

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](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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**PRESSURE PUMPING**
**Job Log**

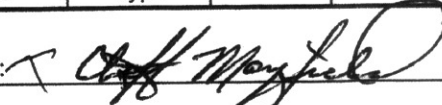
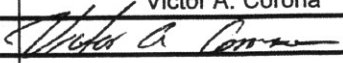
Customer:	LB Exploration	Cement Pump No.:	37223 19572 19HRS	Operator TRK No.:	78868	
Address:		Ticket #:	1718 19687 L	Bulk TRK No.:	70959 19860	70959 19860
City, State, Zip:		Job Type:	Z42 - Cement Surface Casing			
Service District:	1718-Liberal Ks	Well Type:	OIL			
Well Name and No.:	Siemsen #1	Well Location:	County:	Barton	State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
60/40 POZ	260	3% Calcium Chloride, .25pps Celloflake	70959 19860	Front	Back
			70959 19860	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
<b>Lead:</b>	14.8	1.21	5.18	314.6	TT Man Hours:	60
<b>Tail:</b>					# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
4:30am							Arrived at location
7:00am							Spot trucks/Rig up
7:30am							Safety meeting
8:39am	3	10				zero	Pump 10bbls of fresh water spacer
8:43am	5	56				100	Pump 56bbls of cement from 260sks at 14.8lbs
							Wash pump and lines
9:15am							Start displacement of 23bbls
9:20am	2.5	10				10	10bbls gone
9:24am	2.5	20				50	20bbls gone
9:25am	2.5	23				50	23bbls gone/Shut down
9:30am							Close valves and wait for 4 hours to get head off casing
							Got 20bbls of cement to Surface
							Rig down
							Job completed
							Thanked company man and rig crew

Size Hole	12 1/4	Depth	389		TYPE	n/a	
Size & Wt. Csg.	8 5/8 24#	Depth	389	New / Used	Packer	Depth	
Landing Psi	500+	Depth			Retainer	Depth	
Shoe joint	20	Type			Perfs	CIBP	

Customer Signature: 	Basic Representative:	Victor A. Corona
	Basic Signature:	
	Date of Service:	9/6/2019

Customer <b>LB EXPLORATION</b>	Lease No.	Date <b>7-13-2019</b>
Lease <b>SIEMSEN</b>	Well # <b>1</b>	
Field Order # <b>12139</b>	Station <b>PRATT, KS.</b>	Casing <b>5 1/2"</b>
Type Job <b>5 1/2" C.S. w/ PACKER SHOE</b>	Depth <b>3404'</b>	County <b>BARTON</b>
	Formation <b>ARBuckle</b>	State <b>Ks</b>
		Legal Description <b>17-175-11W</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 1/2"</b>	Tubing Size <b>4 1/2"</b>	Shots/Ft	<b>CMCT-</b>	Acid <b>125SKS AA2</b>	RATE	PRESS	ISIP	
Depth <b>3404'</b>	Depth	From	To	Pre Pad <b>@ 1490 FT</b>	Max		5 Min.	
Volume <b>23 BBL</b>	Volume	From	To	Pad	Min		10 Min.	
Max Press <b>200</b>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <b>P.L.</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>3404'</b>	Packer Depth	From	To	Flush <b>23 BBL</b>	Gas Volume		Total Load	

Customer Representative <b>RICK POPP</b>	Station Manager <b>J.W.</b>	Treater <b>K. LESLIE</b>
Service Units <b>910817 84980 20900 81490 18300</b>		
Driver Names <b>LESLEY MARQUEZ DIAZ</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:30 AM					ON LOCATION - SAFETY MEETING
1:45 PM					RUN 5 1/2" x 15.5" CSG.
					PACKER SHOE
					TURBOLIFER - 1, 2, 3, 4, 5
					BASKET - PIN END OF #2
					CSG. ON BOTTOM
3:10 PM					SET PACKER SHOE ←
3:20 PM					BREAK CIRC. W/RIG ←
3:50 PM	200		5	6	H2O AHEAD
3:59 PM	200		12	6	MUD FLUSH
4:00 PM	200		29	6	H2O SPACER
4:01 PM	150		33	6	MIX 125SKS AA2 @ 15 PPG
4:09 PM					SHUT DOWN / CLEAR PUMP & LINES
4:10 PM					DROP C.I.D. PLUG
4:15 PM	0		0	6	START DISPLACEMENT
4:26 PM	200		65	5	LIFT PRESSURE
4:27 PM	500		70	4	SLOW RATE
4:30 PM	1500		82	3	PLUG DOWN! - HEID
			7, 5		PLUG R.H. & A.C.H.
					JOB COMPLETE
					THANKS -
					KEVIN LESLIE



**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Flex Drilling  
 Elevation: 1928 GL  
 Field Name: Kraft-Prusa  
 Pool: Infield  
 Job Number: 387  
 API #: 15-009-26274-00-00

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 September  
**10**  
 2019

**DST #1**      **Formation: LKC "H-K"**      **Test Interval: 3216 - 3320'**      **Total Depth: 3320'**  
 Time On: 11:58 09/10      Time Off: 17:27 09/10  
 Time On Bottom: 13:27 09/10      Time Off Bottom: 15:27 09/10

Electronic Volume  
 Estimate:  
 33'

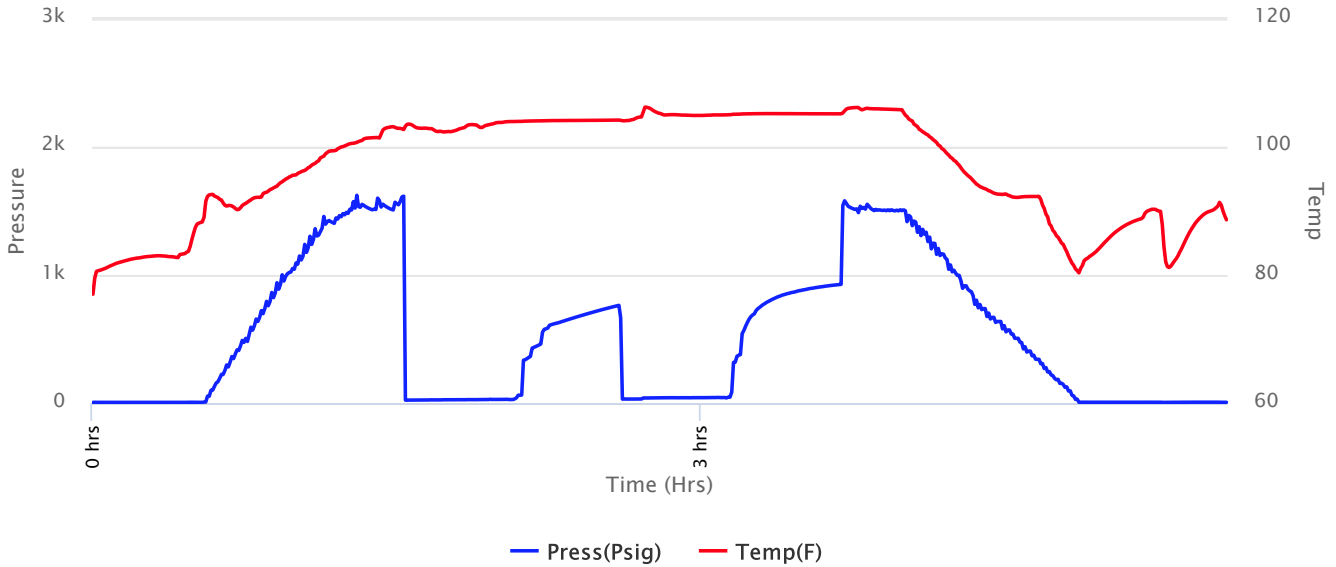
1st Open  
 Minutes: 30  
 Current Reading:  
 1.4" at 30 min  
 Max Reading: 1.4"

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

2nd Open  
 Minutes: 30  
 Current Reading:  
 2.5" at 30 min  
 Max Reading: 2.5"

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

Inside Recorder





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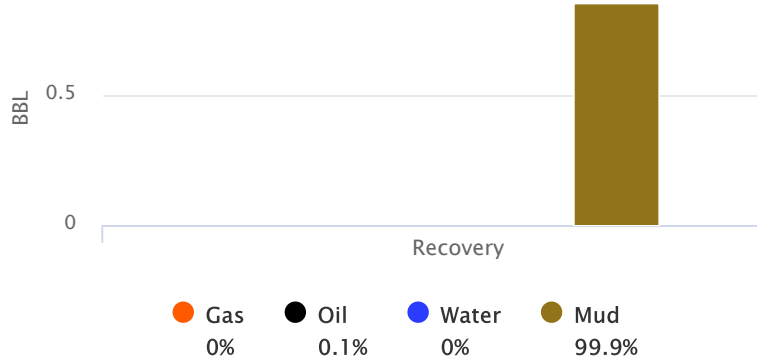
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Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
60	0.8538	M (trace O)	0	.1	0	99.9

Total Recovered: 60 ft  
 Total Barrels Recovered: 0.8538

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1574	PSI
Initial Flow	24 to 29	PSI
<b>Initial Closed in Pressure</b>	<b>764</b>	<b>PSI</b>
Final Flow Pressure	32 to 41	PSI
<b>Final Closed in Pressure</b>	<b>923</b>	<b>PSI</b>
Final Hydrostatic Pressure	1523	PSI
Temperature	107	°F
Pressure Change Initial Close / Final Close	0.0	%

GIP cubic foot volume: 0



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Elevation: 1928 GL  
Field Name: Kraft-Prusa  
Pool: Infield  
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3320'**      **Total Depth: 3320'**  
Time On: 11:58 09/10      Time Off: 17:27 09/10  
Time On Bottom: 13:27 09/10      Time Off Bottom: 15:27 09/10

**BUCKET MEASUREMENT:**

1st Open: 1" Blow built to 1 1/4" over 30 min.

1st Close: No Return

2nd Open: Weak surface blow - Flushed tool at 6 min. - 2 1/2" blow after flush. Did not build or die.

2nd Close: No Return

**REMARKS:**

Chased tool approx 5' to bottom.

Tool Sample: 0% Gas .1% Oil 0% Water 99.9% Mud





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 Time On: 11:58 09/10      Time Off: 17:27 09/10  
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**Down Hole Makeup**

<b>Heads Up:</b> 18.41 FT	<b>Packer 1:</b> 3210.93 FT
<b>Drill Pipe:</b> 3209.18 FT <i>ID-3 1/3</i>	<b>Packer 2:</b> 3215.93 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3202.93 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3318 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 104.07	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 2 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 96.57 FT <i>ID-3 1/3</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 3 FT <i>4 1/2-FH</i>	



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Elevation: 1928 GL  
Field Name: Kraft-Prusa  
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3320'**      **Total Depth: 3320'**  
Time On: 11:58 09/10      Time Off: 17:27 09/10  
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**Mud Properties**

**Mud Type:** Chem      **Weight:** 8.9      **Viscosity:** 48      **Filtrate:** 8.8      **Chlorides:** 5000 ppm



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 3320'**      **Total Depth: 3320'**  
 Time On: 11:58 09/10      Time Off: 17:27 09/10  
 Time On Bottom: 13:27 09/10      Time Off Bottom: 15:27 09/10

**Gas Volume Report**

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



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 Elevation: 1928 GL  
 Field Name: Kraft-Prusa  
 Pool: Infield  
 Job Number: 387  
 API #: 15-009-26274-00-00

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 pressures

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**11**  
 2019

**DST #2    Formation: Arbuckle    Test Interval: 3345 - 3387'    Total Depth: 3387'**

Time On: 04:48 09/11    Time Off: 10:08 09/11  
 Time On Bottom: 06:30 09/11    Time Off Bottom: 08:35 09/11

Electronic Volume  
 Estimate:  
 23'

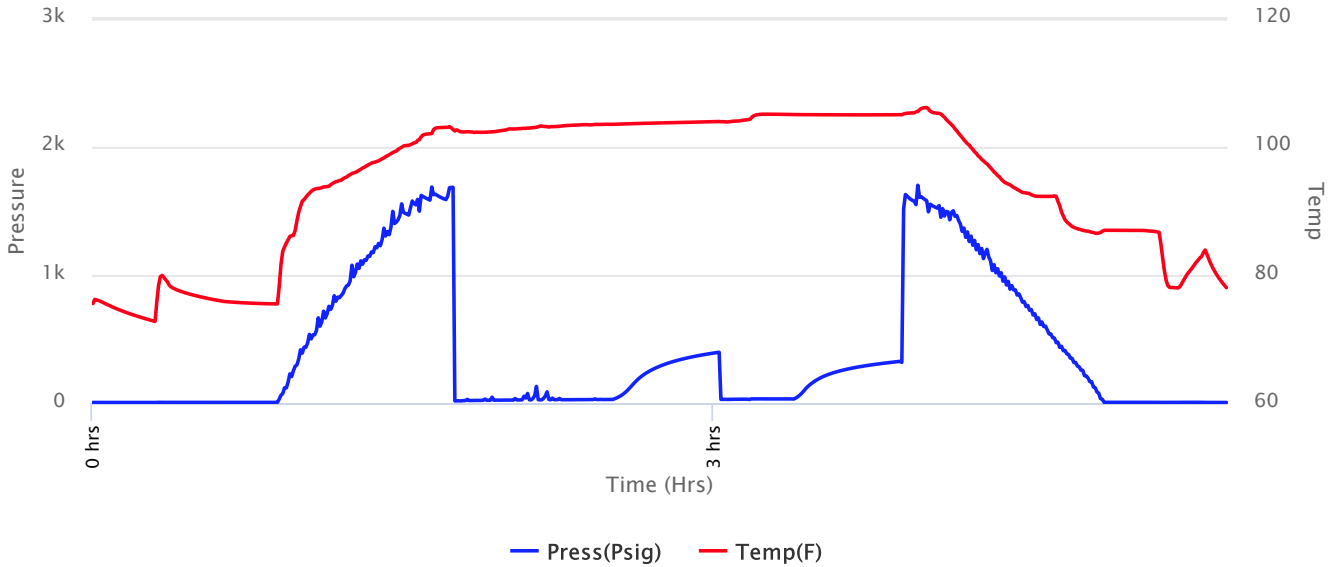
1st Open  
 Minutes: 45  
 Current Reading:  
 2.5" at 45 min  
 Max Reading: 2.5"

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

2nd Open  
 Minutes: 20  
 Current Reading:  
 .1" at 20 min  
 Max Reading: .1"

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

Inside Recorder





**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Flex Drilling  
 Elevation: 1928 GL  
 Field Name: Kraft-Prusa  
 Pool: Infield  
 Job Number: 387  
 API #: 15-009-26274-00-00

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
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**11**  
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**DST #2**    **Formation: Arbuckle**    **Test Interval: 3345 - 3387'**    **Total Depth: 3387'**  
 Time On: 04:48 09/11    Time Off: 10:08 09/11  
 Time On Bottom: 06:30 09/11    Time Off Bottom: 08:35 09/11

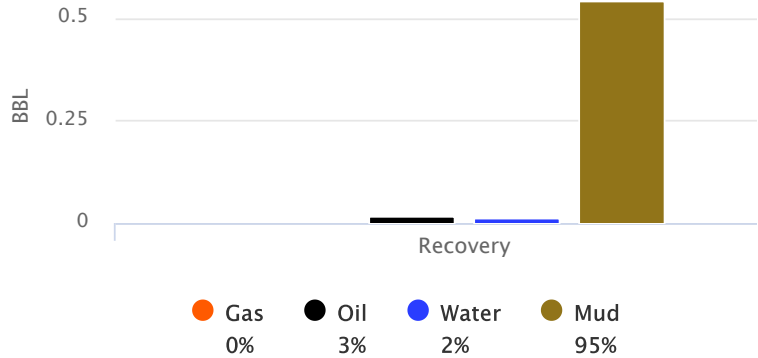
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
40	0.5692	SLWCSLOCM	0	3	2	95

Total Recovered: 40 ft  
 Total Barrels Recovered: 0.5692

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1600	PSI
Initial Flow	18 to 29	PSI
<b>Initial Closed in Pressure</b>	<b>397</b>	<b>PSI</b>
Final Flow Pressure	29 to 33	PSI
<b>Final Closed in Pressure</b>	<b>325</b>	<b>PSI</b>
Final Hydrostatic Pressure	1583	PSI
Temperature	106	°F
Pressure Change Initial Close / Final Close	18.3	%

**Recovery at a glance**



GIP cubic foot volume: 0



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2019

**DST #2      Formation: Arbuckle      Test Interval: 3345 -      Total Depth: 3387'**  
**3387'**  
Time On: 04:48 09/11      Time Off: 10:08 09/11  
Time On Bottom: 06:30 09/11      Time Off Bottom: 08:35 09/11

**BUCKET MEASUREMENT:**

1st Open: 1/2" Blow built to 2 1/2" over 45 min.

1st Close: No Return

2nd Open: No Blow - Flushed took at 8 min. Into Final Flow. - 1/8" blow died back to weak surface blow over 20 min.

2nd Close: No Return

**REMARKS:**

Tool Sample: 0% Gas 5% Oil 3% Water 92% Mud





**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Flex Drilling  
Elevation: 1928 GL  
Field Name: Kraft-Prusa  
Pool: Infield  
Job Number: 387  
API #: 15-009-26274-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
September  
**11**  
2019

**DST #2      Formation: Arbuckle      Test Interval: 3345 -      Total Depth: 3387'**  
**3387'**  
Time On: 04:48 09/11      Time Off: 10:08 09/11  
Time On Bottom: 06:30 09/11      Time Off Bottom: 08:35 09/11

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.2      **Viscosity:** 48      **Filtrate:** 8.4      **Chlorides:** 5500 ppm







# Company: LB Exploration, Inc. Lease: Siemsen #1

SEC: 11 TWN: 17S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Flex Drilling  
Elevation: 1928 GL  
Field Name: Kraft-Prusa  
Pool: Infield  
Job Number: 387  
API #: 15-009-26274-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
September  
**11**  
2019

**DST #3    Formation: Arbuckle    Test Interval: 3383 - 3392'    Total Depth: 3392'**

Time On: 14:13 09/11    Time Off: 20:29 09/11  
Time On Bottom: 16:30 09/11    Time Off Bottom: 18:30 09/11

Electronic Volume  
Estimate:  
11'

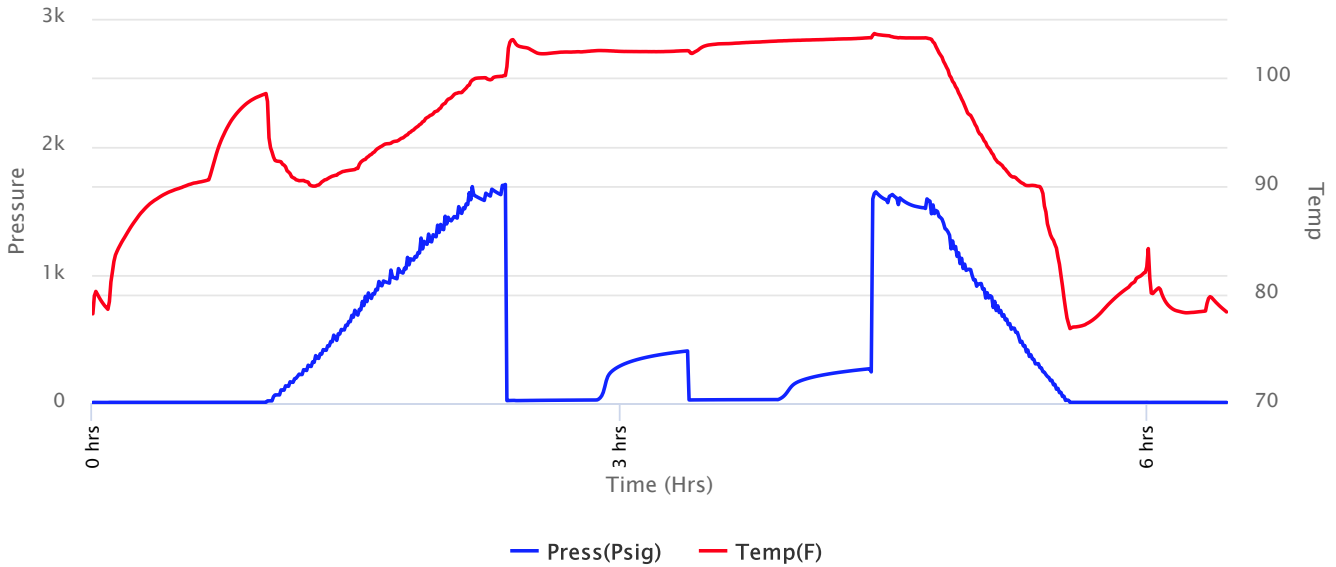
1st Open  
Minutes: 30  
Current Reading:  
.8" at 30 min  
Max Reading: 1.1"

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

2nd Open  
Minutes: 30  
Current Reading:  
.1" at 30 min  
Max Reading: .1"

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

Inside Recorder





**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Flex Drilling  
 Elevation: 1928 GL  
 Field Name: Kraft-Prusa  
 Pool: Infield  
 Job Number: 387  
 API #: 15-009-26274-00-00

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 September  
**11**  
 2019

**DST #3 Formation: Arbuckle Test Interval: 3383 - 3392' Total Depth: 3392'**  
 Time On: 14:13 09/11 Time Off: 20:29 09/11  
 Time On Bottom: 16:30 09/11 Time Off Bottom: 18:30 09/11

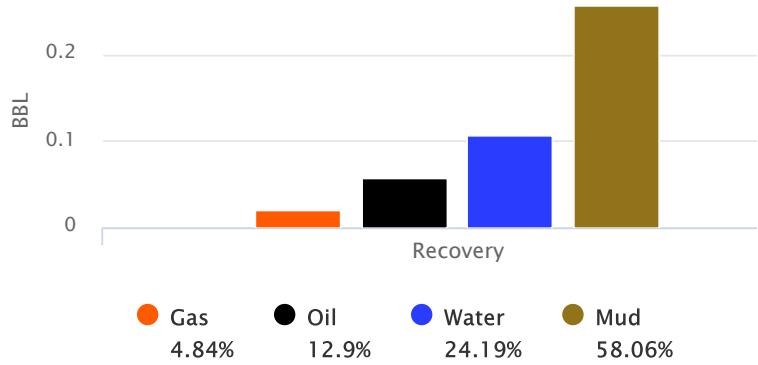
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
1	0.01423	O	0	100	0	0
30	0.4269	SLGCSLOCWCM	5	10	25	60

Total Recovered: 31 ft  
 Total Barrels Recovered: 0.44113

Reversed Out  
 NO

Initial Hydrostatic Pressure	1634	PSI
Initial Flow	20 to 25	PSI
<b>Initial Closed in Pressure</b>	<b>404</b>	<b>PSI</b>
Final Flow Pressure	25 to 28	PSI
<b>Final Closed in Pressure</b>	<b>265</b>	<b>PSI</b>
Final Hydrostatic Pressure	1615	PSI
Temperature	104	°F
Pressure Change Initial Close / Final Close	34.4	%

**Recovery at a glance**



GIP cubic foot volume: 0.11984



**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Flex Drilling  
Elevation: 1928 GL  
Field Name: Kraft-Prusa  
Pool: Infield  
Job Number: 387  
API #: 15-009-26274-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
September  
**11**  
2019

**DST #3      Formation: Arbuckle      Test Interval: 3383 -      Total Depth: 3392'**  
**3392'**  
Time On: 14:13 09/11      Time Off: 20:29 09/11  
Time On Bottom: 16:30 09/11      Time Off Bottom: 18:30 09/11

**BUCKET MEASUREMENT:**

1st Open: 1/2" Blow built to 1" then died back to 3/4" over 30 min.  
1st Close: No Return  
2nd Open: Weak Surface blow started at 3 min. Built to 1/8" over 30 min.  
2nd Close: No Return

**REMARKS:**

Tool Sample: 5% Gas 10% Oil 30% Water 55% Mud  
Ph: 7  
Chlorides: 143,000 ppm



**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Flex Drilling  
 Elevation: 1928 GL  
 Field Name: Kraft-Prusa  
 Pool: Infield  
 Job Number: 387  
 API #: 15-009-26274-00-00

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 September  
**11**  
 2019

**DST #3      Formation: Arbuckle      Test Interval: 3383 - 3392'      Total Depth: 3392'**  
 Time On: 14:13 09/11      Time Off: 20:29 09/11  
 Time On Bottom: 16:30 09/11      Time Off Bottom: 18:30 09/11

**Down Hole Makeup**

<b>Heads Up:</b> 15.34 FT	<b>Packer 1:</b> 3378 FT
<b>Drill Pipe:</b> 3373.18 FT <i>ID-3 1/3</i>	<b>Packer 2:</b> 3383 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3370 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3385 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 9	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 0 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/3</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 8 FT <i>4 1/2-FH</i>	



**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Flex Drilling  
Elevation: 1928 GL  
Field Name: Kraft-Prusa  
Pool: Infield  
Job Number: 387  
API #: 15-009-26274-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
September  
**11**  
2019

**DST #3      Formation: Arbuckle      Test Interval: 3383 -      Total Depth: 3392'**  
**3392'**

Time On: 14:13 09/11      Time Off: 20:29 09/11  
Time On Bottom: 16:30 09/11      Time Off Bottom: 18:30 09/11

**Mud Properties**

**Mud Type: Chem      Weight: 9.2      Viscosity: 48      Filtrate: 8.4      Chlorides: 5500 ppm**





# Company: LB Exploration, Inc. Lease: Siemsen #1

SEC: 11 TWN: 17S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Flex Drilling  
Elevation: 1928 GL  
Field Name: Kraft-Prusa  
Pool: Infield  
Job Number: 387  
API #: 15-009-26274-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
September  
**12**  
2019

**DST #4**    **Formation: Arbuckle**    **Test Interval: 3387 - 3396'**    **Total Depth: 3396'**

Time On: 01:50 09/12    Time Off: 06:53 09/12  
Time On Bottom: 03:17 09/12    Time Off Bottom: 05:17 09/12

Electronic Volume  
Estimate:  
14'

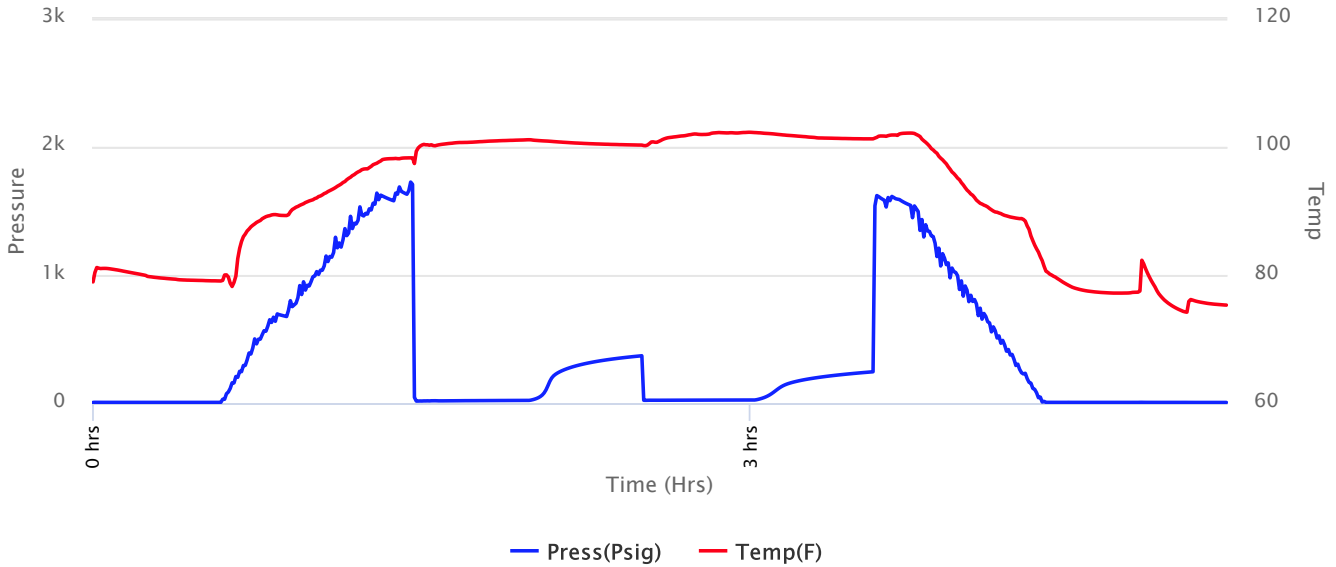
1st Open  
Minutes: 30  
Current Reading:  
1.5" at 30 min  
Max Reading: 1.5"

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

2nd Open  
Minutes: 30  
Current Reading:  
.1" at 30 min  
Max Reading: .1"

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

Inside Recorder







**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Flex Drilling  
 Elevation: 1928 GL  
 Field Name: Kraft-Prusa  
 Pool: Infield  
 Job Number: 387  
 API #: 15-009-26274-00-00

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 September  
**12**  
 2019

**DST #4**    **Formation: Arbuckle**    **Test Interval: 3387 - 3396'**    **Total Depth: 3396'**  
 Time On: 01:50 09/12    Time Off: 06:53 09/12  
 Time On Bottom: 03:17 09/12    Time Off Bottom: 05:17 09/12

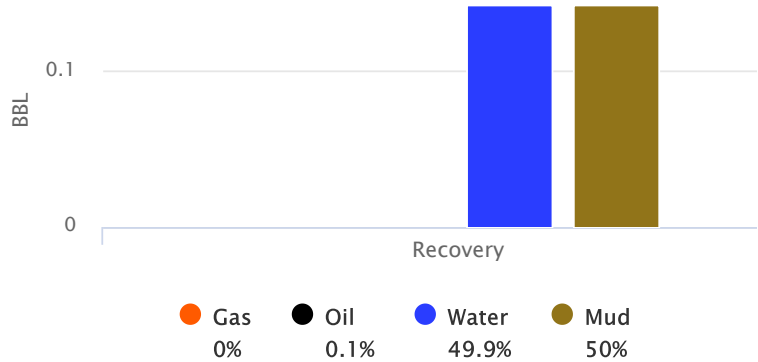
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
20	0.2846	HWCM (trace O)	0	.1	49.9	50

Total Recovered: 20 ft  
 Total Barrels Recovered: 0.2846

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1658	PSI
Initial Flow	16 to 24	PSI
<b>Initial Closed in Pressure</b>	<b>369</b>	<b>PSI</b>
Final Flow Pressure	23 to 25	PSI
<b>Final Closed in Pressure</b>	<b>241</b>	<b>PSI</b>
Final Hydrostatic Pressure	1601	PSI
Temperature	103	°F
Pressure Change Initial Close / Final Close	34.6	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Flex Drilling  
Elevation: 1928 GL  
Field Name: Kraft-Prusa  
Pool: Infield  
Job Number: 387  
API #: 15-009-26274-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
September  
**12**  
2019

**DST #4      Formation: Arbuckle      Test Interval: 3387 -      Total Depth: 3396'**  
**3396'**  
Time On: 01:50 09/12      Time Off: 06:53 09/12  
Time On Bottom: 03:17 09/12      Time Off Bottom: 05:17 09/12

**BUCKET MEASUREMENT:**

1st Open: 1/4" Blow built to 1 1/2" over 30 min.  
1st Close: No Return  
2nd Open: Weak surface blow started at 6 min. Built to 1/8" over 30 min.  
2nd Close: No Return

**REMARKS:**

Tool Sample: 0% Gas .1% Oil 10% Water 89.9% Mud  
Ph: 7  
Chlorides: 110,000 ppm





**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Flex Drilling  
Elevation: 1928 GL  
Field Name: Kraft-Prusa  
Pool: Infield  
Job Number: 387  
API #: 15-009-26274-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
September  
**12**  
2019

**DST #4      Formation: Arbuckle      Test Interval: 3387 -      Total Depth: 3396'**  
**3396'**

Time On: 01:50 09/12      Time Off: 06:53 09/12  
Time On Bottom: 03:17 09/12      Time Off Bottom: 05:17 09/12

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.2      **Viscosity:** 48      **Filtrate:** 8.4      **Chlorides:** 5500 ppm





**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Flex Drilling  
 Elevation: 1928 GL  
 Field Name: Kraft-Prusa  
 Pool: Infield  
 Job Number: 387  
 API #: 15-009-26274-00-00

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 September  
**12**  
 2019

**DST #5    Formation: Arbuckle    Test Interval: 3395 - 3404'    Total Depth: 3404'**

Time On: 12:57 09/12    Time Off: 19:09 09/12  
 Time On Bottom: 14:27 09/12    Time Off Bottom: 17:12 09/12

Electronic Volume  
 Estimate:  
 145'

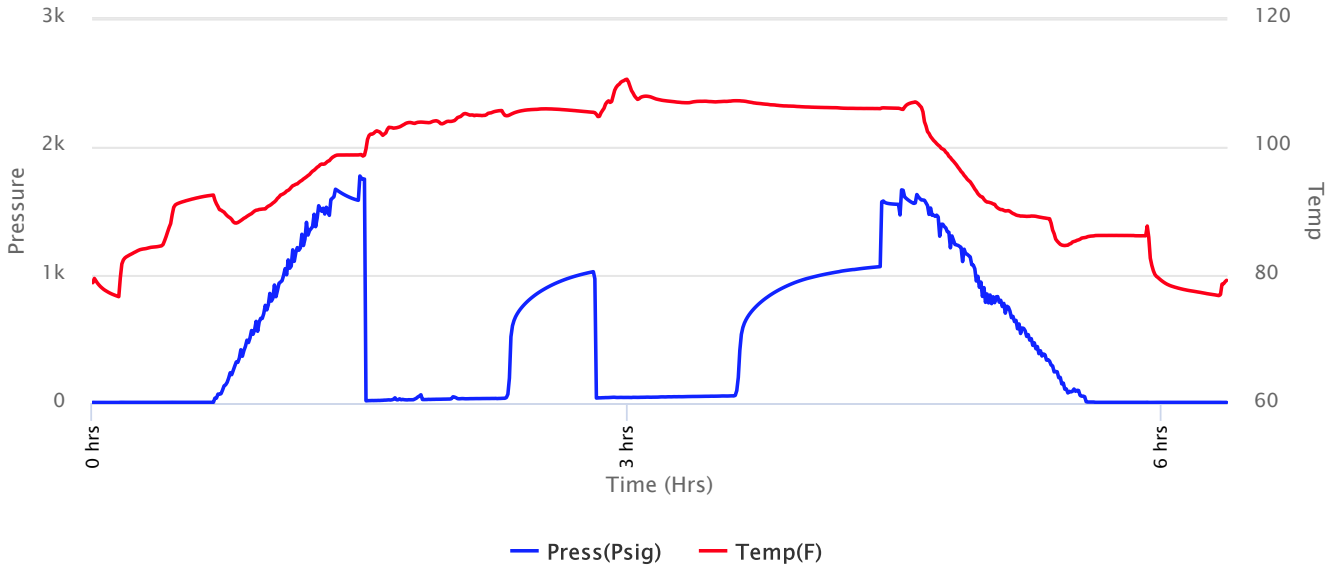
1st Open  
 Minutes: 45  
 Current Reading:  
 8.3" at 45 min  
 Max Reading: 8.3"

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

2nd Open  
 Minutes: 45  
 Current Reading:  
 8" at 45 min  
 Max Reading: 8"

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

Inside Recorder





**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Flex Drilling  
 Elevation: 1928 GL  
 Field Name: Kraft-Prusa  
 Pool: Infield  
 Job Number: 387  
 API #: 15-009-26274-00-00

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 September  
**12**  
 2019

**DST #5 Formation: Arbuckle Test Interval: 3395 - Total Depth: 3404'**  
**3404'**

Time On: 12:57 09/12 Time Off: 19:09 09/12  
 Time On Bottom: 14:27 09/12 Time Off Bottom: 17:12 09/12

Recovered

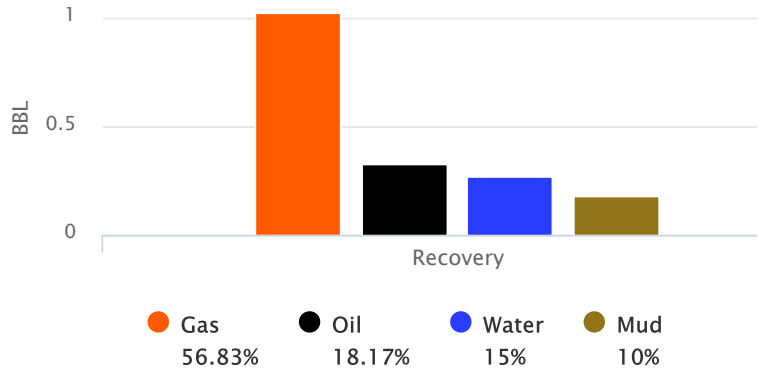
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
58	0.82534	G	100	0	0	0
5	0.07115	GCO	20	80	0	0
63	0.89649	GCMCHOCW	20	30	30	20

Total Recovered: 126 ft  
 Total Barrels Recovered: 1.79298

Reversed Out  
 NO

Initial Hydrostatic Pressure	1655	PSI
Initial Flow	19 to 38	PSI
<b>Initial Closed in Pressure</b>	<b>1027</b>	<b>PSI</b>
Final Flow Pressure	41 to 57	PSI
<b>Final Closed in Pressure</b>	<b>1058</b>	<b>PSI</b>
Final Hydrostatic Pressure	1572	PSI
Temperature	111	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 5.72043



**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Flex Drilling  
Elevation: 1928 GL  
Field Name: Kraft-Prusa  
Pool: Infield  
Job Number: 387  
API #: 15-009-26274-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
September  
**12**  
2019

**DST #5      Formation: Arbuckle      Test Interval: 3395 -      Total Depth: 3404'**  
**3404'**  
Time On: 12:57 09/12      Time Off: 19:09 09/12  
Time On Bottom: 14:27 09/12      Time Off Bottom: 17:12 09/12

**BUCKET MEASUREMENT:**

1st Open: 1" blow built to 8 1/4" over 45 min.  
1st Close: No Return  
2nd Open: Surface Blow built to 8" over 45 min.  
2nd Close: No Return

**REMARKS:**

Tool Sample: 0% Gas 40% Oil 30% Water 30% Mud  
Gravity: 41.6 @ 60 °F  
Ph: 7  
Chlorides: 130000 ppm







**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Flex Drilling  
Elevation: 1928 GL  
Field Name: Kraft-Prusa  
Pool: Infield  
Job Number: 387  
API #: 15-009-26274-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
September  
**12**  
2019

**DST #5      Formation: Arbuckle      Test Interval: 3395 -      Total Depth: 3404'**  
**3404'**

Time On: 12:57 09/12      Time Off: 19:09 09/12  
Time On Bottom: 14:27 09/12      Time Off Bottom: 17:12 09/12

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.2      **Viscosity:** 45      **Filtrate:** 8.8      **Chlorides:** 6500 ppm



**Company: LB Exploration, Inc.**  
**Lease: Siemsen #1**

SEC: 11 TWN: 17S RNG: 11W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Flex Drilling  
 Elevation: 1928 GL  
 Field Name: Kraft-Prusa  
 Pool: Infield  
 Job Number: 387  
 API #: 15-009-26274-00-00

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 September  
**12**  
 2019

**DST #5    Formation: Arbuckle    Test Interval: 3395 -    Total Depth: 3404'**  
**3404'**  
 Time On: 12:57 09/12    Time Off: 19:09 09/12  
 Time On Bottom: 14:27 09/12    Time Off Bottom: 17:12 09/12

**Gas Volume Report**

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



# Musgrove

Petroleum Geology  
212 Main Street, Claflin KS

## GEOLOGIST'S REPORT

### DRILLING TIME AND SAMPLE LOG

COMPANY <u>LB Exploration</u>	ELEVATIONS
LEASE <u>Siemens #1</u>	KB <u>1934'</u>
FIELD <u>Kraft- Prusa</u>	DF _____
LOCATION <u>SW-NW-NE-SE (2145' FSL &amp; 1105' FEL)</u>	GL <u>1928'</u>
SEC <u>11</u> TWSP <u>17S</u> RGE <u>11W</u>	Measurements Are All From <u>KB</u>
COUNTY <u>Barton</u> STATE <u>Kansas</u>	
CONTRACTOR <u>Flex Drilling, Co.</u> (Rig #1)	CASING
SPUD <u>09/05/2019</u> COMP <u>9/12/2019</u>	SURFACE <u>8 5/8"@392'</u>
RTD <u>3404'</u> LTD <u>No Log</u>	PRODUCTION <u>5 1/2"@3400'</u>
MUD UP <u>2700'</u> TYPE MUD <u>Chemical</u>	ELECTRICAL SURVEYS
	NONE

SAMPLES SAVED FROM 2850' TO RTD

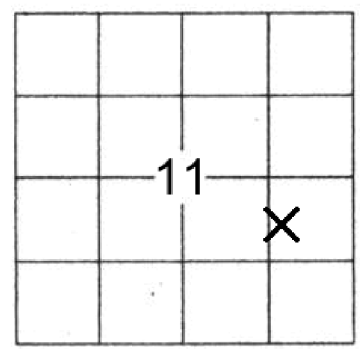
DRILLING TIME KEPT FROM 2850' TO RTD

SAMPLES EXAMINED FROM 2800' TO RTD

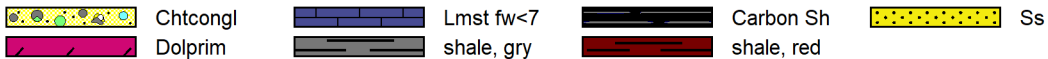
GEOLOGICAL SUPERVISION FROM 2850' TO RTD

GEOLOGIST ON WELL Jim Musgrove

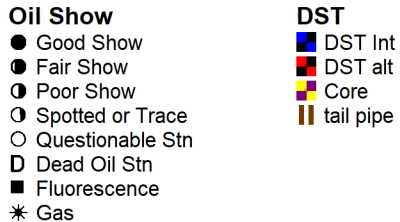
FORMATION TOPS	<del>LOG</del>	SAMPLES	
HEEBNER		2969	-1035
TORONTO		2964	-1038
DOUGLAS		2999	-1065
BROWN LIME		3071	-1137
LANSING		3087	-1153
BASE KC		3352	-1418
CONGLOMERATE		3361	-1427
ARBUCKLE		3376	-1442
RTD		3404	-1470



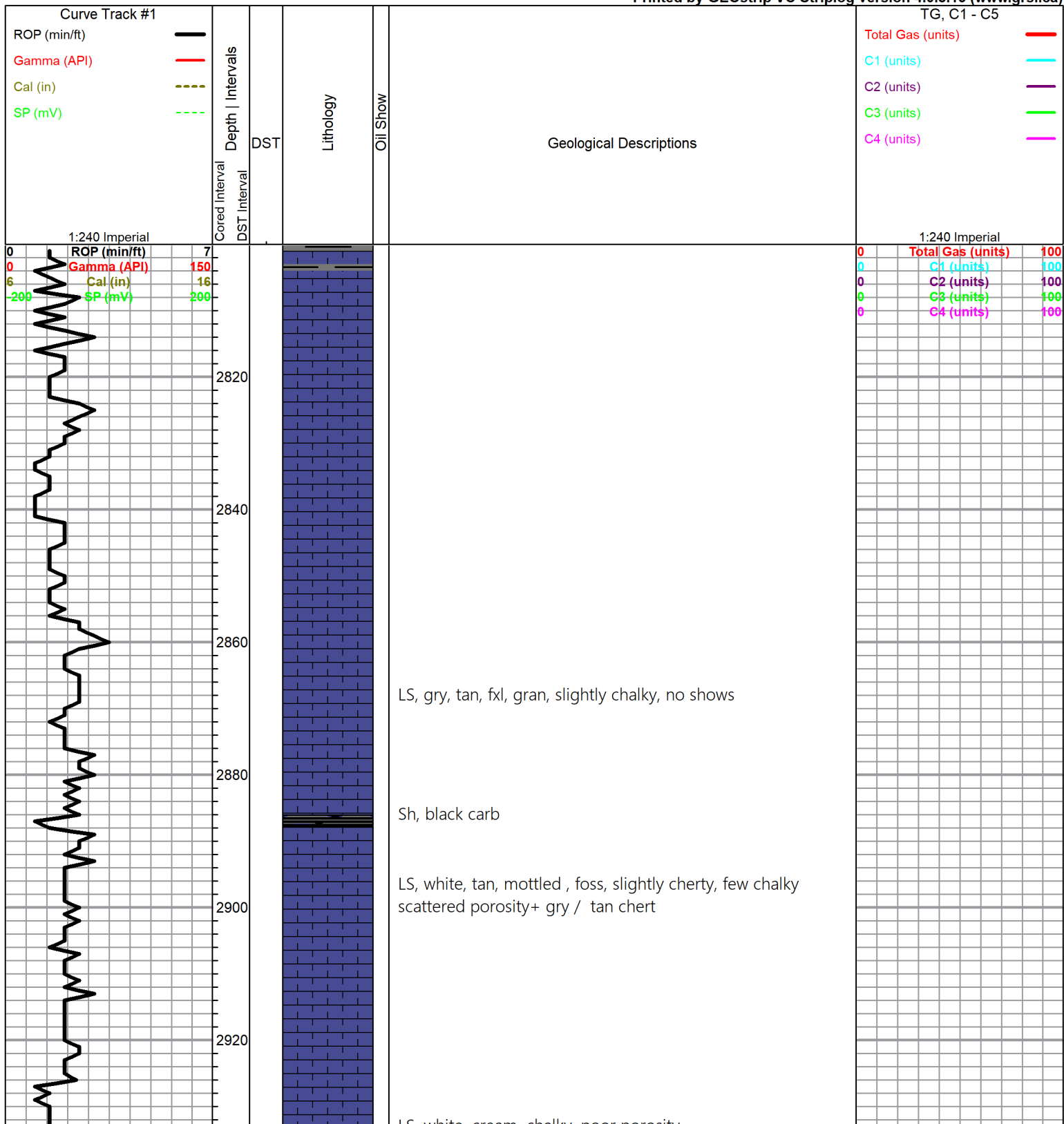
### ROCK TYPES



### OTHER SYMBOLS



Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

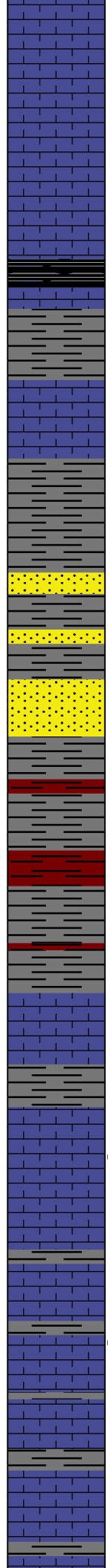
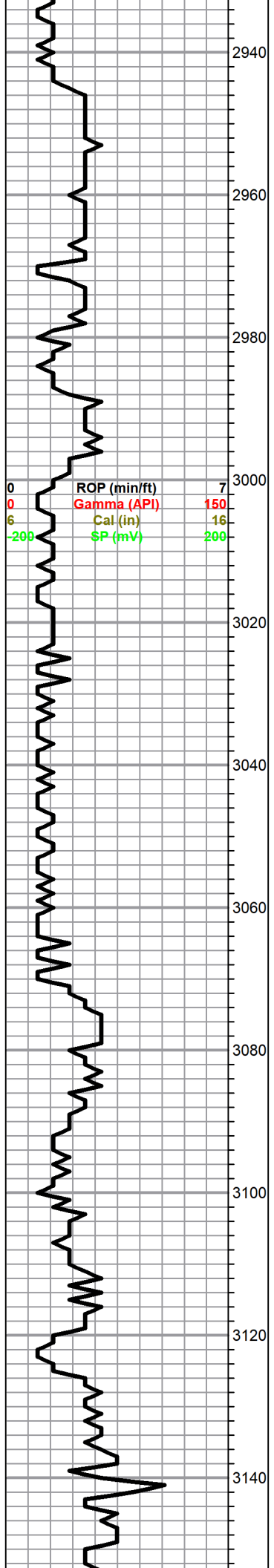


LS, gry, tan, fxl, gran, slightly chalky, no shows

Sh, black carb

LS, white, tan, mottled, foss, slightly cherty, few chalky scattered porosity+ gry / tan chert

LS, white, cream, shaly, poor porosity



LS, white, cream, chalky, poor porosity

LS, white, cream, chalky, poor porosity

Tr. gry, smokey /gry-blue/ opaque, chert

**HEEBNER 2969.0 (-1035.0)**

Sh, black

**TORONTO 2987.0 (-1053.0)**

LS, white, gry, fxl, few foss, + white boney chert

**DOUGLAS 2999.0 (-1065.0)**

Sh, gry, gryish green silty

Sh, a/a/ tr. sd. gry, gryish green vfg. mica, friable in pt, no shows

Ditto Sh. a/a

**BROWN LIME 3071.0 (-1137.0)**

LS, tan, brn fxl, dense, no shows

Sh, gry, silty soft

**LANSING 3087.0 (-1153.0)**

LS, white, foss, chalky, poor porosity, tr. stain , tr. fo, no odor

Sh, gry, greenish

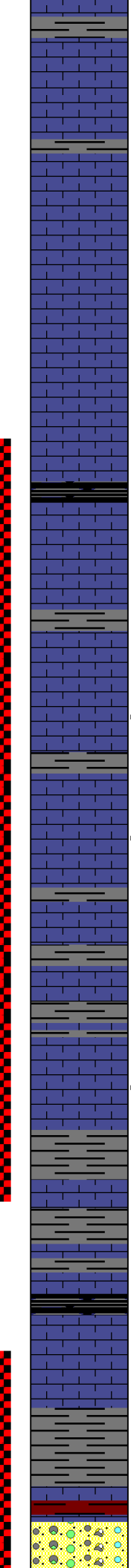
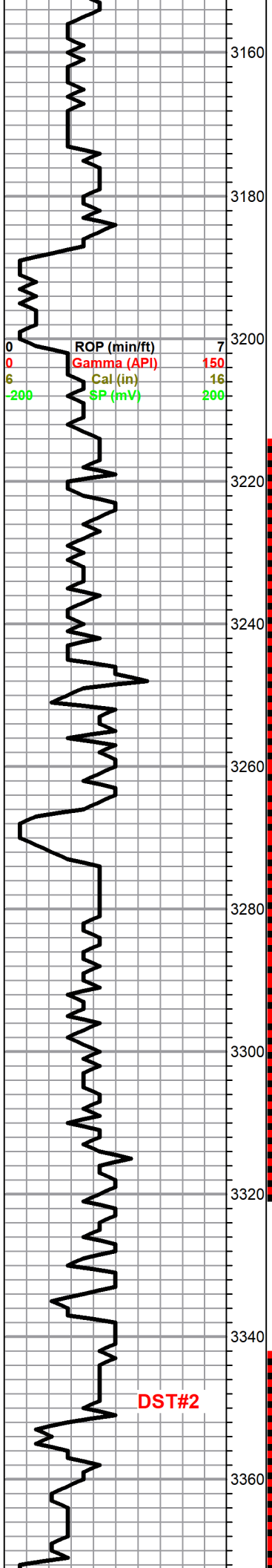
LS, gry, white, sub oom, chalky, poor vis. porosity, tr. brn stain tr. fo, no odor

LS, white/ gry, chalky, few foss, no shows

Sh, gry. greenish

LS, gry, white/ tan, foss, in part scattered porosity, no shows

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



Sh, gry, silty

LS, white/ gry, gxl, ool, chalky, poor vis. porosity, no shows

3160  
3180  
3200  
3220  
3240  
3260  
3280  
3300  
3320  
3340  
3360

LS, tan, buff, oom, good oom porosity (barren)

LS, tan, buff, oom no shows

LS, tan, white, gry, fxl, slightly cherty

Tr. black carb Sh

LS, gry, tan, few fxl, chalky, few cherty, dense

Sh, gry, silty

● LS, white, ool, scattered porosity, brn stn, tr. fo, ??? odor

● LS, gry, white, oom, good oom porosity, tr. stain /sat., sfo, good odor

3280

Sh, gry, blk sh

● LS, white, gry, ool, scattered porosity, tr. stain , sfo, odor , chalky

Sh, gry, blk

Tr. black carb

LS, white, tan, chalky, (dense)

Sh, gry, maroon , green sh.

**Congl. 3361.0 (-1427.0)**

Slug red sh.+ v.c. boney chert

**DST#1 3216-3320**

30-30-30-30

1st Open:

Blow weak

Recovery

60' Mud w/ tr. oil

Pressures:

ISIP 764 psi

FSIP 923 psi

IFP 24-29 psi

HSH 1574-1523 psi

C3 (units) 100

C4 (units) 100

**DST#2 3345-3387**

45-30-20-30

REC. 1' CLEAN OIL

40' SL. OCM w/ tr. W

(3%O, 2%W, 95%M)

Pressures:

ISIP 397 psi

FSIP 325 psi

IFP 18-29 psi

FFP 29-33 psi

HSH 600-1583 psi

**DST#3 3303-3392**

30-30-30-30

1st Blow:

weak

Recovery: 1' clean oil

30' SLO&GCM

(5%G, 10%O, 25%W,

60%M)

Pressure:

ISIP 404 psi

FSIP 265 psi

IFP 20-25 psi

FFP 25-28 psi

HSH 1634-1615 psi

**DST #4 3387-3396**

30-30-30-30

Blow; Weak

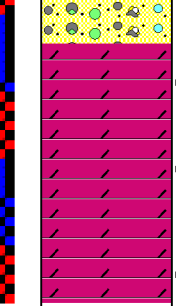
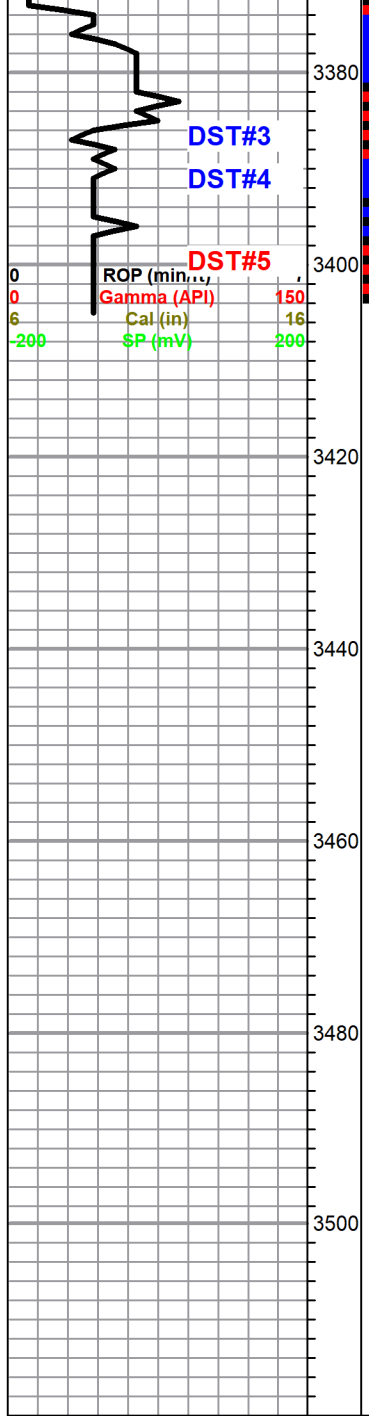
Rec. 20' Muddy water

tr. oil

Pressures;

ISIP 369 psi

FSIP 241 psi



**ARBUCKLE 3376.0 (-1442.0)**

- Dol, white/ cream, f- med xln , scattered inxln porosity, brn stain sfo, odor
- Dol. white, gry, cream, med xln, fair inxln porosity, brn stain , sfo, good odor
- Dol, a/a, fair porosity, spty brn stain , tr. fo , faint odor

**RTD 3404.0 (-1470.0)**

IFP 16-24 psi  
 FFp; 23-25 psi  
 HSH 1658-1601 psi

**DST #5 3395-3404**  
**45-30-45-45**

**1st Open: Weak**

**2nd Open: Built to 8"**

**Recovery:**  
 10' Clean Oil  
 63' HO&GCMW  
 (20%G, 30%O, 30%W,  
 20% M)

**Pressures:**  
 ISIP 1027 psi  
 FSIP 1058 psi  
 IFP 19-38 psi  
 FFP 41-57 psi  
 HSH 1655-1572 psi