

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	Edison Operating Company LLC
Well Name	REISSIG 1-23
Doc ID	1485373

All Electric Logs Run

DUCP
DUAL INDUCTION
MICRO
SONIC



Company: Edison Operating Company, LLC

Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 2
Elevation: 1919 Sur
Field Name: Leiss
Pool: Infield
Job Number: 427
API #: 15-185-24063-00-00

Operation:
Uploading recovery & pressures

DATE
December
08
2019

DST #1 **Formation: Viola** **Test Interval: 4068 - 4145'** **Total Depth: 4145'**
Time On: 15:10 12/08 Time Off: 22:27 12/08
Time On Bottom: 17:23 12/08 Time Off Bottom: 20:18 12/08

Electronic Volume Estimate:
3'

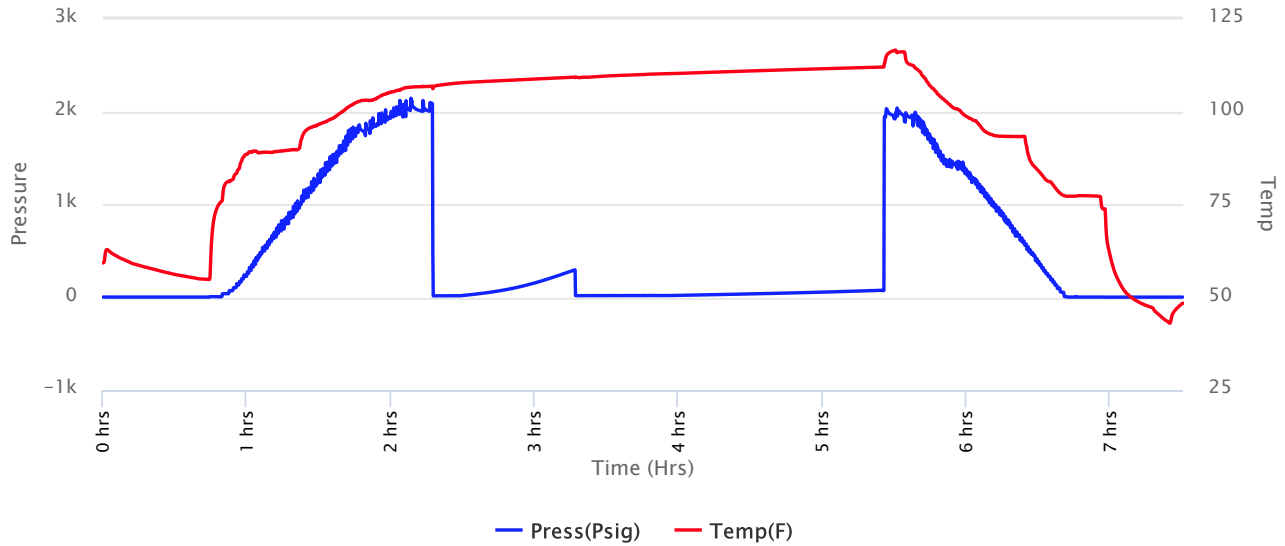
1st Open
Minutes: 10
Current Reading:
.25" at 10 min
Max Reading: .25"

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

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

2nd Close
Minutes: 90
Current Reading:
0" at 90 min
Max Reading: 0"

Inside Recorder





Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 Sur
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-00

Operation:
 Uploading recovery & pressures

DATE
 December
08
 2019

DST #1 **Formation: Viola** **Test Interval: 4068 - 4145'** **Total Depth: 4145'**
 Time On: 15:10 12/08 Time Off: 22:27 12/08
 Time On Bottom: 17:23 12/08 Time Off Bottom: 20:18 12/08

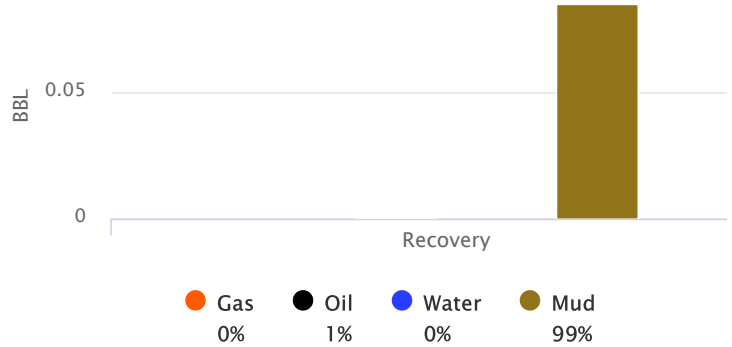
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
6	0.08538	SLOCM	0	1	0	99

Total Recovered: 6 ft
 Total Barrels Recovered: 0.08538

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	2000	PSI
Initial Flow	13 to 15	PSI
Initial Closed in Pressure	292	PSI
Final Flow Pressure	16 to 17	PSI
Final Closed in Pressure	71	PSI
Final Hydrostatic Pressure	2002	PSI
Temperature	112	°F
Pressure Change Initial Close / Final Close	75.8	%

GIP cubic foot volume: 0



Company: Edison Operating Company, LLC

Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 2
Elevation: 1919 Sur
Field Name: Leiss
Pool: Infield
Job Number: 427
API #: 15-185-24063-00-00

Operation:
Uploading recovery & pressures

DATE
December
08
2019

DST #1 **Formation: Viola** **Test Interval: 4068 - 4145'** **Total Depth: 4145'**
Time On: 15:10 12/08 Time Off: 22:27 12/08
Time On Bottom: 17:23 12/08 Time Off Bottom: 20:18 12/08

BUCKET MEASUREMENT:

1st Open: WSB. Built to 1/4 inch in 10 mins
1st Close: NOBB
2nd Open: NO Blow
2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 2
Elevation: 1919 Sur
Field Name: Leiss
Pool: Infield
Job Number: 427
API #: 15-185-24063-00-00

Operation:
Uploading recovery & pressures

DATE
December
08
2019

DST #1 **Formation: Viola** **Test Interval: 4068 - 4145'** **Total Depth: 4145'**
Time On: 15:10 12/08 Time Off: 22:27 12/08
Time On Bottom: 17:23 12/08 Time Off Bottom: 20:18 12/08

Down Hole Makeup

Heads Up: 23.57 FT	Packer 1: 4062.98 FT
Drill Pipe: 4058.98 FT <i>ID-3 1/2</i>	Packer 2: 4067.98 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4052.4 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4138 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: 77.02	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: .5 FT	
Drill Pipe: (in anchor): 63.52 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 8 FT <i>4 1/2-FH</i>	



Company: Edison Operating Company, LLC

SEC: 23 TWN: 25S RNG: 13W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 2
Elevation: 1919 Sur

Field Name: Leiss
Pool: Infield
Job Number: 427
API #: 15-185-24063-00-00

Operation:
Uploading recovery &
pressures

Lease: Reissig #1-23

DATE
December
08
2019

DST #1 **Formation: Viola** **Test Interval: 4068 - 4145'** **Total Depth: 4145'**
Time On: 15:10 12/08 Time Off: 22:27 12/08
Time On Bottom: 17:23 12/08 Time Off Bottom: 20:18 12/08

Mud Properties

Mud Type: Chem **Weight:** 9.55 **Viscosity:** 57 **Filtrate:** 10.4 **Chlorides:** 7600 ppm



Operation:

Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 2
Elevation: 1919 Sur
Field Name: Leiss

Uploading recovery & pressures

Pool: Infield
Job Number: 427
API #: 15-185-24063-00-00

DATE
December
08
2019

DST #1 **Formation: Viola** **Test Interval: 4068 - 4145'** **Total Depth: 4145'**
Time On: 15:10 12/08 Time Off: 22:27 12/08
Time On Bottom: 17:23 12/08 Time Off Bottom: 20:18 12/08

Gas Volume Report

1st Open

2nd Open

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

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



Company: Edison Operating Company, LLC

Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 2
Elevation: 1919 Sur
Field Name: Leiss
Pool: Infield
Job Number: 427
API #: 15-185-24063-00-00

Operation:
Uploading recovery & pressures

DATE
December
09
2019

DST #2 **Formation: Simpson Sand** **Test Interval: 4158 - 4199'** **Total Depth: 4199'**
Time On: 09:23 12/09 Time Off: 15:36 12/09
Time On Bottom: 11:26 12/09 Time Off Bottom: 14:36 12/09

Electronic Volume Estimate:
10'

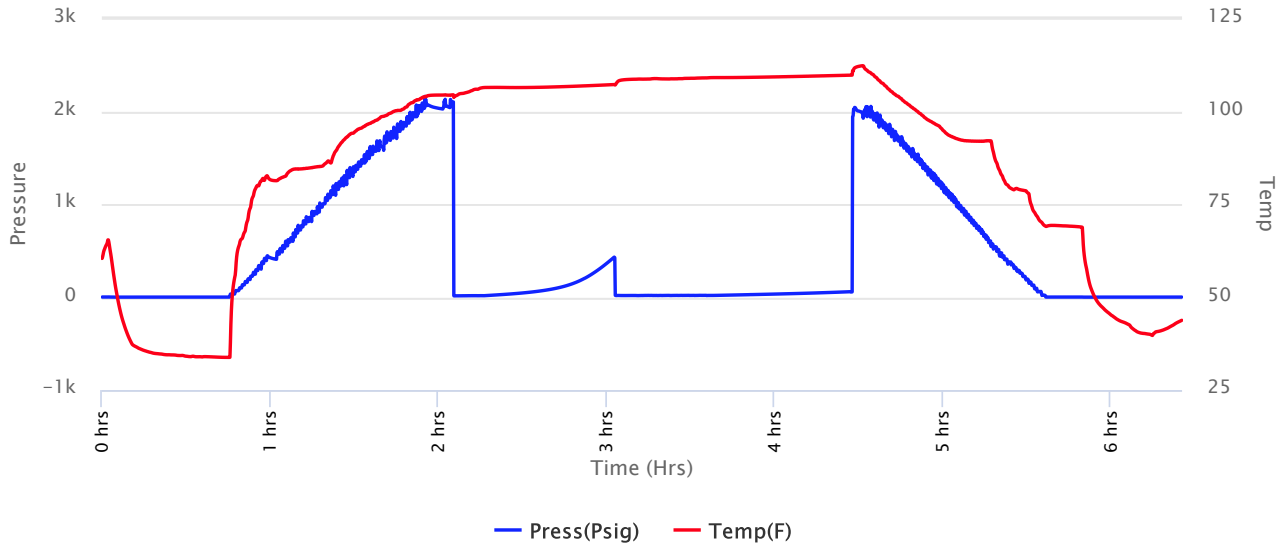
1st Open
Minutes: 10
Current Reading: .8" at 10 min
Max Reading: .8"

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

2nd Open
Minutes: 30
Current Reading: 0" at 30 min
Max Reading: .1"

2nd Close
Minutes: 45
Current Reading: 0" at 45 min
Max Reading: 0"

Inside Recorder





Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 Sur
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-00

Operation:
 Uploading recovery & pressures

DATE
 December
09
 2019

DST #2 **Formation: Simpson Sand** **Test Interval: 4158 - 4199'** **Total Depth: 4199'**
 Time On: 09:23 12/09 Time Off: 15:36 12/09
 Time On Bottom: 11:26 12/09 Time Off Bottom: 14:36 12/09

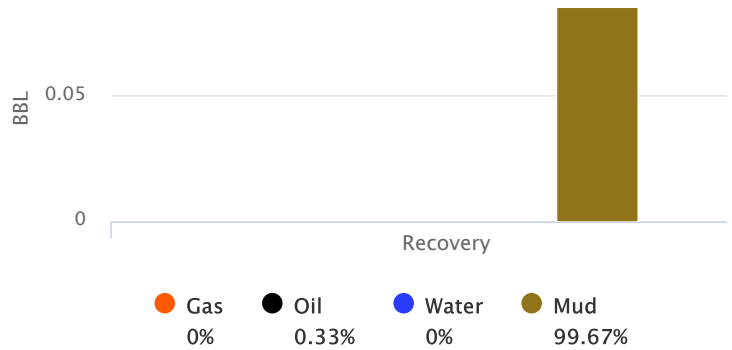
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.07115	M	0	0	0	100
1	0.01423	SLOCM	0	2	0	98

Total Recovered: 6 ft
 Total Barrels Recovered: 0.08538

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	2023	PSI
Initial Flow	13 to 16	PSI
Initial Closed in Pressure	430	PSI
Final Flow Pressure	17 to 19	PSI
Final Closed in Pressure	58	PSI
Final Hydrostatic Pressure	2002	PSI
Temperature	110	°F
Pressure Change Initial Close / Final Close	86.7	%

GIP cubic foot volume: 0



Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 2
Elevation: 1919 Sur
Field Name: Leiss
Pool: Infield
Job Number: 427
API #: 15-185-24063-00-00

Operation:
Uploading recovery & pressures

DATE
December
09
2019

DST #2 Formation: Simpson Sand Test Interval: 4158 - 4199' Total Depth: 4199'
Time On: 09:23 12/09 Time Off: 15:36 12/09
Time On Bottom: 11:26 12/09 Time Off Bottom: 14:36 12/09

BUCKET MEASUREMENT:

1st Open: WSB. Built to 3/4 inch in 10 mins
1st Close: NOBB
2nd Open: WSB. Blow Didn't build, died in 30 mins
2nd Close: NOBB

REMARKS:

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



Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 2
Elevation: 1919 Sur
Field Name: Leiss
Pool: Infield
Job Number: 427
API #: 15-185-24063-00-00

Operation:
Uploading recovery & pressures

DATE
December
09
2019

DST #2 **Formation: Simpson Sand** **Test Interval: 4158 - 4199'** **Total Depth: 4199'**
Time On: 09:23 12/09 Time Off: 15:36 12/09
Time On Bottom: 11:26 12/09 Time Off Bottom: 14:36 12/09

Down Hole Makeup

Heads Up: 28.43 FT	Packer 1: 4153 FT
Drill Pipe: 4153.86 FT <i>ID-3 1/2</i>	Packer 2: 4158 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4142.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4163 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: 41	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: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 37 FT <i>4 1/2-FH</i>	



Company: Edison Operating Company, LLC

SEC: 23 TWN: 25S RNG: 13W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 2
Elevation: 1919 Sur

Field Name: Leiss
Pool: Infield
Job Number: 427
API #: 15-185-24063-00-00

Operation:
Uploading recovery &
pressures

Lease: Reissig #1-23

DATE
December
09
2019

DST #2 **Formation: Simpson Sand** **Test Interval: 4158 - 4199'** **Total Depth: 4199'**
Time On: 09:23 12/09 Time Off: 15:36 12/09
Time On Bottom: 11:26 12/09 Time Off Bottom: 14:36 12/09

Mud Properties

Mud Type: Chem **Weight:** 9.6 **Viscosity:** 53 **Filtrate:** 8.8 **Chlorides:** 8200 ppm



Operation:

Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 2
Elevation: 1919 Sur
Field Name: Leiss



Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 GL
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-00

Operation:
 Uploading recovery & pressures

DATE
 December
10
 2019

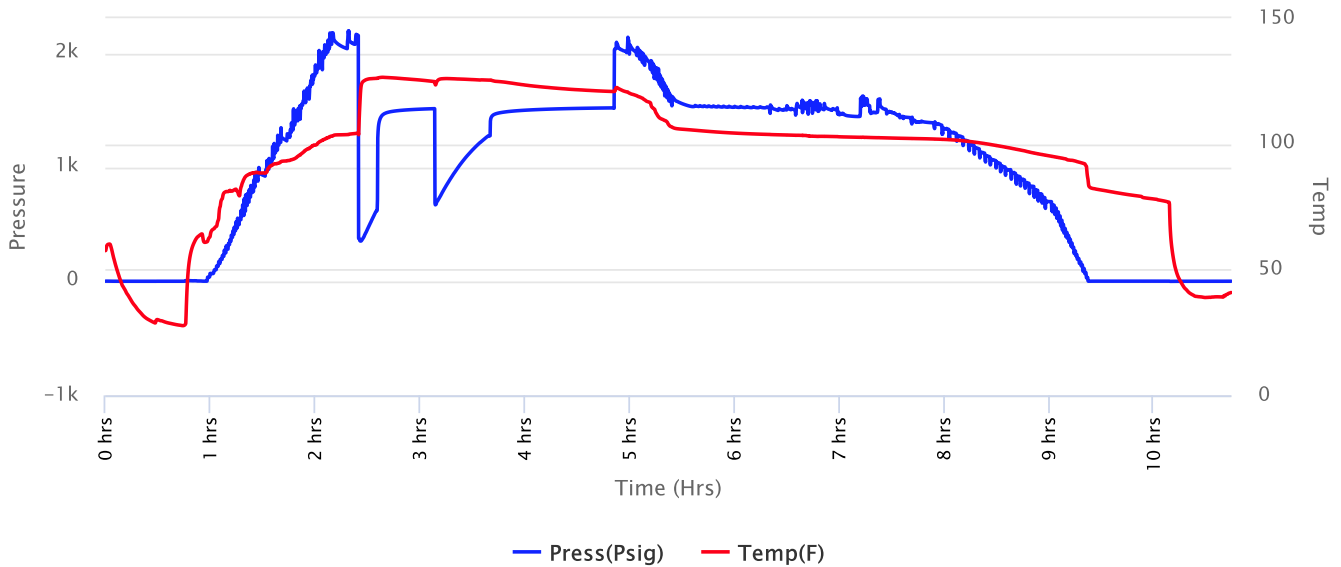
DST #3 Formation: Arbuckle Test Interval: 4233 - 4258' Total Depth: 4258'
 Time On: 01:56 12/10 Time Off: 12:22 12/10
 Time On Bottom: 04:17 12/10 Time Off Bottom: 06:27 12/10



Electronic Volume Estimate:
 N/A

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 10	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading: 165" at 10 min	Current Reading: 13.7" at 30 min	Current Reading: 354" at 30 min	Current Reading: 3.4" at 30 min
Max Reading: 165"	Max Reading: 13.7"	Max Reading: 354"	Max Reading: 3.4"

Inside Recorder





Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 GL
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-00

Operation:
 Uploading recovery & pressures

DATE
 December
10
 2019

DST #3 **Formation: Arbuckle** **Test Interval: 4233 - 4258'** **Total Depth: 4258'**
 Time On: 01:56 12/10 Time Off: 12:22 12/10
 Time On Bottom: 04:17 12/10 Time Off Bottom: 06:27 12/10



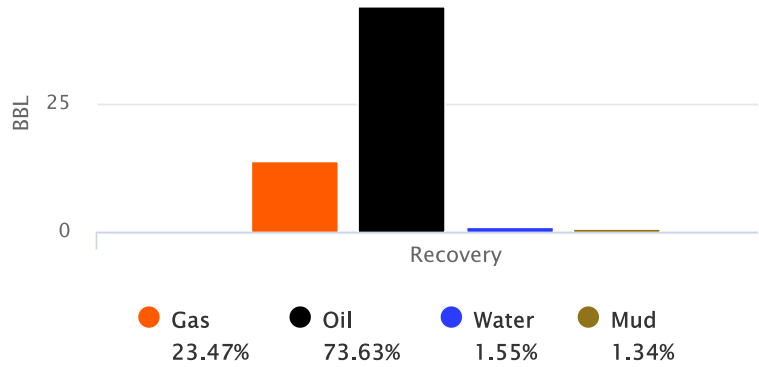
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
990	14.0877	G	100	0	0	0
3102	44.14146	O	0	100	0	0
126	1.79298	SLOCHMCW	0	3	52	45

Total Recovered: 4218 ft
 Total Barrels Recovered: 60.02214

Reversed Out
 YES

Recovery at a glance



Initial Hydrostatic Pressure	2039	PSI
Initial Flow	352 to 623	PSI
Initial Closed in Pressure	1512	PSI
Final Flow Pressure	670 to 1274	PSI
Final Closed in Pressure	1516	PSI
Final Hydrostatic Pressure	2041	PSI
Temperature	127	°F
Pressure Change Initial Close / Final Close	0.0	%

GIP cubic foot volume: 79.09539



**Company: Edison Operating
Company, LLC**
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 2
Elevation: 1919 GL
Field Name: Leiss
Pool: Infield
Job Number: 427
API #: 15-185-24063-00-00

Operation:
Uploading recovery &
pressures

DATE
December
10
2019

DST #3 Formation: Arbuckle Test Interval: 4233 - Total Depth: 4258'
4258'
Time On: 01:56 12/10 Time Off: 12:22 12/10
Time On Bottom: 04:17 12/10 Time Off Bottom: 06:27 12/10



BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1" Blow. BOB in 30 secs.

1st Close: BBBB

2nd Open: 1" Blow. BOB in 45 secs

2nd Close: 3 1/2 Blow Back

REMARKS:

Pumped Down pipe after reversing out, most of the remaining fluid dumped out look pretty much all oil but with the mixer of the mud that was pumped downed the pipe.

Tool Sample: 0% Gas 100% Oil 0% Water 0% Mud

Gravity: 34.5 @ 60 °F

Ph: 7

Measured RW: .8 @ 40 degrees °F

RW at Formation Temp: 0.28 @ 127 °F

Chlorides: 20,000 ppm

Max H2S Reading: 50 ppm



Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 GL
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-00

Operation:
 Uploading recovery & pressures

DATE
 December
10
 2019

DST #3 Formation: Arbuckle Test Interval: 4233 - 4258' Total Depth: 4258'
 Time On: 01:56 12/10 Time Off: 12:22 12/10
 Time On Bottom: 04:17 12/10 Time Off Bottom: 06:27 12/10



Down Hole Makeup

Heads Up: 17.9 FT	Packer 1: 4228 FT
Drill Pipe: 4218.33 FT <i>ID-3 1/2</i>	Packer 2: 4233 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4217.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4238 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 26	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 22 FT <i>4 1/2-FH</i>	



Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 GL
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-0

Operation:
 Uploading recovery & pressures



DATE
 December
10
 2019

DST #3 Formation: Arbuckle Test Interval: 4233 - 4258' Total Depth: 4258'
 Time On: 01:56 12/10 Time Off: 12:22 12/10
 Time On Bottom: 04:17 12/10 Time Off Bottom: 06:27 12/10

Mud Properties

Mud Type: Chem **Weight:** 9.5 **Viscosity:** 53 **Filtrate:** 8.8 **Chlorides:** 8200 ppm



Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 GL
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-00



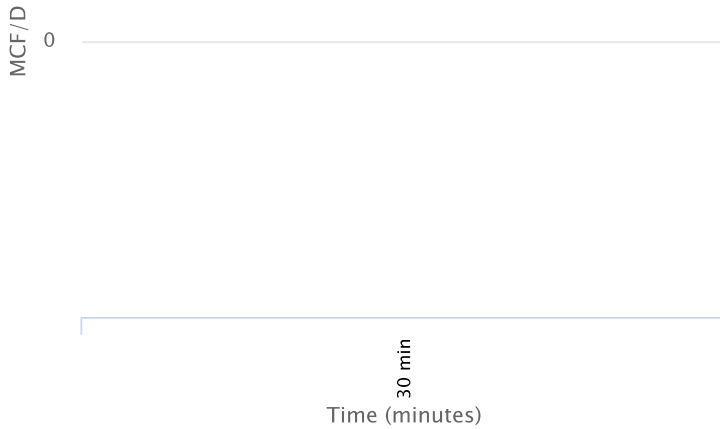
Operation:
 Uploading recovery & pressures

DATE
 December
10
 2019

DST #3 Formation: Arbuckle Test Interval: 4233 - 4258' Total Depth: 4258'
 Time On: 01:56 12/10 Time Off: 12:22 12/10
 Time On Bottom: 04:17 12/10 Time Off Bottom: 06:27 12/10

Gas Volume Report

1st Open				2nd Open			
Time	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D
30	0.125	Too weak to measure	Weak				





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007020	1718	12/03/2019
INVOICE NUMBER			
93097709			

Pratt (620) 672-1201
 B EDISON OPERATING COMPANY LLC
 I 8100 E 22ND ST N
 L WICHITA
 L KS US 67226
 T
 O ATTN: DAVID WITHROW

J LEASE NAME Reissig 1-23
 O LOCATION
 B COUNTY Stafford
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41196710	19843		Net - 30 days	01/02/2020

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 12/02/2019 to 12/02/2019</i>				
0041196710				
171818509A Cement-New Well Casing/Pi 12/02/2019 Cement Surface				
A-Serv Lite	175.00	SK	10.40	1,820.00
Class A Cement	175.00	SK	12.40	2,170.00
Celloflake	86.00	LB	1.60	137.60
Calcium Chloride	789.00	LB	0.40	315.60
Light Vehicle Mileage	20.00	MI	2.00	40.00
Heavy Equipment Mileage	40.00	MI	3.20	128.00
Plug Container Utilization Charge	1.00	EA	100.00	100.00
Depth Charge, 0'-1000'	1.00	HR	480.00	480.00
Blending & Mixing Service Charge	350.00	SK	0.56	196.00
Top Rubber Cement Plug, 8 5/8"	1.00	EA	90.00	90.00
Service Supervisor Charge	1.00	EA	75.00	75.00
Driver Charge	3.00	EA	35.00	105.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5,657.20
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	0.00
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	5,657.20
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASIC

ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 18509 A

23-235-134

DATE _____ TICKET NO. _____

DATE OF JOB: <i>1/11/2019</i>	DISTRICT: <i>Pasadena</i>	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: <i>Edwards Oilfield Company</i>	LEASE: <i>Passy</i>	WELL NO. <i>143</i>					
ADDRESS	COUNTY: <i>Sigsbee</i>	STATE: <i>KS</i>					
CITY	STATE	SERVICE CREW: <i>D. G. ... B. ... D. ...</i>					
AUTHORIZED BY	JOB TYPE: <i>2 1/2" 8 3/4" surface</i>						

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<i>19843</i>	<i>3/4</i>						<i>1/11</i>			<i>3:00</i>
<i>19918</i>	<i>1/2</i>						<i>1/11</i>			<i>4:30</i>
							<i>1/11</i>			<i>6:00</i>
							<i>1/11</i>			<i>6:45</i>
							<i>1/11</i>			<i>7:00</i>
						MILES FROM STATION TO WELL	<i>17</i>			

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: *[Signature]*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
BC119	A Sew Line	SK	175		4,550.00
BC100	C1555 A Cement	SK	175		3,475.00
CC102	Cellulose	LB	86		344.00
CC109	Calcium Chloride	LB	789		789.00
ME101	L. Sha Vehicle Milesage	MI	20		100.00
ME102	Heavy Equipment Milesage	MI	40		320.00
CF504	Plus Contained Charge	EA	1		250.00
CC1	Drop Charge 0-1,000'	HR	1		1,200.00
CF140	Blending & Mixing Service Charge	SK	350		490.00
CF105	TOP Rubber Cement, Plus	EA	1		275.00
BF143	Supervisor Charge	EA	1		75.00
BF144	Driver Charge	EA	3		105.00
SUB TOTAL					<i>13,873.00</i>

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<i>5,657.20</i>

SERVICE REPRESENTATIVE: <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)	

FIELD SERVICE ORDER NO.

Customer Eisen Operating Co		Lease No.		Date 12/2/2019	
Lease Reissig		Well # 1-23			
Field Order # 18207	Station P99-41K3	Casing 8 5/8	Depth 3135	County Says No Co	State KS
Type Job 242/8 5/8 SURFJOB			Formation TD-435	Legal Description 23-253-13	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
8 5/8							
Depth 435	Depth	From	To	Pre Pad	Max		5 Min.
Volume 277	Volume	From	To	Pad	Min		10 Min.
Max Press 300	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 415	Packer Depth	From	To	Flush WATER	Gas Volume		Total Load

Customer Representative Dillon Popp	Station Manager Justin Westerman	Treater Deron Franklin
Service Units 92911 78982 19843 84981 19918		
Driver Names Deron Blatt Blatt D152 D152		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:30pm					On location/S&P meeting
					175SK @ 500 L/min, 6% gel
					3% calcium chloride, 1/4# Cellulose
					12.5pps, 1.98 yield, 10.77 water
					175SK common cement
					2% calcium chloride, 1/4# Cellulose
					15.6pps, 1.20 yield, 5.23 water
6:00pm	200		3	5	Pump 3 bbls water
	200		62	5	mix 175SK lead cement
	200		38	5	mix 175SK + 9.1 cement
					Shut down
					Release Plug
	300		0	5	Start displacement
	300		26	5	Shut down
6:30pm					Shut in
					Cement did Circulate - 10 bbls
6:45pm					Job complete / Deron & crew
					Thank you!!



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007020	1718	12/16/2019
INVOICE NUMBER			
93105883			

Pratt (620) 672-1201
 B EDISON OPERATING COMPANY LLC
 I 8100 E 22ND ST N
 L WICHITA
 L KS US 67226
 T
 O ATTN: DAVID WITHROW

J LEASE NAME Reissig 4
 O LOCATION
 B COUNTY Stafford
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41197701	86779		Net - 30 days	01/15/2020

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 12/11/2019 to 12/11/2019				
0041197701				
171818443A Cement-New Well Casing/Pi 12/11/2019 Cement Longstring				
AA2 Premium Cement	175.00	SK	10.45	1,828.75
60/40 Poz	50.00	SK	14.85	742.50
C-41P	83.00	LB	2.20	182.60
Salt	881.00	LB	0.27	242.27
C-17	83.00	LB	13.20	1,095.60
Cement Gel	86.00	LB	0.28	23.65
Gilsonite	875.00	LB	0.55	481.25
Mud Flush	500.00	GAL	0.83	412.50
BES: C-Claymax	5.00	GAL	16.50	82.50
Light Vehicle Mileage	20.00	MI	2.75	55.00
Heavy Equipment Mileage	40.00	MI	4.40	176.00
Plug Container Utilization Charge	1.00	EA	137.50	137.50
Depth Charge, 4001'-5000'	1.00	HR	1,375.00	1,375.00
Blending & Mixing Service Charge	225.00	SK	0.77	173.25
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	198.00	198.00
Latch Down Plug & Baffle, 5 1/2" (Blue)	1.00	EA	220.00	220.00
5 1/2" Basket (Blue)	1.00	EA	159.50	159.50
Turbolizer, 5 1/2" (Blue)	10.00	EA	60.50	605.00
Service Supervisor Charge	1.00	EA	75.00	75.00
Driver Charge	3.00	EA	35.00	105.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,370.87
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	0.00
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	8,370.87
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



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 18443 A

TMH-30

DATE _____ TICKET NO. _____

DATE OF JOB 12-11-2019 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 EDISON OPERATING		LEASE REISSIG		WELL NO. 4		
ADDRESS		COUNTY STAFFORD		STATE KS		
CITY STATE		SERVICE CREW LESLEY, McGRAN, DIAZ				
AUTHORIZED BY		JOB TYPE: 242 5 1/2" L.S.				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 12-11-19 DATE AM TIME 10:00
710816/8X6779	1					ARRIVED AT JOB PM 1:00
70954/19860	1					START OPERATION PM 6:00
						FINISH OPERATION PM 7:00
						RELEASED PM 7:30
						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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
BC 145	AA2 PREMIUM CEMENT	SK	175		3,325.00	
BC 132	60/40 POZ	SK	50		1,350.00	
CC 105	C-41P	CB	83		332.00	
CC 111	SALT	LB	881		440.50	
CC 187	C-17	LB	83		1,992.00	
CC 200	CEMENT GEL	LB	86		43.00	
CC 201	GILSONITE	LB	875		875.00	
CC 151	MUD FLUSH	GAL	500		750.00	
RCL 102	CLAYMAX	GAL	5		150.00	
ME 101	LIGHT VEHICLE MILEAGE	MI	20		100.00	
ME 102	HEAVY EQUIPMENT MILEAGE	MI	40		320.00	
CE 504	PLUG CONTAINER UTILIZATION	EA	1		250.00	
CC 5	DEPTH CHARGE, 4000' - 5000'	HR	1		2,500.00	
CE 240	BLEND & MIX CHARGE	SK	225		315.00	
CF 1251	AUTO FILL FLOATS HOE, 5 1/2"	EA	1		360.00	
CF 607	LATCH DOWN PLUG & BAFFLE, 5 1/2"	EA	1		400.00	
CF 1901	BASKET, 5 1/2"	EA	1		270.00	
CF 1651	TURBULIZER, 5 1/2"	EA	10		1,100.00	
BE 143	SERVICE SUPERVISOR	EA	1		75.00	
BE 144	DRIVER CHARGE	EA	3	105.00	315.00	
					SUB TOTAL	15,072.50

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	% TAX ON \$	
MATERIALS	% TAX ON \$	
TOTAL		8,370.00

SERVICE REPRESENTATIVE: _____ THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

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

BASIC ENERGY SERVICES
 PRESSURE PUMPING & WIRELINE

FIELD SERVICE TICKET

1718 18443 A

DATE _____ TICKET NO. _____

DATE OF JOB: 12-11-2011		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: _____				LEASE: _____				WELL NO.: _____							
ADDRESS: _____				COUNTY: STAFFORD				STATE: KS							
CITY: _____				STATE: _____				SERVICE CREW: _____							
AUTHORIZED BY: _____				JOB TYPE: 747 5 1/2" 1-3.				_____							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
747/677	1						12-11-11			1:00					
						ARRIVED AT JOB									
						START OPERATION									
						FINISH OPERATION									
						RELEASED									
						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: _____
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
BC 145	PMZ CEMENT	SK	175		3325.00
BC 132	1/4" GALV	SK	50		1750.00
CC 105	C-11P	HR	23		332.00
CC 111	SPRT	HR	241		4500.00
CC 147	C-17	HR	13		1792.00
CC 200	CEMENT 136L	CTB	86		938.00
CC 201	GALVANITE	CTB	875		8750.00
CC 151	NOVIFLUSH	SK	500		750.00
CC 112	CLAYMAX	SAL	5		150.00
CC 101	CONT LEASE RENTAL	HR	30		1700.00
CC 102	CONT LEASE RENTAL	HR	510		5100.00
CC 204	WATER PUMP UTILIZATION	HR	1		250.00
CC 5	DEPTH CHARGE 4100' 5000'	HR	1		2500.00
CC 240	BREND-AIR CHARGE	SK	225		3150.00
CC 125	AUTO AIR UTILIZATION 5 1/2"	HR	100		3600.00
CC 107	CATCH TANK 1000' 500'	HR	1		500.00
CC 1901	BASKET 5 1/2"	HR	1		200.00
CC 1651	FERTILIZER 5 1/2"	HR	10		1000.00
CC 193	SERVICE SUPERVISOR	HR	1		750.00
CC 194	DRIVER CHARGE	HR	3		150.00
SUB TOTAL					52670.00

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		87

SERVICE REPRESENTATIVE: _____	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____
FIELD SERVICE ORDER NO. _____	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer EDISON OPER.	Lease No.	Date 12-11-2017
Lease REISSIG	Well # 1-23	
Field Order # 10443	Station PRATT	Casing 5 1/2"
Type Job 5 1/2" C.S.	Depth 4350'	County STAFFORD
	Formation	State KS
		Legal Description 23-255-13W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Fluid	RATE	PRESS	ISIP	
5 1/2" C.S.		175 SKS		AA2				
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
4347'				3.1420 CF				
Volume	Volume	From	To	Pad	Min		10 Min.	
103.433								
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
2000								
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	
4304'				102.433L				

Customer Representative DALTON PERRY	Station Manager J. WESTERMAN	Treater K. LESLEY
Service Units	Driver Names	
910817 77696 61079 19960 70959 19860	LESLEY McGRATH [REDACTED] DIAZ	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00 PM					ON LOCATION - SAFETY MEETING
3:00 PM					RUN 104 JTS. 5 1/2" x 15.5" CSG.
					TURBO - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
					BASKET - PIN OF #5
5:00 PM					CSG. ON BOTTOM / BREAK CIRC. W/ RIG POINT
6:00 PM	300		20	6	2% KCL H2O AHEAD
6:05 PM	300		12	6	MUD FLUSH
6:07 PM	300		5	6	H2O SPACER
6:08 PM	200		44	6	MIX 175 SKS AA2 @ 15 SPIG
6:16 PM					CLEAR TUMP & LINES / DROP I.D. PLUG
6:27 PM	0		0	6	START DISPLACEMENT
6:38 PM	300		71	5	LIFT PRESSURE
6:41 PM	700		90	4	SLOW RATE
6:45 PM	1500		102.5	3	PLUG DOWN - HELD
					CIRC. TRAP JOB
6:50 PM			7.5	2	PLUG R.A. & M.H.
					JOB COMPLETE,
					THANKS -
					KELEN LESLEY



Scale 1:240 Imperial

Well Name: Reissig #1-23
 Surface Location: Sec. 23 - T25S - R13W
 Bottom Location:
 API: 15-185-24063-0000
 License Number: 34434
 Spud Date: 12/2/2019 Time: 8:00 PM
 Region: Stafford County
 Drilling Completed: 12/11/2019 Time: 6:45 PM
 Surface Coordinates: 592' FNL & 2304' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1919.00ft
 K.B. Elevation: 1929.00ft
 Logged Interval: 0.00ft To: 4350.00ft
 Total Depth: 4350.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Edison Operating Company LLC
 Address: 8100 E. 22nd St. North
 Building 1900
 Wichita, KS 67226
 Contact Geologist: David Withrow
 Contact Phone Nbr: 316.613.1544
 Well Name: Reissig #1-23
 Location: Sec. 23 - T25S - R13W
 API: 15-185-24063-0000
 Pool: Wildcat Field:
 State: Kansas Country: USA

LOGGED BY



Company: Edison Operating Company LLC
 Address: 8100 E. 22nd St. North
 Building 1900
 Wichita, KS 67226
 Phone Nbr: 316.650.9677
 Logged By: Geologist Name: Adam T. Kennedy

REMARKS

After review of the geological log, drill stem results, and open hole logs, it was agreed upon by all parties, to run 5 1/2" casing to further test the Arbuckle for commercial quantities of oil and gas.

Respectfully submitted,

Adam T. Kennedy

GENERAL INFORMATION

Service Companies

Drilling Contractor: Southwind Drilling - Rig #1
 Tool Pusher: Cecil Farmer
 Daylight Driller: Travis Epp
 Evening Driller: Angel Rodriguez
 Morning Driller: Ryan Hamby

 Gas Detector: Bluestem Environmental
 Engineer: Keith Reavis
 Unit: 5279
 Operational By: 2500'

Drilling Fluid: Mud-Co/Service Mud Inc.
 Engineers: Jason Whiting

Logging Company: Eli Wireline
 Engineer: Jeff Lubbers
 Logs Ran: DI, CDNL, Micro, Sonic

Testing Company: Diamond Testing
 Tester: Ricky Ray

Formation	Sample	Sub Sea	Log	Sub Sea	Sample	Sub Sea	Log	Sub Sea	Sample	Sub Sea	Log	Sub Sea	Sample	Sub Sea	Log	
Topeka					3128	-1195										
Heebner	3472	-1543	3470	-1541	3473	-1540	-3	-1	3475	-1541	-2	0	3470	-1544	1	3
Toronto	3494	-1565	3490	-1561	3494	-1561	-4	0	3494	-1560	-5	-1	3490	-1564	-1	3
Douglas	3516	-1587	3512	-1583	3513	-1580	-7	-3	3516	-1582	-5	-1	3514	-1588	1	5
Brown Lime	3625	-1696	3624	-1695	3624	-1691	-5	-4	3631	-1697	1	2	3626	-1700	4	5
Lansing-Kansas City	3652	-1723	3652	-1723	3654	-1721	-2	-2	3658	-1724	1	1	3651	-1725	2	2
LKC 'B'	3671	-1742	3669	-1740	3671	-1738	-4	-2	3674	-1740	-2	0	3669	-1743	1	3
LKC 'D'	3699	-1770	3698	-1769	3699	-1766	-4	-3	3702	-1768	-2	-1	3698	-1772	2	3
Muncie Creek	3784	-1855	3782	-1853	3786	-1853	-2	0	3790	-1856	1	3	3786	-1860	5	7
LKC 'H'	3790	-1861	3790	-1861	3789	-1856	-5	-5	3795	-1861	0	0	3790	-1864	3	3
LKC 'I'	3808	-1879	3808	-1879	3807	-1874	-5	-5	3804	-1870	-9	-9	3808	-1882	3	3
LKC 'J'	3822	-1893	3821	-1892	3821	-1888	-5	-4	3826	-1892	-1	0	3820	-1894	1	2
Stark	3857	-1928	3858	-1929	3857	-1924	-4	-5	3865	-1931	3	2	3860	-1934	6	5
LKC 'K'	3866	-1937	3862	-1933	3866	-1933	-4	0	3870	-1936	-1	3	3862	-1936	-1	3
Hushpuckney	3893	-1964	3894	-1965	3896	-1963	-1	-2	3900	-1966	2	1	3898	-1972	8	7
Base Kansas City	3936	-2007	3938	-2009	3939	-2006	-1	-3	3946	-2012	5	3	3935	-2009	2	0
Marmaton	3946	-2017	3954	-2025	3951	-2018	1	-7	3967	-2033	16	8	3956	-2030	13	5
Kinderhook	4048	-2119	4062	-2133	4042	-2109	-10	-24	4085	-2151	32	18	4050	-2124	5	-9
Viola	4088	-2159	4094	-2165	4077	-2144	-15	-21	4122	-2188	29	23	4087	-2161	2	-4
Simpson	4170	-2241	4158	-2229	4185	-2252	11	23	4176	-2242	1	13	4163	-2237	-4	8
Arbuckle	4230	-2301	4204	-2275	4235	-2302	1	27	4235	-2301	0	26	4229	-2303	2	28
Total Depth	4350	-2421	4350	-2421	4346	-2413	-8	-8	4270	-2336	-85	-85	4240	-2314	-107	-107

ROCK TYPES

	Cht		LMST1		SILTSTONE		SHALE GRA
	Cht vari		LMST2		SHALE CAR		SHALE RED
	DOL4		Ss		SHALE GRN		

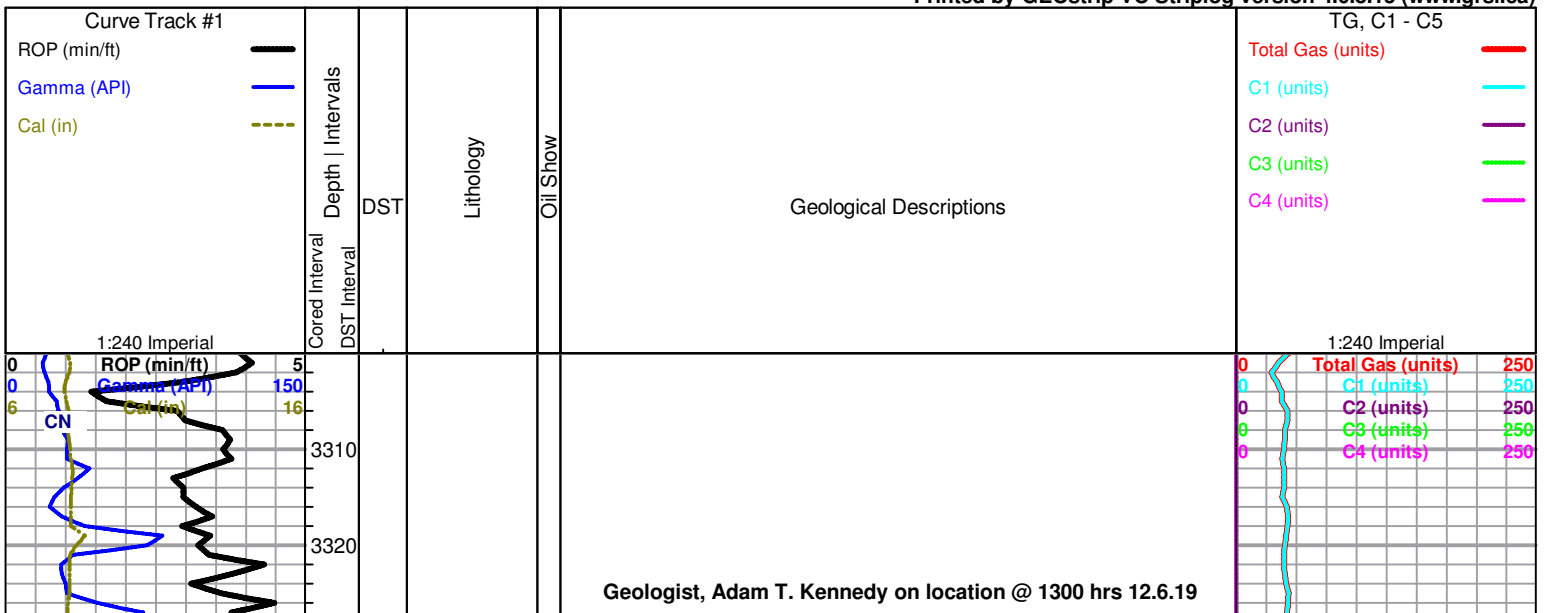
ACCESSORIES

MINERAL	FOSSIL	TEXTURE
■ Carbonaceous Flakes	F Fossils < 20%	C Chalky
▲ Chert, dark	○ Oolite	
P Pyrite	⊕ Oomoldic	
Mc Mica		

OTHER SYMBOLS

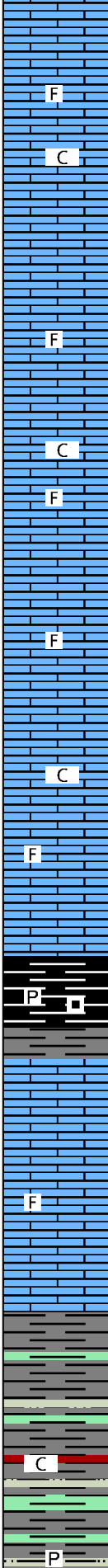
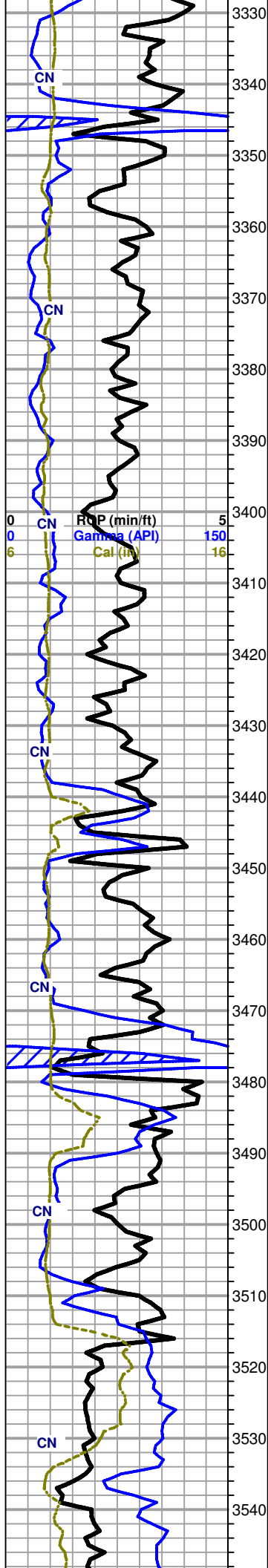
MISC	DST
Daily Report	DST1
Digital Photo	DST2
Document	DST3
Folder	Core
Link	tail pipe
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Rpt	

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



Start 10' Wet and Dry Samples

MudCo Mud Check @
 3342' 09:30 hrs
 12.06.19
 Vis: 59 Wt: 9.0
 pH: 10.0 WL: 8.0
 Chr: 6100
 LCM: 1#



Limestone: cream gray light brown, micro xln, fossiliferous, mottled, dense xln matrix, no shows noted, abundant chalk.

Limestone: cream brown trace gray, micro to finexln, fossiliferous, dense xln hard matrix, scattered poor interxln porosity, no shows noted.

Limestone: cream tan brown, microxln, trace fossils, dense xln matrix, mottled, poor visible porosity, abundant chalk.

Limestone: cream tan gray, micro to fine xln, fossiliferous hash, dense hard matrix, scattered chalk, poor visible porosity, no shows noted.

Limestone: cream white gray, micro to finexln, fossiliferous, dense chalky matrix, scattered poor interxln porosity, no shows noted.

HEEBNER 3472' (-1543)

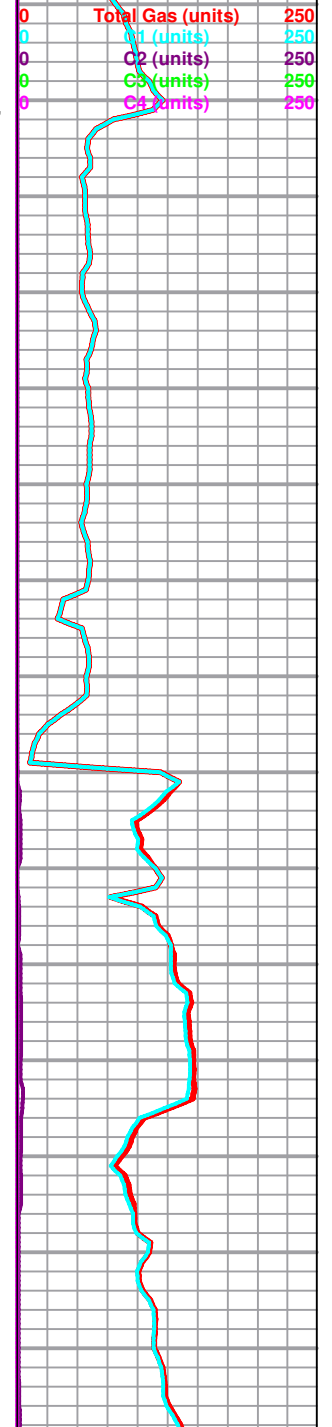
Shale: gray black, dense blocky fissile, carbonaceous, trace pyrite.

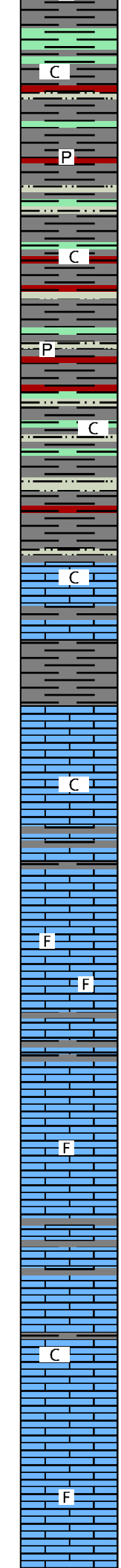
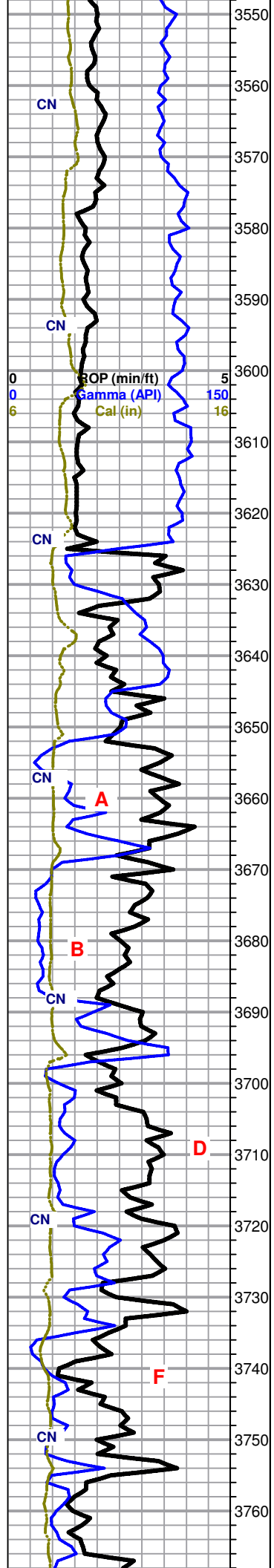
TORONTO 3492' (-1563)

Limestone: cream tan light brown, microxln, fossiliferous, dense xln matrix, scattered poor interxln porosity, no shows noted.

DOUGLAS 3513' (-1584)

Shale: gray green brick red, blocky fissile waxy, with abundant grey siltstones, samples wash gray, abundant chalk.





Shale: gray green brick red, blocky fissile, pyritic, increase in gray siltstones as above, chalky.

BROWN LIME 3625' (-1696)

Limestone: cream tan brown, microxn, trace fossils, dense chalky xln matrix, poor visible porosity, no shows noted.

LANSING KANSAS CITY 3652' (-1723)

Limestone: cream tan, micro to finexln, trace fossils, dense xln matrix, large calcite nodules, poor visible porosity, no shows noted, slightly chalky.

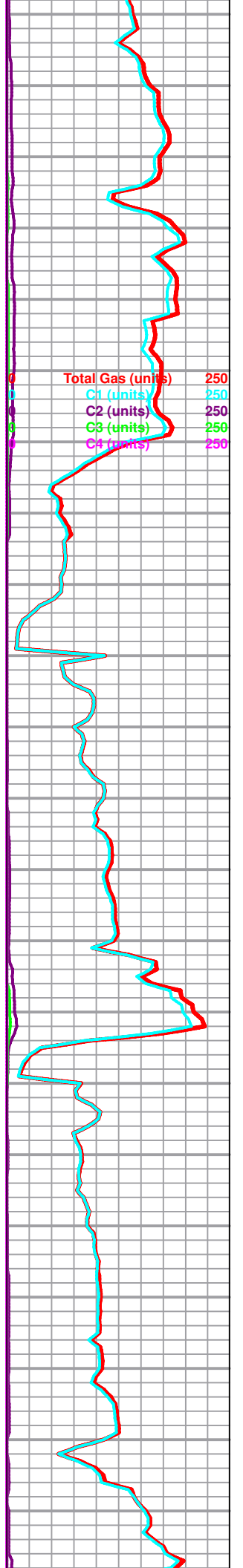
Limestone: cream tan light brown, micro to finexln, abundant fossiliferous hash, scattered poor interxln porosity, no shows noted associated with gas kick.

Limestone: cream tan gray, micro to finexln, fossiliferous fragments, dense chalky matrix, poor visible porosity, no shows noted.

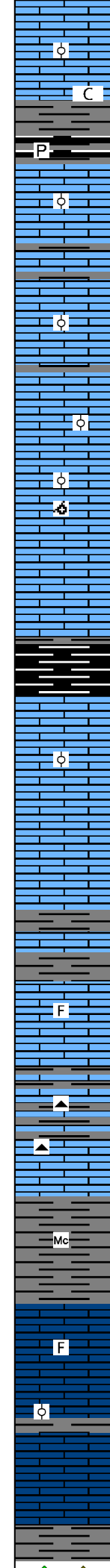
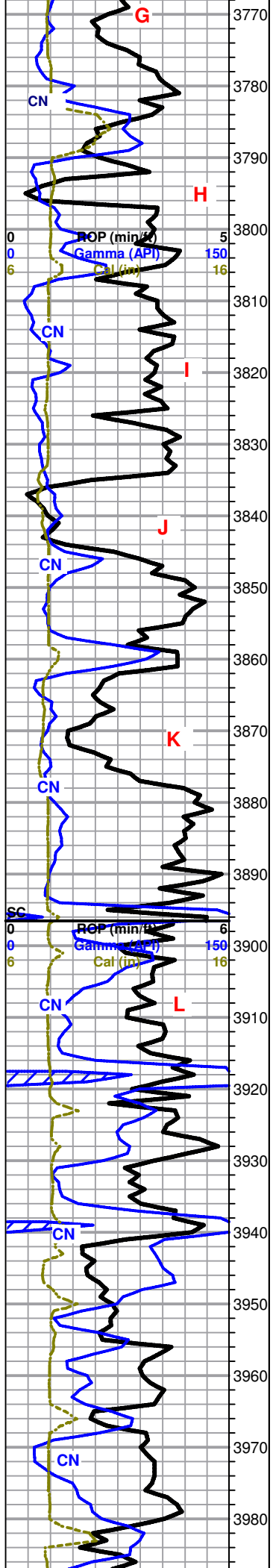
Limestone: white cream tan, micro to finexln, fossiliferous, chalky matrix, scattered poor interxln porosity, no shows or odor noted

Limestone: cream tan light brown, micro to finexln, mottled, dense sub chalky matrix, poor to fair interxln porosity, no shows or odor noted.

Limestone: white cream tan, microxn, fossiliferous, dense xln matrix, no shows or odor noted.



Total Gas (units) 250
 C1 (units) 250
 C2 (units) 250
 C3 (units) 250
 C4 (units) 250



Limestone: cream tan brown gray, microxn, oolitic, dense mottled sub chalky matrix, scattered nodules, poor visible porosity, no shows noted.

Muncie Creek 3784' (-1855)

Shales: gray dark gray black, scattered carbonaceous, pyritic.

Limestone: cream white tan, micro to finexln, oolitic, sub chalky, scattered good to very good interxn vuggy porosity, no shows or odor noted.

Limestone: white cream tan, micro to finexln, oolitic, dense xln matrix, scattered nodules, poor to fair interxn porosity, no shows or odor noted.

Limestone: white cream, micro to finexln, fossiliferous, oolitic, dense xln fossiliferous matrix, scattered good interxn porosity, no shows or odor noted.

Limestone: white cream, micro to finexln, oolitic, scattered oomoldic matrix, good interxn oomoldic porosity, abundant rexln, no shows or odor noted.

Shales: gray dark gray, green, blocky fissile.

Stark Shale 3857' (-1928)

Limestone: cream tan gray, microxn, fossiliferous oolitic, dense lithographic matrix, poor visible porosity, no shows noted.

Limestone: white cream light gray, micro to finexln, mostly barren, dense lithographic matrix, poor visible porosity, no shows noted.

Hushpuckney 3893' (-1964)

Limestone: white cream tan, micro to fine xln, fossiliferous, dense xln matrix, scattered poor intxn porosity, no shows or odor noted.

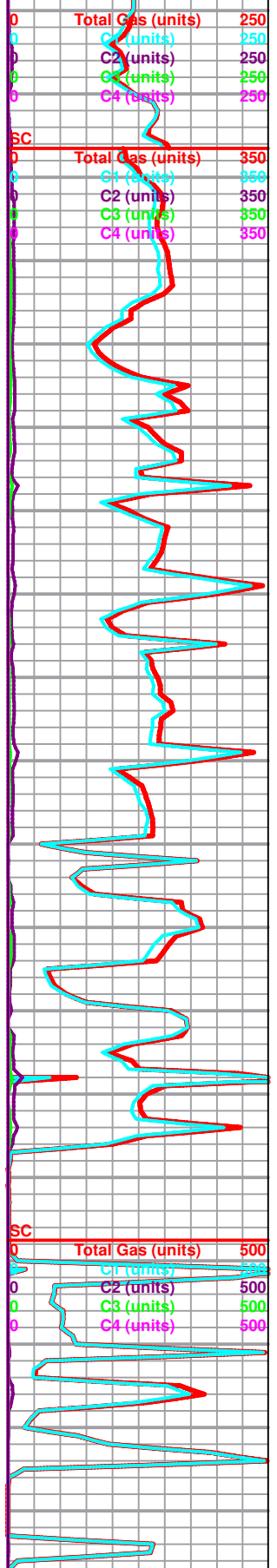
Limestone: white cream, microxn, mostly barren, chert, chalky lithographic matrix, very poor porosity, no shows noted.

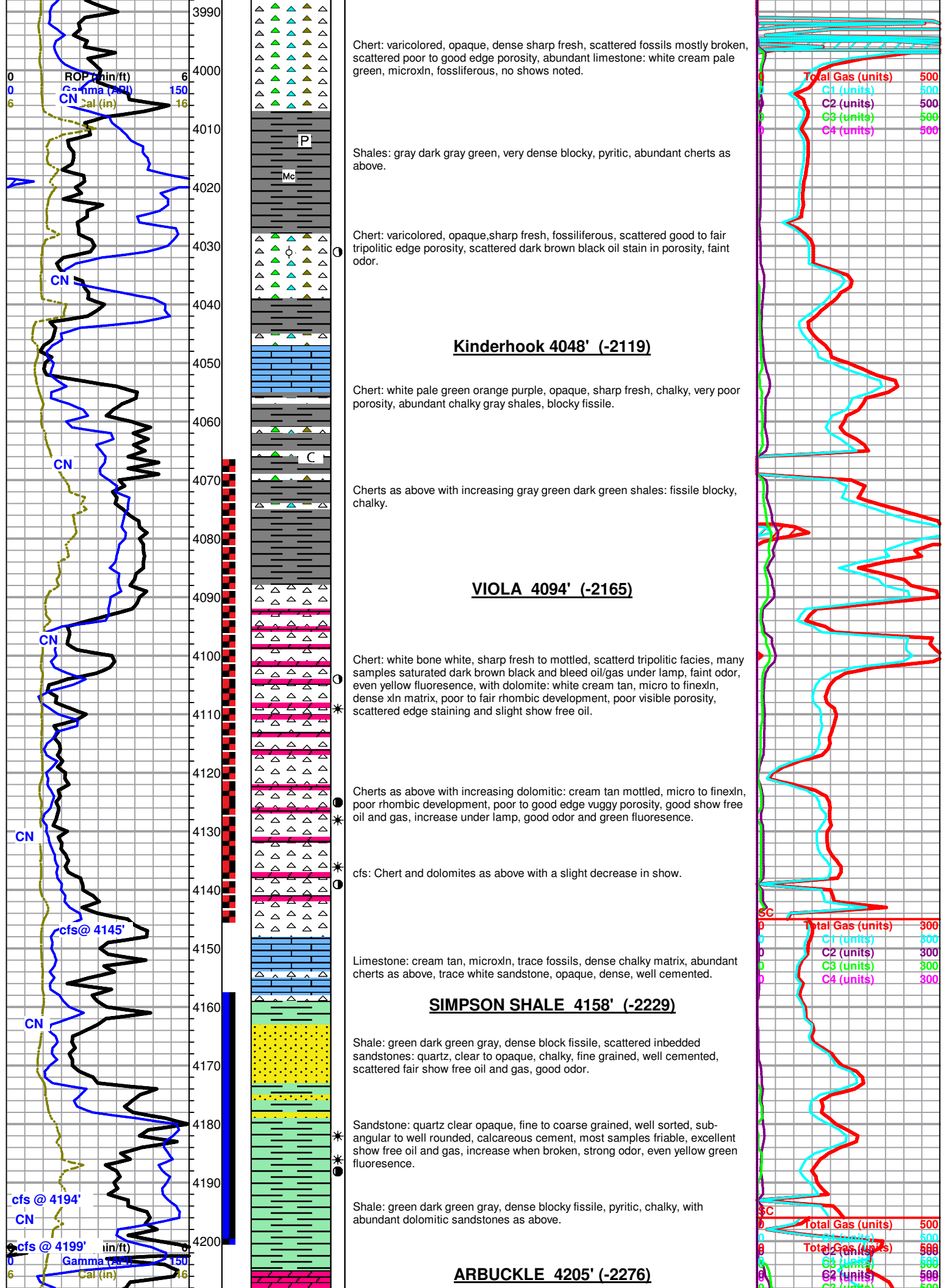
Base Kansas City 3936' (-2007)

Shales: gray dark gray green, blocky fissile, micaceous, abundant limestones as above.

Limestone: white cream tan, micro to finexln, trace fossils oolitic, dense chert matrix, poor visible porosity, no shows noted.

Limestone: white cream pale green, micro to finexln, mostly barren, dense chalky matrix, cherty, poor visible porosity, no shows noted.





Chert: varicolored, opaque, dense sharp fresh, scattered fossils mostly broken, scattered poor to good edge porosity, abundant limestone: white cream pale green, microxin, fossiliferous, no shows noted.

Shales: gray dark gray green, very dense blocky, pyritic, abundant cherts as above.

Chert: varicolored, opaque, sharp fresh, fossiliferous, scattered good to fair tripolitic edge porosity, scattered dark brown black oil stain in porosity, faint odor.

Kinderhook 4048' (-2119)

Chert: white pale green orange purple, opaque, sharp fresh, chalky, very poor porosity, abundant chalky gray shales, blocky fissile.

Cherts as above with increasing gray green dark green shales: fissile blocky, chalky.

VIOLA 4094' (-2165)

Chert: white bone white, sharp fresh to mottled, scattered tripolitic facies, many samples saturated dark brown black and bleed oil/gas under lamp, faint odor, even yellow fluorescence, with dolomite: white cream tan, micro to finexln, dense xln matrix, poor to fair rhombic development, poor visible porosity, scattered edge staining and slight show free oil.

Cherts as above with increasing dolomitic: cream tan mottled, micro to finexln, poor rhombic development, poor to good edge vuggy porosity, good show free oil and gas, increase under lamp, good odor and green fluorescence.

cfs: Chert and dolomites as above with a slight decrease in show.

Limestone: cream tan, microxin, trace fossils, dense chalky matrix, abundant cherts as above, trace white sandstone, opaque, dense, well cemented.

SIMPSON SHALE 4158' (-2229)

Shale: green dark green gray, dense block fissile, scattered inbedded sandstones: quartz, clear to opaque, chalky, fine grained, well cemented, scattered fair show free oil and gas, good odor.

Sandstone: quartz clear opaque, fine to coarse grained, well sorted, sub-angular to well rounded, calcareous cement, most samples friable, excellent show free oil and gas, increase when broken, strong odor, even yellow green fluorescence.

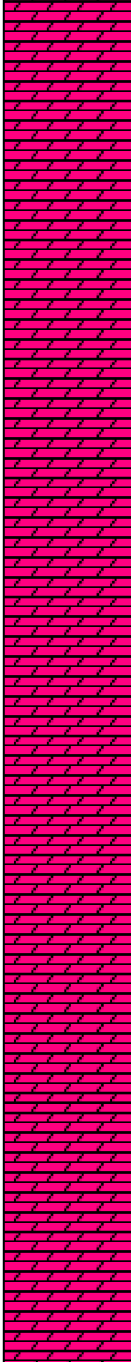
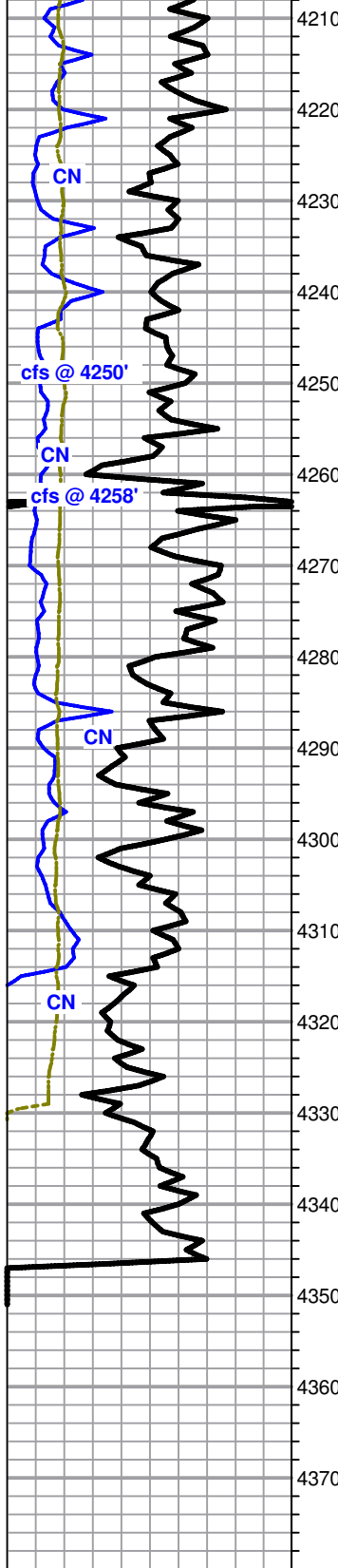
Shale: green dark green gray, dense blocky fissile, pyritic, chalky, with abundant dolomitic sandstones as above.

ARBUCKLE 4205' (-2276)

Total Gas (units)	500
C1 (units)	500
C2 (units)	500
C3 (units)	500
C4 (units)	500

Total Gas (units)	300
C1 (units)	300
C2 (units)	300
C3 (units)	300
C4 (units)	300

Total Gas (units)	500
C1 (units)	500
C2 (units)	500
C3 (units)	500
C4 (units)	500



Dolomite: white cream tan, microxn, trace fossils, dense xln matrix, poor rhombic development, abundant limestone: cream tan gray, microxn, dense xln matrix, no shows noted, with shales and sandstones as above.

4250' Dolomite: cream tan gray, micro to fine xln, oolitic, dense xln matrix, poor to fair rhombic development, scattered poor to fair interxn porosity, trace free oil under lamp, faint odor, even green mineral fl.

4258' Dolomite: white cream, micro to finexln, dense xln matrix, fair to good rhombic development, scattered poor to good iterxn porosity, increase in free oil and gas under lamp faint odor, green fluorescence.

*
● cfs Dolomite as above with increasing show and free oil/gas. Stronger odor, even green fluorescence.

● Dolomite: white cream light gray, micro to finexln, dense xln matrix, fair rhombic development, scattered good interxn porosity, slight decrease in above show, faint odor, even green fluorescence.

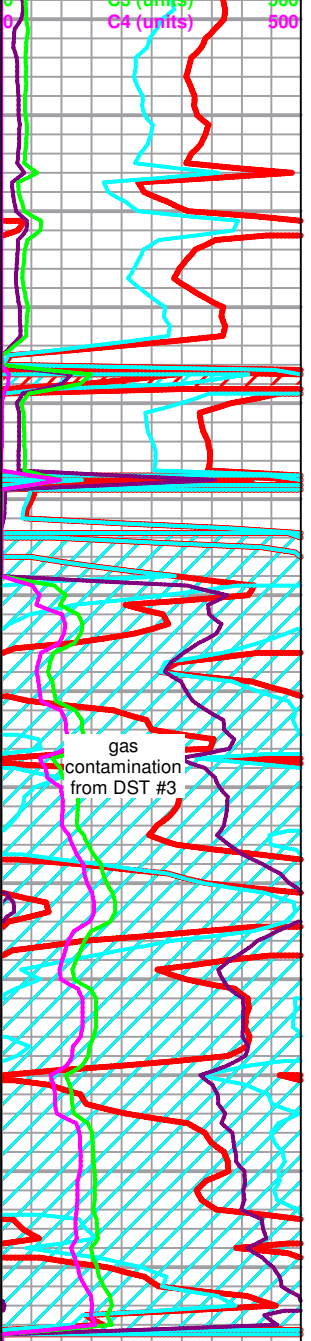
Dolomite: white cream tan, micro to coarse xln, dense xln matrix, increase in rhombic development, scattered good to very good rhombic interxn porosity, sharp decrease in show, even green fluorescence.

Dolomite as above with decreasing show.

Dolomite: white cream, micro to coarse xln, dense xln matrix, good to very good rhombic development, scattered good to very good interxn porosity, no shows or odor noted.

RTD 4350' (-2421)

- 📷 DST 1_Page_1.jpg
- 📷 DST 1_Page_2.jpg
- 📷 DST 2_Page_1.jpg
- 📷 DST 2_page_2.jpg
- 📷 DST 3_Page_1.jpg
- 📷 DST 3_Page_2.jpg





Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 GL
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-00

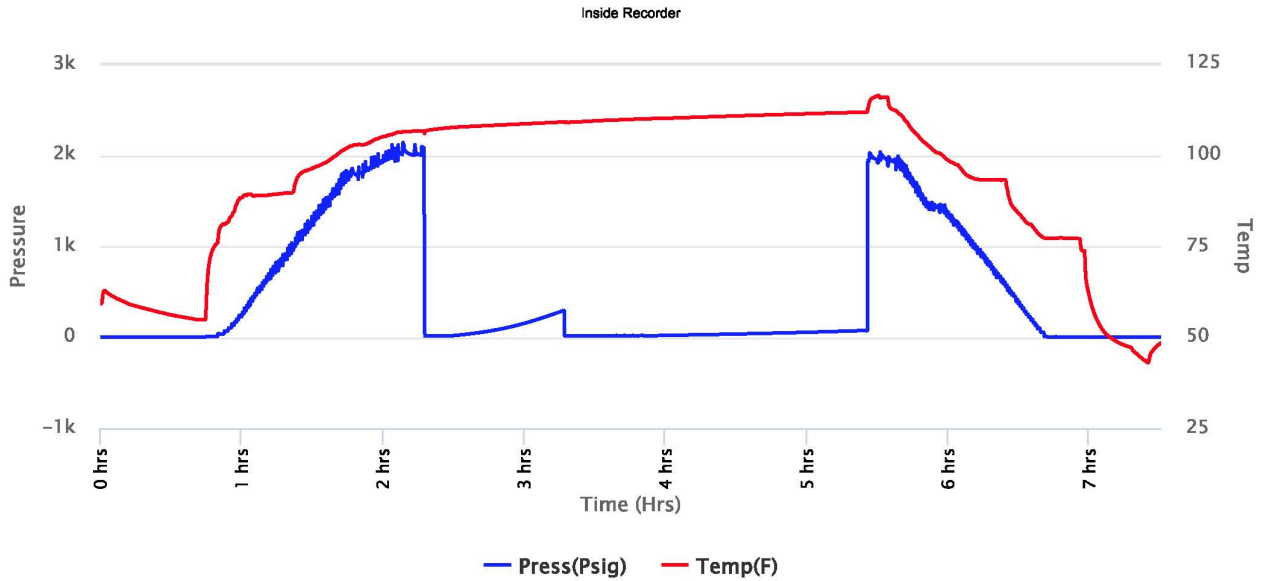
Operation:
 Test Complete

DATE
 December
08
 2019

DST #1 **Formation: Viola** **Test Interval: 4068 - 4145'** **Total Depth: 4145'**
 Time On: 15:10 12/08 Time Off: 22:27 12/08
 Time On Bottom: 17:23 12/08 Time Off Bottom: 20:18 12/08

Electronic Volume Estimate:
 3'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 10	Minutes: 45	Minutes: 30	Minutes: 90
Current Reading: .25" at 10 min	Current Reading: 0" at 45 min	Current Reading: 0" at 30 min	Current Reading: 0" at 90 min
Max Reading: .25"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"





Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 GL
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-00

Operation:
 Test Complete

DATE
 December
08
 2019

DST #1 **Formation: Viola** **Test Interval: 4068 - 4145'** **Total Depth: 4145'**
 Time On: 15:10 12/08 Time Off: 22:27 12/08
 Time On Bottom: 17:23 12/08 Time Off Bottom: 20:18 12/08

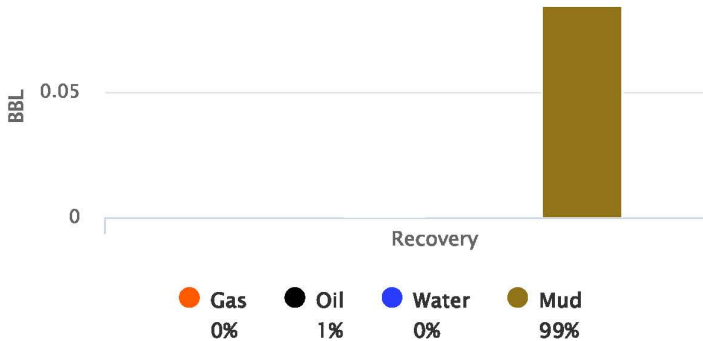
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
6	0.08538	SLOCM	0	1	0	99

Total Recovered: 6 ft
 Total Barrels Recovered: 0.08538

Reversed Out
 NO

Initial Hydrostatic Pressure	2000	PSI
Initial Flow	13 to 15	PSI
Initial Closed in Pressure	292	PSI
Final Flow Pressure	16 to 17	PSI
Final Closed in Pressure	71	PSI
Final Hydrostatic Pressure	2002	PSI
Temperature	112	°F
Pressure Change Initial Close / Final Close	75.8	%

Recovery at a glance



GIP cubic foot volume: 0



Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 GL
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-00

Operation:
 Test Complete

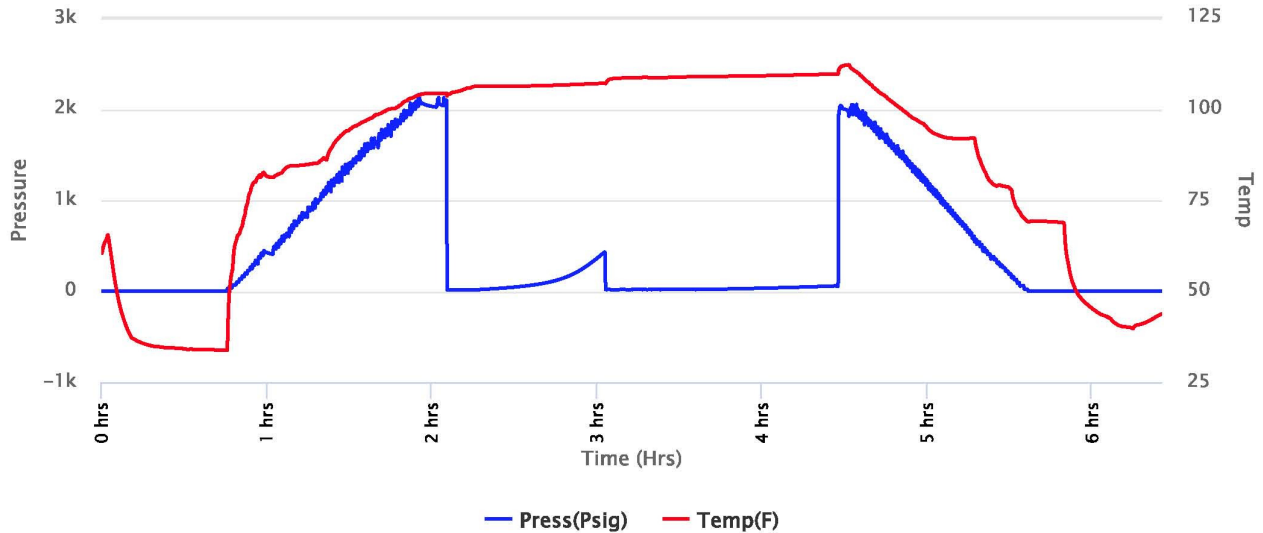
DATE
 December
09
 2019

DST #2 **Formation: Simpson Sand** **Test Interval: 4158 - 4199'** **Total Depth: 4199'**
 Time On: 09:23 12/09 Time Off: 15:36 12/09
 Time On Bottom: 11:26 12/09 Time Off Bottom: 14:36 12/09

Electronic Volume Estimate:
 10'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 10	Minutes: 45	Minutes: 30	Minutes: 45
Current Reading: .8" at 10 min	Current Reading: 0" at 45 min	Current Reading: 0" at 30 min	Current Reading: 0" at 45 min
Max Reading: .8"	Max Reading: 0"	Max Reading: .1"	Max Reading: 0"

Inside Recorder





Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 GL
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-00

Operation:
 Test Complete

DATE
 December
09
 2019

DST #2 **Formation: Simpson Sand** **Test Interval: 4158 - 4199'** **Total Depth: 4199'**
 Time On: 09:23 12/09 Time Off: 15:36 12/09
 Time On Bottom: 11:26 12/09 Time Off Bottom: 14:36 12/09

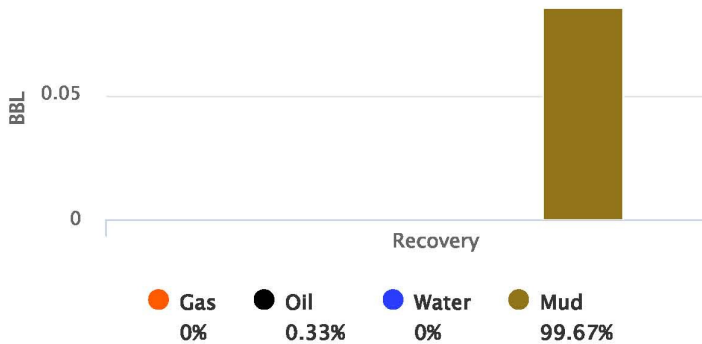
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLS</u>					
5	0.07115	M	0	0	0	100
1	0.01423	SLOCM	0	2	0	98

Total Recovered: 6 ft
 Total Barrels Recovered: 0.08538

Reversed Out
 NO

Initial Hydrostatic Pressure	2023	PSI
Initial Flow	13 to 16	PSI
Initial Closed in Pressure	430	PSI
Final Flow Pressure	17 to 19	PSI
Final Closed in Pressure	58	PSI
Final Hydrostatic Pressure	2002	PSI
Temperature	110	°F
Pressure Change Initial Close / Final Close	86.7	%

Recovery at a glance



GIP cubic foot volume: 0



Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 GL
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-00

Operation:
 Uploading recovery & pressures

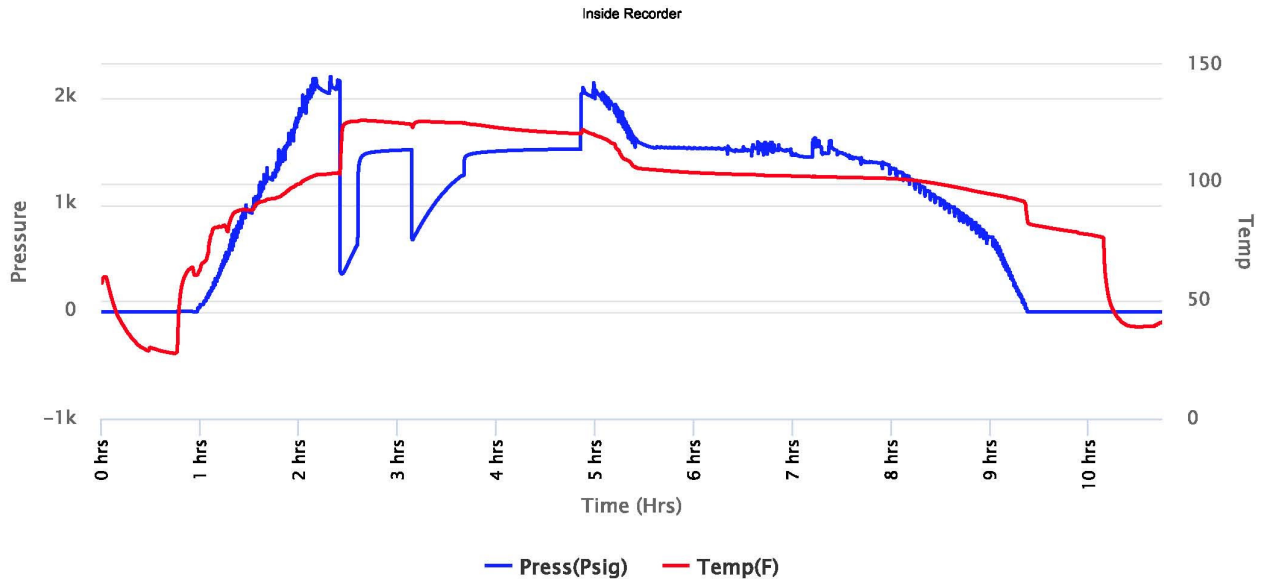
DATE
 December
10
 2019

DST #3 **Formation: Arbuckle** **Test Interval: 4233 - 4258'** **Total Depth: 4258'**
 Time On: 01:56 12/10 Time Off: 12:22 12/10
 Time On Bottom: 04:17 12/10 Time Off Bottom: 06:27 12/10



Electronic Volume Estimate:
 N/A

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 10	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading: 165" at 10 min	Current Reading: 13.7" at 30 min	Current Reading: 354" at 30 min	Current Reading: 3.4" at 30 min
Max Reading: 165"	Max Reading: 13.7"	Max Reading: 354"	Max Reading: 3.4"





Company: Edison Operating Company, LLC
Lease: Reissig #1-23

SEC: 23 TWN: 25S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 2
 Elevation: 1919 GL
 Field Name: Leiss
 Pool: Infield
 Job Number: 427
 API #: 15-185-24063-00-00

Operation:
 Uploading recovery & pressures

DATE
 December
10
 2019

DST #3 **Formation: Arbuckle** **Test Interval: 4233 - 4258'** **Total Depth: 4258'**
 Time On: 01:56 12/10 Time Off: 12:22 12/10
 Time On Bottom: 04:17 12/10 Time Off Bottom: 06:27 12/10



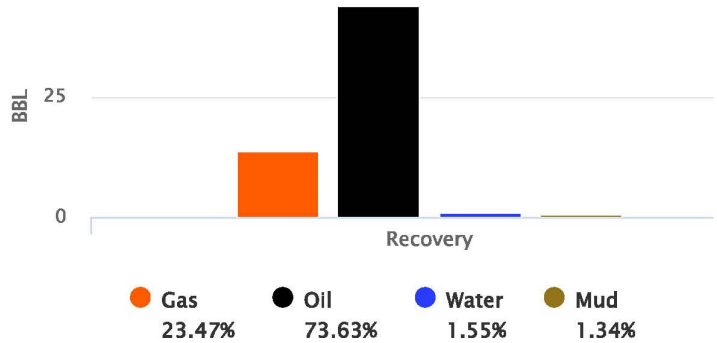
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
990	14.0877	G	100	0	0	0
3102	44.14146	O	0	100	0	0
126	1.79298	SLOCHMCW	0	3	52	45

Total Recovered: 4218 ft
 Total Barrels Recovered: 60.02214

Reversed Out
 YES

Initial Hydrostatic Pressure	2039	PSI
Initial Flow	352 to 623	PSI
Initial Closed in Pressure	1512	PSI
Final Flow Pressure	670 to 1274	PSI
Final Closed in Pressure	1516	PSI
Final Hydrostatic Pressure	2041	PSI
Temperature	127	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 79.09539