

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<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>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<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><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:<br><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:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL:<br>Top Bottom |
|---|---|------------------------------------|

| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record<br><i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |

|                |       |         |            |  |
|----------------|-------|---------|------------|--|
| TUBING RECORD: | Size: | Set At: | Packer At: |  |
|----------------|-------|---------|------------|--|



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

483-2025  
324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1089

|                                   |         |               |          |  |          |  |                |
|-----------------------------------|---------|---------------|----------|--|----------|--|----------------|
| 12-16-18                          | Sec. 23 | Twp. 15       | Range 17 | County Ellis   | State KS | On Location  | Finish 1:00 AM |
| Lease Hoffman                     |         |               |          | Well No. 2   |          | Location Victoria 7s 1w 12s W1110  |                |
| Contractor W.H. #8                |         |               |          | Owner To Quality Oilwell Cementing, Inc.   |          | You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |                |
| Type Job Surface                  |         |               |          | Charge To Jason O. I.  |          |  |                |
| Hole Size 12 1/4                  |         | T.D. 1088     |          | Street   |          |  |                |
| Csg. 8 5/8                        |         | Depth 1088    |          | City   |          | State  |                |
| Tbg. Size                         |         | Depth         |          | The above was done to satisfaction and supervision of owner agent or contractor. |          |  |                |
| Tool                              |         | Depth         |          | Cement Amount Ordered 425 8/30 3/CC 2/022  |          |  |                |
| Cement Left in Csg. 21            |         | Shoe Joint 21 |          | Meas Line Displace 67 3/4 B/L  |          |  |                |
| <b>EQUIPMENT</b>                  |         |               |          | Common 340   |          |  |                |
| Pumptrk 20                        | No.     | Cementer      |          | Poz. Mix 85  |          |  |                |
|                                   |         | Helper        |          | Gel. 9   |          |  |                |
| Bulktrk                           | No.     | Driver        |          | Calcium 15   |          |  |                |
| Bulktrk 21                        | No.     | Driver        |          | Hulls  |          |  |                |
| <b>JOB SERVICES &amp; REMARKS</b> |         |               |          | Salt 100 #   |          |  |                |
| Remarks:                          |         |               |          | Flowseal   |          |  |                |
| Rat Hole                          |         |               |          | Kol-Seal   |          |  |                |
| Mouse Hole                        |         |               |          | Mud CLR 48   |          |  |                |
| Centralizers                      |         |               |          | CFL-117 or CD110 CAF 38  |          |  |                |
| Baskets                           |         |               |          | Sand   |          |  |                |
| D/V or Port Collar                |         |               |          | Handling 249   |          |  |                |
| 8 5/8 on bottom 25' Circulation   |         |               |          | Mileage  |          |  |                |
| Mix 425 5K Displace               |         |               |          | <b>FLOAT EQUIPMENT 8 5/8</b>   |          |  |                |
| Bottle @ 1067                     |         |               |          | Guide Shoe Rubber Plug   |          |  |                |
| Cement Circulation                |         |               |          | Centralizer Bottle Plate   |          |  |                |
| D/V Land 2 3/8 800 #              |         |               |          | Baskets  |          |  |                |
| Shoe 2 3/8                        |         |               |          | AFU Inserts  |          |  |                |
|                                   |         |               |          | Float Shoe   |          |  |                |
|                                   |         |               |          | Latch Down   |          |  |                |
|                                   |         |               |          | Pumptrk Charge Long Surface  |          |  |                |
|                                   |         |               |          | Mileage 15   |          |  |                |
|                                   |         |               |          | Tax  |          |  |                |
|                                   |         |               |          | Discount   |          |  |                |
|                                   |         |               |          | Total Charge   |          |  |                |
| X Signature Fred P. [Signature]   |         |               |          |  |          |  |                |

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1166

|   |          |      |    |      |    |       |    |        |       |       |    |             |  |        |         |
|---|----------|------|----|------|----|-------|----|--------|-------|-------|----|-------------|--|--------|---------|
| Date  | 12-22-18 | Sec. | 23 | Twp. | 15 | Range | 17 | County | Ellis | State | Ks | On Location |  | Finish | 1:00 AM |
| Location Victoria - 75 to Chetolah Gold Rd, |          |      |    |      |    |       |    |        |       |       |    |             |  |        |         |

|                     |                 |   |                     |  |                |
|---------------------|-----------------|---|---------------------|--|----------------|
| Lease               | Hoffman         | Well No.  | 2                   | Owner  | WV, V25 w/into |
| Contractor          | WV #8           | To: Quality Oilwell Cementing, Inc.<br>You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |                     |  |                |
| Type Job            | Long string     | Charge To Jason Oil   |                     |  |                |
| Hole Size           | 7 7/8"          | T.D.  | 3610'               | Street   |                |
| Csg.                | 5 1/2" @ 15.50# | Depth   | <del>3602.76'</del> | City   |                |
| Tbg. Size           |                 | Depth   | 3602.76'            | State  |                |
| Tool                |                 | Depth   |                     | The above was done to satisfaction and supervision of owner agent or contractor. |                |
| Cement Left in Csg. | 21.60'          | Shoe Joint  | 21.60'              | Cement Amount Ordered 190 Q Pro C 10% Salt 5% Gilsont                            |                |
| Meas Line           |                 | Displace  | 85 1/4 BLS          | 500 gal mud clear 48   |                |

**EQUIPMENT**

|         |      |     |          |       |          |
|---------|------|-----|----------|-------|----------|
| Pumptrk | 17   | No. | Cementer | David | Common   |
|         |      |     | Helper   |       |          |
| Bulktrk | 14   | No. | Driver   | Jack  | Poz. Mix |
|         |      |     | Driver   |       |          |
| Bulktrk | p.u. | No. | Driver   | Rick  | Gel.     |
|         |      |     | Driver   |       |          |
|         |      |     |          |       | Calcium  |

**JOB SERVICES & REMARKS**

|                    |                               |                         |
|--------------------|-------------------------------|-------------------------|
| Remarks:           |                               | Hulls                   |
| Rat Hole           | 30 SK                         | Salt                    |
| Mouse Hole         | <del>30 SK</del>              | Flowseal                |
| Centralizers       | #1 10' above shoe 1,2,3,5,7,9 | Kol-Seal                |
| Baskets            | #2                            | Mud CLR 48              |
| D/W or Port Collar | pipe on bottom break          | CFL-117 or CD110 CAF 38 |
| Circulation pump   | 500 gal mud clear             | Sand                    |
| 48 plug            | Rathole, Hook to 52" casing   | Handling                |
| + mix              | 160 sk cement. Shut down      | Mileage                 |
| wash pump + lines  | Displaced                     |                         |
| plug w/            | 85 1/4 BLS H2O.               |                         |
|                    | Released + held.              |                         |

**FLOAT EQUIPMENT**

|             |   |
|-------------|---|
| Guide Shoe  |   |
| Centralizer | 7 |
| Baskets     | 1 |
| AFU Inserts |   |
| Float Shoe  | 1 |
| Latch Down  | 1 |

Left pressure 800 #  
Land plug to 150 #

|                                |  |              |
|--------------------------------|--|--------------|
| Pumptrk Charge                 |  | Tax          |
| Mileage                        |  | Discount     |
|                                |  | Total Charge |
| X Signature <i>[Signature]</i> |  |              |



# Company: Jason Oil Company, LLC

## Lease: Hoffman #2

SEC: 23 TWN: 15S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 1962 EGL  
Field Name: Degenhart East  
Pool: Infield  
Job Number: 269

**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**19**  
2018

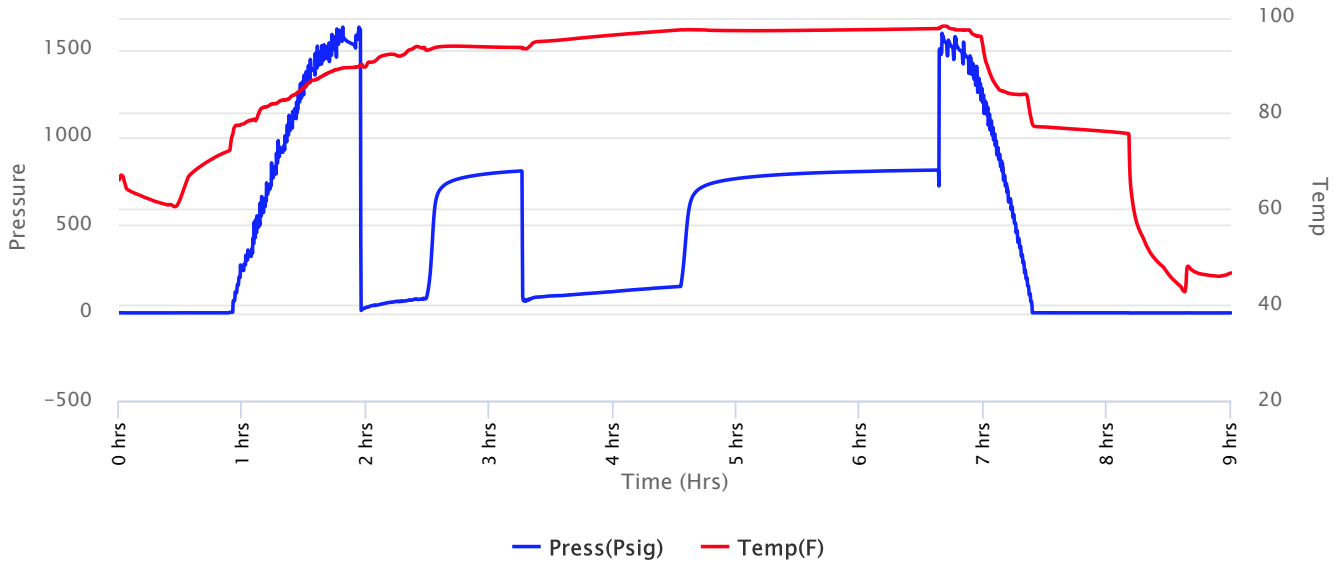
**DST #1**    **Formation: Lans A-D**    **Test Interval: 3234 - 3308'**    **Total Depth: 3308'**

Time On: 14:24 12/19    Time Off: 23:09 12/19  
Time On Bottom: 16:18 12/19    Time Off Bottom: 20:33 12/19

Electronic Volume Estimate:  
1070'

| <u>1st Open</u>                  | <u>1st Close</u>              | <u>2nd Open</u>                | <u>2nd Close</u>                 |
|----------------------------------|-------------------------------|--------------------------------|----------------------------------|
| Minutes: 30                      | Minutes: 45                   | Minutes: 75                    | Minutes: 120                     |
| Current Reading: 33.9" at 30 min | Current Reading: 0" at 45 min | Current Reading: 88" at 75 min | Current Reading: 6.7" at 120 min |
| Max Reading: 33.9"               | Max Reading: 0"               | Max Reading: 88"               | Max Reading: 7.4"                |

Inside Recorder





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 Time On: 14:24 12/19 Time Off: 23:09 12/19  
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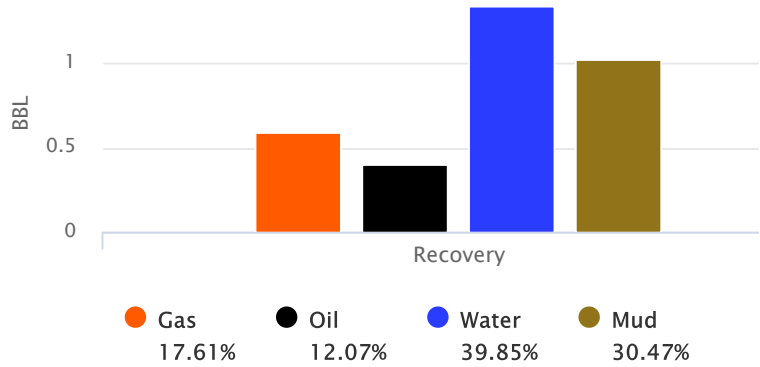
| Recovered |           | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|-----------|-----------|----------------------|-------|-------|---------|-------|
| Foot      | BBLs      |                      |       |       |         |       |
| 126       | 1.79298   | SLWCOCHGCM           | 33    | 20    | 10      | 37    |
| 189       | 1.5669633 | SLOCMCW              | 0     | 3     | 74      | 23    |

Total Recovered: 315 ft  
 Total Barrels Recovered: 3.3599433

Reversed Out  
 NO

|   |            |            |
|---|------------|------------|
| Initial Hydrostatic Pressure                | 1525       | PSI        |
| Initial Flow                                | 14 to 84   | PSI        |
| <b>Initial Closed in Pressure</b>           | <b>809</b> | <b>PSI</b> |
| Final Flow Pressure                         | 71 to 151  | PSI        |
| <b>Final Closed in Pressure</b>             | <b>814</b> | <b>PSI</b> |
| Final Hydrostatic Pressure                  | 1502       | PSI        |
| Temperature                                 | 98         | °F         |
| Pressure Change Initial Close / Final Close | 0.0        | %          |

**Recovery at a glance**





**Company: Jason Oil Company,  
LLC**

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**3308'**  
Time On: 14:24 12/19      Time Off: 23:09 12/19  
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**BUCKET MEASUREMENT:**

*Diesel in Bucket*

1st Open: 1" Blow. BOB in 9 mins

1st Close: NOBB

2nd Open: 4" Blow. BOB in 2 1/2 mins

2nd Close: 7 1/2 inch Blow Back

**REMARKS:**

Gas Sniffer didn't detect any gas in pipe.

Tool Sample: 0% Gas 30% Oil 65% Water 5% Mud

Ph: 7

Measured RW: .29 @ 40 degrees °F

RW at Formation Temp: 0.129 @ 98 °F

Chlorides: 55,000 ppm





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### Down Hole Makeup

|   |                                 |
|---|---------------------------------|
| <b>Heads Up:</b> 18.15 FT                                   | <b>Packer 1:</b> 3228.89 FT     |
| <b>Drill Pipe:</b> 3106.31 FT<br><i>ID-3 1/2</i>            | <b>Packer 2:</b> 3233.89 FT     |
| <b>Weight Pipe:</b> FT<br><i>ID-2 7/8</i>                   | <b>Top Recorder:</b> 3220.89 FT |
| <b>Collars:</b> 120.57 FT<br><i>ID-2 1/4</i>                | <b>Bottom Recorder:</b> 3301 FT |
| <b>Test Tool:</b> 26.16 FT<br><i>ID-3 1/2-FH</i>            | <b>Well Bore Size:</b> 7 7/8    |
| <b>Total Anchor:</b> 74.11                                  | <b>Surface Choke:</b> 1"        |
| <b><u>Anchor Makeup</u></b>                                 | <b>Bottom Choke:</b> 5/8"       |
| <b>Packer Sub:</b> 1 FT                                     |                                 |
| <b>Perforations: (top):</b> 1 FT<br><i>4 1/2-FH</i>         |                                 |
| <b>Change Over:</b> .5 FT                                   |                                 |
| <b>Drill Pipe: (in anchor):</b> 62.61 FT<br><i>ID-3 1/2</i> |                                 |
| <b>Change Over:</b> 1 FT                                    |                                 |
| <b>Perforations: (below):</b> 8 FT<br><i>4 1/2-FH</i>       |                                 |



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**3308'**

Time On: 14:24 12/19      Time Off: 23:09 12/19  
Time On Bottom: 16:18 12/19      Time Off Bottom: 20:33 12/19

**Mud Properties**

**Mud Type:** Chem      **Weight:** 8.8      **Viscosity:** 69      **Filtrate:** 7.6      **Chlorides:** 4500 ppm



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### Gas Volume Report

1st Open

2nd Open

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

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



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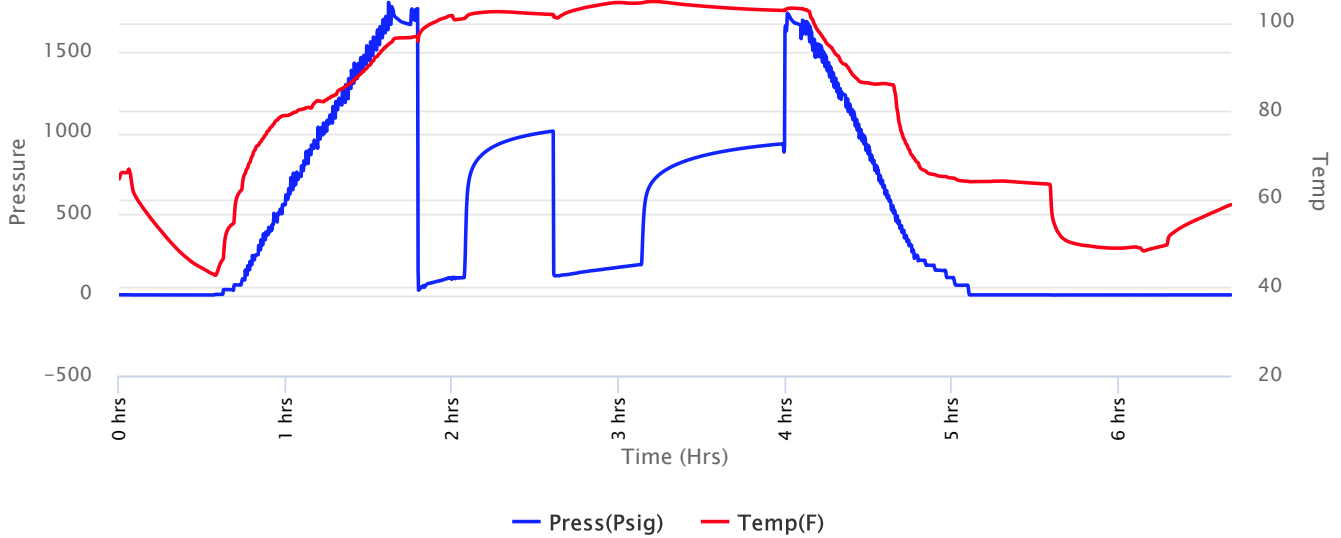
**DST #2    Formation: Arbuckle    Test Interval: 3477 - 3557'    Total Depth: 3610'**

Time On: 06:44 12/21    Time Off: 13:14 12/21  
Time On Bottom: 08:29 12/21    Time Off Bottom: 10:29 12/21

Electronic Volume Estimate:  
587'

| <u>1st Open</u>                  | <u>1st Close</u>               | <u>2nd Open</u>                  | <u>2nd Close</u>                |
|----------------------------------|--------------------------------|----------------------------------|---------------------------------|
| Minutes: 15                      | Minutes: 30                    | Minutes: 30                      | Minutes: 45                     |
| Current Reading: 19.1" at 15 min | Current Reading: .6" at 30 min | Current Reading: 35.6" at 30 min | Current Reading: 1.9" at 45 min |
| Max Reading: 19.1"               | Max Reading: 1.1"              | Max Reading: 35.6"               | Max Reading: 3.1"               |

Inside Recorder





# Company: Jason Oil Company, LLC

## Lease: Hoffman #2

SEC: 23 TWN: 15S RNG: 17W  
 County: ELLIS  
 State: Kansas  
 Drilling Contractor: WW Drilling, LLC - Rig 8  
 Elevation: 1962 EGL  
 Field Name: Degenhart East  
 Pool: Infield  
 Job Number: 269

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 December  
**21**  
 2018

**DST #2**    **Formation: Arbuckle**    **Test Interval: 3477 - 3557'**    **Total Depth: 3610'**

Time On: 06:44 12/21    Time Off: 13:14 12/21  
 Time On Bottom: 08:29 12/21    Time Off Bottom: 10:29 12/21

Recovered

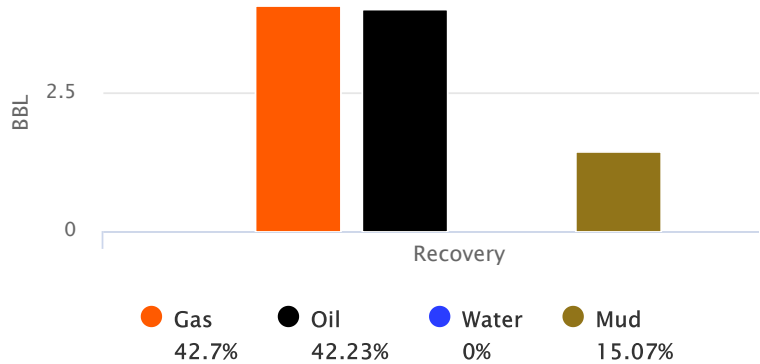
| Foot | BBLs      | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|-----------|----------------------|-------|-------|---------|-------|
| 283  | 4.02709   | G                    | 100   | 0     | 0       | 0     |
| 283  | 4.02709   | O                    | 0     | 100   | 0       | 0     |
| 183  | 1.4815833 | SLGOM                | 3     | 0     | 0       | 97    |

Total Recovered: 749 ft  
 Total Barrels Recovered: 9.5357633

Reversed Out  
 NO

|   |             |            |
|---|-------------|------------|
| Initial Hydrostatic Pressure                | 1674        | PSI        |
| Initial Flow                                | 29 to 108   | PSI        |
| <b>Initial Closed in Pressure</b>           | <b>1014</b> | <b>PSI</b> |
| Final Flow Pressure                         | 119 to 188  | PSI        |
| <b>Final Closed in Pressure</b>             | <b>936</b>  | <b>PSI</b> |
| Final Hydrostatic Pressure                  | 1674        | PSI        |
| Temperature                                 | 105         | °F         |
| Pressure Change Initial Close / Final Close | 7.7         | %          |

**Recovery at a glance**





**Company: Jason Oil Company,  
LLC**

**Lease: Hoffman #2**

SEC: 23 TWN: 15S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 8  
Elevation: 1962 EGL  
Field Name: Degenhart East  
Pool: Infield  
Job Number: 269

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
December  
**21**  
2018

**DST #2      Formation: Arbuckle      Test Interval: 3477 -      Total Depth: 3610'**  
**3557'**  
Time On: 06:44 12/21      Time Off: 13:14 12/21  
Time On Bottom: 08:29 12/21      Time Off Bottom: 10:29 12/21

**BUCKET MEASUREMENT:**

*Diesel in Bucket*

1st Open: 1" Blow. BOB in 6 mins

1st Close: 1 1/4 Blow Back

2nd Open: 1" Blow. BOB in 6 mins

2nd Close: 3 1/4" Blow Back

**REMARKS:**

1271 Hydro. Below Straddle Recorder

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

Gravity: 35.8 @ 60 °F



# Company: Jason Oil Company, LLC

## Lease: Hoffman #2

SEC: 23 TWN: 15S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 1962 EGL  
Field Name: Degenhart East  
Pool: Infield  
Job Number: 269

**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**21**  
2018

**DST #2      Formation: Arbuckle      Test Interval: 3477 - 3557'      Total Depth: 3610'**  
Time On: 06:44 12/21      Time Off: 13:14 12/21  
Time On Bottom: 08:29 12/21      Time Off Bottom: 10:29 12/21

### Down Hole Makeup

|  |   |
|--|---|
| <b>Heads Up:</b> 30.7 FT                                     | <b>Packer 1:</b> 3471.89 FT             |
| <b>Drill Pipe:</b> 3361.86 FT<br><i>ID-3 1/2</i>             | <b>Packer 2:</b> 3476.89 FT             |
| <b>Weight Pipe:</b> FT<br><i>ID-2 7/8</i>                    | <b>Packer 3:</b> 3557 FT                |
| <b>Collars:</b> 120.57 FT<br><i>ID-2 1/4</i>                 | <b>Top Recorder:</b> 3463.89 FT         |
| <b>Test Tool:</b> 26.16 FT<br><i>ID-3 1/2-FH</i>             | <b>Bottom Recorder:</b> 3544 FT         |
| <b>Total Anchor:</b> 80.11                                   | <b>Below Straddle Recorder:</b> 3590 FT |
| <u><b>Anchor Makeup</b></u>                                  | <b>Well Bore Size:</b> 7 7/8            |
| <b>Packer Sub:</b> 1 FT                                      | <b>Surface Choke:</b> 1"                |
| <b>Perforations: (top):</b> 1 FT<br><i>4 1/2-FH</i>          | <b>Bottom Choke:</b> 5/8"               |
| <b>Change Over:</b> .5 FT                                    |   |
| <b>Drill Pipe: (in anchor):</b> 62.61 FT<br><i>ID-3 1/2</i>  |   |
| <b>Change Over:</b> 1 FT                                     |   |
| <b>Perforations: (below):</b> 14 FT<br><i>4 1/2-FH</i>       |   |
| <u><b>STRADDLE</b></u>                                       |   |
| <b>Straddle Packer(s):</b> 1 FT                              |   |
| <b>Change Over:</b> 1 FT                                     |   |
| <b>Drill Pipe:</b> 31.85 FT<br><i>ID-3 1/2"</i>              |   |
| <b>Change Over:</b> 1 FT                                     |   |
| <b>Perforations (in tail pipe):</b> 21 FT<br><i>4 1/2-FH</i> |   |



**Company: Jason Oil Company,  
LLC**

**Lease: Hoffman #2**

SEC: 23 TWN: 15S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 8  
Elevation: 1962 EGL  
Field Name: Degenhart East  
Pool: Infield  
Job Number: 269

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
December  
**21**  
2018

**DST #2      Formation: Arbuckle      Test Interval: 3477 -      Total Depth: 3610'**  
**3557'**  
Time On: 06:44 12/21      Time Off: 13:14 12/21  
Time On Bottom: 08:29 12/21      Time Off Bottom: 10:29 12/21

**Mud Properties**

**Mud Type:** Chem      **Weight:** 8.9      **Viscosity:** 56      **Filtrate:** 8      **Chlorides:** 8500 ppm





# Company: Jason Oil Company, LLC

## Lease: Hoffman #2

SEC: 23 TWN: 15S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 1962 EGL  
Field Name: Degenhart East  
Pool: Infield  
Job Number: 269

**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**21**  
2018

**DST #2      Formation: Arbuckle      Test Interval: 3477 - 3557'      Total Depth: 3610'**  
Time On: 06:44 12/21      Time Off: 13:14 12/21  
Time On Bottom: 08:29 12/21      Time Off Bottom: 10:29 12/21

### Gas Volume Report

1st Open

2nd Open

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

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

Scale 1:240 Imperial

Well Name: HOFFMAN #2  
Surface Location: SW SE SW NE Sec. 23 - 15S - 17W  
Bottom Location:  
API: 15-051-26936  
License Number: 33813  
Spud Date: 12/14/2018 Time: 5:30 PM  
Region: ELLIS COUNTY  
Drilling Completed: Time:  
Surface Coordinates: 2380' FNL & 1810' FEL  
Bottom Hole Coordinates:  
Ground Elevation: 1956.00ft  
K.B. Elevation: 1961.00ft  
Logged Interval: 0.00ft To: 0.00ft  
Total Depth: 0.00ft  
Formation: LANSING-KANSAS CITY; ARBUCKLE  
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

#### OPERATOR

Company: JASON OIL COMPANY, LLC  
Address: 3718 183rd RD  
P.O. BOX 701  
RUSSELL, KS 67665  
Contact Geologist: SHELDON BENNETT  
Contact Phone Nbr: (785) 483-4204  
Well Name: HOFFMAN #2  
Location: SW SE SW NE Sec. 23 - 15S - 17W  
API: 15-051-26936  
Pool: State: KANSAS Field: DEGENHART EAST  
Country: USA

#### SURFACE CO-ORDINATES

Well Type: Vertical  
Longitude: -99.1774346  
Latitude: 38.7340785  
N/S Co-ord: 2380' FNL  
E/W Co-ord: 1810' FEL

#### LOGGED BY



Company: BIG CREEK CONSULTING, INC.  
Address: 1909 MAPLE  
ELLIS, KS 67637  
Phone Nbr: (785) 259-3737  
Logged By: GEOLOGIST Name: JEFF LAWLER

#### CONTRACTOR

Contractor: WW DRILLING  
Rig #: 8  
Rig Type: MUD ROTARY  
Spud Date: 12/14/2018 Time: 5:30 PM  
TD Date: Time:  
Rig Release: Time:

### ELEVATIONS

K.B. Elevation: 1961.00ft  
K.B. to Ground: 5.00ft

Ground Elevation: 1956.00ft

### NOTES

### WELL COMPARISON SHEET

| FORMATION     | HOFFMAN #2 |       |             |       |            |       |       |       |       |       |            |       | HOFFMAN #1 |       |       |       |            |       |       |       |       |       |            |       | HOFFMAN #3 |       |       |       |       |       |  |  |  |  |  |  |
|---------------|------------|-------|-------------|-------|------------|-------|-------|-------|-------|-------|------------|-------|------------|-------|-------|-------|------------|-------|-------|-------|-------|-------|------------|-------|------------|-------|-------|-------|-------|-------|--|--|--|--|--|--|
|               | 1961       |       |             |       | 1956       |       |       |       | 1954  |       |            |       | 1962       |       |       |       | 1953       |       |       |       | 1956  |       |            |       |            |       |       |       |       |       |  |  |  |  |  |  |
|               | LOG TOPS   |       | SAMPLE TOPS |       | COMP. CARD |       | LOG   |       | SMPL. |       | COMP. CARD |       | LOG        |       | SMPL. |       | COMP. CARD |       | LOG   |       | SMPL. |       | COMP. CARD |       | LOG        |       | SMPL. |       |       |       |  |  |  |  |  |  |
|               | DEPTH      | DATUM | DEPTH       | DATUM | DEPTH      | DATUM | DEPTH | DATUM | DEPTH | DATUM | DEPTH      | DATUM | DEPTH      | DATUM | DEPTH | DATUM | DEPTH      | DATUM | DEPTH | DATUM | DEPTH | DATUM | DEPTH      | DATUM | DEPTH      | DATUM | DEPTH | DATUM | DEPTH | DATUM |  |  |  |  |  |  |
| ANHYDRITE TOP |            |       | 1084        | 877   | 1097       | 857   |       |       | +     | 20    | 1091       | 871   |            |       | +     | 6     | 1085       | 868   |       |       | +     | 9     | 1098       | 858   |            |       | +     | 19    |       |       |  |  |  |  |  |  |
| BASE          |            |       | 1127        | 834   | 1122       | 832   |       |       | +     | 2     | 1133       | 829   |            |       | +     | 5     | 1119       | 834   |       |       | +     | 0     | 1131       | 825   |            |       | +     | 9     |       |       |  |  |  |  |  |  |
| TOPEKA        |            |       | 2980        | -1019 | 2962       | -1008 |       |       | -     | 11    | 2980       | -1018 |            |       | -     | 1     | 2963       | -1010 |       |       | -     | 9     | 2968       | -1012 |            |       | -     | 7     |       |       |  |  |  |  |  |  |
| HEEBNER       |            |       | 3206        | -1245 | 3187       | -1233 |       |       | -     | 12    | 3203       | -1241 |            |       | -     | 4     | 3189       | -1236 |       |       | -     | 9     | 3196       | -1240 |            |       | -     | 5     |       |       |  |  |  |  |  |  |
| TORONTO       |            |       | 3225        | -1264 | 3205       | -1251 |       |       | -     | 13    | 3223       | -1261 |            |       | -     | 3     |            |       |       |       |       |       |            |       |            |       |       |       |       |       |  |  |  |  |  |  |
| DOUGLE SHALE  |            |       |             |       | 3219       | -1265 |       |       |       |       |            |       |            |       |       |       | 3222       | -1269 |       |       |       |       |            |       |            |       |       |       |       |       |  |  |  |  |  |  |
| LKC           |            |       | 3251        | -1290 | 3235       | -1281 |       |       | -     | 9     | 3251       | -1289 |            |       | -     | 1     | 3238       | -1285 |       |       | -     | 5     | 3244       | -1288 |            |       | -     | 2     |       |       |  |  |  |  |  |  |
| BKC           |            |       |             |       | 3455       | -1501 |       |       |       |       | 3481       | -1519 |            |       |       |       | 3463       | -1510 |       |       |       |       | 3474       | -1518 |            |       |       |       |       |       |  |  |  |  |  |  |
| ARBUCKLE      |            |       |             |       | 3496       | -1542 |       |       |       |       | 3552       | -1590 |            |       |       |       | 3555       | -1602 |       |       |       |       | 3551       | -1595 |            |       |       |       |       |       |  |  |  |  |  |  |
| RTD           |            |       |             |       | 3604       | -1650 |       |       |       |       | 3600       | -1638 |            |       |       |       |            |       |       |       |       |       | 3558       | -1602 |            |       |       |       |       |       |  |  |  |  |  |  |
| LTD           |            |       |             |       | 3604       | -1650 |       |       |       |       | 3608       | -1646 |            |       |       |       |            |       |       |       |       |       | 3556       | -1600 |            |       |       |       |       |       |  |  |  |  |  |  |

### DST #1 LKC A - D 3234' - 3308'



**Company: Jason Oil Company, LLC**  
**Lease: Hoffman #2**

SEC: 23 TWN: 15S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 1962 EGL  
Field Name: Degenhart East  
Pool: Infield  
Job Number: 269

**Operation:**

Uploading recovery & pressures

**DATE**

December 19 2018

DST #1 Formation: Lans A-D Test Interval: 3234 - 3308' Total Depth: 3308'

Time On: 14:24 12/19 Time Off: 23:09 12/19  
Time On Bottom: 16:18 12/19 Time Off Bottom: 20:33 12/19

**Recovered**

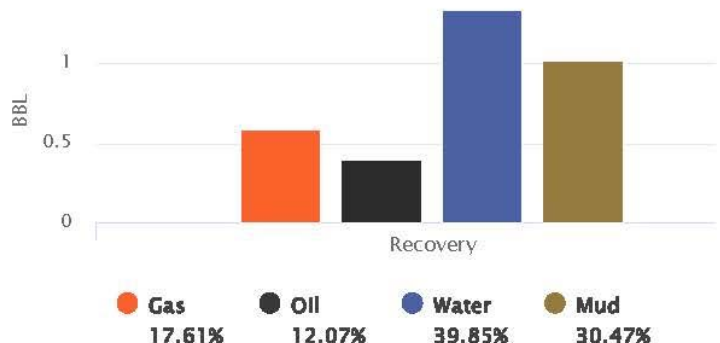
| Foot | BBLs      | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|-----------|----------------------|-------|-------|---------|-------|
| 126  | 1.79298   | SLWCOCHGCM           | 33    | 20    | 10      | 37    |
| 189  | 1.5669633 | SLOCMCW              | 0     | 3     | 74      | 23    |

Total Recovered: 315 ft  
Total Barrels Recovered: 3.3599433

Reversed Out  
NO

|   |           |     |
|---|-----------|-----|
| Initial Hydrostatic Pressure                | 1525      | PSI |
| Initial Flow                                | 14 to 84  | PSI |
| Initial Closed in Pressure                  | 809       | PSI |
| Final Flow Pressure                         | 71 to 151 | PSI |
| Final Closed in Pressure                    | 814       | PSI |
| Final Hydrostatic Pressure                  | 1502      | PSI |
| Temperature                                 | 98        | °F  |
| Pressure Change Initial Close / Final Close | 0.0       | %   |

**Recovery at a glance**



**DST #1 LKC A - D 3234' - 3308'**



**Company: Jason Oil Company, LLC**  
**Lease: Hoffman #2**

SEC: 23 TWN: 15S RNG: 17W  
 County: ELLIS  
 State: Kansas  
 Drilling Contractor: WW Drilling, LLC - Rig 8  
 Elevation: 1962 EGL  
 Field Name: Degenhart East  
 Pool: Infield  
 Job Number: 269

**Operation:**  
 Uploading recovery & pressures

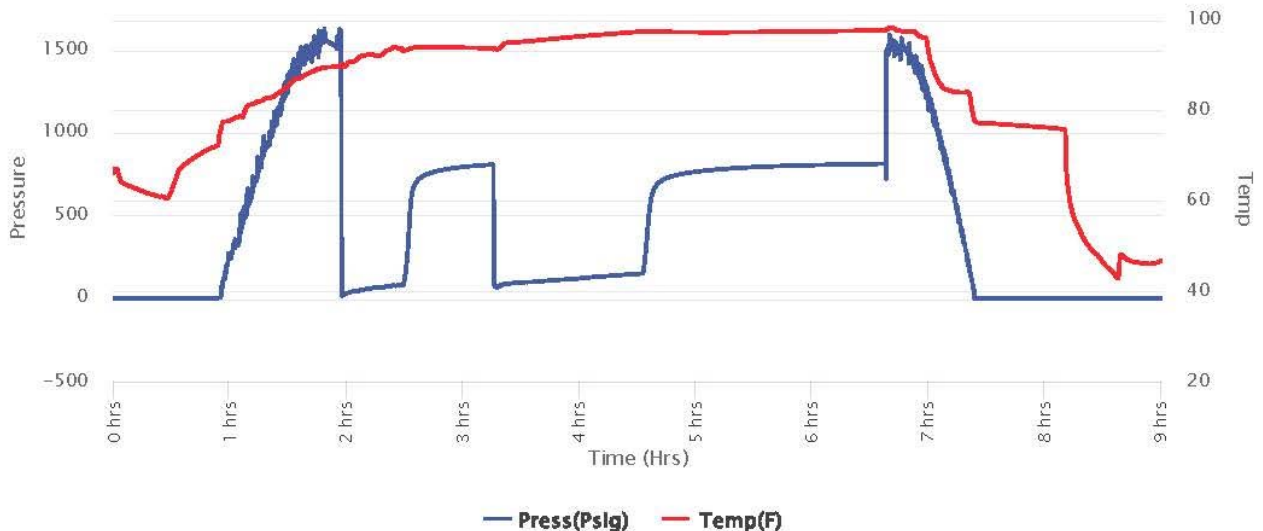
**DATE**  
 December  
**19**  
 2018

**DST #1 Formation: Lans A-D Test Interval: 3234 - 3308' Total Depth: 3308'**  
 Time On: 14:24 12/19 Time Off: 23:09 12/19  
 Time On Bottom: 16:18 12/19 Time Off Bottom: 20:33 12/19

Electronic Volume Estimate:  
 1070'

| <u>1st Open</u>                  | <u>1st Close</u>              | <u>2nd Open</u>                | <u>2nd Close</u>                 |
|----------------------------------|-------------------------------|--------------------------------|----------------------------------|
| Minutes: 30                      | Minutes: 45                   | Minutes: 75                    | Minutes: 120                     |
| Current Reading: 33.9" at 30 min | Current Reading: 0" at 45 min | Current Reading: 88" at 75 min | Current Reading: 6.7" at 120 min |
| Max Reading: 33.9"               | Max Reading: 0"               | Max Reading: 88"               | Max Reading: 7.4"                |












Inside Recorder



**ROCK TYPES**

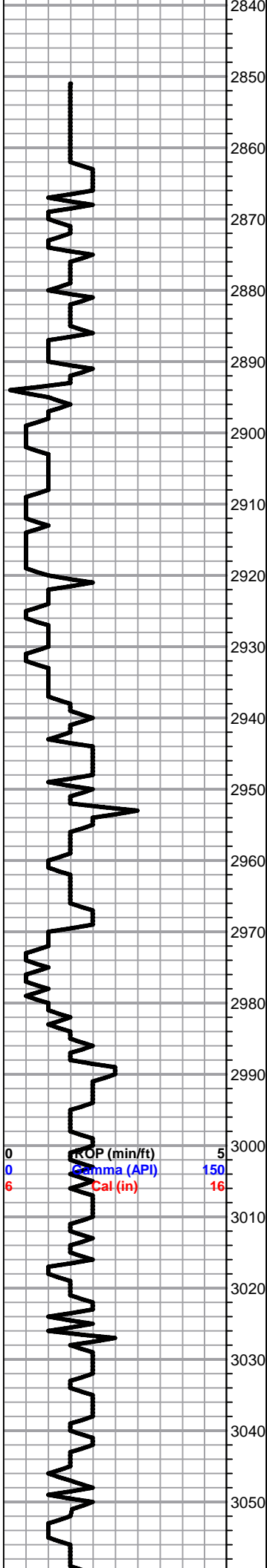
 shale, gry       Carbon Sh

**OTHER SYMBOLS**

- MISC**
-  Daily Report
  -  Digital Photo
  -  Document
  -  Folder
  -  Link
  -  Vertical Log File
  -  Horizontal Log File
  -  Core Log File
  -  Drill Cuttings Rpt
- DST**
-  DST Int
  -  DST alt

Printed by GEOstrip VC Striplog version 4.0.8.15 ([www.grsi.ca](http://www.grsi.ca))

| Curve Track #1   |              | Depth   Intervals | DST | Lithology | Oil Show | Geological Descriptions | Curve Track #3 |
|--|--------------|-------------------|-----|-----------|----------|-------------------------|----------------|
| ROP (min/ft)   | Gamma (API)  |                   |     |           |          |                         | Cal (in)       |
| 0  | ROP (min/ft) | 5                 |     |           |          |                         |                |
| 0  | Gamma (API)  | 150               |     |           |          |                         |                |
| 6  | Cal (in)     | 16                |     |           |          |                         |                |
|  |              | 2810              |     |           |          |                         |                |
|  |              | 2820              |     |           |          |                         |                |
|  |              | 2830              |     |           |          |                         |                |
| <p><b>1' DRILL TIME THROUGH ANHYDRITE FROM 1080' - 1140'</b><br/> <b>1' DRILL TIME FROM 2850' - RTD</b><br/> <b>10' WET/DRY SAMPLES FROM 2900' - RTD</b></p> <p><b>GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 2850' - RTD</b></p> <p><b>8 5/8" SURFACE PIPE SET @ 1088' SURVEY 1/4 deg.</b></p> <p><b>ANHYDRITE TOP 1084' (+877) E-LOG</b><br/> <b>ANHYDRITE BASE 1127' (+834)</b></p> |              |                   |     |           |          |                         |                |



Sh- Gray Green Maroon, silty & calcareous, argillaceous clumps, gritty & earthy, some sl sandy

Sh- A/A w/ influx of gummy & sandy shales

Lm- Cream Off White, FXLN, chalky in part, fsl, poorly dev. w/ sctrd XLN porosity

Sh- Gray, sl calcareous, semi-waxy & dense, micaceous

Lm- Buff Tan Cream, FXLN, fsl, trashy rip-up clasts, chalky in part, sctrd to dense XLN porosity, barren

Sh- Gray, silty & calcareous, some gummy clumps

Lm- Cream Tan Buff, VF-FXLN, dense, mostly well cemented & mostly tight w/ dense XLN porosity, few sl dolomitic, barren

Sh- Gray Green, soft & silty, gummy clumps & wash

**TOPEKA 2980' (-1019) E-LOG** Lm- Cream Off White, VF-FXLN, fsl & dense, well cemented & poorly dev. w/ sctrd XLN porosity, few pcs w/ clear reXLN secondary porosity, possible fracturing (?)

Lm- Cream Off White, FXLN, granular, mod. well dev. w/ dense XLN porosity, barren

Lm- Cream Off White, FXLN, sl fsl, dense & well cemented, poor vis. to dense XLN porosity, barren

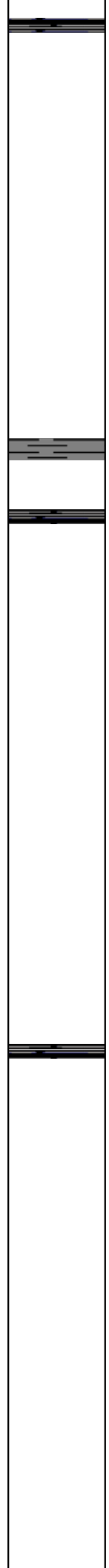
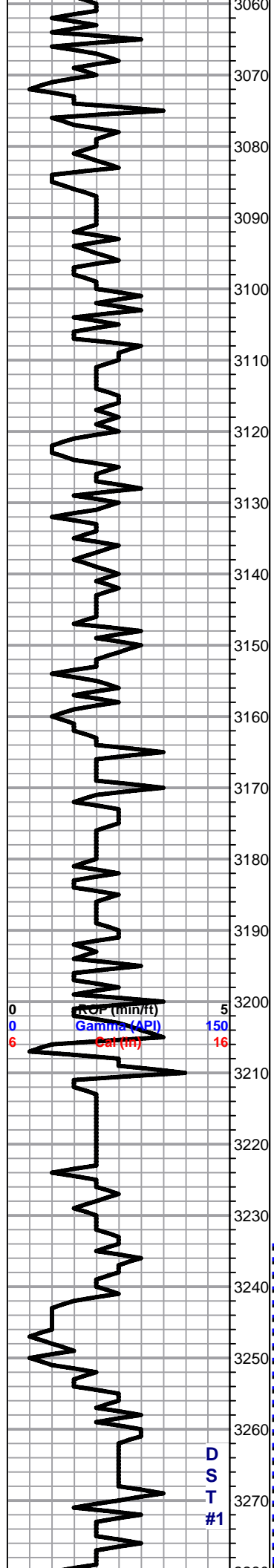
Lm- A/A w/ gray fsl trashy bioclastics, dense XLN & secondary XLN porosity

Lm- Tan Buff, FXLN, fsl, trashy, dense XLN & secondary XLN porosity, barren

Lm- Gray Buff, FXLN, dense, well cemented, fsl w/ sctrd XLN porosity

Lm- Tan, FXLN, fsl & mostly tight w/ sctrd XLN porosity, barren

Lm- A/A w/ buff VFXLN, cherty Ls w/o vis. porosity



Sh- Black Gray White, fissile & carbonaceous, silty & calcareous, soft

Lm- Bone White, VFXLN, tight well cemented cherty Ls w/o vis. porosity, pristine & barren

Lm- Cream Off White, FXLN, sctrd mottling, poor vis. porosity, barren

Lm- Gray Tan, FXLN, heavily mottled, fsl, sl trashy, dense XLN porosity, barren

Lm- Cream, VF-FXLN, dense, well cemented & tight w/ poor vis. porosity, clean & barren

Lm- Cream Off White, VF-FXLN, dense tight, poor vis. porosity, barren

Sh- Back Gray, fissile & carbonaceous, silty & calcareous

Lm- Cream Tan, FXLN Vf Grn, dense tight mix, poor vis. porosity & heavily mottling, barren

Lm- Cream Gray, FXLN, fsl, sctrd XLN porosity, barren

Lm- Cream Off White, FXLN, sl chalky in part, sctrd mottling, sctrd XLN porosity, barren

Lm- Cream Buff Gray, FXLN, sl fsl, well cemented, sctrd to dense XLN porosity, sctrd mottling, barren

Lm- A/A sl chalky in part, barren

Lm- Cream Tan, FXLN, dense, well cemented, mostly tight w/ sctrd XLN porosity & mottling, barren

**HEEBNER 3206' (-1245) E-LOG** Sh-Black Gray, fissile & carbonaceous, silty & soft

Sh- Maroon Green, gummy wash, dense & silty

**TORONTO 3225' (-1264) E-LOG** Lm- Cream Off White, FXLN, sl fsl, poorly dev. w/ sctrd XLN porosity, some sctrd mottling, barren

Lm- Off White, VF-FXLN, dense, well cemented, mostly tight w/ sctrd XLN porosity, vry clean & barren, some sl cherty Ls

Sh- Gray Green Maroon, soft & silty, gritty & earthy

**LKC 3251' (-1290) E-LOG** Lm- Cream Off White, FXLN, fsl & sl oolitic, sctrd to dense XLN & rare fn ppt porosity, TR WK STN, NSFO, SL OILY SHEEN, TR ODR??

Lm- Cream Off White, FXLN, dense, well cemented, sctrd XLN porosity, several pcs of golden cherty densely packed oolitic Ls, some w/ possible fractured porosity, barren

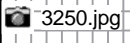
Sh- Gray Maroon, silty & soft, gritty & earthy

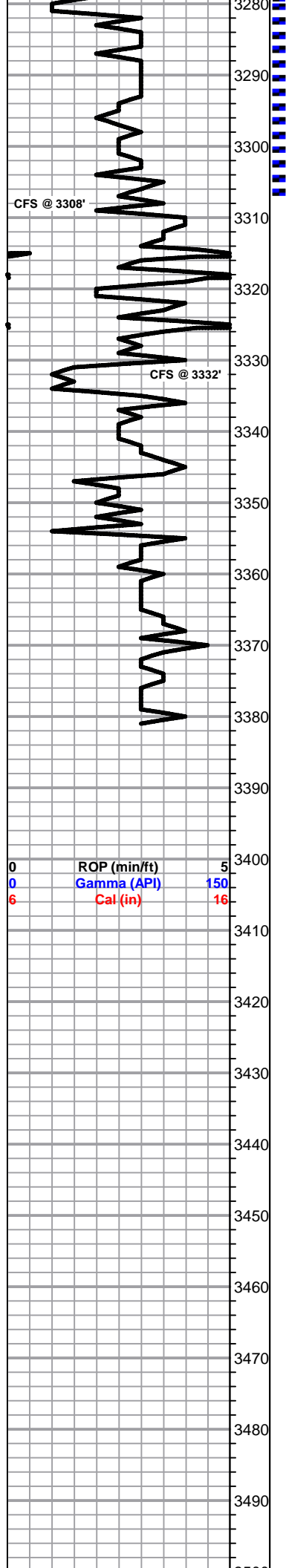
SHORT TRIP SURVEY 1 deg

DST #1 LKC A-D  
3234' - 3308'  
30-45-75-120

315' TOTAL FLUID  
126' W&OCM  
(33% G, 20% O,  
10% W, 37% M)  
189' SLO&MCW  
(3% O, 74% W,  
23% M)

IFP: 14-84#  
FFP: 71-151#  
SIP: 809-814#  
Rw: .29 @ 40 deg  
CHLOR: 55K





CFS @ 3308'

CFS @ 3332'

- Lm- Cream Semi-Translucent, FXLN, oolitic, sctrd fn ppt & XLN porosity, reXLN w/in porosity, SCTRD LT STN, NSFO, NO ODR
- Lm- Off White, FXLN Vf Grn, A/A, less developed, some soft white chalk, barren
- Lm- Tan, FXLN, oolitic, mod. well dev. sctrd oomoldic XLN & ppt porosity, LT STN, NSFO, TR ODR
- Lm- Cream Tan, FXLN, Vf Grn, sl oolitic, mostly tight, less XLN porosity, some soft white chalk, barren
- Lm/Chert- Tan, FXLN, consistent XLN dolomitic porosity, barren, several pcs of porcelain like cherty Ls, barren
- Lm- Cream, FXLN, fsl & oolitic, mod. well dev. w/ sctrd XLN & ppt inter oolite porosity, SCTRD DRK STN, NSFO, TR ODR??
- Lm- Tan Cream, FXLN, fsl & oolitic, some sl chalky in part, poor vis. porosity, clean & barren
- Lm- Cream Tan, FXLN, mix of loosely cemented sl dolomitic Ls & tight cherty Ls w/ poor vis. porosity, all barren
- Lm- Cream Tan, VF-FXLN, dense tight mix, some sl fsl & sl oolitic, tight w/ clear replacement inter oolite cementation, some w/ sctrd XLN porosity, all vry clean & barren
- Lm- Cream Tan, VFXLN, tight mix of well cemented mudstone & porcelain like cherty Ls, all w/ min. vis. porosity, some soft white chalk

\_3280.jpg

\_3300.jpg

\_3325.jpg



3500  
3510  
3520  
3530  
3540  
3550  
3560  
3570  
3580  
3590  
3600  
3610  
3620  
3630  
3640

|   |              |     |
|---|--------------|-----|
| 0 | ROP (min/ft) | 5   |
| 0 | Gamma (API)  | 150 |
| 6 | Cal (in)     | 16  |









0.5 mm