

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	LB Exploration, Inc.
Well Name	PROCHASKA/RATHBUN UNIT 1
Doc ID	1748576

All Electric Logs Run

Dual induction
Dual compensated porosity
Microresistivity
Borehole compensated sonic



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery & pressures

DATE
August
18
2023

DST #1 Formation: Chase Test Interval: 987 - 1101' Total Depth: 1101'

Time On: 23:37 08/18 Time Off: 06:13 08/18
Time On Bottom: 01:01 08/18 Time Off Bottom: 04:16 08/18

Electronic Volume Estimate:
201'

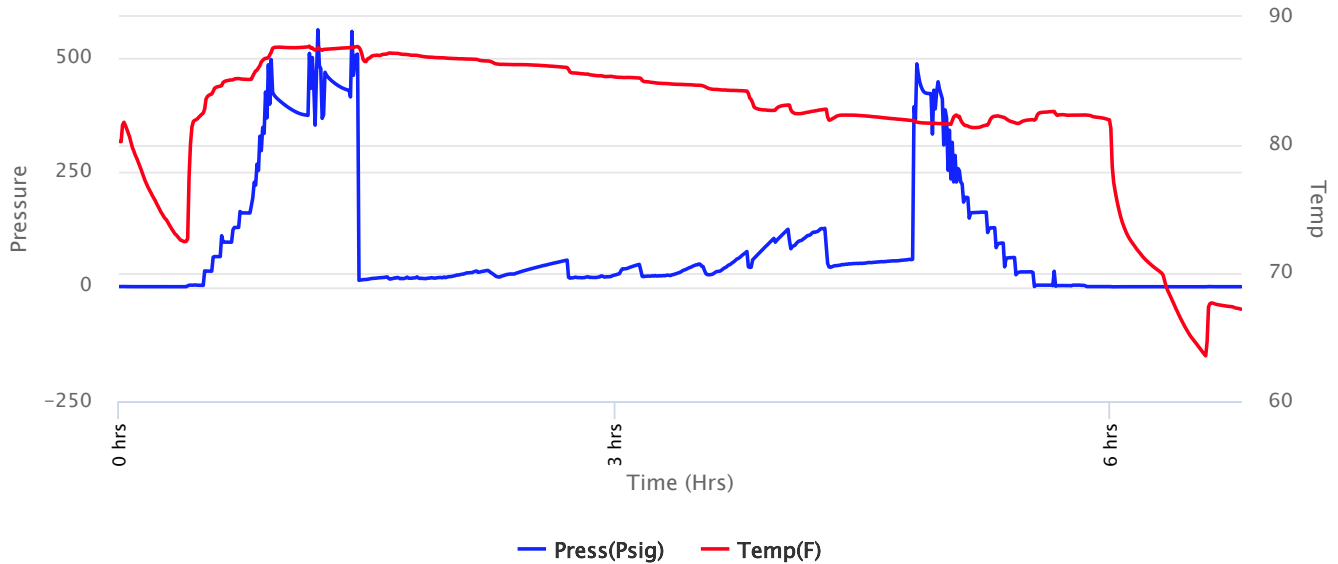
1st Open
Minutes: 45
Current Reading:
5.2" at 45 min
Max Reading: 7.2"

1st Close
Minutes: 45
Current Reading:
4" at 45 min
Max Reading: 6.5"

2nd Open
Minutes: 45
Current Reading:
3.5" at 45 min
Max Reading: 10"

2nd Close
Minutes: 60
Current Reading:
12" at 60 min
Max Reading: 12"

Inside Recorder





Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

#1

Operation:
 Uploading recovery & pressures

DATE
 August
18
 2023

DST #1 Formation: Chase Test Interval: 987 - 1101' Total Depth: 1101'

Time On: 23:37 08/18 Time Off: 06:13 08/18
 Time On Bottom: 01:01 08/18 Time Off Bottom: 04:16 08/18

Recovered

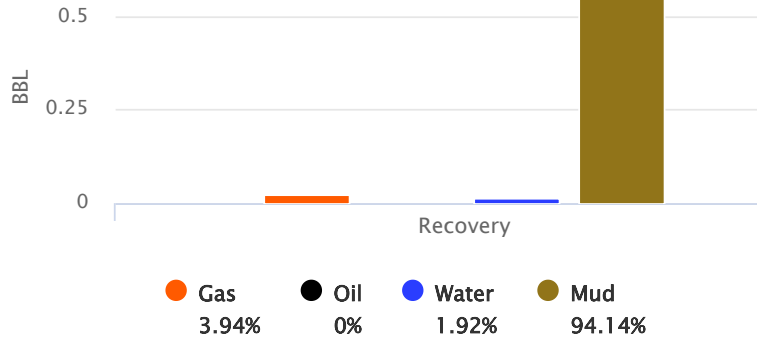
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.0246	G	100	0	0	0
122	0.60024	SLWCM	0	0	2	98

Total Recovered: 127 ft
 Total Barrels Recovered: 0.62484

Reversed Out
 NO

Initial Hydrostatic Pressure	430	PSI
Initial Flow	14 to 22	PSI
Initial Closed in Pressure	59	PSI
Final Flow Pressure	19 to 44	PSI
Final Closed in Pressure	60	PSI
Final Hydrostatic Pressure	431	PSI
Temperature	88	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 0.13812



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery &
pressures

DATE
August
18
2023

DST #1 Formation: Chase Test Interval: 987 - 1101' Total Depth: 1101'

Time On: 23:37 08/18 Time Off: 06:13 08/18
Time On Bottom: 01:01 08/18 Time Off Bottom: 04:16 08/18

BUCKET MEASUREMENT:

1st Open: 1/2" Blow. Built to 5 1/2 inches in 45 minutes
1st Close: 6 1/2" Blow Back
2nd Open: 1/4" Blow. Built to 10 inches in 45 minutes
2nd Close: Bottom Bucket Blow Back



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery & pressures

DATE
August
18
2023

DST #1 Formation: Chase Test Interval: 987 - 1101' Total Depth: 1101'

Time On: 23:37 08/18 Time Off: 06:13 08/18
Time On Bottom: 01:01 08/18 Time Off Bottom: 04:16 08/18

Down Hole Makeup

Heads Up: 9.379999999999999 FT	Packer 1: 982 FT
Drill Pipe: 666.13 FT <i>ID-3 1/2</i>	Packer 2: 987 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 974 FT
Collars: 305.09 FT <i>ID-2 1/4</i>	Bottom Recorder: 1089 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 114	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: 1 FT	
Drill Pipe: (in anchor): 95.5 FT <i>ID-3 1/2</i>	
Change Over: .5 FT	
Perforations: (below): 13 FT <i>4 1/2-FH</i>	



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery &
pressures

DATE
August
18
2023

DST #1 Formation: Chase Test Interval: 987 - 1101' Total Depth: 1101'

Time On: 23:37 08/18 Time Off: 06:13 08/18
Time On Bottom: 01:01 08/18 Time Off Bottom: 04:16 08/18

Mud Properties

Mud Type: Water **Weight:** **Viscosity:** **Filtrate:** **Chlorides:** ppm



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery &
pressures

DATE
August
18
2023

DST #1 Formation: Chase Test Interval: 987 - 1101' Total Depth: 1101'

Time On: 23:37 08/18 Time Off: 06:13 08/18
Time On Bottom: 01:01 08/18 Time Off Bottom: 04:16 08/18

Gas Volume Report

1st Open

2nd Open

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

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



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery & pressures

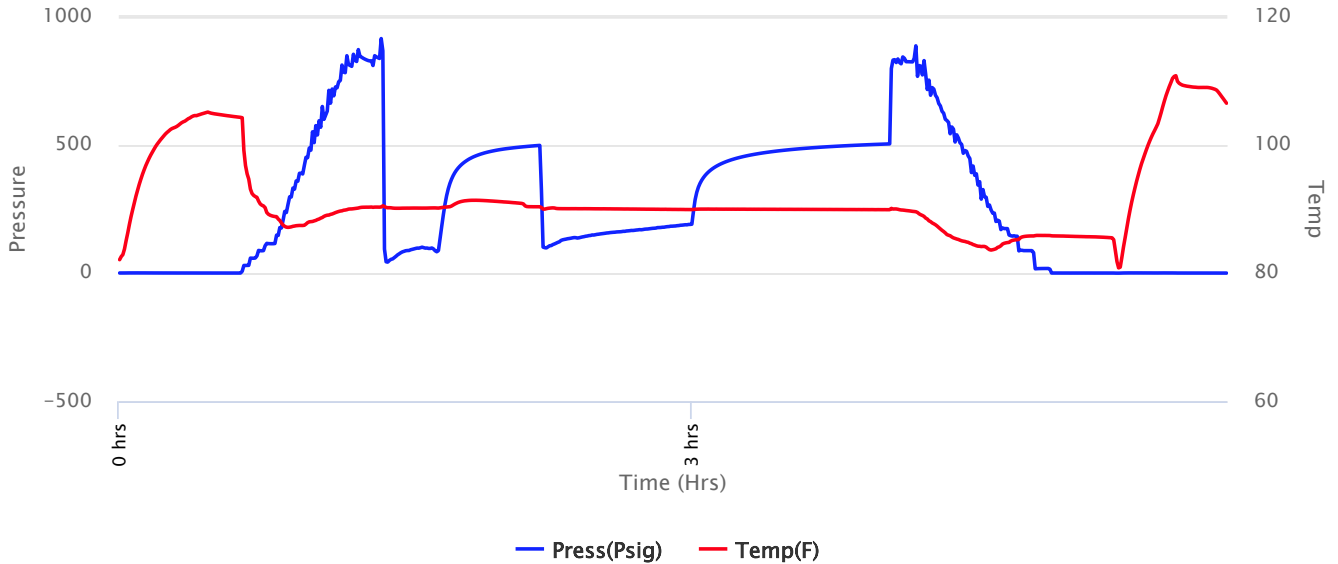
DATE
August
19
2023

DST #2 **Formation: Tarkio Sand** **Test Interval: 1822 - 1860'** **Total Depth: 1860'**
Time On: 10:24 08/19 Time Off: 16:03 08/19
Time On Bottom: 11:45 08/19 Time Off Bottom: 14:15 08/19

Electronic Volume Estimate:
N/A

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 15	Minutes: 30	Minutes: 45	Minutes: 60
Current Reading: 341" at 15 min	Current Reading: 21" at 30 min	Current Reading: GTS" at 45 min	Current Reading: .25" at 60 min
Max Reading: 341"	Max Reading: 21"	Max Reading: GTS"	Max Reading: 5"

Inside Recorder





Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

#1

Operation:
 Uploading recovery & pressures

DATE
 August
19
 2023

DST #2 **Formation: Tarkio Sand** **Test Interval: 1822 - 1860'** **Total Depth: 1860'**
 Time On: 10:24 08/19 Time Off: 16:03 08/19
 Time On Bottom: 11:45 08/19 Time Off Bottom: 14:15 08/19

Recovered

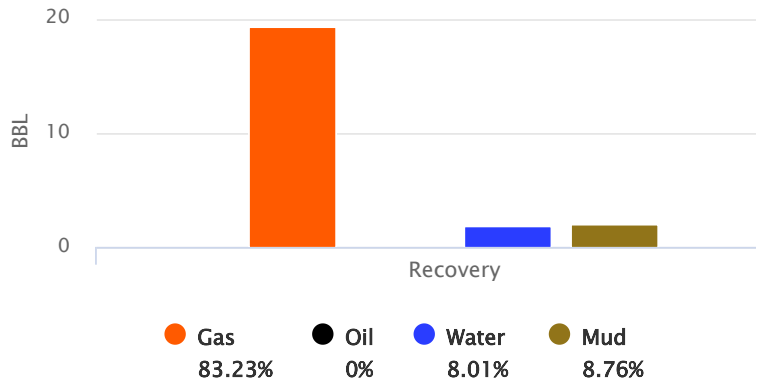
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1356	19.29588	G	100	0	0	0
126	1.79298	M	0	0	0	100
63	0.889973	MCW	0	0	80	20
245	1.2054	SLMCW	0	0	95	5

Total Recovered: 1790 ft
 Total Barrels Recovered: 23.184233

Reversed Out
 NO

Initial Hydrostatic Pressure	838	PSI
Initial Flow	44 to 84	PSI
Initial Closed in Pressure	499	PSI
Final Flow Pressure	99 to 191	PSI
Final Closed in Pressure	505	PSI
Final Hydrostatic Pressure	839	PSI
Temperature	92	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 108.33672



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery & pressures

DATE
August
19
2023

DST #2 Formation: Tarkio Sand Test Interval: 1822 - 1860' Total Depth: 1860'
Time On: 10:24 08/19 Time Off: 16:03 08/19
Time On Bottom: 11:45 08/19 Time Off Bottom: 14:15 08/19

BUCKET MEASUREMENT:

1st Open: 1" Blow. BOB in 15 seconds
1st Close: Bottom Bucket Blow Back
2nd Open: BOB Instantly
2nd Close: 5" Blow Back

REMARKS:

Tool Sample Blown Out

Ph: 7

Measured RW: .09 @ 110 degrees °F

RW at Formation Temp: 0.106 @ 92 °F

Chlorides: 110000 ppm



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery & pressures

DATE
August
19
2023

DST #2 **Formation: Tarkio Sand** **Test Interval: 1822 - 1860'** **Total Depth: 1860'**
Time On: 10:24 08/19 Time Off: 16:03 08/19
Time On Bottom: 11:45 08/19 Time Off Bottom: 14:15 08/19

Down Hole Makeup

Heads Up: 6.589999999999999 FT	Packer 1: 1817 FT
Drill Pipe: 1557.73 FT <i>ID-3 1/2</i>	Packer 2: 1822 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 1809 FT
Collars: 245.7 FT <i>ID-2 1/4</i>	Bottom Recorder: 1824 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 38	Surface Choke: 1"
Anchor Makeup	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): 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: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

#1

Operation:
 Uploading recovery & pressures

DATE
 August
19
 2023

DST #2 **Formation: Tarkio Sand** **Test Interval: 1822 - 1860'** **Total Depth: 1860'**
 Time On: 10:24 08/19 Time Off: 16:03 08/19
 Time On Bottom: 11:45 08/19 Time Off Bottom: 14:15 08/19

Gas Volume Report

Remarks: Gas To surface in 11 minutes on final flow. Caught gas sample 15 minutes into final flow.

1st Open

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

2nd Open

Time	Orifice	PSI	MCF/D
5	0.125	Too weak to measure	Weak
25	0.125	Too weak to measure	Weak
30	0.125	Too weak to measure	2.76
45	0.125	Too weak to measure	Weak

MCF/D



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery & pressures

DATE
August
21
2023

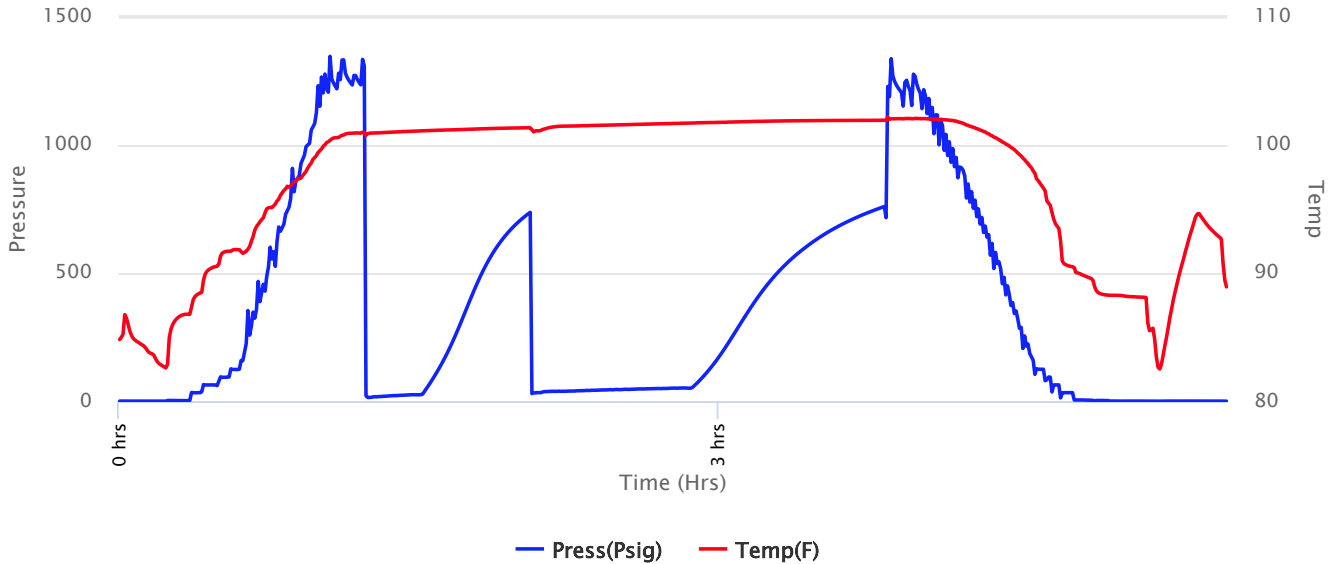
DST #3 Formation: Douglas Test Interval: 2495 - 2509' Total Depth: 2509'

Time On: 04:17 08/21 Time Off: 09:39 08/21
Time On Bottom: 05:28 08/21 Time Off Bottom: 07:58 08/21

Electronic Volume Estimate:
503'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 15	Minutes: 30	Minutes: 45	Minutes: 60
Current Reading: 29.5" at 15 min	Current Reading: 0" at 30 min	Current Reading: 29.6" at 45 min	Current Reading: 0" at 60 min
Max Reading: 29.5"	Max Reading: 0"	Max Reading: 29.6"	Max Reading: 0"

Inside Recorder





Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

#1

Operation:
 Uploading recovery & pressures

DATE
 August
21
 2023

DST #3 Formation: Douglas Test Interval: 2495 - 2509' Total Depth: 2509'

Time On: 04:17 08/21 Time Off: 09:39 08/21
 Time On Bottom: 05:28 08/21 Time Off Bottom: 07:58 08/21

Recovered

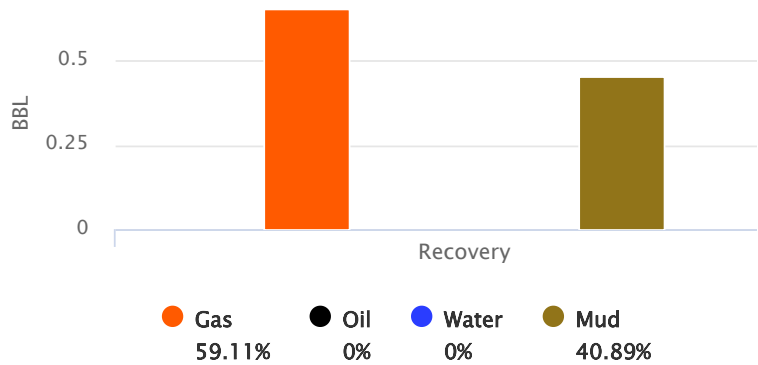
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
133	0.65436	G	100	0	0	0
92	0.45264	M	0	0	0	100

Total Recovered: 225 ft
 Total Barrels Recovered: 1.107

Reversed Out
 NO

Initial Hydrostatic Pressure	1235	PSI
Initial Flow	15 to 26	PSI
Initial Closed in Pressure	738	PSI
Final Flow Pressure	30 to 51	PSI
Final Closed in Pressure	760	PSI
Final Hydrostatic Pressure	1235	PSI
Temperature	102	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 3.6739



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery &
pressures

DATE
August
21
2023

DST #3 Formation: Douglas Test Interval: 2495 - Total Depth: 2509'
2509'

Time On: 04:17 08/21 Time Off: 09:39 08/21
Time On Bottom: 05:28 08/21 Time Off Bottom: 07:58 08/21

BUCKET MEASUREMENT:

1st Open: 1" Blow. BOB in 1 mintue

1st Close: NOBB

2nd Open: BOB Instantly

2nd Close: NOBB

REMARKS:

Tool Sample drained out do to hydraulic tool getting stuck open.



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery & pressures

DATE
August
21
2023

DST #3 Formation: Douglas Test Interval: 2495 - 2509' Total Depth: 2509'

Time On: 04:17 08/21 Time Off: 09:39 08/21
Time On Bottom: 05:28 08/21 Time Off Bottom: 07:58 08/21

Down Hole Makeup

Heads Up: 0.9499999999999999 FT	Packer 1: 2490 FT
Drill Pipe: 2225.09 FT <i>ID-3 1/2</i>	Packer 2: 2495 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 2482 FT
Collars: 245.7 FT <i>ID-2 1/4</i>	Bottom Recorder: 2497 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 14	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 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): 13 FT <i>4 1/2-FH</i>	



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery &
pressures

DATE
August
21
2023

DST #3 Formation: Douglas Test Interval: 2495 - Total Depth: 2509'
2509'

Time On: 04:17 08/21 Time Off: 09:39 08/21
Time On Bottom: 05:28 08/21 Time Off Bottom: 07:58 08/21

Mud Properties

Mud Type: Chem **Weight:** 9.1 **Viscosity:** 56 **Filtrate:** 7.6 **Chlorides:** 4500 ppm



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery &
pressures

DATE
August
21
2023

DST #3 Formation: Douglas Test Interval: 2495 - Total Depth: 2509'
2509'

Time On: 04:17 08/21 Time Off: 09:39 08/21
Time On Bottom: 05:28 08/21 Time Off Bottom: 07:58 08/21

Gas Volume Report

1st Open

2nd Open

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

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



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery & pressures

DATE
August
21
2023

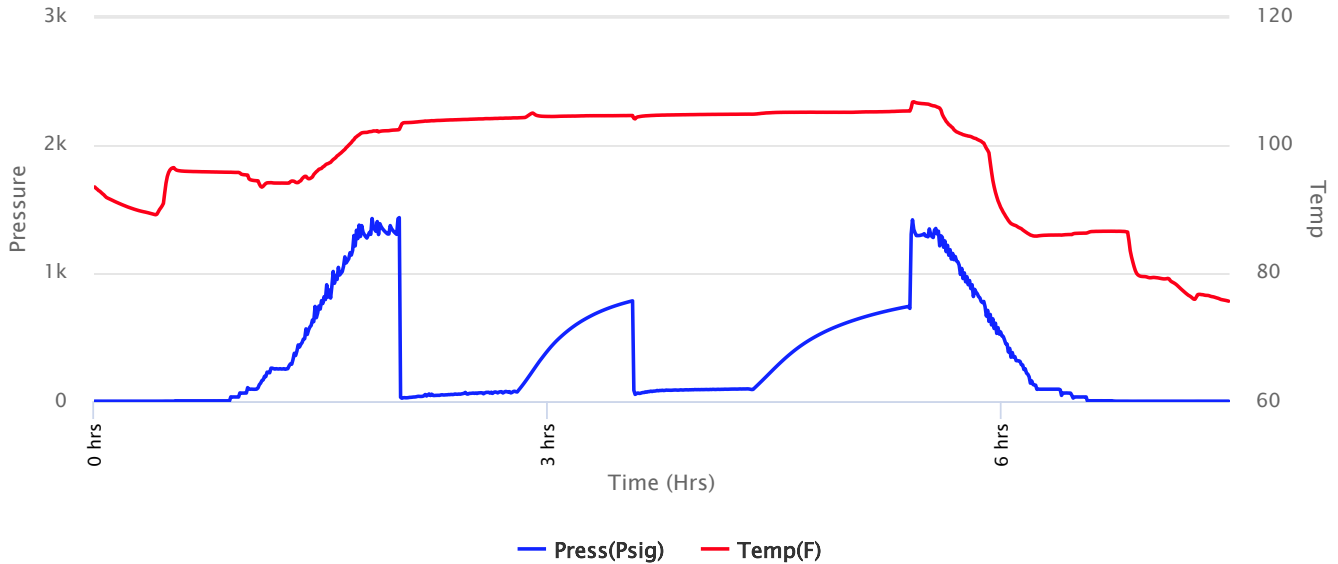
DST #4 Formation: Lans F Test Interval: 2652 - 2689' Total Depth: 2689'

Time On: 21:26 08/21 Time Off: 04:43 08/22
Time On Bottom: 23:24 08/21 Time Off Bottom: 02:39 08/22

Electronic Volume Estimate:
1313'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 45	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 97.6" at 45 min	Current Reading: .7" at 45 min	Current Reading: 113" at 45 min	Current Reading: 0" at 60 min
Max Reading: 97.6"	Max Reading: .7"	Max Reading: 113"	Max Reading: 0"

Inside Recorder





Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

#1

Operation:
 Uploading recovery & pressures

DATE
 August
21
 2023

DST #4 Formation: Lans F Test Interval: 2652 - 2689' Total Depth: 2689'

Time On: 21:26 08/21 Time Off: 04:43 08/22
 Time On Bottom: 23:24 08/21 Time Off Bottom: 02:39 08/22

Recovered

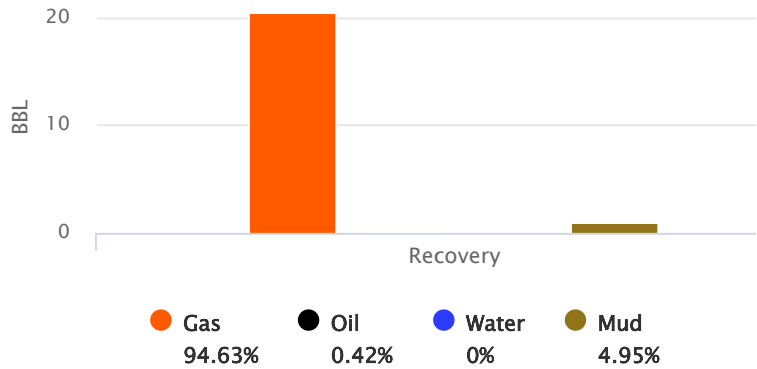
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1423	20.24929	G	100	0	0	0
32	0.44605	SLGCM	5	0	0	95
122	0.60024	SLOCSLGCM	15	10	0	75
61	0.30012	SLOGCW	25	10	0	65

Total Recovered: 1638 ft
 Total Barrels Recovered: 21.5957

Reversed Out
 NO

Initial Hydrostatic Pressure	1303	PSI
Initial Flow	24 to 73	PSI
Initial Closed in Pressure	784	PSI
Final Flow Pressure	54 to 93	PSI
Final Closed in Pressure	740	PSI
Final Hydrostatic Pressure	1300	PSI
Temperature	106	°F
Pressure Change Initial Close / Final Close	5.7	%

Recovery at a glance



GIP cubic foot volume: 114.74162



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery &
pressures

DATE
August
21
2023

DST #4 Formation: Lans F Test Interval: 2652 - Total Depth: 2689'
2689'

Time On: 21:26 08/21 Time Off: 04:43 08/22
Time On Bottom: 23:24 08/21 Time Off Bottom: 02:39 08/22

BUCKET MEASUREMENT:

1st Open: 1" Blow. BOB in 1 minutes
1st Close: 3/4" Blow Back
2nd Open: BOB Instantly
2nd Close: NOBB

REMARKS:

Tool Sample: 10% Gas 5% Oil 0% Water 85% Mud



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery & pressures

DATE
August
21
2023

DST #4 Formation: Lans F Test Interval: 2652 - 2689' Total Depth: 2689'

Time On: 21:26 08/21 Time Off: 04:43 08/22
Time On Bottom: 23:24 08/21 Time Off Bottom: 02:39 08/22

Down Hole Makeup

Heads Up: 3.689999999999999 FT	Packer 1: 2647 FT
Drill Pipe: 2446.53 FT <i>ID-3 1/2</i>	Packer 2: 2652 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 2639 FT
Collars: 184 FT <i>ID-2 1/4</i>	Bottom Recorder: 2654 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 37	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 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): 36 FT <i>4 1/2-FH</i>	



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery &
pressures

DATE
August
21
2023

DST #4 Formation: Lans F Test Interval: 2652 - Total Depth: 2689'
2689'

Time On: 21:26 08/21 Time Off: 04:43 08/22
Time On Bottom: 23:24 08/21 Time Off Bottom: 02:39 08/22

Mud Properties

Mud Type: Chem **Weight:** 9.1 **Viscosity:** 48 **Filtrate:** 10.6 **Chlorides:** 5000 ppm



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery &
pressures

DATE
August
21
2023

DST #4 Formation: Lans F Test Interval: 2652 - Total Depth: 2689'
2689'
Time On: 21:26 08/21 Time Off: 04:43 08/22
Time On Bottom: 23:24 08/21 Time Off Bottom: 02:39 08/22

Gas Volume Report

1st Open

2nd Open

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

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



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery & pressures

DATE
August
22
2023

DST #5 Formation: Lans G Test Interval: 2691 - 2701' Total Depth: 2701'

Time On: 11:29 08/22 Time Off: 18:23 08/22
Time On Bottom: 12:46 08/22 Time Off Bottom: 15:46 08/22

Electronic Volume Estimate:
307'

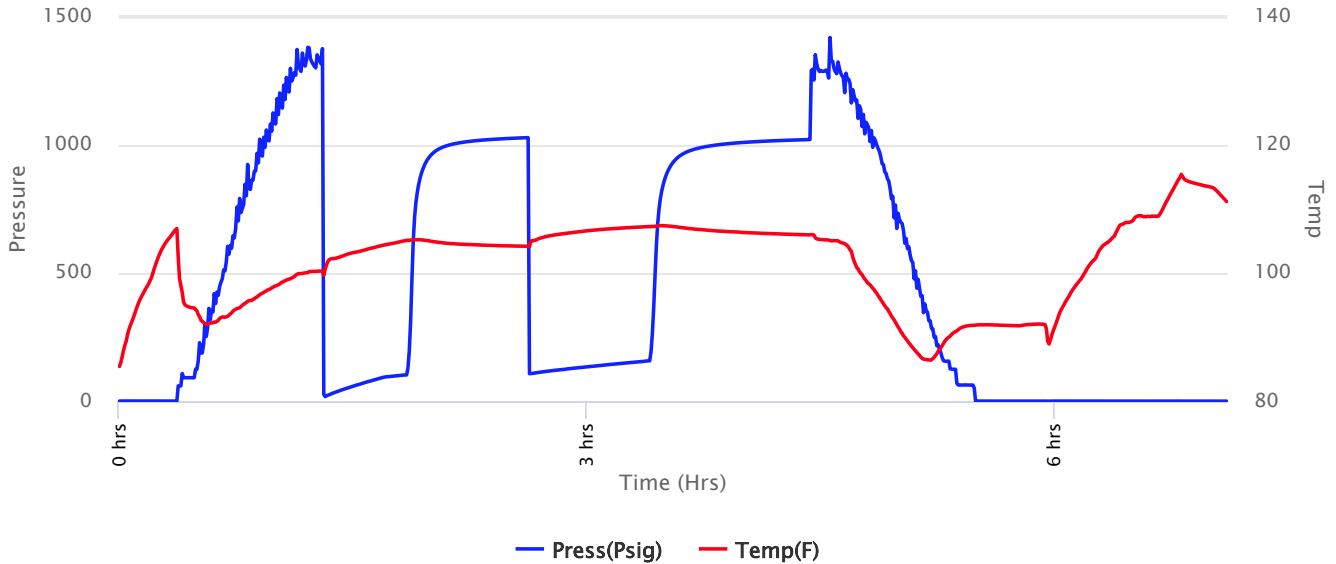
1st Open
Minutes: 30
Current Reading:
21.5" at 30 min
Max Reading: 21.5"

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

2nd Open
Minutes: 45
Current Reading:
6.6" at 45 min
Max Reading: 6.6"

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

Inside Recorder





Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

#1

Operation:
 Uploading recovery & pressures

DATE
 August
22
 2023

DST #5 Formation: Lans G Test Interval: 2691 - 2701' Total Depth: 2701'

Time On: 11:29 08/22 Time Off: 18:23 08/22
 Time On Bottom: 12:46 08/22 Time Off Bottom: 15:46 08/22

Recovered

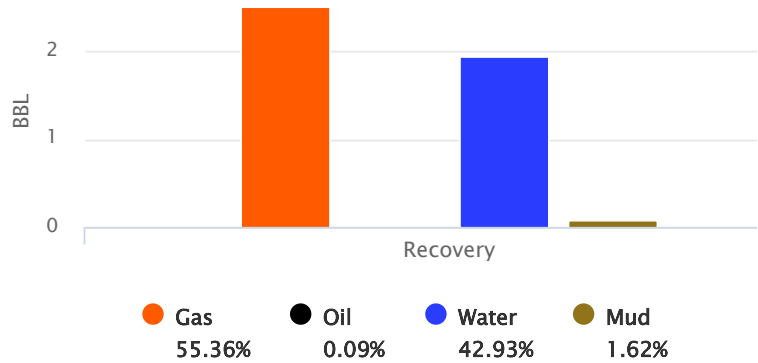
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
126	1.79298	G	100	0	0	0
3	0.04269	SLOCHMCW	0	10	45	45
63	0.89649	WCG	80	0	20	0
247	1.80177	SLMCW	0	0	97	3

Total Recovered: 439 ft
 Total Barrels Recovered: 4.53393

Reversed Out
 NO

Initial Hydrostatic Pressure	1301	PSI
Initial Flow	19 to 103	PSI
Initial Closed in Pressure	1029	PSI
Final Flow Pressure	108 to 158	PSI
Final Closed in Pressure	1022	PSI
Final Hydrostatic Pressure	1299	PSI
Temperature	108	°F
Pressure Change Initial Close / Final Close	0.7	%

Recovery at a glance



GIP cubic foot volume: 14.09336



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery & pressures

DATE
August
22
2023

DST #5 Formation: Lans G Test Interval: 2691 - 2701' Total Depth: 2701'

Time On: 11:29 08/22 Time Off: 18:23 08/22
Time On Bottom: 12:46 08/22 Time Off Bottom: 15:46 08/22

BUCKET MEASUREMENT:

1st Open: 1/2" Blow BOB in 13 minutes
1st Close: NOBB
2nd Open: 1/2" Blow. Built to 6 3/4 inch in 45 minutes
2nd Close: NOBB

REMARKS:

Bottom Recorder had a upload issues.

Tool Sample: 0% Gas 1% Oil 90% Water 9% Mud

Ph: 7

Measured RW: .09 @ 110 degrees °F

RW at Formation Temp: 0.092 @ 108 °F

Chlorides: 90000 ppm



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

#1

Operation:
 Uploading recovery & pressures

DATE
 August
22
 2023

DST #5 Formation: Lans G Test Interval: 2691 - 2701' Total Depth: 2701'
 Time On: 11:29 08/22 Time Off: 18:23 08/22
 Time On Bottom: 12:46 08/22 Time Off Bottom: 15:46 08/22

Down Hole Makeup

Heads Up: 28.9 FT	Packer 1: 2686 FT
Drill Pipe: 2510.74 FT <i>ID-3 1/2</i>	Packer 2: 2691 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 2678 FT
Collars: 184 FT <i>ID-2 1/4</i>	Bottom Recorder: 2693 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 10	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 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): 9 FT <i>4 1/2-FH</i>	



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery &
pressures

DATE
August
22
2023

DST #5 Formation: Lans G Test Interval: 2691 - Total Depth: 2701'
2701'

Time On: 11:29 08/22 Time Off: 18:23 08/22
Time On Bottom: 12:46 08/22 Time Off Bottom: 15:46 08/22

Mud Properties

Mud Type: Chem **Weight:** 9.2 **Viscosity:** 48 **Filtrate:** 9.8 **Chlorides:** 6000 ppm



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery &
pressures

DATE
August
22
2023

DST #5 Formation: Lans G Test Interval: 2691 - 2701' Total Depth: 2701'

Time On: 11:29 08/22 Time Off: 18:23 08/22
Time On Bottom: 12:46 08/22 Time Off Bottom: 15:46 08/22

Gas Volume Report

1st Open

2nd Open

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

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



Company: LB Exploration, Inc. Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

#1

Operation:
Uploading recovery & pressures

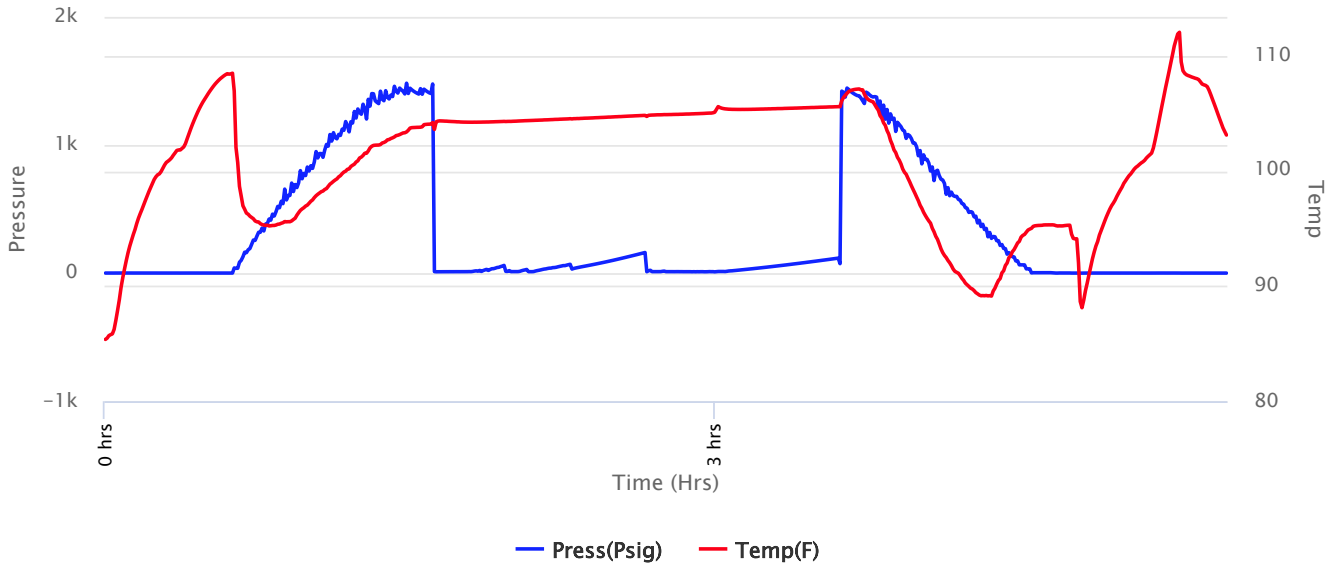
DATE
August
23
2023

DST #6 **Formation: M zone / Odessa A** **Test Interval: 2890 - 2980'** **Total Depth: 2980'**
Time On: 11:51 08/23 Time Off: 17:13 08/23
Time On Bottom: 13:26 08/23 Time Off Bottom: 15:16 08/23

Electronic Volume Estimate:
3'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 30	Minutes: 20	Minutes: 30
Current Reading: .25" at 30 min	Current Reading: 0" at 30 min	Current Reading: .2" at 20 min	Current Reading: 0" at 30 min
Max Reading: .25"	Max Reading: 0"	Max Reading: .2"	Max Reading: 0"

Inside Recorder





Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

#1

Operation:
 Uploading recovery & pressures

DATE
 August
23
 2023

DST #6 **Formation: M zone / Odessa A** **Test Interval: 2890 - 2980'** **Total Depth: 2980'**
 Time On: 11:51 08/23 Time Off: 17:13 08/23
 Time On Bottom: 13:26 08/23 Time Off Bottom: 15:16 08/23

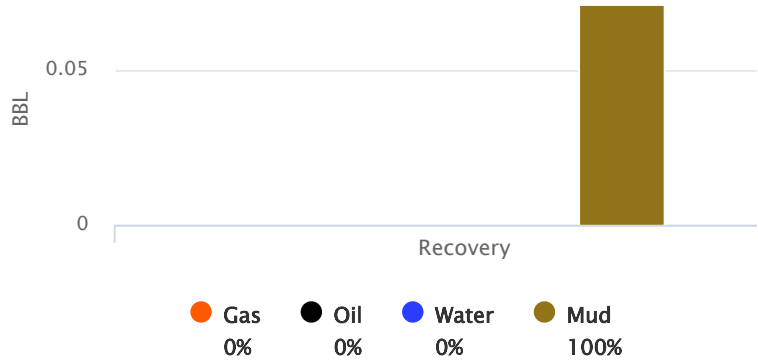
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.07115	M	0	0	0	100

Total Recovered: 5 ft
 Total Barrels Recovered: 0.07115

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1403	PSI
Initial Flow	11 to 12	PSI
Initial Closed in Pressure	161	PSI
Final Flow Pressure	11 to 11	PSI
Final Closed in Pressure	117	PSI
Final Hydrostatic Pressure	1401	PSI
Temperature	106	°F
Pressure Change Initial Close / Final Close	27.3	%

GIP cubic foot volume: 0

OPERATOR

Company: LB Exploration, Inc.
 Address: 2135 2nd Road
 Holyrood, KS 67450-9021

Contact Geologist: Jim Musgrove
 Contact Phone Nbr: 620-786-0839
 Well Name: Prochaska/Rathbun Unit #1
 Location: 9-16s-8w SW-SE-SE-SE
 API: 15-053-21389-00-00
 Pool:
 State: Kansas

Field: Wildcat
 Country: USA

Scale 1:240 Imperial

Well Name: Prochaska/Rathbun Unit #1
 Surface Location: 9-16s-8w SW-SE-SE-SE
 Bottom Location:
 API: 15-053-21389-00-00
 License Number: 33186
 Spud Date: 8/16/2023 Time: 12:00 AM
 Region: Ellsworth
 Drilling Completed: 8/25/2023 Time: 12:00 AM
 Surface Coordinates: 153' FNL & 381' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1613.00ft
 K.B. Elevation: 1623.00ft
 Logged Interval: 1000.00ft To: 3059.00ft
 Total Depth: 3060.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

CASING SUMMARY

	Surface	Intermediate	Main		
Bit Size					
Hole Size					
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8 5/8" in	223 ft			
Int Casing					
Prod Casing	None in	None ft			

CASING SEQUENCE

Type	Hole Size	Casing Size	At
	0.00 in	0.00	0.00 ft

OPEN HOLE LOGS

Logging Company: Midwest Wireline
 Logging Engineer: T. Martin
 Truck #:
 Logging Date:
 # Logs Run: 0
 Time Spent:
 # Logs Run Successful: 0

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
	0.00ft	0.00ft	0.00		0

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
12/5/2007	0.00ft	0.00ft	

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 153' FNL

Conglomerate	2973	-1350								
Arbuckle	3007	-1384								
Log Total Depth	3059	-1436		2726	-1105		-331	2715	-1103	-333
Rotary Total Depth	3060	-1437		2726	-1105		-332	2715	-1103	-334



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

Operation:
 Uploading recovery & pressures

#1

DATE
 August
18
 2023

DST #1 Formation: Chase Test Interval: 987 - 1101' Total Depth: 1101'

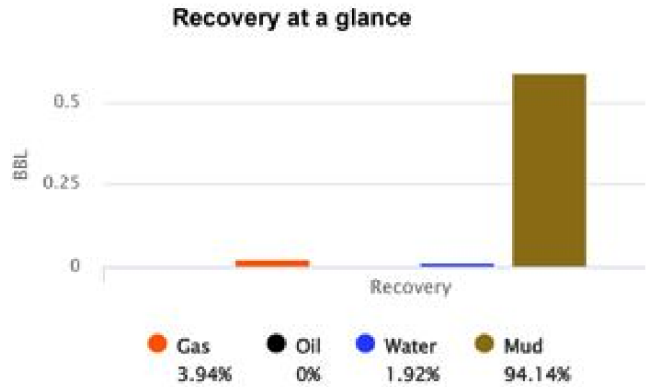
Time On: 23:37 08/18 Time Off: 06:13 08/18
 Time On Bottom: 01:01 08/18 Time Off Bottom: 04:16 08/18

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
5	0.0246	G	100	0	0	0
122	0.60024	SLWCM	0	0	2	98

Total Recovered: 127 ft
 Total Barrels Recovered: 0.62484

Reversed Out
 NO

Initial Hydrostatic Pressure	430	PSI
Initial Flow	14 to 22	PSI
Initial Closed in Pressure	59	PSI
Final Flow Pressure	19 to 44	PSI
Final Closed in Pressure	60	PSI
Final Hydrostatic Pressure	431	PSI
Temperature	88	°F
Pressure Change Initial Close / Final Close	0.0	%



GIP cubic foot volume: 0.13812



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

Operation:
 Uploading recovery & pressures

#1

DATE
 August
19
 2023

DST #2 Formation: Tarkio Sand Test Interval: 1822 - 1860' Total Depth: 1860'

Time On: 10:24 08/19 Time Off: 16:03 08/19
 Time On Bottom: 11:45 08/19 Time Off Bottom: 14:15 08/19

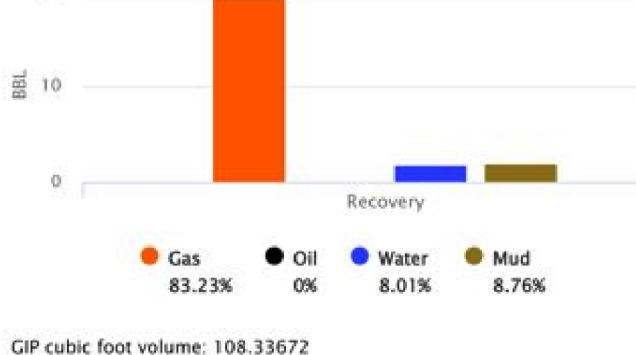
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
1356	19.29588	G	100	0	0	0
126	1.79298	M	0	0	0	100
63	0.889973	MCW	0	0	80	20
245	1.2054	SLMCW	0	0	95	5

Total Recovered: 1790 ft
 Total Barrels Recovered: 23.184233

Reversed Out
 NO



Initial Hydrostatic Pressure	838	PSI
Initial Flow	44 to 84	PSI
Initial Closed in Pressure	499	PSI
Final Flow Pressure	99 to 191	PSI
Final Closed in Pressure	505	PSI
Final Hydrostatic Pressure	839	PSI
Temperature	92	°F
Pressure Change Initial Close / Final Close	0.0	%



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

Operation:
 Uploading recovery & pressures

#1

DATE
 August
21
 2023

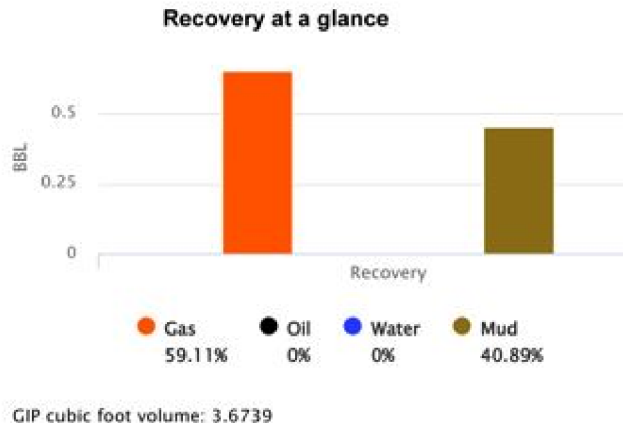
DST #3 **Formation: Douglas** **Test Interval: 2495 - 2509'** **Total Depth: 2509'**
 Time On: 04:17 08/21 Time Off: 09:39 08/21
 Time On Bottom: 05:28 08/21 Time Off Bottom: 07:58 08/21

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
133	0.65436	G	100	0	0	0
92	0.45264	M	0	0	0	100

Total Recovered: 225 ft
 Total Barrels Recovered: 1.107

Reversed Out
 NO

Initial Hydrostatic Pressure	1235	PSI
Initial Flow	15 to 26	PSI
Initial Closed in Pressure	738	PSI
Final Flow Pressure	30 to 51	PSI
Final Closed in Pressure	760	PSI
Final Hydrostatic Pressure	1235	PSI
Temperature	102	°F
Pressure Change Initial Close / Final Close	0.0	%



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

Operation:
 Uploading recovery & pressures

#1

DATE
 August
21
 2023

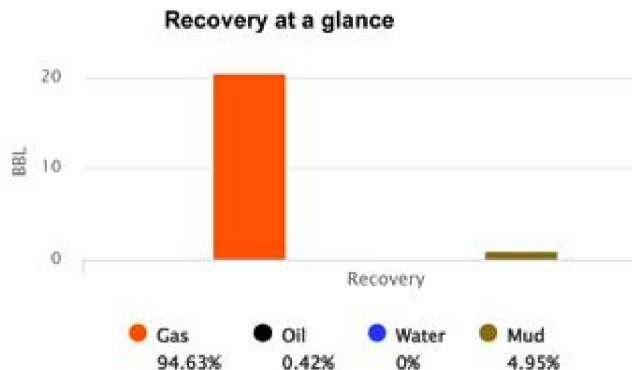
DST #4 **Formation: Lans F** **Test Interval: 2652 - 2689'** **Total Depth: 2689'**
 Time On: 21:26 08/21 Time Off: 04:43 08/22
 Time On Bottom: 23:24 08/21 Time Off Bottom: 02:39 08/22

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
1423	20.24929	G	100	0	0	0
32	0.44605	SLGCM	5	0	0	95
122	0.60024	SLOCSLGCM	15	10	0	75
61	0.30012	SLOGCW	25	10	0	65

Total Recovered: 1638 ft
Total Barrels Recovered: 21.5957

Reversed Out
NO

Initial Hydrostatic Pressure	1303	PSI
Initial Flow	24 to 73	PSI
Initial Closed in Pressure	784	PSI
Final Flow Pressure	54 to 93	PSI
Final Closed in Pressure	740	PSI
Final Hydrostatic Pressure	1300	PSI
Temperature	106	°F
Pressure Change Initial Close / Final Close	5.7	%



GIP cubic foot volume: 114,74162



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit #1

SEC: 9 TWN: 16S RNG: 8W
County: ELLSWORTH
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1612 EGL
Field Name: Ellsworth
Pool: Infield
Job Number: 681
API #: 15-053-21389

Operation:
Uploading recovery & pressures

DATE
August
22
2023

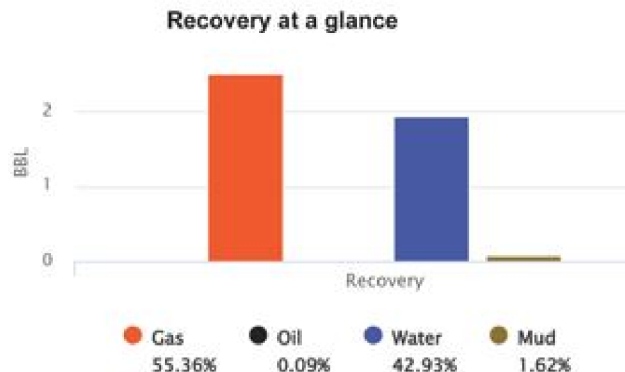
DST #5 **Formation: Lans G** **Test Interval: 2691 - 2701'** **Total Depth: 2701'**
Time On: 11:29 08/22 Time Off: 18:23 08/22
Time On Bottom: 12:46 08/22 Time Off Bottom: 15:46 08/22

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
126	1.79298	G	100	0	0	0
3	0.04269	SLOCHMCW	0	10	45	45
63	0.89649	WCG	80	0	20	0
247	1.80177	SLMCW	0	0	97	3

Total Recovered: 439 ft
Total Barrels Recovered: 4.53393

Reversed Out
NO

Initial Hydrostatic Pressure	1301	PSI
Initial Flow	19 to 103	PSI
Initial Closed in Pressure	1029	PSI
Final Flow Pressure	108 to 158	PSI
Final Closed in Pressure	1022	PSI
Final Hydrostatic Pressure	1299	PSI
Temperature	108	°F
Pressure Change Initial Close / Final Close	0.7	%



GIP cubic foot volume: 14.09336



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit
#1

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

Operation:
 Uploading recovery & pressures

DATE
 August
23
 2023

DST #6 **Formation: M zone / Odessa A** **Test Interval: 2890 - 2980'** **Total Depth: 2980'**
 Time On: 11:51 08/23 Time Off: 17:13 08/23
 Time On Bottom: 13:26 08/23 Time Off Bottom: 15:16 08/23

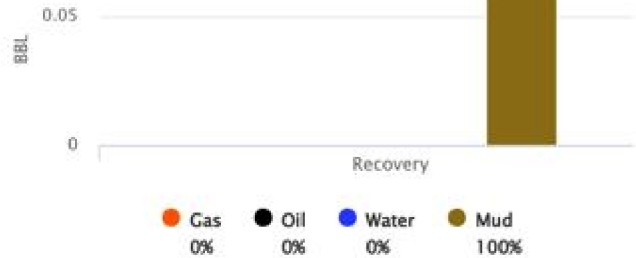
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
5	0.07115	M	0	0	0	100

Total Recovered: 5 ft
 Total Barrels Recovered: 0.07115

Reversed Out
 NO

Initial Hydrostatic Pressure	1403	PSI
Initial Flow	11 to 12	PSI
Initial Closed in Pressure	161	PSI
Final Flow Pressure	11 to 11	PSI
Final Closed in Pressure	117	PSI
Final Hydrostatic Pressure	1401	PSI
Temperature	106	°F
Pressure Change Initial Close / Final Close	27.3	%

Recovery at a glance



GIP cubic foot volume: 0



Company: LB Exploration, Inc.
Lease: Prochaska/Rathbun Unit
#1

SEC: 9 TWN: 16S RNG: 8W
 County: ELLSWORTH
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1612 EGL
 Field Name: Ellsworth
 Pool: Infield
 Job Number: 681
 API #: 15-053-21389

Operation:
 Uploading recovery & pressures

DATE
 August
24
 2023

DST #7 **Formation: Douglas** **Test Interval: 2486 - 2517'** **Total Depth: 3059'**
 Time On: 15:08 08/24 Time Off: 21:44 08/24
 Time On Bottom: 16:46 08/24 Time Off Bottom: 17:51 08/24

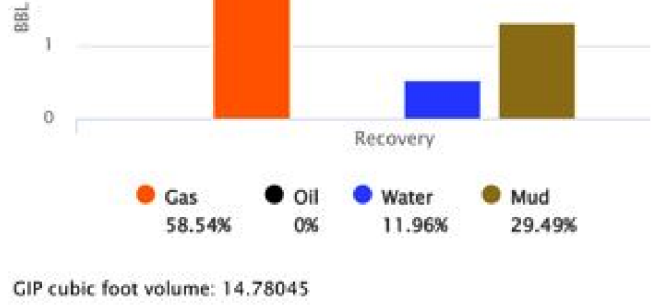
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
185	2.63255	G	100	0	0	0
5	0.07115	M	0	0	0	100
63	0.89649	SLWCM	0	0	10	90
63	0.89649	HMCW	0	0	50	50

Total Recovered: 316 ft
 Total Barrels Recovered: 4.49668

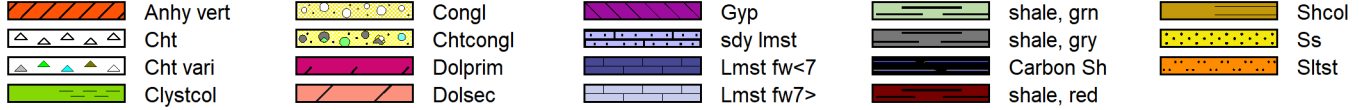
Reversed Out
 NO

Recovery at a glance

Initial Flow 25 to 57 PSI
 Initial Closed in Pressure 845 PSI
 Final Flow Pressure 65 to 72 PSI
 Final Closed in Pressure 698 PSI
 Final Hydrostatic Pressure 1207 PSI
 Temperature 103 °F
 Pressure Change Initial Close / Final Close 17.4 %



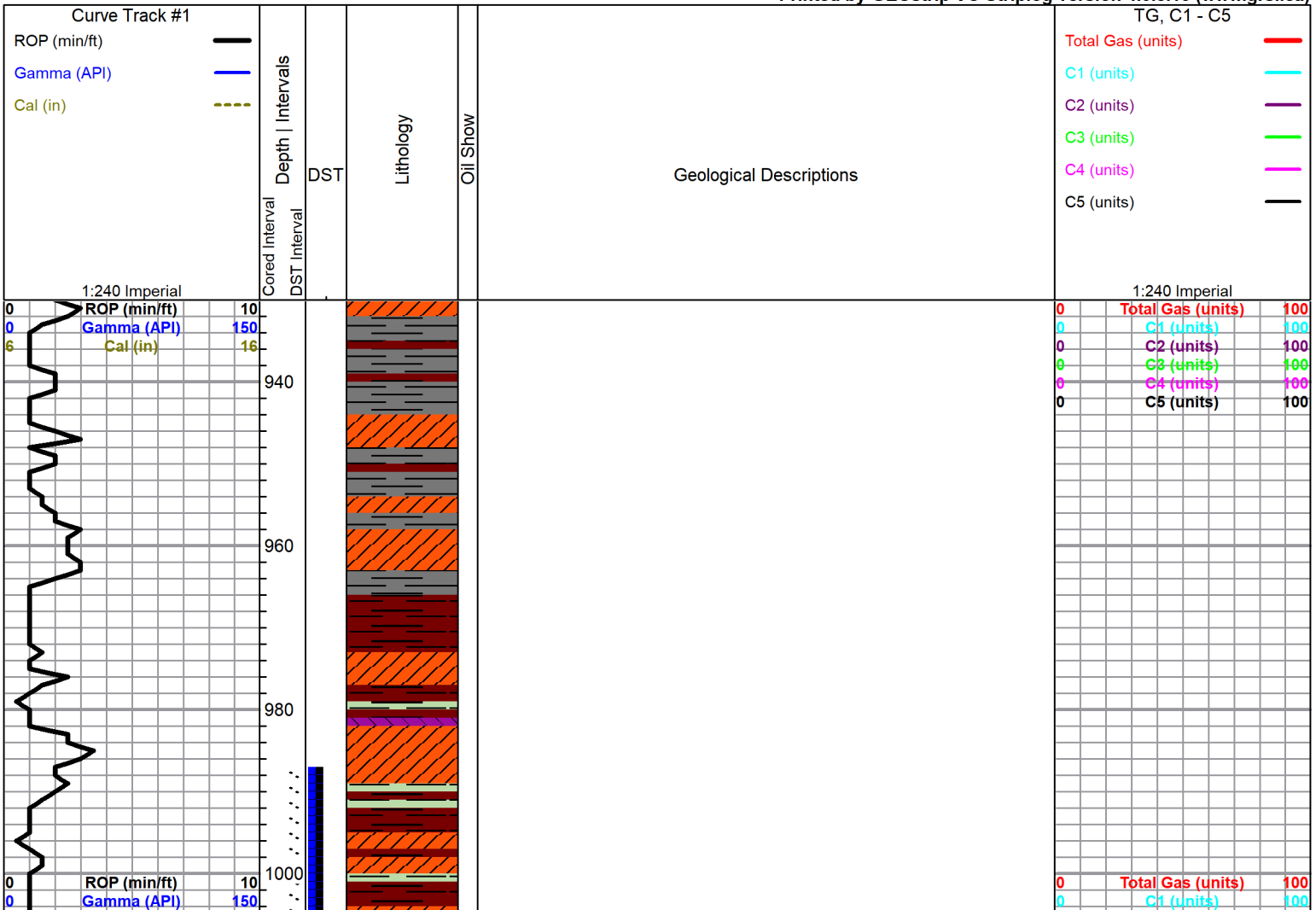
ROCK TYPES

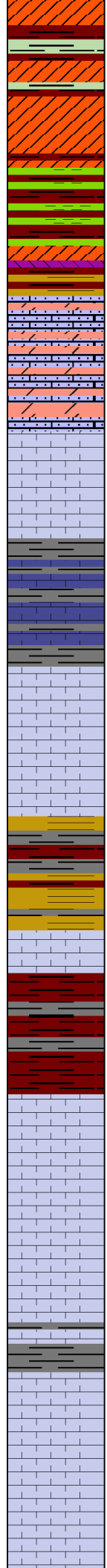
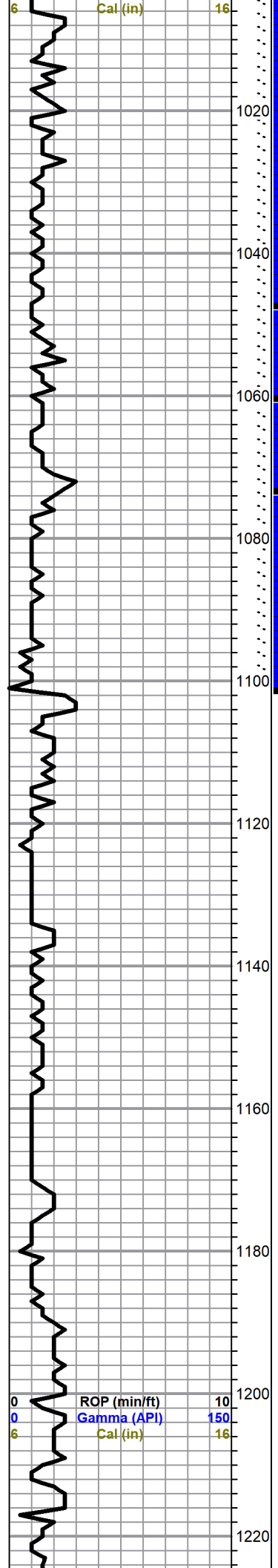


OTHER SYMBOLS

- | | | |
|------------------|--------------------|------------|
| INTERVALS | Oil Show | DST |
| ■ Core | ● Good Show | ■ DST Int |
| · DST | ● Fair Show | ■ DST alt |
| | ● Poor Show | ■ Core |
| | ○ Spotted or Trace | tail pipe |
| | ○ Questionable Stn | |
| | D Dead Oil Stn | |
| | ■ Fluorescence | |
| | * Gas | |

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





Shale, red, rusty brown, green, with anhy. and gyp.

as above

CHASE 1046

Limestone, gray, dark gray, dolomitic, scattered porosity, with gray, fossiliferous chert
(40 unit gas kick)

PIPE STRAP@ 1070 INDICATES 31' DOWNHOLE CORRECTION ALL DRILLING TIME AND TOPS ARE CORRECTED

WINFIELD 1096

Limestone, gray, bioclastic, fair porosity, (barren)

Shale, gray, rusty brown, soft

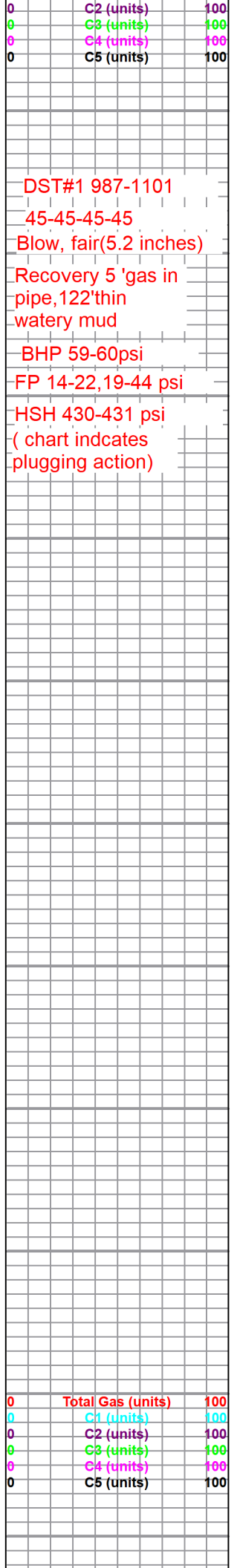
TOWANDA 1160

Limestone, gray, mottled, foss., chalky

as above

FORT RILEY 1200

Limestone, white, gray, highly fossiliferous, good fossil cast to vuggy type porosity..no shows



DST#1 987-1101

45-45-45-45

Blow, fair(5.2 inches)

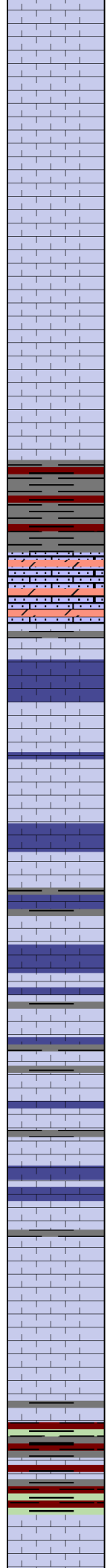
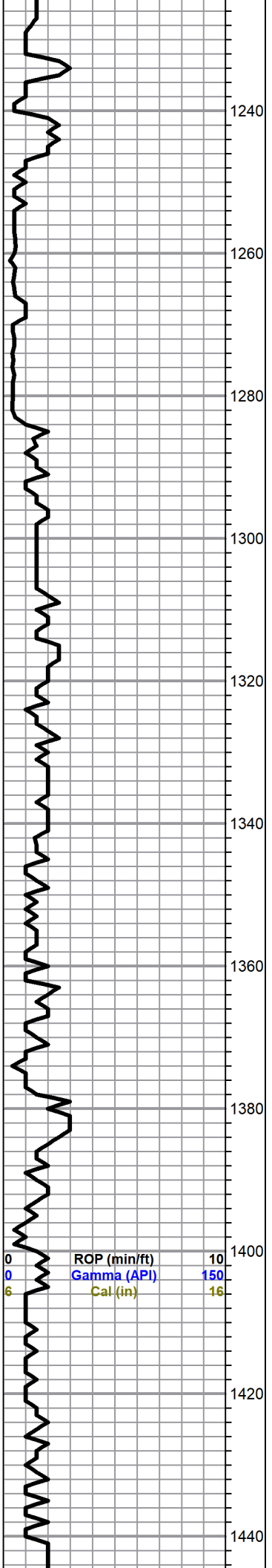
Recovery 5 'gas in pipe, 122'thin watery mud

BHP 59-60psi

FP 14-22, 19-44 psi

HSH 430-431 psi
(chart indicates plugging action)

0 Total Gas (units) 100
 0 C1 (units) 100
 0 C2 (units) 100
 0 C3 (units) 100
 0 C4 (units) 100
 0 C5 (units) 100



as above

Limestone,gray,light gray,bioclastic,good vuggy type porosity..no shows

as above with fossiliferous Chert

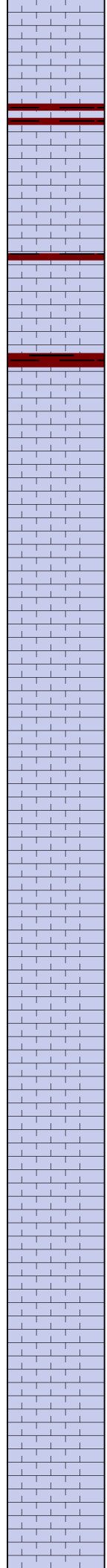
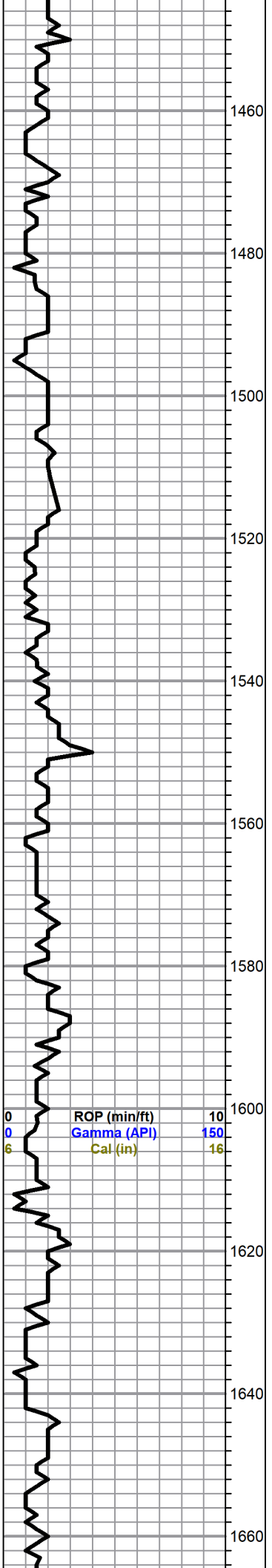
as above dolomitic in part

Limetone,gray,white,foss in part chalky

Limestone,gray,foss, dense

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100

0	ROP (min/ft)	10
0	Gamma (API)	150
6	Cal (in)	16

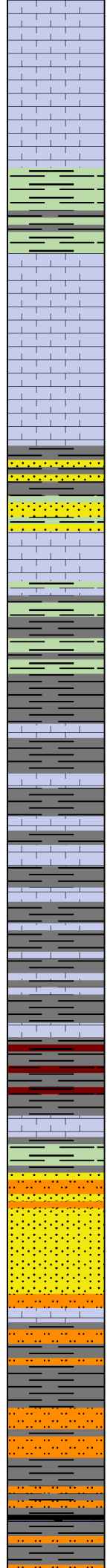
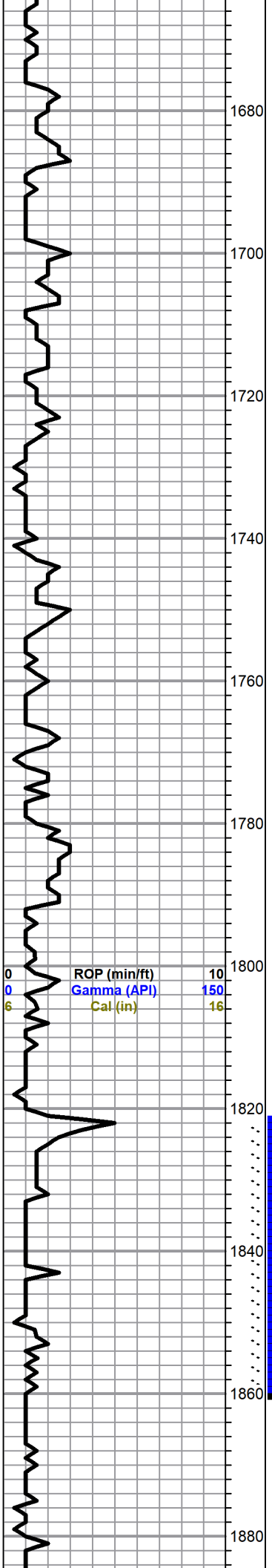


Limestone, gray, foss, good porosity, no shows

as above chalky

Limestone and shales as above

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100



Shales,gray,lime green,soft

Limestone,white,gray,chalky

Shales,gray,silty, trace poorly developed sand

Shale,gray,rusty brown,silty

GRAND HAVEN 1821

Limestone,white,gray,dense

1ST Tarkio Sand 1834

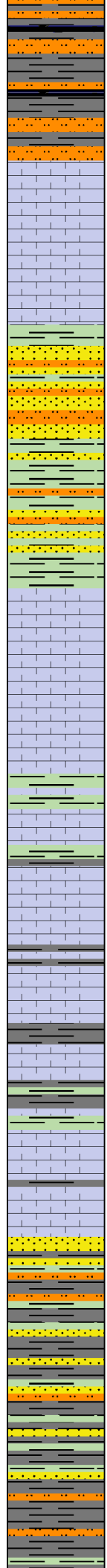
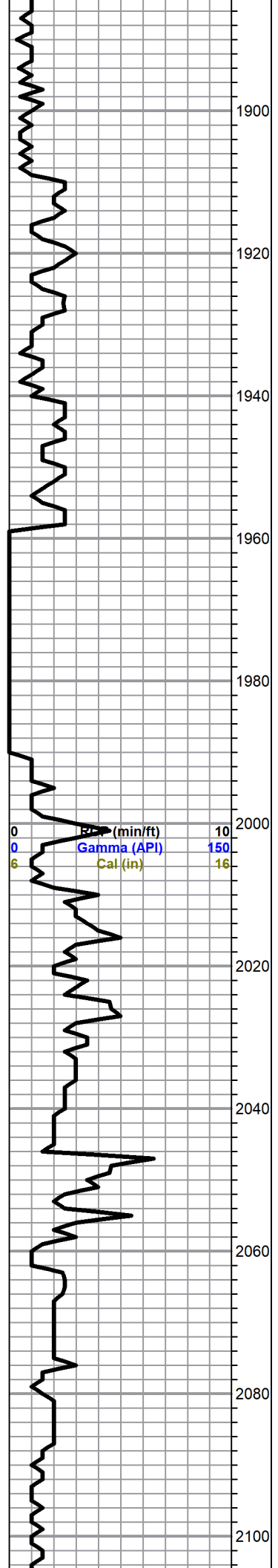
Sand,gray,grayish green,vfg,micaeous,friable, fair
 intregranular porosity trace gas bubbles

(45-60 Unit gas kick)

Shale,gray,dark gray silty

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100

DST#2 1822-1860
 15-15-45-45
 Blow, Strong
 Recovery, Gas to
 surface, 45 mins
 second open, T.S.T.M.
 1356;gas in
 pipe,126'mud,63'mud
 cut water (80%
 water,20% mud) 245'
 muddy water(95%
 water,5% mud)
 BHP 499-505 psi
 FP 44-84,99-191 psi
 HSH 838-839 psi



TARKIO LIME 1909 (-286)

Limestone,white,gray,chalky,poor visible porosity

Sand,gray,grayish green, micaeous,fair intergranular porosity, no show, no gas kick

clock stopped 1960-1990

Limestone,gray,tan, dense,chalky

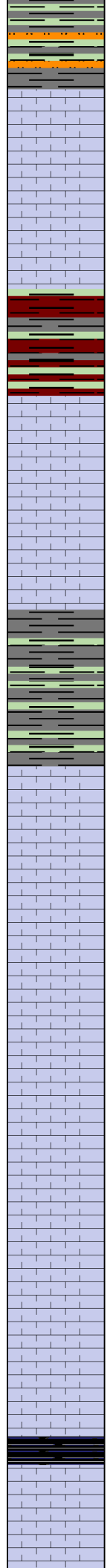
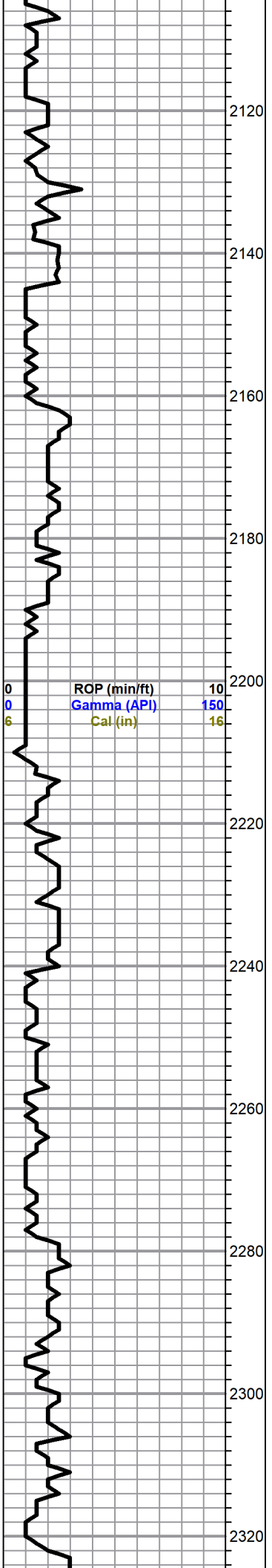
Limestone,gray,tan,foss,sparry calcite cement, poor porosity

Limestone,tan,dark gray,foss,slightly cherty,(dense)

Sand,gray,grayish green,mica,shaley,silty,poor visible porosity

ditto as above

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100



Limestone,tan,brown,fxln,slightly foss, chalky/cherty(dense)

Shale,gray,green,purple/gray,silty, soft

HOWARD 2161

Limestone,tan,gray,fxln, bioclastic,sparry calcite cement,poor visible porosity

SEVERY 2191(-568)

Shale,gray,grayish green,silty with pyrite

TOPEKA 2213(-590)

Limestone,tan,gray,fxln,fossiliferous,chalky

Limestone,tan,gray,foss,chalky, "crumbly",poor visible porosity,no shows

Limestone,tan,brown,dense

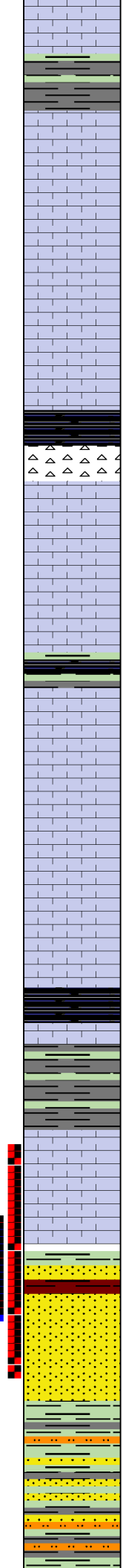
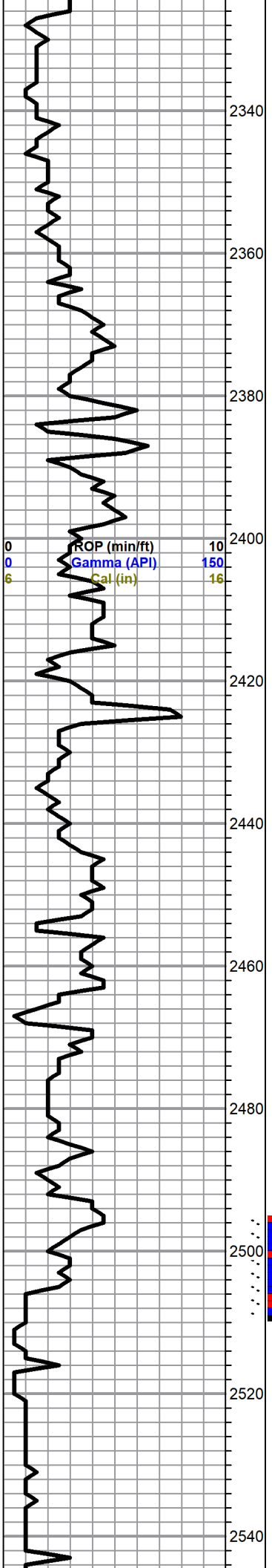
Limestone,tan,foss,bioclastic"hash",scattered porosity, no shows

KING HILL 2305(-682)

Shale,black carbonaceous

Limestone,tan,brown,foss, dense

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100



Shale,gray,dark gray,soft

Limestone,tan,fxln,foss, scattered porosity, no shows

Limestone,gray,tan,dense

QUEEN HILL 2382

Shale,black carbonaceous

Chert,coal black,boney,few with pyrite inclusions

Limestone,white,gray,granular,chalky,oolitic,poor visible porosity,no shows

Shale,gray,grayish green, black,limey

Limestone,white,gray,chalky,poor visible porosity

Limestone,gray, white,chalky

HEEBNER 2463(-840)

Shale,black carbonaceous,splintery

Shale,gray,green,soft

TORONTO 2485(-862)

Limestone,white,slightly foss,chalky,poor visible porosity

Trace gray, chert

DOUGLAS 2500(-877)

Sand,gray,grayish green,vfg,micaeous,scattered porosity,wth sand,red,shaley, micaeous,poorly developed (140 unit gas kick)

Sand,gray,grayish green, vfg,micaeous,friable ,fair to good porosity,trace gas bubbles

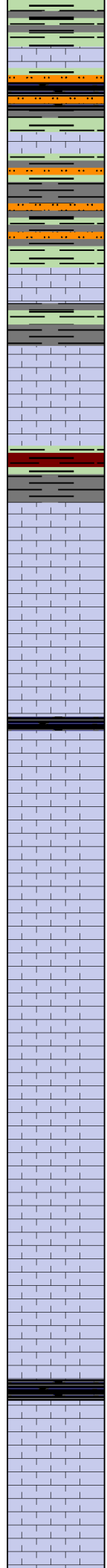
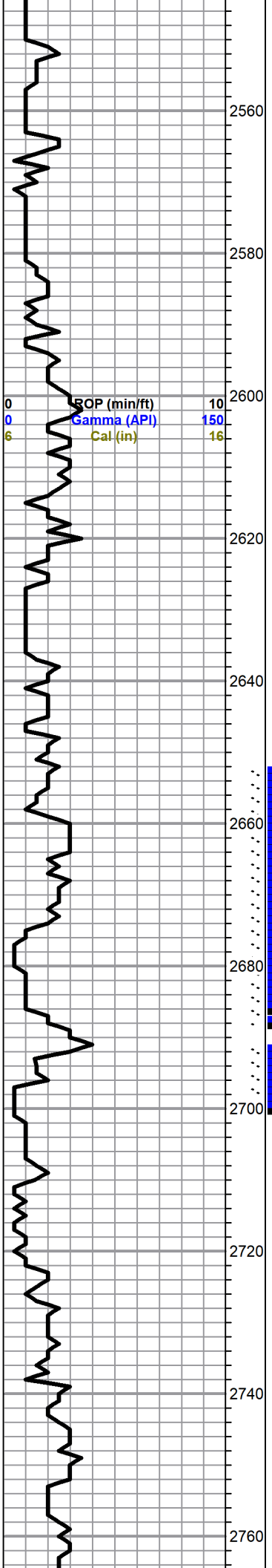
Shale,gray grayish green, silty with sand as above

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100

DST#3 2495-2509
 15-15-45-45
 Blow, Strong, no gas to surface
 Recovery 133'gas in pipe,92' mud
 BHP 738-760 psi
 FP 15-26,30-51 psi
 HSH 1235-1235 psi

DST #7 2486-2517 (Straddle Test)
 30-30-5-5

Blow,good



Limestone,tan, brown,dense

Shale,gray,dark gray micaeous,silty

Limestone,tan,brown,gray,dense

Shale,gray,grayish green, silty, abunt. iron pyrite

BROWN LIME 2581(-958)

Limestone,tan,brown,cherty,dense

LANSING 2594(-971)

Limestone,white,tan,fxln,chalky,few foss.dense

Limestone,tan,rose tinted,dense

Limestone,gray,tan,foss in part, poor visible porosity

Limestone,white,cream,gray,chalky,poor visible porosity
 Trace,white,gray,oolitic, opaque,chert

Limestone,white,gray,foss,chalky,poor visible porosity

Limestone,gry,highly oolitic,slightly chalky

Limestone,white,gray,cream,highly oolitic,fair to good porosity,brown and golden brown stain,show of free oil and faint odor
 (160 unit gas kick)

Limestone,gray,cream,oomoldic,fair oomoldic porosity,trace brown and golden brown stain,trace of free oil and good odor

Limestone,as above,,fair to good porosity,fair stain and saturation,show of free oil and good odor

Limestone,gray,tan,dense with gray, chert

Shale,black,carbonaceous

Limestone,tan,oolitic,slightly cherty,dense

Recovery, 185' gas in pipe,5 ' mud, 126' watery mud

BHP 845-698 psi
 FP 25-57,65-72 psi
 HSH 1207-1207 psi

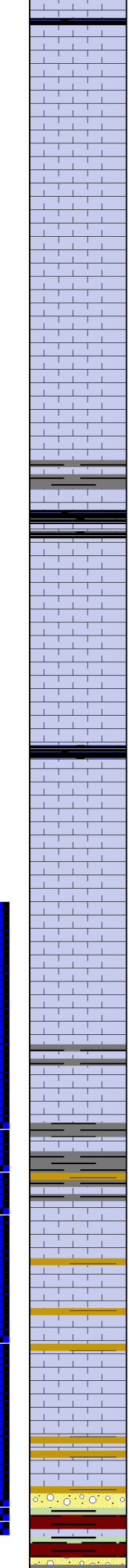
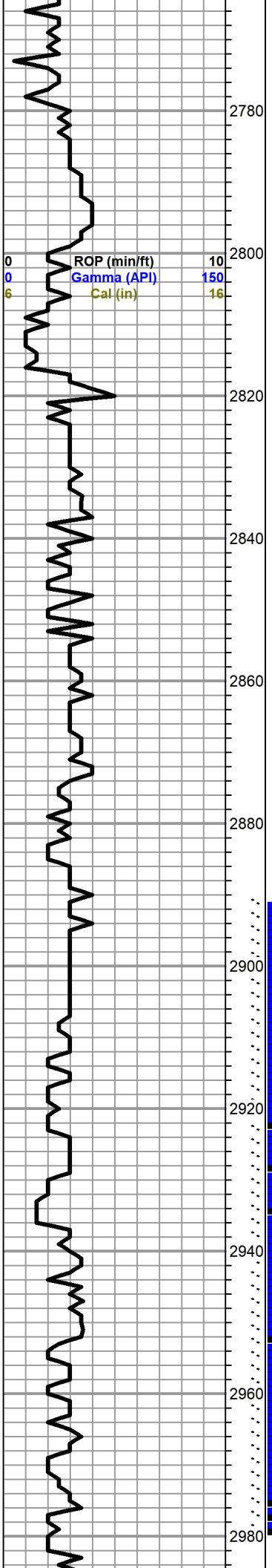
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100

DST#4 2652-2689
 45-45-45-45
 Blow, Strong
 Recovery 1423'gas in pipe,32'gas cut mud,122' very slightly oil and gas cut mud (15% gas,10% oil,75% mud),61 oil and gas cut mud (25% gas,10% oil,65% mud)

BHP 784-740 psi
 FP 24-73,54-93 psi
 HSH 1303-1300 psi

DST #5 2691-2701
 30-30-45-45
 Blow, Strong
 Recovery 126'gas in pipe,3' very slightly oil cut muddy water(10% gas,45%water,45% mud),310'muddy water

BHP 1029-1022 psi
 FP 19-103,108-158 psi
 HSH 1301-1299 psi



Shale,gray,black,with gray,black chert

Limestone,gray,white,fxln,foss,chalky in part,poor visible porosity

Limestone,gray,white,fxln,foss,chalky,poor visible porosity

Limestone,gray,highly oolitic, chalky,dense,

Limestone,gray,tan,fxln,slightly cherty,dense

Shale,black carbonaceous

Limestone,gray,white,foss,chalky, with white chalk

Shale,black carbonaceous

Limestone,gray,tan,fine and medium crystalline,slightly foss,chalky

Limestone,tan,gray,dense

Limestone,tan, chalky, poor pinpoint type porosity,trace poor stain, show of free oil and questionable odor

BASE KANSAS CITY 2914

Limestone,tan,foss,chalky,poor porosity,spotted brown stain, show of free oil and faint odor

Varied colored shales

Limestone,tan,gray,foss,dense

Limestone,gray,tan,yellow tinted

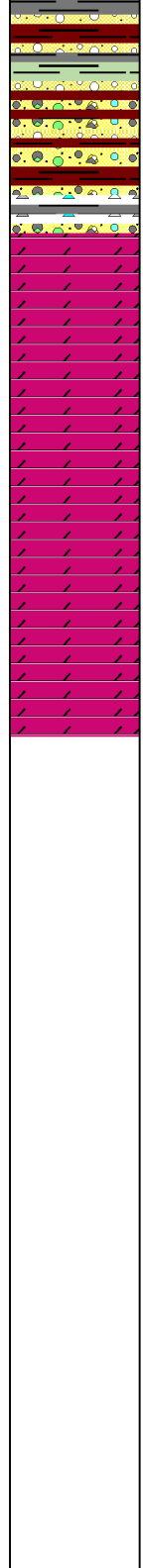
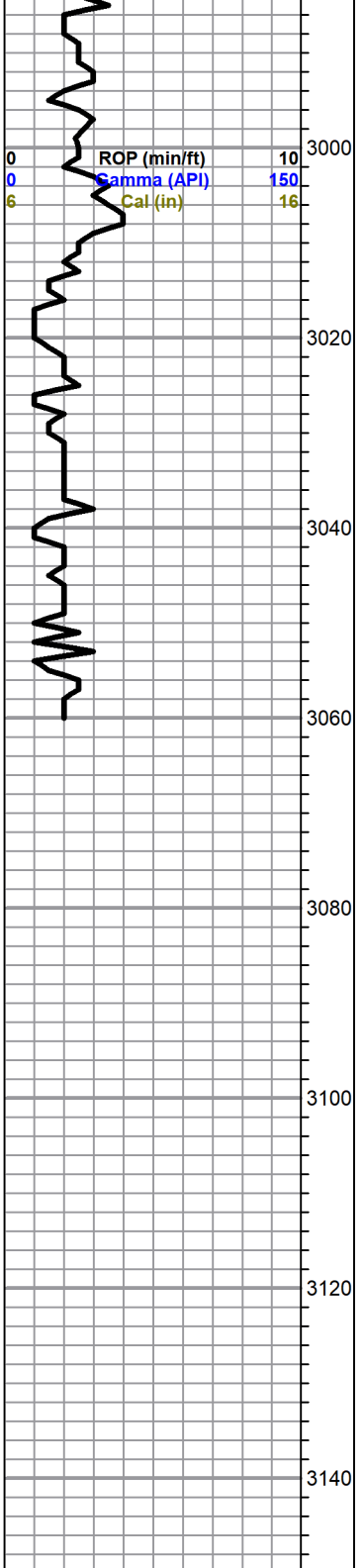
Limestone and shales as above

CONGLOMERATE 2972(-1349)

Shale,maroon,rusty brown,silty

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100

DST #6 2890-2980
 30-30-20-20
 Blow,weak
 Recovery 5' mud
 BHP 161-117 psi
 FP 11-12,11-11
 HSH 1403-1401 psi



Shale,gray,yellow,green,gray soft
 Chert,orange,yellow,white,gray, oolitic

ARBUCKLE 3011(-1388)

Dolomite,gray,white,fine and medium crystalline,sandy in part, scattered intercrystalline porosity..no shows

as above

Dolomite,gray,white,medium crystalline,fair to good intercrystalline porosity,sandy in part.. no shows

ROTARY TOTAL DEPTH 3060

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100