickup	MI	75		337.50
E101	Heavy Equipment Mileage	MI	150		1125.00
E113	Prop + Bulk Delivery	TM	968		2418.75
CE200	Depth Charge 0-500'	4hr	1		1000.00
CE240	Blending & Mixing Charge	SK	300		420.00
CE504	Plug Container Utilization	Job	1		250.00
5003	Service Supervisor	EA	1		175.00
SUB TOTAL					10580.15

CHEMICAL / ACID DATA:			

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

TOTAL 6,030.69

SERVICE REPRESENTATIVE [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X Rhl Wll
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Customer <i>L.P. Drilling Inc</i>		Lease No.		Date	
Lease <i>Rous</i>		Well # <i>1-28</i>		<i>2/20/18</i>	
Field Order # <i>16375</i>	Station <i>Pratt</i>	State <i>KS</i>	Casing <i>8 5/8</i>	Depth	County <i>Barton</i>
Type Job <i>8 5/8 Surface Casing</i>	Formation		Legal Description		

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>8 5/8</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>413.78</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>26.3164</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>300</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>8 5/8</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <i>384.78</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <i>Rick</i>	Station Manager <i>Justin Westerman</i>	Treater <i>Scott Graves</i>
--	--	--------------------------------

Service Units	<i>96817</i>	<i>78982</i>	<i>86779</i>	<i>19889</i>	<i>21010</i>				
Driver Names	<i>Scott McGraw</i>	<i>—</i>	<i>Josh</i>	<i>—</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>11:00</i>	<i>2/19</i>				<i>On location Safety Meeting Rig 4</i>
	<i>2/20</i>				<i>Break Circulation</i>
<i>2:00</i>	<i>200</i>			<i>4.6</i>	<i>Pump H2O</i>
<i>2:01</i>	<i>1:80</i>		<i>3</i>	<i>4.6</i>	<i>Start Cement 60/40 POZ 14.8#</i>
<i>2:15</i>	<i>Ø</i>		<i>64.65</i>	<i>Ø</i>	<i>Shut down 300skts</i>
<i>2:16</i>	<i>—</i>			<i>—</i>	<i>Release Plug</i>
<i>2:17</i>	<i>140</i>			<i>4</i>	<i>Start Displacement</i>
<i>2:19</i>	<i>210</i>		<i>10</i>	<i>4</i>	<i>Cement Circulated to PM</i>
<i>2:23</i>			<i>25.5</i>	<i>Ø</i>	<i>Shut down 15.5 bbls</i>
<i>2:23</i>					<i>Job Complete to PM</i>



Company: L. D. Drilling, Inc
Lease: Rous #1-28

SEC: 28 TWN: 16S RNG: 11W
 County: BARTON
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1920 EGL
 Field Name: Kraft-Prusa
 Pool: Infield
 Job Number: 116

DATE
 February
24
 2018

DST #1 **Formation: LKC K** **Test Interval: 3282 - 3310'** **Total Depth: 3310'**
 Time On: 08:45 02/24 Time Off: 14:50 02/24
 Time On Bottom: 10:54 02/24 Time Off Bottom: 10:54 02/24

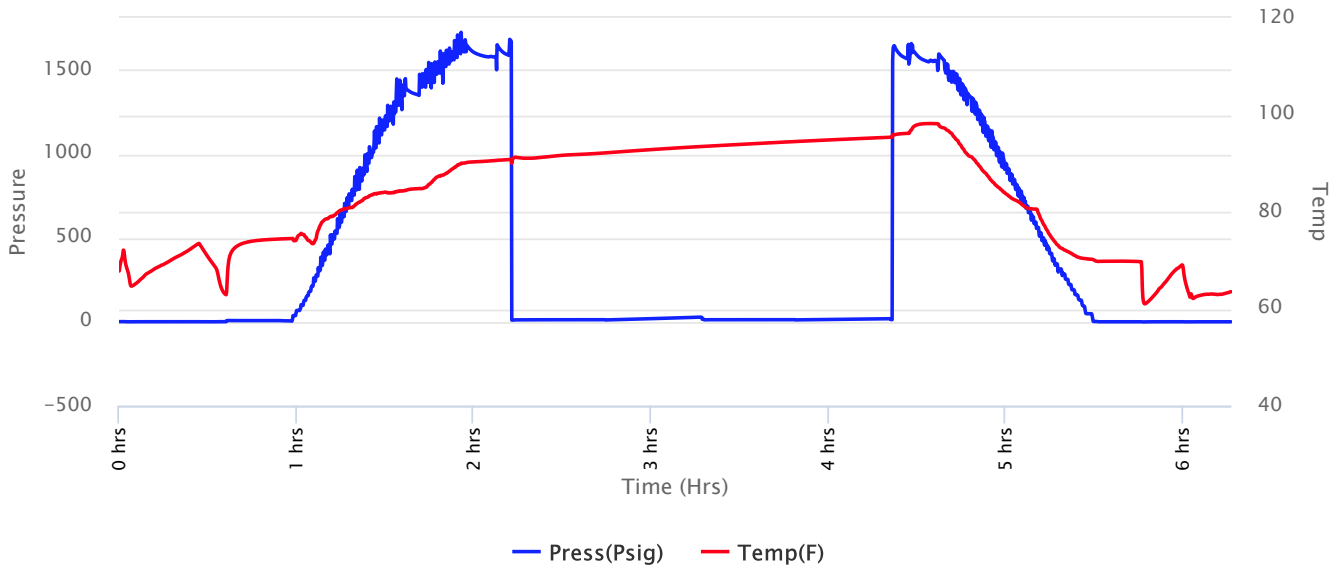
Electronic Volume Estimate:
 11'

1st Open
 Minutes: 30
 1.3" at 30 min

1st Close
 Minutes: 30
 0" at 30 min

2nd Open
 Minutes: 30
 0" at 30 min

2nd Close
 N/A





Company: L. D. Drilling, Inc
Lease: Rous #1-28

SEC: 28 TWN: 16S RNG: 11W
 County: BARTON
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1920 EGL
 Field Name: Kraft-Prusa
 Pool: Infield
 Job Number: 116

DATE
 February
24
 2018

DST #1 **Formation: LKC K** **Test Interval: 3282 - 3310'** **Total Depth: 3310'**
 Time On: 08:45 02/24 Time Off: 14:50 02/24
 Time On Bottom: 10:54 02/24 Time Off Bottom: 10:54 02/24

Recovered

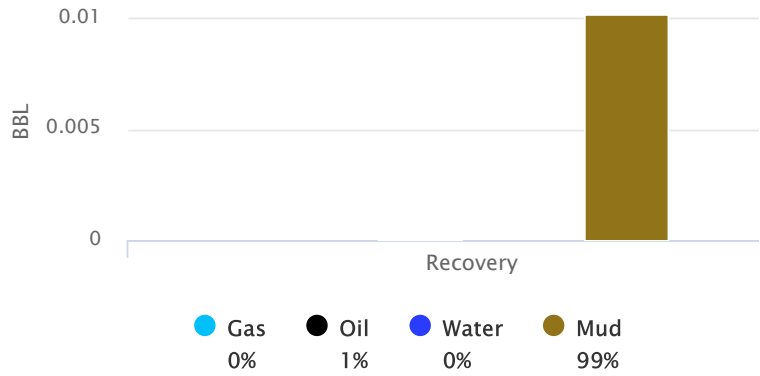
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1	0.01026	SLOCM	0	1	0	99

Total Recovered: 1 ft
 Total Barrels Recovered: 0.01026

Reversed Out
 NO

Initial Hydrostatic Pressure	1581	PSI
Initial Flow	10 to 12	PSI
Initial Closed in Pressure	28	PSI
Final Flow Pressure	12 to 13	PSI
Final Closed in Pressure	19	PSI
Final Hydrostatic Pressure	1569	PSI
Temperature	96	°F
 Pressure Change Initial Close / Final Close	 33.9	 %

Recovery at a glance





Company: L. D. Drilling, Inc
Lease: Rous #1-28

SEC: 28 TWN: 16S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1920 EGL
Field Name: Kraft-Prusa
Pool: Infield
Job Number: 116

<p>DATE February 24 2018</p>
--

DST #1 **Formation: LKC K** **Test Interval: 3282 -** **Total Depth: 3310'**
3310'

Time On: 08:45 02/24

Time Off: 14:50 02/24

Time On Bottom: 10:54 02/24

Time Off Bottom: 10:54 02/24

REMARKS:

10. WSB. Built to 1 3/4 inch

1C. NOBB

Equipment broke on second opening.

TOOL Sample. 1% O 99% M



Company: L. D. Drilling, Inc
Lease: Rous #1-28

SEC: 28 TWN: 16S RNG: 11W
 County: BARTON
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1920 EGL
 Field Name: Kraft-Prusa
 Pool: Infield
 Job Number: 116

<p>DATE February 24 2018</p>

DST #1 **Formation: LKC K** **Test Interval: 3282 - 3310'** **Total Depth: 3310'**

Time On: 08:45 02/24 Time Off: 14:50 02/24
 Time On Bottom: 10:54 02/24 Time Off Bottom: 10:54 02/24

Down Hole Makeup

Heads Up: 29.32 FT	Packer 1: 3277 FT
Drill Pipe: 3278.75 FT <i>ID-3 1/4</i>	Packer 2: 3282 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3266.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3287 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: 28	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 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): 24 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Rous #1-28

SEC: 28 TWN: 16S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1920 EGL
Field Name: Kraft-Prusa
Pool: Infield
Job Number: 116

<p>DATE February 24 2018</p>
--

DST #1 **Formation: LKC K** **Test Interval: 3282 - 3310'** **Total Depth: 3310'**

Time On: 08:45 02/24 Time Off: 14:50 02/24
Time On Bottom: 10:54 02/24 Time Off Bottom: 10:54 02/24

Mud Properties

Mud Type: Chem **Weight:** 9.3 **Viscosity:** 51 **Filtrate:** 10.4 **Chlorides:** 6300 ppm



Company: L. D. Drilling, Inc
Lease: Rous #1-28

SEC: 28 TWN: 16S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1920 EGL
Field Name: Kraft-Prusa
Pool: Infield
Job Number: 116

DATE February 24 2018
--

DST #1 **Formation: LKC K** **Test Interval: 3282 - 3310'** **Total Depth: 3310'**

Time On: 08:45 02/24 Time Off: 14:50 02/24
Time On Bottom: 10:54 02/24 Time Off Bottom: 10:54 02/24

Gas Volume Report

1st Open

2nd Open

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

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



Company: L. D. Drilling, Inc
Lease: Rous #1-28

SEC: 28 TWN: 16S RNG: 11W
 County: BARTON
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1920 EGL
 Field Name: Kraft-Prusa
 Pool: Infield
 Job Number: 116

DATE
 February
25
 2018

DST #2 Formation: Arbuckle Test Interval: 3312 - 3356' Total Depth: 3356'

Time On: 04:05 02/25 Time Off: 15:09 02/25
 Time On Bottom: 06:05 02/25 Time Off Bottom: 09:05 02/25

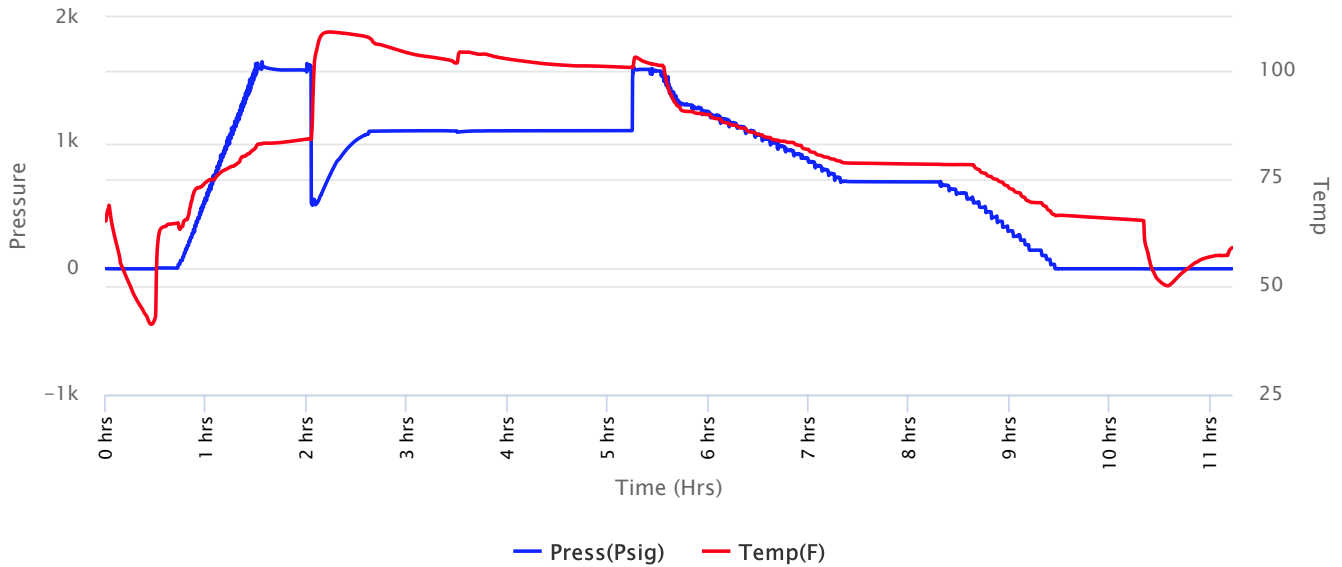
Electronic Volume Estimate:
 2824'

1st Open
 Minutes: 30
 320" at 30 min

1st Close
 Minutes: 45
 2" at 45 min

2nd Open
 Minutes: 45
 21" at 45 min

2nd Close
 Minutes: 60
 0" at 60 min





Company: L. D. Drilling, Inc
Lease: Rous #1-28

SEC: 28 TWN: 16S RNG: 11W
 County: BARTON
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1920 EGL
 Field Name: Kraft-Prusa
 Pool: Infield
 Job Number: 116

DATE
 February
25
 2018

DST #2 Formation: Arbuckle Test Interval: 3312 - 3356' Total Depth: 3356'

Time On: 04:05 02/25 Time Off: 15:09 02/25
 Time On Bottom: 06:05 02/25 Time Off Bottom: 09:05 02/25

Recovered

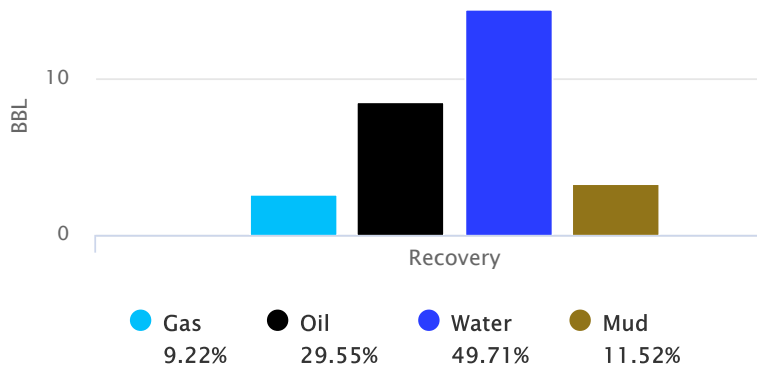
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
95	0.9747	G	100	0	0	0
63	0.64638	O	0	100	0	0
283	2.90358	SLMCSLWCO	0	85	10	5
504	5.17104	SLGCSLMCSLWCO	3	79	13	5
756	7.75656	SLOGCHWCM	20	15	30	35
1134	11.63484	SLMCSLOCW	0	2	96	2

Total Recovered: 2835 ft
 Total Barrels Recovered: 29.0871

Reversed Out
 NO

Initial Hydrostatic Pressure	1581	PSI
Initial Flow	506 to 1077	PSI
Initial Closed in Pressure	1097	PSI
Final Flow Pressure	1086 to	PSI
Final Closed in Pressure	1099	PSI
Final Hydrostatic Pressure	1105	PSI
Temperature	1586	°F
	110	
Pressure Change Initial		%
Close / Final Close	0.0	

Recovery at a glance





Company: L. D. Drilling, Inc
Lease: Rous #1-28

SEC: 28 TWN: 16S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1920 EGL
Field Name: Kraft-Prusa
Pool: Infield
Job Number: 116

DATE February 25 2018
--

DST #2 Formation: Arbuckle Test Interval: 3312 - Total Depth: 3356'
3356'

Time On: 04:05 02/25 Time Off: 15:09 02/25
Time On Bottom: 06:05 02/25 Time Off Bottom: 09:05 02/25

REMARKS:

- 1O. 1" inch Blow. (BOB in 1 min)
- 1C. 2" inch BB
- 2O. 1/2" Blow. (BOB in 6 1/2")
- 2C. NOBB

Tool Sample: 80% O 15% W 5% M

H2S: HIT 800 PPM on Gas Detector coming out of pipe, in work space area H2S hit 40 ppm

Gravity: 43 @ 60 degrees F

Ph: 7

RW: .79 @ 54 degrees F

Chlorides: 15000 ppm



Company: L. D. Drilling, Inc
Lease: Rous #1-28

SEC: 28 TWN: 16S RNG: 11W
 County: BARTON
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1920 EGL
 Field Name: Kraft-Prusa
 Pool: Infield
 Job Number: 116

<p>DATE February 25 2018</p>

DST #2 Formation: Arbuckle Test Interval: 3312 - 3356' Total Depth: 3356'

Time On: 04:05 02/25 Time Off: 15:09 02/25
 Time On Bottom: 06:05 02/25 Time Off Bottom: 09:05 02/25

Down Hole Makeup

Heads Up: 30.12 FT	Packer 1: 3307 FT
Drill Pipe: 3309.55 FT <i>ID-3 1/4</i>	Packer 2: 3312 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3296.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3315 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: 44	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 1 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): 42 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Rous #1-28

SEC: 28 TWN: 16S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1920 EGL
Field Name: Kraft-Prusa
Pool: Infield
Job Number: 116

<p>DATE February 25 2018</p>
--

DST #2 Formation: Arbuckle Test Interval: 3312 - Total Depth: 3356'
3356'

Time On: 04:05 02/25 Time Off: 15:09 02/25
Time On Bottom: 06:05 02/25 Time Off Bottom: 09:05 02/25

Mud Properties

Mud Type: Chem **Weight:** 8.95 **Viscosity:** 57 **Filtrate:** 9.2 **Chlorides:** 5900 ppm



Company: L. D. Drilling, Inc
Lease: Rous #1-28

SEC: 28 TWN: 16S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1920 EGL
Field Name: Kraft-Prusa
Pool: Infield
Job Number: 116

DATE February 25 2018
--

DST #2 Formation: Arbuckle Test Interval: 3312 - Total Depth: 3356'
3356'

Time On: 04:05 02/25 Time Off: 15:09 02/25
Time On Bottom: 06:05 02/25 Time Off Bottom: 09:05 02/25

Gas Volume Report

1st Open

2nd Open

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

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

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

312-833-8709 + WILMTEXS

GEOLOGIST'S REPORT

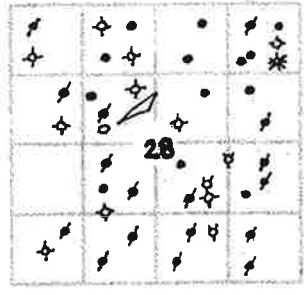
DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.
 WELL # 1-28 ROUS
 FIELD KRAFT-PRUSA
 LOCATION 2310' FNL + 1650' FWL
 SEC. 28 TWP. 16s RGE. 11w
 COUNTY BARTON STATE KANSAS
 CONTRACTOR L. D. DRILLING, INC.
 START 2-19-18 STOP 2-26-18
 WELLS 3460 LTD. 3460
 MUD WT. 2598 TYPE MUD CHEMICAL

CLIENTS
 NO. 1923
 DATE 1918
 NO. OF POINTS AT 28
 POINT 1923 KB
 CASING
 SURFACE 8 5/8" @ 413'
 PENETRATION 5 1/2" @
 ELECTRICAL SURVEYS
 Dual IND., DENS., N. Micro

SAMPLES SAVED FROM 2600 TO 3460
 DRILLING TIME KEPT FROM 2600 TO 3460
 SAMPLES EXAMINED FROM 2600 TO 3460
 GEOLOGICAL SUPERVISION FROM 3000 TO 3460
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	772+1151	770+1153
B/ANK.	798+1125	782+1141
TOPEKA	2680-757	2680-757
HEESNER	2970-1047	2971-1048
BROWN LIME	3066-1143	3066-1143
LANSING	3080-1157	3082-1159
B/KC	3323-1400	3323-1400
ARBUCKLE	3348-1425	3352-1429



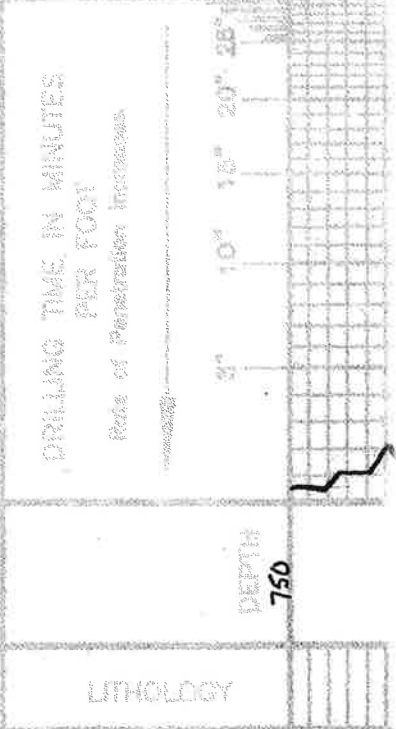
API: 15-009-26200

REMARKS

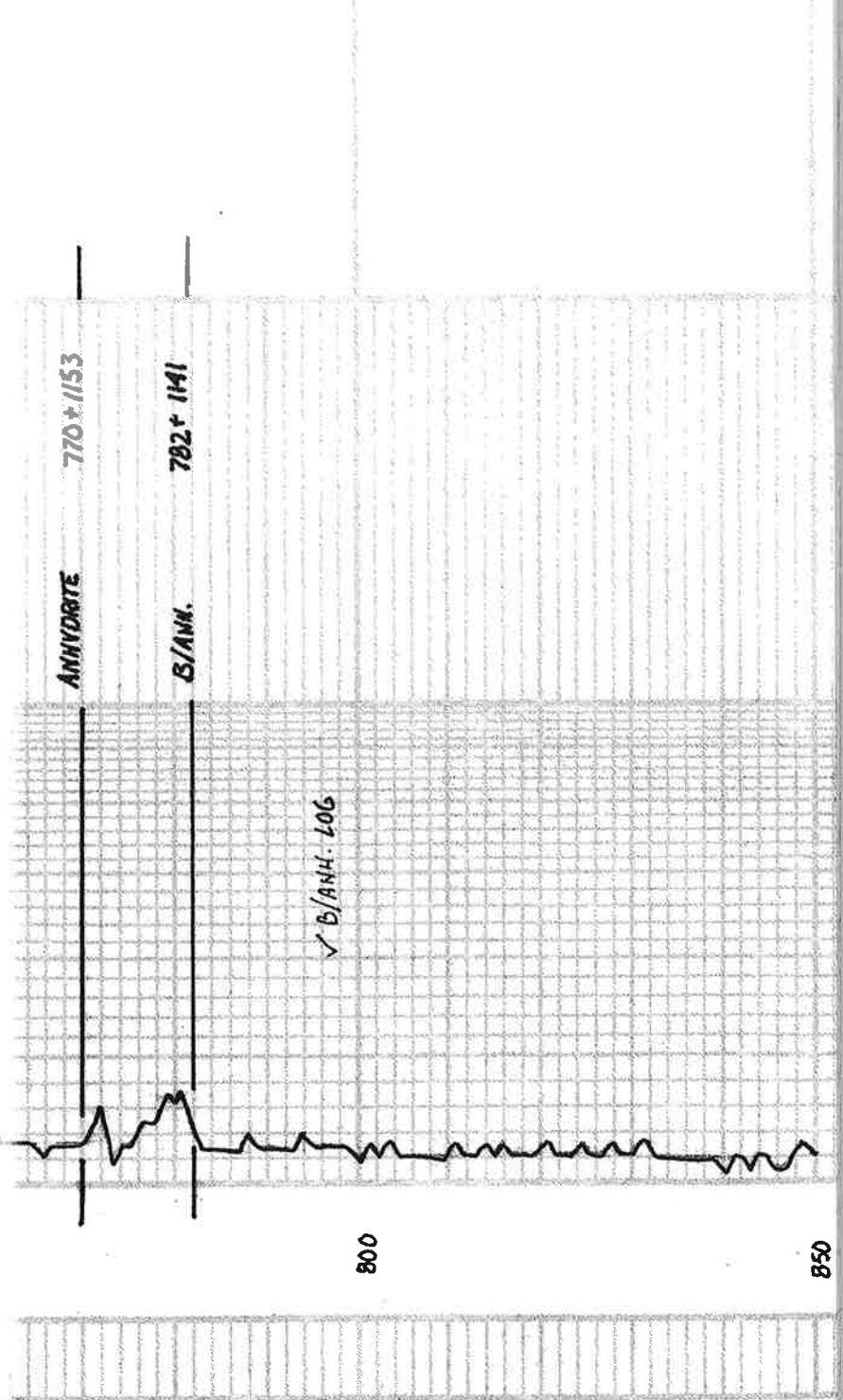
2-19-18 SPUD
 2-20 @ 413'
 2-21 @ 1535'
 2-22 @ 2251'
 2-23 @ 2930'
 2-24 @ 3310'
 2-25 @ 3356'
 2-26 @ 3460'

LEGEND

- Anhydrite
- Sandstone
- Shell
- Carb. sh.
- Limestone
- Shale
- Gypsiferous



DRILLING TIME IN MINUTES
 PER FOOT
 Rate of Penetration in Inches



SHOED1-11

850

2600

2700

2800

Samples are lagged

sh. lig.

sh. lig. silty

ls. 7. lig. vs. foss.

ls. 7. wt. foss. sh. A

ls. 7. sh. foss.

sh. lig. 'Gummy'

TOPEKA 2680-797

ls. 7. wt. sh. foss. sh. A

ls. lig. vs. chly.

ls. 7. lig. sh. foss.

ls. 7. sh. sh. foss.

sh. g.

ls. wt. chly.

ls. wt. ool. foss. chly.

ls. g. sh. foss.

ls. wt. sh. foss. chly.

sh. dk. g.

sh. sh. dk. g.

ls. lig. sh. foss. w/ dk. g. foss.

sh. g. dk.

ls. 7. sh. sh. foss. sh. A

ls. g. sh. foss.

sh. dk. g.

ls. wt. lig. sh. foss. sh. chly.

Howard



2900

3000

3100

3200

VIS: 50
WT: 8.9
ML: 10.2
CL: 7000

TORONTO

DOUGLAS

Sh. Blue
 Ls. Lig. Sil. Foss. of 0.6 g Foss.
 Ls. Tr. w/ Lig. ad. Calcitic Sil. Chalky
 Ls. w/ Sil. Foss. Sil. Chalky
 Ls. w/ Ls. Foss. Sil. Chalky
 Ls. Lig. V. Sil. Foss.
 Ls. Tr. Lig. V. Sil. Foss.
 Ls. Tr. Lig. w/ 0.6 g. Foss.

HEBNER 2971-1048

Sh. Blue Carb.
Ls. G. V. Sil. Foss

Sh. Lt Blue
 Ls. w/ Sil. Foss. Sil. A. P. in p
 Lt Bl. Sp. Sil. V. Sil. Foss. 6d Flour. No odor.
 Ls. w/ Sil. A.
 Sh. Rd.

Sh. Lt Blue-G.

Sh. Lig. G. Silly.

Sh. Lig. Silly

Sh. Lig. Silly

BROWN LIME 3066-1113

Ls. G. Sil. Foss.

LANSING 3082-1159

Sh. Lt. G.
 Ls. w/ V. Sil. Foss. Sil. A. P. in p
 Lt Bl. Sp. Sil. Foss. No odor.

Ls. w/ V. Sil. Foss. Sil. Chalky.

Ls. G. Sil. Foss

Sh. Lt Blue

Ls. Tr. w/ occ. Sil. acc.

Ls. w/ Sil. acc. Sil. Chalky.

Sh. G.

Ls. Tr. Bl. Foss. Sil. A

Ls. Tr. Foss. w/ Lt Bl. Foss.

Sh. Blue-G.

Ls. w/ Lig. V. Sil. Foss. Sil. A. P. in p
 Lt Bl. Sp. Sil. Foss. F. Sp. Flour. V. F. odor

Ls. Lig. V. Sil. Foss. Sil. Chalky.

Ls. Tr. w/ occ. jd. acc. p

Ls. Tr. w/ occ. Sil. Chalky

Ls. G. V. Sil. A

Ls. G. Du.

ls. G. V.S. A

ls. G. Dh.

Sh. Blk

Sh. Bl

ls. T. G. V.S.I. F.S.S.

Sh. G. G

ls. R. Sh. A

ls. wt. Sil. chly.

ls. wt. Sil. Foss. Sil. A

ls. wt. V.S.I. Foss. V.S.I. chly.

Sh. Blk

Sh. G.

ls. wt. V.S.I. Foss. Sil. A
ls. wt. Sil. Foss. Sil. A
V.S.I. Foss. Sil. A
V.S.I. Foss. Sil. A
V.S.I. Foss. Sil. A
V.S.I. Foss. Sil. A

ls. G. Sil. Foss. Sil. A

ls. Gp. Sil. Foss. Sil. A
ls. Gp. Sil. Foss. Sil. A
ls. Gp. Sil. Foss. Sil. A
ls. Gp. Sil. Foss. Sil. A

BINC 3323-1400
Sh. Blk

ls. T. R. Sh. Dh.

ls. T. R. Dh.

Sh. G. G

ARBUCKLE 3352-1429
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.

Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.

Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.

Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.

Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.

Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.

Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.

Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.

Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.

Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.

Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.
Dol. wt. Coxh. Dh.

RTD 3460-1537

3300

3400

DST (1) 3282-330

1st open: 1011 to 1014"

2nd open: No Blow

30-30-30-30

Re: 1' V.30CM (1/1 oil)

FP: 10-12# 12-15#

SIP: 28-19#

Temp: 80°



DST (2) 3312-3356

1st open: Bottom Bucket 1 min.

2nd open: " " 6 1/2"

30-45-45-60

Re: 95' G.L.P. 63' CO 48 G.M.K @ 60°

283' SWHO (57% M. 10% W. 8% 2012)

504' SWHO (57% M. 8% W. 15% W. 79% oil)

756' O.C.I.W.M (35% M. 20% W. 30% W. 15% oil)

1134' SNOW (27% M. 96% W. 27.01)

TP: 2835'

FP: 506-1077 / 1880-#

SIP: 1097-1105#

Temp: 110° F

CW: 15,000

RW: 79 @ 59° F

PH: 7

Total Sample: (80% oil, 15% W. S.M)

(80% oil, 15% W. S.M)

