

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) (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: | |
|----------------|-------|---------|------------|--|

JOB LOG

SWIFT Services, Inc.

DATE 1-13-18 PAGE NO. 1

CUSTOMER Blue Ridge Petroleum WELL NO. # 1-9 LEASE Bowie JOB TYPE Surface TICKET NO. # 31187

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|---|
| | | | | T | C | TUBING | CASING | |
| | 1145 | | | | | | | on location 8 3/8" 24" |
| | | | | | | | | RTD-221 TP-222' |
| | 1145 | | | | | | | Rig Running 8 3/8" 24" |
| | 1230 | | | | | | | Break Circulation |
| | 1250 | 4 1/2 | 5 | | ✓ | 100 | | Pump 5 bbl water spacer |
| | 1255 | 4 1/2 | 36 | | ✓ | 100 | | mix 150 slts STD 2% Gel 3% cc @ 14.7 ppb |
| | 1305 | 4 | ∅ | | ✓ | 100 | | Start Displacement |
| | | 4 | 7 | | ✓ | 200 | | circulate cement to surface - * 30 slts * |
| | 1315 | ∅ | 13 1/2 | | ✓ | 200 | | Kick out Pump * Shut in * |
| | | | | | | | | wash up truck |
| | 1345 | | | | | | | Job Complete |

Thank You
Dave Preston Kirby

JOB LOG

SWIFT Services, Inc.

DATE 1-22-18 PAGE NO. 1

CUSTOMER BLUERIDGE PETROLEUM WELL NO. 1-9 LEASE BOWIE JOB TYPE PTA TICKET NO. 30812

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL/SAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|------------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 1745 | | | | | | | ON LOCATION |
| | | | | | | | | TD - 4477 (7 7/8 HOLE) 8 5/8 - 221' |
| | 1815 | | 13 | | | | | 1 ST PLUG - 50 SKS CEMENT @ 1550' |
| | 1915 | | 20 | | | | | 2 ND PLUG - 75 SKS CEMENT @ 650' |
| | 2000 | | 10 1/2 | | | | | 3 RD PLUG - 40 SKS CEMENT @ 240' |
| | 2045 | | 5 1/4 | | | | | 4 TH PLUG - 20 SKS CEMENT @ 60' |
| | 2100 | | 8 | | | | | 5 TH PLUG - 30 SKS CEMENT @ RH |
| | | | | | | | | WASH TRUCK |
| | 2200 | | | | | | | JOB COMPLETE |
| | | | | | | | | THANK YOU WAYNE, DAVE K., ISAAC |



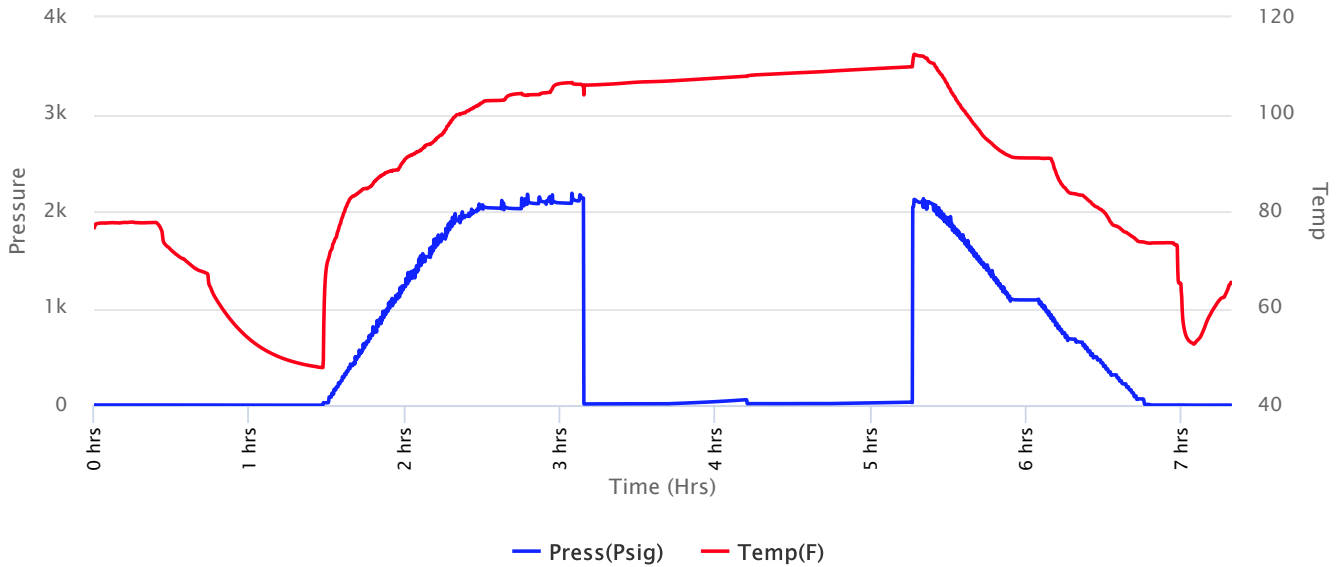
**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

DATE
January
20
2018

DST #1 **Formation: FT. SCOTT** **Test Interval: 4290 - 4354'** **Total Depth: 4354'**
Time On: 08:15 01/20 Time Off: 15:22 01/20
Time On Bottom: 11:15 01/20 Time Off Bottom: 13:15 01/20

| | | | | |
|-----------------------------------|---|---|--|---|
| Electronic Volume Estimate: 3' | <u>1st Open</u> Minutes: 30 .1" at 30 min | <u>1st Close</u> Minutes: 30 0" at 30 min | <u>2nd Open</u> Minutes: 30 0" at 30 min | <u>2nd Close</u> Minutes: 30 0" at 30 min |
|-----------------------------------|---|---|--|---|





**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

DATE
January
20
2018

DST #1 **Formation: FT. SCOTT** **Test Interval: 4290 - 4354'** **Total Depth: 4354'**
Time On: 08:15 01/20 Time Off: 15:22 01/20
Time On Bottom: 11:15 01/20 Time Off Bottom: 13:15 01/20

Recovered

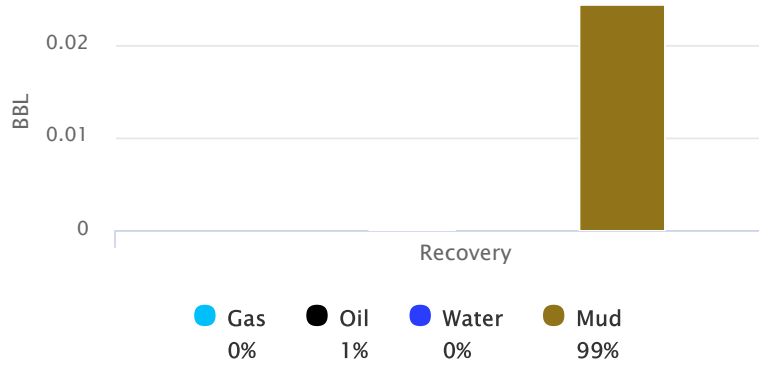
| Foot | BBLs | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|--------|----------------------|-------|-------|---------|-------|
| 5 | 0.0246 | SLOCM | 0 | 1 | 0 | 99 |

Total Recovered: 5 ft
Total Barrels Recovered: 0.0246

Reversed Out
NO

| | | |
|---|-----------|------------|
| Initial Hydrostatic Pressure | 2109 | PSI |
| Initial Flow | 14 to 16 | PSI |
| Initial Closed in Pressure | 58 | PSI |
| Final Flow Pressure | 17 to 18 | PSI |
| Final Closed in Pressure | 32 | PSI |
| Final Hydrostatic Pressure | 2094 | PSI |
| Temperature | 110 | °F |
| Pressure Change Initial Close / Final Close | 44.8 | % |

Recovery at a glance





**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

| |
|---|
| DATE January 20 2018 |
|---|

| | | | |
|---------------|---------------------------------|--|---------------------------|
| DST #1 | Formation: FT. SCOTT | Test Interval: 4290 - 4354' | Total Depth: 4354' |
| | Time On: 08:15 01/20 | Time Off: 15:22 01/20 | |
| | Time On Bottom: 11:15 01/20 | Time Off Bottom: 13:15 01/20 | |

REMARKS:

TOOL SAMPLE:4% OIL 96% MUD

IFP:WSB-STeady THROUGHOUT 30 MINUTE INITIAL FLOW

ISIP:NO BLOW BACK

FFP:NO BLOW-NO BUILD

FSIP:NO BLOW BACK



**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

| |
|---|
| <p>DATE January 20 2018</p> |
|---|

DST #1 **Formation: FT. SCOTT** **Test Interval: 4290 - 4354'** **Total Depth: 4354'**

Time On: 08:15 01/20 Time Off: 15:22 01/20
Time On Bottom: 11:15 01/20 Time Off Bottom: 13:15 01/20

Down Hole Makeup

| | |
|---|---------------------------------|
| Heads Up: 19.09 FT | Packer 1: 4285 FT |
| Drill Pipe: 4162.93 FT <i>ID-3 1/2</i> | Packer 2: 4290 FT |
| Weight Pipe: 0 FT <i>ID-2 7/8</i> | Top Recorder: 4277 FT |
| Collars: 121 FT <i>ID-2 1/4</i> | Bottom Recorder: 4328 FT |
| Test Tool: 26.16 FT <i>ID-3 1/2-FH</i> | Well Bore Size: 7 7/8 |
| Total Anchor: 64 | Surface Choke: 1" |
| Anchor Makeup | |
| Packer Sub: 1 FT | Bottom Choke: 5/8" |
| Perforations: (top): 3 FT <i>4 1/2-FH</i> | |
| Change Over: 1 FT | |
| Drill Pipe: (in anchor): 31.50 FT <i>ID-3 1/2</i> | |
| Change Over: .5 FT | |
| Perforations: (below): 27 FT <i>4 1/2-FH</i> | |



**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

| |
|---|
| DATE January 20 2018 |
|---|

| | | | |
|---------------|---------------------------------|--|---------------------------|
| DST #1 | Formation: FT. SCOTT | Test Interval: 4290 - 4354' | Total Depth: 4354' |
| | Time On: 08:15 01/20 | Time Off: 15:22 01/20 | |
| | Time On Bottom: 11:15 01/20 | Time Off Bottom: 13:15 01/20 | |

Mud Properties

Mud Type: CHEMICAL **Weight:** 9.4 **Viscosity:** 52 **Filtrate:** 10.4 **Chlorides:** 8600 ppm



**Company: BlueRidge
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Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
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State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

| |
|---|
| DATE January 20 2018 |
|---|

DST #1 **Formation: FT. SCOTT** **Test Interval: 4290 - 4354'** **Total Depth: 4354'**

Time On: 08:15 01/20 Time Off: 15:22 01/20
Time On Bottom: 11:15 01/20 Time Off Bottom: 13:15 01/20

Gas Volume Report

1st Open

2nd Open

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

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



**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

DATE
January
21
2018

DST #2 **Formation: MISS** **Test Interval: 4398 - 4424'** **Total Depth: 4424'**
Time On: 08:40 01/21 Time Off: 13:35 01/21
Time On Bottom: 11:05 01/21 Time Off Bottom: 11:30 01/21

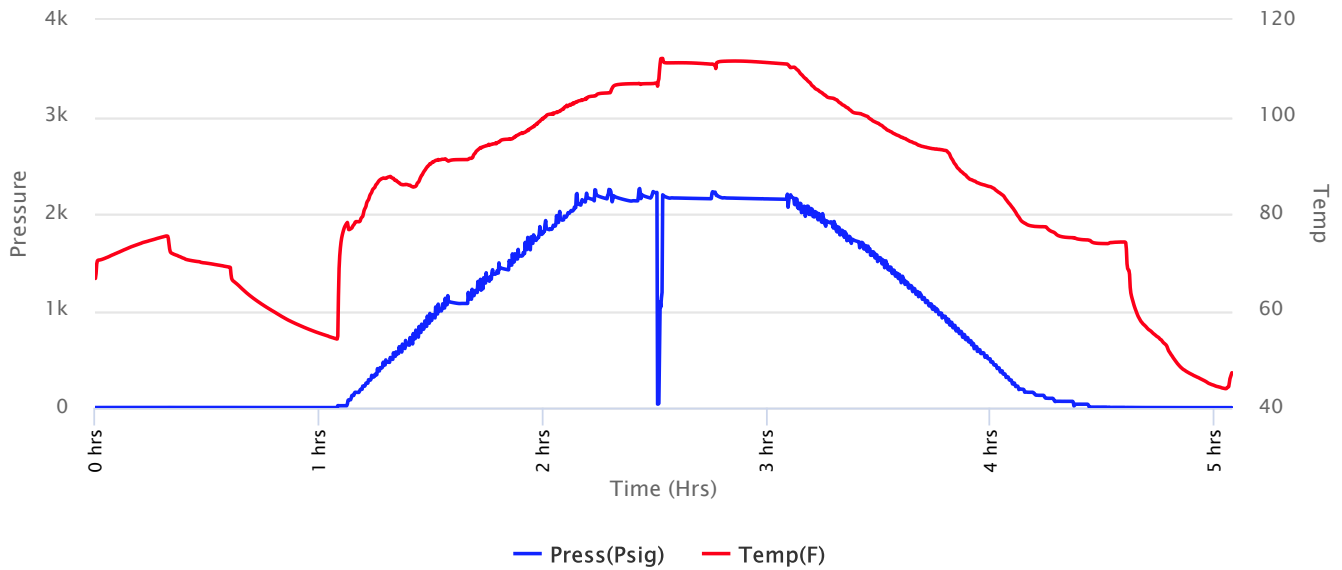
Electronic Volume
Estimate:
0'

1st Open
N/A

1st Close
N/A

2nd Open
N/A

2nd Close
N/A





**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

DATE
January
21
2018

DST #2 **Formation: MISS** **Test Interval: 4398 - 4424'** **Total Depth: 4424'**
Time On: 08:40 01/21 Time Off: 13:35 01/21
Time On Bottom: 11:05 01/21 Time Off Bottom: 11:30 01/21

Recovered

| Foot | BBLs |
|------|---------|
| 435 | 5.06354 |

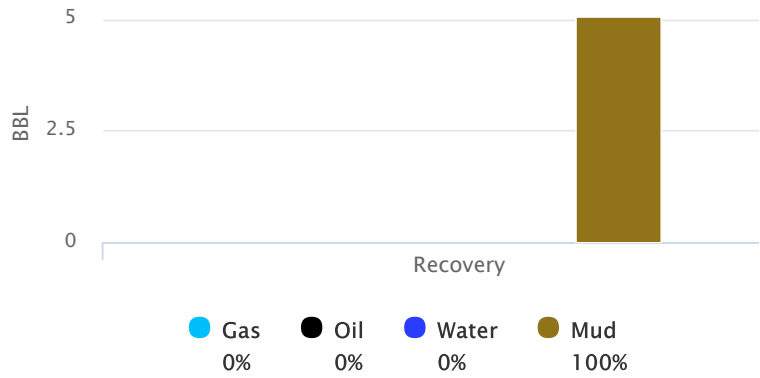
| Description of Fluid | Gas % | Oil % | Water % | Mud % |
|----------------------|-------|-------|---------|-------|
| M | 0 | 0 | 0 | 100 |

Total Recovered: 435 ft
Total Barrels Recovered: 5.06354

Reversed Out
NO

| | | |
|--|----------|------------|
| Initial Hydrostatic Pressure | 2174 | PSI |
| Initial Flow | 0 | PSI |
| Initial Closed in Pressure | 0 | PSI |
| Final Flow Pressure | 0 | PSI |
| Final Closed in Pressure | 0 | PSI |
| Final Hydrostatic Pressure | 2152 | PSI |
| Temperature | 113 | °F |
| Pressure Change Initial Close / Final Close | 0.0 | % |

Recovery at a glance





**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

| |
|---|
| DATE January 21 2018 |
|---|

| | | | |
|---------------|-----------------------------|--|---------------------------|
| DST #2 | Formation: MISS | Test Interval: 4398 - 4424' | Total Depth: 4424' |
| | Time On: 08:40 01/21 | Time Off: 13:35 01/21 | |
| | Time On Bottom: 11:05 01/21 | Time Off Bottom: 11:30 01/21 | |

REMARKS:

TOOL SAMPLE:

IFP:1/2" BLOW-INCREASING TO 1" IN 45 SECONDS

ISIP:NA

FFP:NA

FSIP:NA

LOST PACKER SEAT AT 45 SECONDS INTO INITIAL FLOW, ATTEMPTED A SECOND TIME WITH THE SAME RESULT. NO PACKER SEAT. PULL TOOL



**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

| |
|---|
| <p>DATE January 21 2018</p> |
|---|

DST #2 Formation: MISS Test Interval: 4398 - 4424' Total Depth: 4424'

Time On: 08:40 01/21 Time Off: 13:35 01/21
Time On Bottom: 11:05 01/21 Time Off Bottom: 11:30 01/21

Down Hole Makeup

| | |
|--|---------------------------------|
| Heads Up: 5.23 FT | Packer 1: 4393 FT |
| Drill Pipe: 4257.07 FT <i>ID-3 1/2</i> | Packer 2: 4398 FT |
| Weight Pipe: 0 FT <i>ID-2 7/8</i> | Top Recorder: 4385 FT |
| Collars: 121 FT <i>ID-2 1/4</i> | Bottom Recorder: 4400 FT |
| Test Tool: 26.16 FT <i>ID-3 1/2-FH</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): 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): 25 FT <i>4 1/2-FH</i> | |



**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

| |
|---|
| DATE January 21 2018 |
|---|

DST #2 **Formation: MISS** **Test Interval: 4398 - 4424'** **Total Depth: 4424'**

Time On: 08:40 01/21 Time Off: 13:35 01/21
Time On Bottom: 11:05 01/21 Time Off Bottom: 11:30 01/21

Gas Volume Report

1st Open

2nd Open

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

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



**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

DATE
January
21
2018

DST #3 **Formation: MISS** **Test Interval: 4364 - 4424'** **Total Depth: 4424'**
Time On: 13:45 01/21 Time Off: 21:05 01/21
Time On Bottom: 15:45 01/21 Time Off Bottom: 18:15 01/21

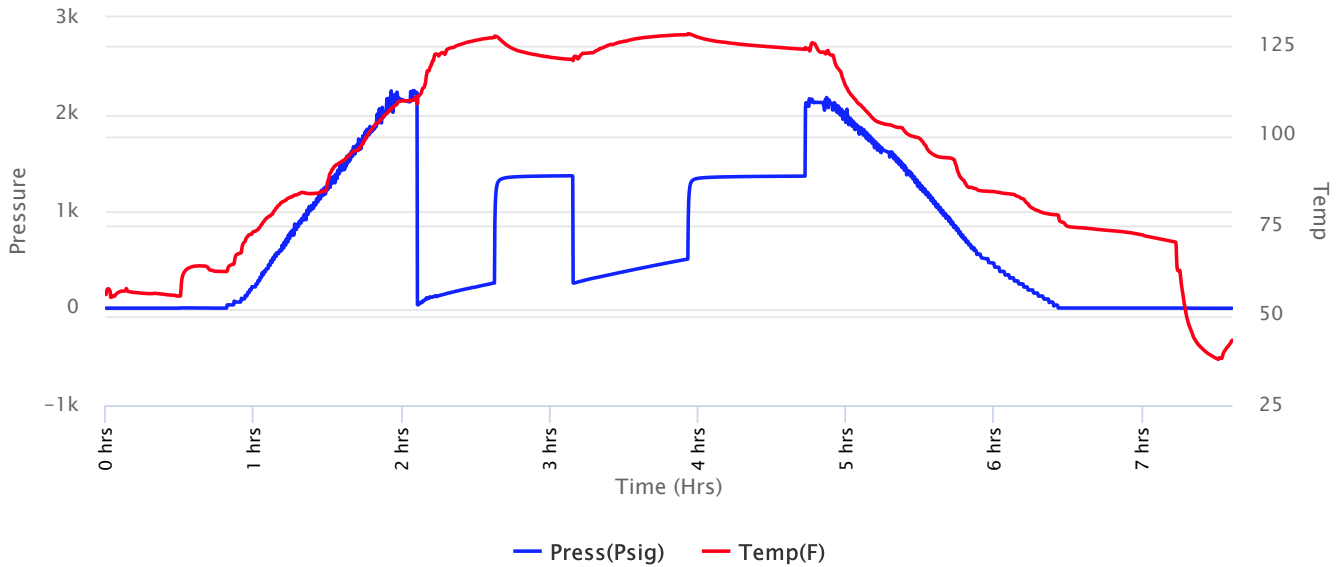
Electronic Volume
Estimate:
1191'

1st Open
Minutes: 30
43" at 30 min

1st Close
Minutes: 30
0" at 30 min

2nd Open
Minutes: 45
61.6" at 45 min

2nd Close
Minutes: 45
0" at 45 min





**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

DATE
January
21
2018

DST #3 **Formation: MISS** **Test Interval: 4364 - 4424'** **Total Depth: 4424'**
Time On: 13:45 01/21 Time Off: 21:05 01/21
Time On Bottom: 15:45 01/21 Time Off Bottom: 18:15 01/21

Recovered

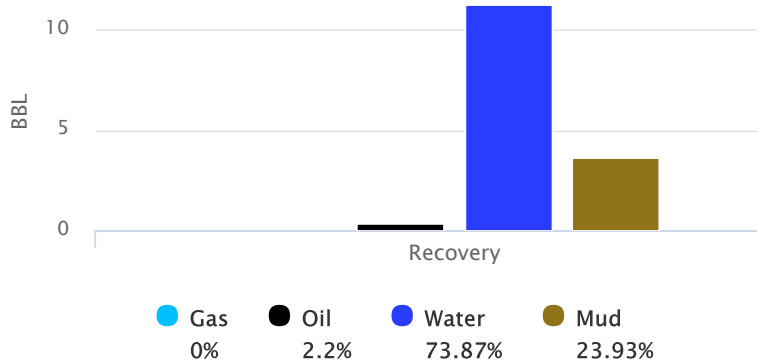
| Foot | BBLs | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|---------|----------------------|-------|-------|---------|-------|
| 312 | 4.43976 | SLOCHWCM | 0 | 3 | 47 | 50 |
| 536 | 7.62728 | SLOCSLMCW | 0 | 2 | 88 | 10 |
| 125 | 1.77875 | SLOCHMCW | 0 | 2 | 63 | 35 |
| 177 | 1.3922 | SLOCSLMCW | 0 | 1 | 96 | 3 |

Total Recovered: 1150 ft
Total Barrels Recovered: 15.23799

Reversed Out
NO

| | | |
|--|-------------|------------|
| Initial Hydrostatic Pressure | 2135 | PSI |
| Initial Flow | 35 to 260 | PSI |
| Initial Closed in Pressure | 1367 | PSI |
| Final Flow Pressure | 261 to 507 | PSI |
| Final Closed in Pressure | 1363 | PSI |
| Final Hydrostatic Pressure | 2123 | PSI |
| Temperature | 129 | °F |
| Pressure Change Initial Close / Final Close | 0.3 | % |

Recovery at a glance





**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

| |
|---|
| DATE January 21 2018 |
|---|

| | | | |
|---------------|-----------------------------|--|---------------------------|
| DST #3 | Formation: MISS | Test Interval: 4364 - 4424' | Total Depth: 4424' |
| | Time On: 13:45 01/21 | Time Off: 21:05 01/21 | |
| | Time On Bottom: 15:45 01/21 | Time Off Bottom: 18:15 01/21 | |

REMARKS:

TOOL SAMPLE:8% OIL 85% WATER 7% MUD

IFP:1"BLOW-INCREASING TO BOB IN 8 MINUTES

ISIP:NO BLOW BACK

FFP:3/4"BLOW-INCREASING TO BOB IN 9 MINUTES

FSIP:NO BLOW BACK

Ph: 7

RW: .6 @ 35 degrees F

Chlorides: 33000 ppm



**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

| |
|---|
| <p>DATE January 21 2018</p> |
|---|

DST #3 Formation: MISS Test Interval: 4364 - 4424' Total Depth: 4424'

Time On: 13:45 01/21 Time Off: 21:05 01/21
Time On Bottom: 15:45 01/21 Time Off Bottom: 18:15 01/21

Down Hole Makeup

| | |
|--|---------------------------------|
| Heads Up: 8.23 FT | Packer 1: 4358.5 FT |
| Drill Pipe: 4225.57 FT <i>ID-3 1/2</i> | Packer 2: 4364 FT |
| Weight Pipe: 0 FT <i>ID-2 7/8</i> | Top Recorder: 4350.5 FT |
| Collars: 121 FT <i>ID-2 1/4</i> | Bottom Recorder: 4402 FT |
| Test Tool: 26.66 FT <i>ID-3 1/2-FH</i> | Well Bore Size: 7 7/8 |
| Total Anchor: 60 | 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): 31.5 FT <i>ID-3 1/2</i> | |
| Change Over: .5 FT | |
| Perforations: (below): 23 FT <i>4 1/2-FH</i> | |



**Company: BlueRidge
Petroleum Corporation
Lease: Bowie #1-9**

SEC: 9 TWN: 21S RNG: 22W
County: HODGEMAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2271 GL
Field Name: Wieland North
Pool: Pool Ext
Job Number: 98

| |
|---|
| DATE January 21 2018 |
|---|

DST #3 Formation: MISS Test Interval: 4364 - Total Depth: 4424'
4424'

Time On: 13:45 01/21 Time Off: 21:05 01/21
Time On Bottom: 15:45 01/21 Time Off Bottom: 18:15 01/21

Gas Volume Report

1st Open

2nd Open

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

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



Mudgrove

Petroleum Geology
212 Main Street, Claflin KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Blueridge Petroleum Corp

LEASE Bowie #1-9

FIELD Wieland North

LOCATION SE-SE-NW-SW (1360' FSL & 1215' FWL)

SEC 9 TWSP 21S RGE 22W

COUNTY Hodgeman STATE Kansas

ELEVATIONS

KB 2278'

DF _____

GL 2271'

Measurements Are All
From KB

CONTRACTOR Pickrell Drilling (Rig # 10)

SPUD 1/11/2018 COMP 01/22/2018

RTD 4477' LTD 4475'

MUD UP 3400' TYPE MUD Chemical

CASING

SURFACE 8 5/8" @ 217'

PRODUCTION None

ELECTRICAL SURVEYS

ELI; DIL, MEL, CDL/CNL/PE

SAMPLES SAVED FROM _____ 3500' TO _____ RTD

DRILLING TIME KEPT FROM _____ 3500' TO _____ RTD

SAMPLES EXAMINED FROM _____ 3500' TO _____ RTD

GEOLOGICAL SUPERVISION FROM 3500' TO _____ RTD

GEOLOGIST ON WELL Wyatt Urban

FORMATION TOPS

LOG

~~SAMPLES~~

Anhydrite 949 (+962) Cherokee 4347 (-2069)

B. Anhydrite 985 (+926) Weatherd Miss. 4392 (-2114)

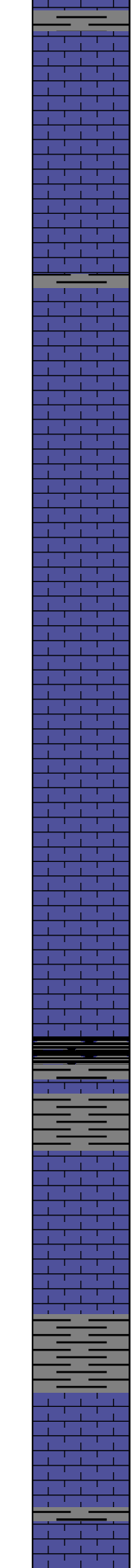
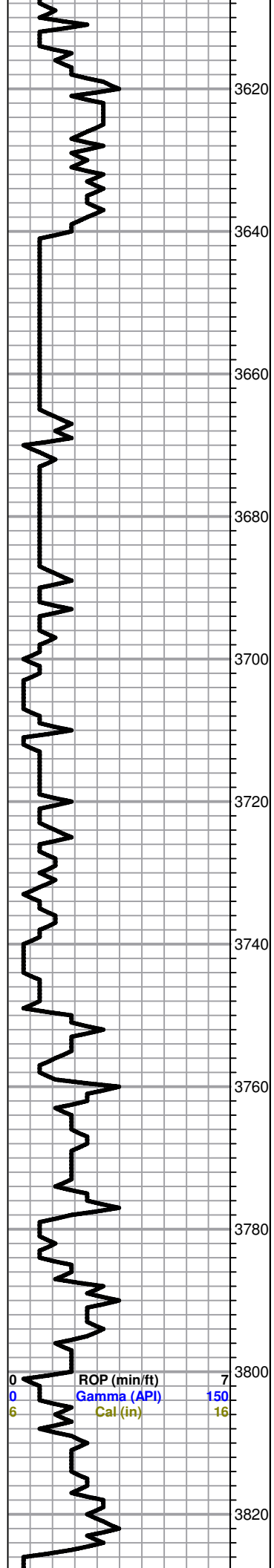
Heebner 3752 (-1474) Solid Miss. 4396 (-2118)

Toronto 3774 (-1496) Miss. _____

Lansing 3804 (-1526) Osage Porosity 4414 (-2136)

Stark 4060 (-1782) RTD 4477 (-2199)

| | | | |
|---|---|--|--|
| | | | |
| | | | |
| X | 9 | | |
| | | | |



Sh, gry, maroon, mica,

LS, tan, white, fxl, few foss, poor visible porosity, no shows, tr. pyrite

Sh, gry, silty, soft, few brick red sh.

LS, a/a

LS, a/a

LS, white, tan, fxl, few foss, poor visible porosity, chalky, no shows, no odor

LS, white, tan, fxl, chalky, no show

LS, white, tan, buff, fxl, few foss, poor visible porosity, chalky, no shows

Heebner 3752.0 (-1474.0) Log (-1474.0)

Slug black carb fiss. shale

Sh, gry, silty, soft

Toronto 3770.0 (-1492.0) Log (-1496.0)

LS, cream, tan, fxl, poor - fair scattered p.p. porosity, chalky, no shows

LS, white, fxl, chalky, no shows

Sh, gry, silty, soft

Lansing 3804.0 (-1526.0) Log (-1526.0)

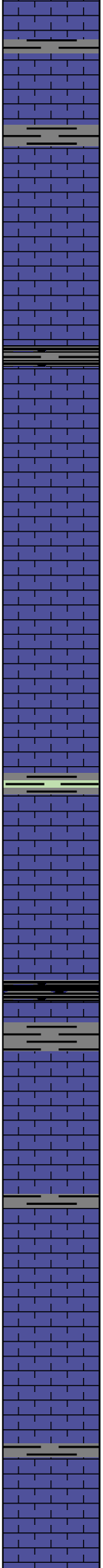
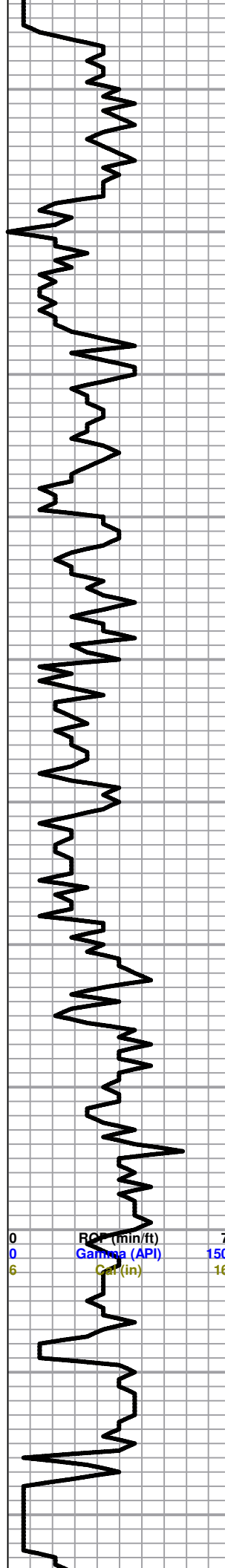
LS, tan, cream, fxl, dense, poor visible porosity, cherty in pts

LS, white, fxl, few foss, poor-fair scattered p.p. porosity, chalky, no shows, no odor

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

porosity, chalky, no show, no odor

3840
3860
3880
3900
3920
3940
3960
3980
4000
4020
4040



Sh, gry, dk gry,

LS, white, foss, calcitic in oom vuggy type porosity, no shows

Sh, back carb, gry, dk gry, mica,

LS, tan, buff, cream, f-med xln, scattered visible porosity, no shows, tr. white chert

LS, white, tan, fxl, dense, no shows

LS, tan, buff, ool, good scattered p.p/ oom porosity, no shows

LS, white, fxl, foss, ool, poor - fair scattered porosity, chalky, (slug maroon, green shale)

LS, tan, fxl, poor visible porosity, cherty in pts, no shows

Sh, gry, blk, brick red, aqua green

LS, brn fxl, poor scattered porosity, no shows

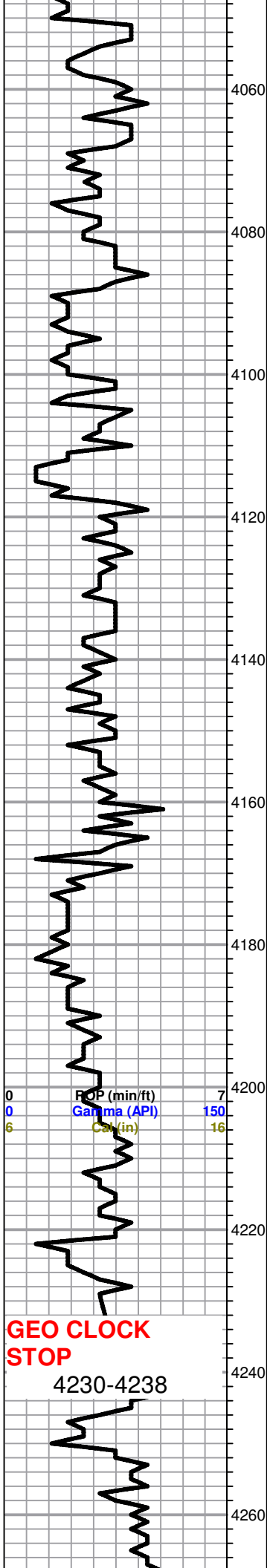
LS, white, tan, fxl, dense, poor visible porosity, lg. clusters white cherts, no shows

LS, white, tan-brn, fxl, dense, poor visible porosity, cherty, no shows

LS, cream, white, ool/ oom, good vuggy oom porosity, no shows

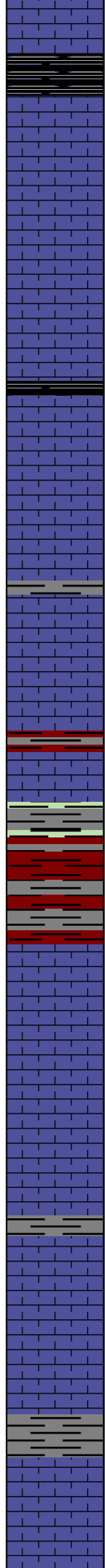
| | | |
|---|-------------------|-----|
| 0 | Total Gas (units) | 100 |
| 0 | C1 (units) | 100 |
| 0 | C2 (units) | 100 |
| 0 | C3 (units) | 100 |
| 0 | C4 (units) | 100 |

0 RQI (min/ft) 7
 0 Gamma (API) 150
 6 Cgr (in) 16



GEO CLOCK STOP
4230-4238

ROP (min/ft) 7
Gamma (API) 150
Cal (in) 16



Stark 4054.0 (-1776.0) Log (-1782.0)

Sh, back carb

LS, white, tan, fxl, poor visible porosity, nsfo, tr. white, and opaque cherts

LS, brn, tan, fxl, dense, poor visible porsity, chalky, no shows

Sh, blk, red, maroon

LS, white, ool, chalky, good visible porosity, chalky, no shows

LS, tan, brn fxl, dns, cherty, poor visible porosity, tr. pyrite

LS, white, foss, poor-fair scatterd p.p. porosity, no shows

LS, white, fxl, foss, poor scattered visible porosity, nsfo, no odor

BKC 4160.0 (-1882.0) Log (-1886.0)

Sh, maroon, gry, silty

Marmaton 4182.0 (-1904.0) Log (-1910.0)

LS, tan, white, fxl, scattered p.p. porosity, chalky in pts, no shows

LS, white, fxl, dense, poor scattered porosity, chalky, tr. white, tan, cherts no shows

Sh, gry, soft waxey

LS, white, fxl, scattered vuggy type porosity, chalky, nsfo, no odor

LS, a/a no shows, no odor

Sh, black, gry, greenish, purple, some soft

Pawnee 4250.0 (-1972.0) Log (-1972.0)

LS, white, cream, fxl, few foss, poor visible porosity, chalky, no shows

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

DST#1 4364-4424
30-30-30-30

1st Open:
Weak surface blow

LS, cream, tan, fxl, dense, poor visible porosity, no shows, no odor

2nd Open:
Weak surface died in 8 mins.

LS, a/a

Recovery:
5' Mud w/ tr. of oil (99%M, 1%O)

LS, white, fxl, dense, few foss, poor visible porosity, no shows

Pressures:
ISIP 58 psi
FSIP 32 psi
IFP 14-16 psi
FFP 17-18 psi
HSH 2109-2094 psi

Ft. Scott 4320.0 (-2042.0) Log (-2039.0)

Sh, black carb

DST#2 4398-4424
Packer Failure

LS, tan, buff, fxl, few foss, poor scattered p.p. porosity, slightly chalky, Lt. sfo, faint odor

LS, brn tan, fxl, dns, few foss, poor scattered visible porosity, chalky, lt. brn stain, sfo, faint odor,

DST#3 4364-4424
30-30-45-45

Cherokee 4351.0 (-2073.0) Log (-2069.0)

Sh, black carb

1st Open:
building blow BOB 8 mins.
No return on shut in

LS, cream, f- med, suc. fair visible porosity, no shows, no odor

2nd Open:
3/4" building blow to BOB 9 mins.

Sh, gry, maon, brick red. soft, silty/sdy
Tr. sd. clr, v. fine grain, well sorted, poorly developed, friable, nsfo, no odor

Recovery:
312' SOCWM (3%O, 47%W, 50% M)

Sh, a/a, tr. LS, white, cream, fxl, no shows, tr. Dol. white, cream, fxl, fair scattered porosity, v. lt. tr. spty sfo. odor???, few white & tan, cherts

Miss. 4398.0 (-2120.0) Log (-2118.0)

Chert, tan, white, scattered vuggy (weathered) type porosity, lt. sfo, lt. brn stain, no odor, (1) vis. gas bubble show

536' SOCMW (2%O, 88%W, 10% M)

Chert a/a, increase in show, v. faint odor ???

Chert, white, opaque, boney, few foss, Lt. brn, blk stain, few spty sfo, faint-fair odor(strong odor in broken samples)

125' SLOCMW (2%O, 63%W, 35% M)

Chert, a/a, decrease in sfo, odor, very few visible stain

177' SLOCMW (1%O, 96%, 3%M)

Chert, white, boney, opaque, no shows

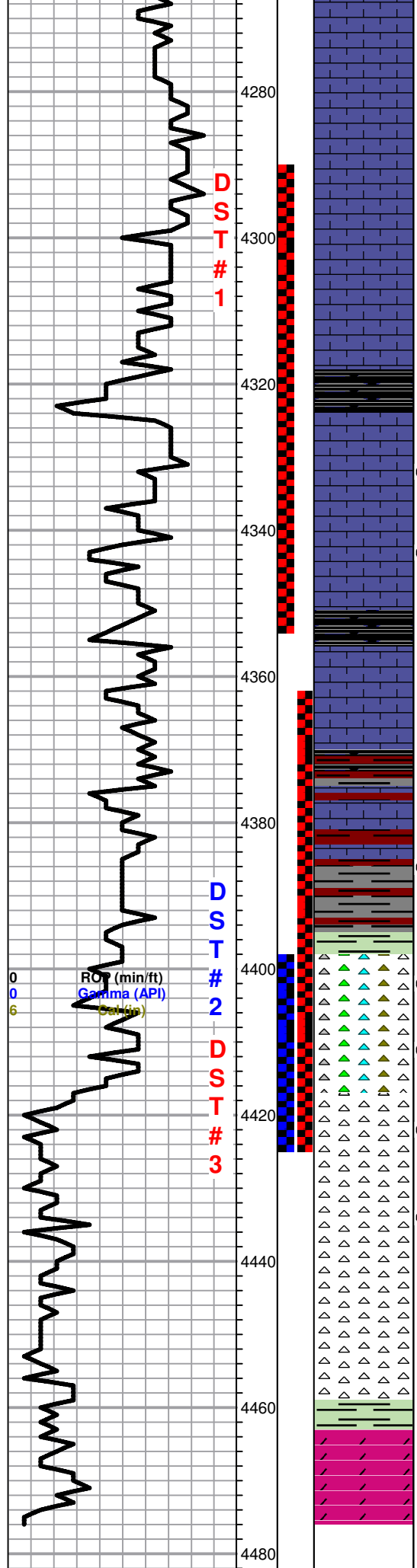
Pressures:
ISIP 1367 psi
FSIP 1363 psi
IFP 35-260 psi
FFP 261-507 psi
HSH 2135-2123 psi

Chert, white, bone, opaque
Slug green sh.

Dol. white, tan, f-med xln, suc. good in xln porosity, green taint on few, no shows, no odor

Dol. a/a, few clr qtz

RTD 4477.0 (-2199.0) Log (0.0)



LS, cream, tan, fxl, dense, poor visible porosity, no shows, no odor

LS, a/a

LS, white, fxl, dense, few foss, poor visible porosity, no shows

Ft. Scott 4320.0 (-2042.0) Log (-2039.0)

Sh, black carb

LS, tan, buff, fxl, few foss, poor scattered p.p. porosity, slightly chalky, Lt. sfo, faint odor

LS, brn tan, fxl, dns, few foss, poor scattered visible porosity, chalky, lt. brn stain, sfo, faint odor,

Cherokee 4351.0 (-2073.0) Log (-2069.0)

Sh, black carb

LS, cream, f- med, suc. fair visible porosity, no shows, no odor

Sh, gry, maon, brick red. soft, silty/sdy
Tr. sd. clr, v. fine grain, well sorted, poorly developed, friable, nsfo, no odor

Sh, a/a, tr. LS, white, cream, fxl, no shows, tr. Dol. white, cream, fxl, fair scattered porosity, v. lt. tr. spty sfo. odor???, few white & tan, cherts

Miss. 4398.0 (-2120.0) Log (-2118.0)

Chert, tan, white, scattered vuggy (weathered) type porosity, lt. sfo, lt. brn stain, no odor, (1) vis. gas bubble show

Chert a/a, increase in show, v. faint odor ???

Chert, white, opaque, boney, few foss, Lt. brn, blk stain, few spty sfo, faint-fair odor(strong odor in broken samples)

Chert, a/a, decrease in sfo, odor, very few visible stain

Chert, white, boney, opaque, no shows

Chert, white, bone, opaque
Slug green sh.

Dol. white, tan, f-med xln, suc. good in xln porosity, green taint on few, no shows, no odor

Dol. a/a, few clr qtz

RTD 4477.0 (-2199.0) Log (0.0)

2nd Open:
Weak surface died in 8 mins.

Recovery:
5' Mud w/ tr. of oil (99%M, 1%O)

Pressures:
ISIP 58 psi
FSIP 32 psi
IFP 14-16 psi
FFP 17-18 psi
HSH 2109-2094 psi

DST#2 4398-4424
Packer Failure

DST#3 4364-4424
30-30-45-45

1st Open:
building blow BOB 8 mins.
No return on shut in

2nd Open:
3/4" building blow to BOB 9 mins.

Recovery:
312' SOCWM (3%O, 47%W, 50% M)

536' SOCMW (2%O, 88%W, 10% M)

125' SLOCMW (2%O, 63%W, 35% M)

177' SLOCMW (1%O, 96%, 3%M)

Pressures:
ISIP 1367 psi
FSIP 1363 psi
IFP 35-260 psi
FFP 261-507 psi
HSH 2135-2123 psi

