

1368716



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) (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	ARENSMAN 2
Doc ID	1368716

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	ARENSMAN 2
Doc ID	1368716

Tops

Name	Top	Datum
ANHYDRITE	764	+1158
BASE ANHYDRITE	776	+1146
TOPEKA	2662	-740
HEEBNER	2954	-1032
BROWN LIME	3050	-1128
LANSING	3070	-1148
BASE KANSAS CITY	3310	-1388
ARBUCKLE	3350	-1428

Customer LD DRILLING	Lease No.	Date 8/28/17
Lease ARENSMAN	Well # 2	
Field Order #	Station PRATT	Casing 8 7/8
		Depth
Type Job CEMENT SURFACE CASING	Formation	County BARTON
		State Ks
		Legal Description 28-16s-11W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
8 7/8								
Depth 413'	Depth	From	To	Pre Pad FRESH WATER	Max 5	300	5 Min.	
Volume 25.0	Volume	From	To	Pad 60' 40' 21' 31'	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 373'	Packer Depth	From	To	Flush FRESH WATER	Gas Volume		Total Load	

Customer Representative **BECK WILSON** Station Manager **J. WESTERMAN** Treater **KEVIN B**

Service Units	27463	19959	19913	170162				
Driver Names	MATA	COLE	BOB	KEVIN				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:30 AM	250	200			ON LOCATION - JOB + SAFETY
					RIG UP
					RUN 10 JTS. CASING + SET @ 413'
					RIG UP CEMENT HEAD +
					BREAK CIRCULATION / RIG
					RIG UP TO CEMENT PUMP
1:10	250		4	4	START FRESH WATER
	300		5	5	FRESH WATER IN - START CEMENT
			64 1/2	5	CEMENT IN - STOP PUMP
					CHANGE VALVES + RELEASE RIG
	100			3	START DISPLACEMENT
	100		15	4	CEMENT CIRCULATES
1:30	175		10	4	PLUG DOWN - STOP PUMP
					+ SHUT IN



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 15259 A

28-165-11w

DATE _____ TICKET NO. _____

DATE OF JOB: 9/11/2012		DISTRICT: Pratt, KS		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: LD Drilling, Inc.				LEASE: Arensmen				WELL NO. 2	
ADDRESS:				COUNTY: Barton		STATE: KS			
CITY:				STATE:		SERVICE CREW: Derrin, McGuire, Cobb			
AUTHORIZED BY:				JOB TYPE: 242/5 1/2 Longstrings					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19843 X	1						9/11	AM	11:00
21010 X	1/2						9/11	PM	12:00
							9/11	AM	5:00
							9/11	PM	6:00
							9/11	AM	6:43
						MILES FROM STATION TO WELL	76		

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: *Phil W...*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP105	AA2 Cement	SK	150		2,550 00	
CP103	10/40 Poz	SK	30		360 00	
CC200	Cement Gel	Lb	475		118 75	
CC102	Cellofibre	Lb	35		140 60	
CC111	S91+	Lb	816		408 00	
CC129	FLA-322	Lb	113		847 50	
CC113	Gypsum	Lb	705		528 75	
CC201	Gilsonite	Lb	901		603 67	
CF1251	Auto Fill Flooz shoe, 5 1/2" (Blue)	ES	1		360 00	
CF607	Loosen Down Plug & Baffle, 5 1/2" (Blue)	ES	1		400 00	
CF1901	5 1/2 Basket (Blue)	ES	1		290 00	
CF1651	Turbolizer, 5 1/2" (Blue)	ES	8		880 00	
CC151	Mud Flush	Gal	1,000		1,500 00	
E100	Unit mileage charge - pickups, small use cars	m.	75		337 50	
E101	Heavy Equipment Mileage	m.	150		1,125 00	
CF113	Proppant Gas Bulk Delivery Charges, per ton mile	Ton/m	626		1,565 63	
CF204	Depth Charge, 3001-4000'	4hrs	1		2160 00	
CF240	Blending & Mixing Service Charge	SK	180		252 00	
S003	Service Supervisor, first 8 hrs on location	ES	1		175 00	
CB504	Plug container utilization charge	Job	1		250 00	
					SUBTOTAL	250 00
CHEMICAL / ACID DATA:					Job Total	14,952 40
				SERVICE & EQUIPMENT	%TAX ON \$	
				MATERIALS	%TAX ON \$	
					TOTAL	8,168 05

SERVICE REPRESENTATIVE: *Steve K...* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Phil W...*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Customer LD Drilling, Inc	Lease No.	Date 9/1/2017
Lease Arensman	Well # 2	
Field Order # 15259	Station Pratt, KS	Casing 5 1/2
		Depth 3456
Type Job 242/5 1/2 Longstring	Formation TD-	County Barton
		State KS
		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				Pre Pad	Max		5 Min.	
Depth 3456	Depth	From	To	Pad	Min		10 Min.	
Volume 82.2	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush Freshwater	Gas Volume		Total Load	
Plug Depth 3442	Packer Depth	From	To					

Customer Representative Mick Davis / David Scott	Station Manager Justin Westerman	Treater Darin Franklin
Service Units 92911 54881 19843 19960 21010		
Driver Names Darin McGuire McGuire Cobb Cobb		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:00pm					on location / safety meeting
					5 1/2 casing set at 3456
					J-1, 3, 5, 7, 9, 11, 13, 15 B-5
					150 SK AP2 Cement, 10% Salt, 10% gypsum
					6 pps Gilsontite, 0.25 pps Cellulose, 0.8% Fluid Loss
					14.8 pps, 1.54 vels, 6.52 wgr
					30 SK 60/40 Poz + 4% Cel = 13.76 pps, 1.41 vels
5:00pm	100		5	5	Pump 5 bbls water
	100		24	5	Pump 24 bbls mud Flush
	100		5	5	Pump 5 bbls water
	100		41	5	mix 150 sk AP2 Cement
					Shut down
					wash pump & lines & Release Plug
	150		0	6 1/4	Start displacement
	400		57	5	Lift Pressure
	400		70	3	Slow Rate
	1200		80	3	Bump Plug
					Flow - Held
	30		7	3	Plug Run hole
6:00pm					Job Complete / Darin & Crew
					Thank you!!

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

516-884-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.
 LEASE * 2 ARENSMAN
 FIELD KRAFT-PRUSA
 LOCATION 330' FNL & 2310' EWL, NENENW
 SEC 28 TWP 16s RGE 11w
 COUNTY BARTON STATE KANSAS
 CONTRACTOR L. D. DRILLING, INC.
 SPUD 8-26-17 COMP 9-1-17
 RID 3465 LTD 3464
 MUD UP 2595 TYPE MUD CHEMICAL

ELEVATIONS
 KB 1922
 DF
 OL 1917
 Measurements A-e All From 1922 KB
 CASING
 SURFACE 8 5/8" @ 413'
 PRODUCTION 5 1/2" @
 ELECTRICAL SURVEYS
 DUAL IND., DENS., MICRO, SONIC

SAMPLES SAVED FROM 2600 TO 3465
 DRILLING TIME KEPT FROM 2600 TO 3465
 SAMPLES EXAMINED FROM 2600 TO 3465
 GEOLOGICAL SUPERVISION FROM 2900 TO 3465
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	764+1158	
B/ANH.	776+1146	
TADPEKA	2662-740	2664-742
HEEBNER	2954-1032	2957-1035
BROWN LIME	3050-1128	3051-1129
LANSING	3070-1148	3068-1146
B/KC	3310-1388	3312-1390
ARBUCKLE	3350-1428	3352-1430



API: 15-009-26183

REMARKS
 8-26-17 SPUD
 8-27 @ 416'
 8-28 @ 1605'
 8-29 @ 2595'
 8-30 @ 3155'
 8-31 @ 3363'
 9-1 @ 3465'

LEGEND

- Anhydrite
- Shell
- Sand sh.
- Limestone
- Dolomite
- Chalk
- Oil Shale
- Detonite

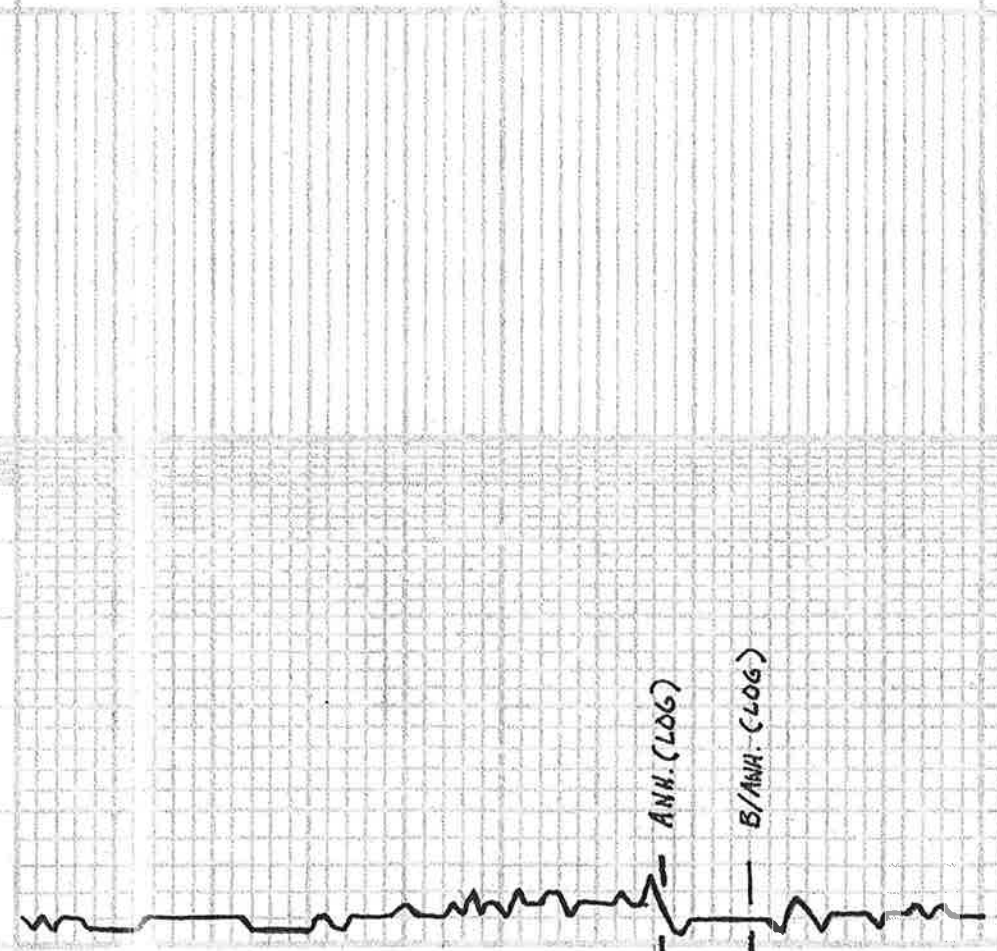
DRILLING TIME IN MINUTES PER FOOT
 Rate of Penetration Increases

DEPTH
 0' 10' 15' 20' 25'
 700

REMARKS

SAMPLE DESCRIPTIONS

LITHOLOGY



SHO-11-10385

800

2600

2700

2800

VIS: S1
WT: B-7
WL: B-B
CML: 5200

HOWARD



Samples are Lagged

Sh. Lt. G. Silty

Ls. T. G. VSI Foss.

Ls. T. wt. Sl. Foss. VSI

Sh. Lt. G. Silty

TOPEKA 2661-792

Ls. G. Sl. Foss.

Ls. T. G. Dns.

Sh. C. G.

Ls. Lt. G. Sl. Foss.

Ls. T. Foss. VSI Ch. G.

Sh. G.

Ls. T. G. Foss. G. lentia

Ls. wt. Sl. Foss. Ch. G.

Ls. T. G. Sl. Foss.

Ls. wt. Ch. G. VSI Foss.

Δ G. Foss.

Ls. T. Lt. Sl. Foss.

Sh. D. G. B. K.

Ls. D. B. G. Sl. Foss.

Sh. Lt. G.

Ls. Lt. G. Foss. w/ D. G. Foss.

Sh. Lt. B. G.

Ls. Lt. G. VSI Foss.

Ls. T. G. Sl. Foss.

Sh. Lt. G.

Ls. T. Lt. Sl. VSI Foss.

Sh. B. G. G. B.

Ls. T. Sl. Foss. Sl. A



Company: L. D. Drilling, Inc
Lease: Arensman #2

State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1922 KB
 Field Name: Kraft-Prusa
 Pool: Infield
 Job Number: 51

DATE
 August
30
 2017

DST #1 **Formation: Lansing "B-F"** **Test Interval: 3083 - 3155'** **Total Depth: 3155'**
 Time On: 10:16 08/30 Time Off: 17:00 08/30
 Time On Bottom: 12:15 08/30 Time Off Bottom: 15:15 08/30

Recovered

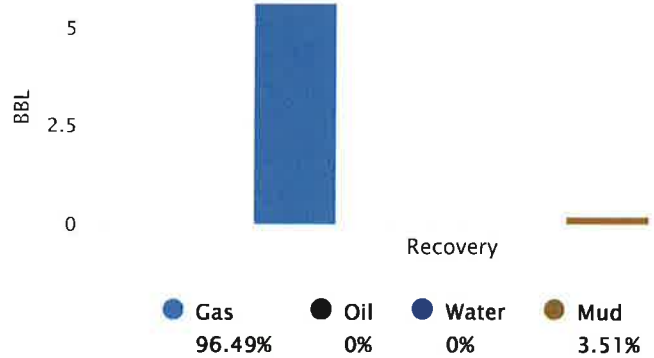
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
550	5.643	G	100	0	0	0
20	0.2052	M	0	0	0	100

Total Recovered: 570 ft
 Total Barrels Recovered: 5.8482

Reversed Out
 NO

Initial Hydrostatic Pressure	1485	PSI
Initial Flow	21 to 28	PSI
Initial Closed in Pressure	301	PSI
Final Flow Pressure	17 to 28	PSI
Final Closed in Pressure	345	PSI
Final Hydrostatic Pressure	1477	PSI
Temperature	105	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance





Company: L. D. Drilling, Inc

Lease: Arensman #2

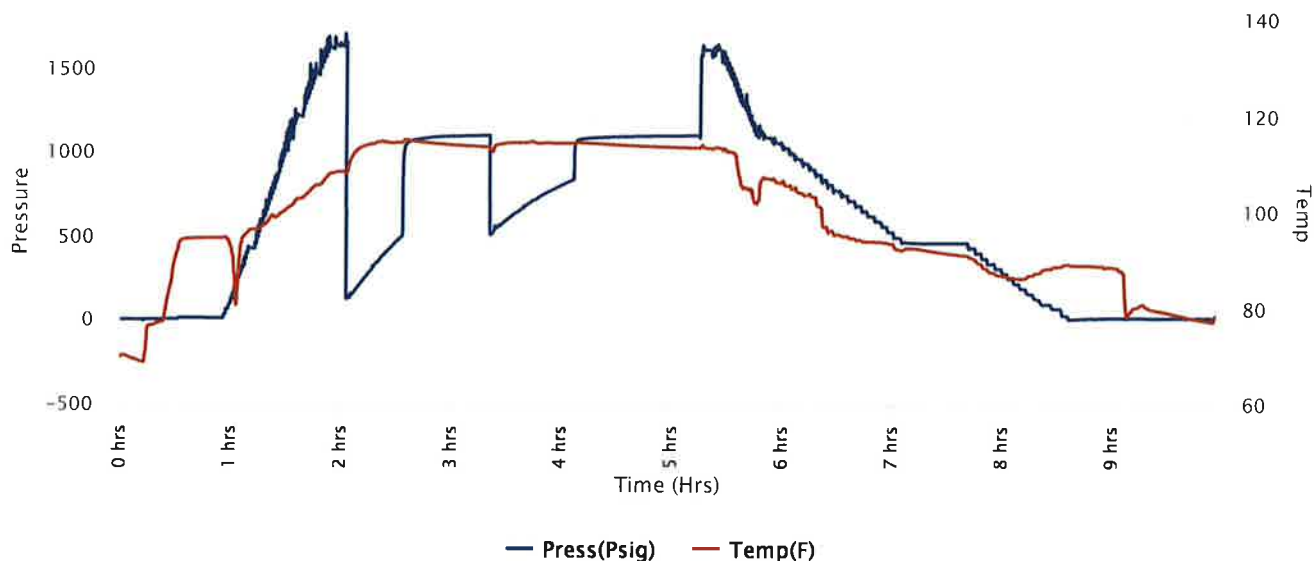
County: BARTON
State: Kansas
Drilling Contractor: L. D. Drilling, Inc - Rig 1
Elevation: 1922 KB
Field Name: Kraft-Prusa
Pool: Infield
Job Number: 51

DATE
August
31
2017

DST #2 **Formation: Arbuckle** **Test Interval: 3310 - 3363'** **Total Depth: 3363'**

Time On: 09:51 08/31 Time Off: 19:35 08/31
Time On Bottom: 11:51 08/31 Time Off Bottom: 14:51 08/31

Electronic Volume Estimate:	1st Open Minutes: 30	1st Close Minutes: 30	2nd Open Minutes: 45	2nd Close Minutes: 60
3115'	249" at 30 min	1.7" at 30 min	314" at 45 min	1.5" at 60 min





Company: L. D. Drilling, Inc

Lease: Arensman #2

State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1922 KB
 Field Name: Kraft-Prusa
 Pool: Infield
 Job Number: 51

DATE
 August
31
 2017

DST #2 Formation: Arbuckle Test Interval: 3310 - Total Depth: 3363'
3363'

Time On: 09:51 08/31 Time Off: 19:35 08/31
 Time On Bottom: 11:51 08/31 Time Off Bottom: 14:51 08/31

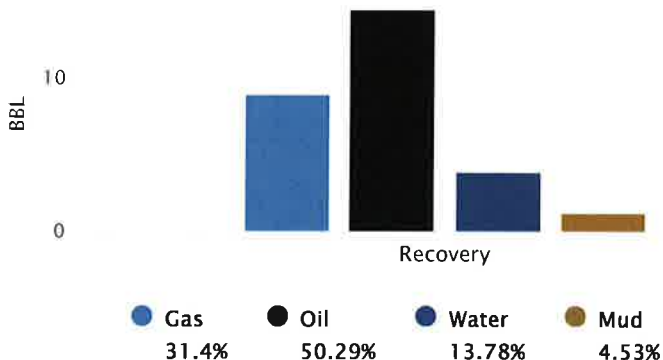
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
500	5.13	G	100	0	0	0
945	9.6957	SLGCO	15	85	0	0
375	3.8475	SLMCSLWCSLGO	15	65	10	10
890	9.1314	SLMCGCHWCO	20	40	30	10
80	0.8208	W	0	0	100	0

Total Recovered: 2790 ft
 Total Barrels Recovered: 28.6254

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1631	PSI
Initial Flow	128 to 506	PSI
Initial Closed in Pressure	1101	PSI
Final Flow Pressure	510 to 839	PSI
Final Closed in Pressure	1101	PSI
Final Hydrostatic Pressure	1611	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	0.0	%



Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1922 KB
Field Name: Kraft-Prusa
Pool: Infield
Job Number: 51

DATE
August
31
2017

DST #2 Formation: Arbuckle Test Interval: 3310 - Total Depth: 3363'
3363'

Time On: 09:51 08/31 Time Off: 19:35 08/31
Time On Bottom: 11:51 08/31 Time Off Bottom: 14:51 08/31

REMARKS:

Initial Flow: BOB in 1.5 mins.
Initial Shut-in: 1.7 ins. @ BB.
Final Flow: BOB in 2 mins.
Final Shut-in: 1.5 ins. @ BB.

Recovered 500 ft. of gas in pipe & 2,290 ft. total fluid.

Gravity: 42.9 @ 60 degrees F

Ph: 8.0

RW: .27 @ 80 degrees F

Chlorides: 134,000 ppm



Company: L. D. Drilling, Inc

SEC: 28 TWN: 16S RNG: 11W
County: BARTON
State: Kansas

Rig 1
 Elevation: 1922 KB
 Field Name: Kraft-Prusa
 Pool: Infield
 Job Number: 51

<p>DATE August 31 2017</p>

DST #2 Formation: Arbuckle Test Interval: 3310 - 3363' Total Depth: 3363'

Time On: 09:51 08/31 Time Off: 19:35 08/31
 Time On Bottom: 11:51 08/31 Time Off Bottom: 14:51 08/31

Down Hole Makeup

Heads Up: 31.57 FT	Packer 1: 3305 FT
Drill Pipe: 3309 FT <i>ID-3 1/4</i>	Packer 2: 3310 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3294.42 FT
Collars: 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: 53	Surface Choke: 1"
Anchor Makeup	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): 32 FT <i>ID-3 1/4</i>	
Change Over: FT	
Perforations: (below): 17 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Arensman #2

SEC: 28 TWN: 16S RNG: 11W
 County: BARTON
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -

Field Name: Kratt-Prusa
Pool: Infield
Job Number: 51

DATE
August
31
2017

DST #2 **Formation: Arbuckle** **Test Interval: 3310 - 3363'** **Total Depth: 3363'**

Time On: 09:51 08/31 Time Off: 19:35 08/31
Time On Bottom: 11:51 08/31 Time Off Bottom: 14:51 08/31

Mud Properties

Mud Type: Chemical **Weight:** 9.4 **Viscosity:** 56 **Filtrate:** 9.2 **Chlorides:** 5,700 ppm



Company: L. D. Drilling, Inc
Lease: Arensman #2

SEC: 28 TWN: 16S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1922 KR