

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

|  |   |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<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>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: |  |
|----------------|-------|---------|------------|--|

|           |                         |
|-----------|-------------------------|
| Form      | ACO1 - Well Completion  |
| Operator  | Stewart Producers, Inc. |
| Well Name | CUNNINGHAM 1            |
| Doc ID    | 1371975                 |

Tops

| Name           | Top  | Datum |
|----------------|------|-------|
| Anhydrite      | 1613 | 729   |
| Base Anhydrite | 1653 | 686   |
| Heebner        | 3709 | -1367 |
| Lansing        | 3750 | -1408 |
| Base KC        | 4087 | -1745 |
| Ft. Scott      | 4252 | -1910 |
| Cherokee       | 4275 | -1933 |
| Mississippian  | 4350 | -2008 |







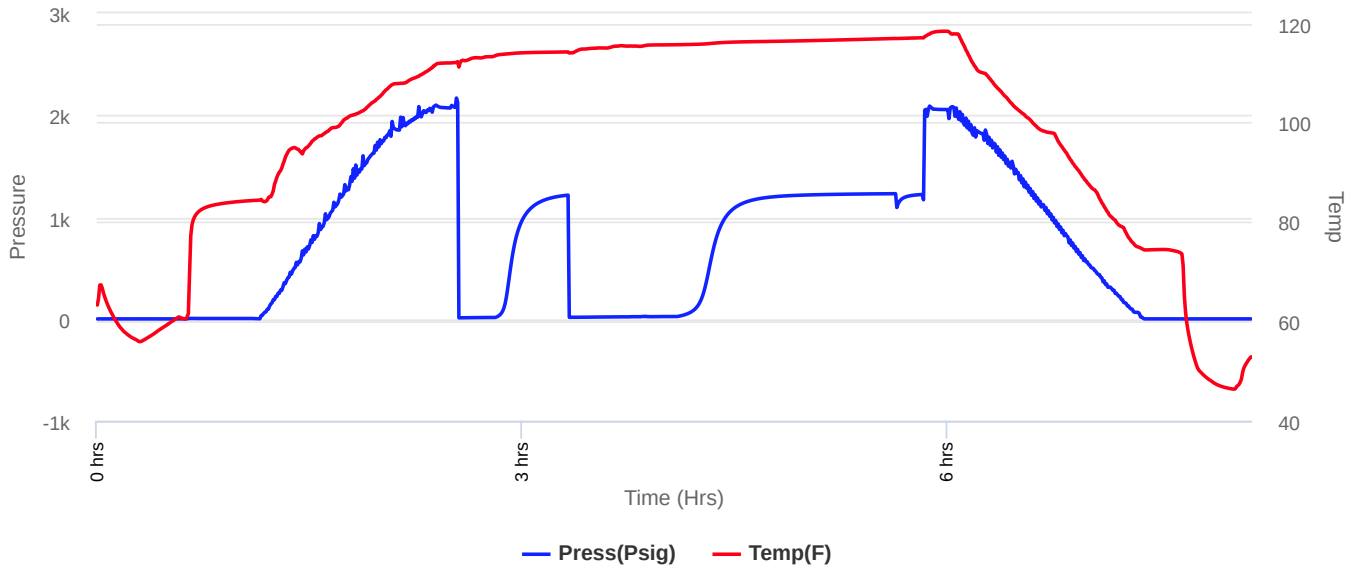
**Company: Stewart Producers, Inc**  
**Lease: Cunningham #1**

SEC: 19 TWN: 18S RNG: 24W  
 County: NESS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2337 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 66

**DATE**  
 October  
**09**  
 2017

**DST #1**      **Formation: Fort Scott**      **Test Interval: 4240 - 4300'**      **Total Depth: 4300'**  
 Time On: 09:27 10/09      Time Off: 17:23 10/09  
 Time On Bottom: 11:56 10/09      Time Off Bottom: 14:56 10/09

|                             |                                |                                 |                                |                                 |
|-----------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|
| Electronic Volume Estimate: | <u>1st Open</u><br>Minutes: 15 | <u>1st Close</u><br>Minutes: 30 | <u>2nd Open</u><br>Minutes: 45 | <u>2nd Close</u><br>Minutes: 90 |
| 21'                         | .5" at 15 min                  | 0" at 30 min                    | 1.4" at 45 min                 | 0" at 90 min                    |





**Company: Stewart Producers, Inc**  
**Lease: Cunningham #1**

SEC: 19 TWN: 18S RNG: 24W  
 County: NESS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2337 GL  
 Field Name: Wildcat  
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 Job Number: 66

**DATE**  
 October  
**09**  
 2017

**DST #1**      **Formation: Fort Scott**      **Test Interval: 4240 - 4300'**      **Total Depth: 4300'**  
 Time On: 09:27 10/09      Time Off: 17:23 10/09  
 Time On Bottom: 11:56 10/09      Time Off Bottom: 14:56 10/09

Recovered

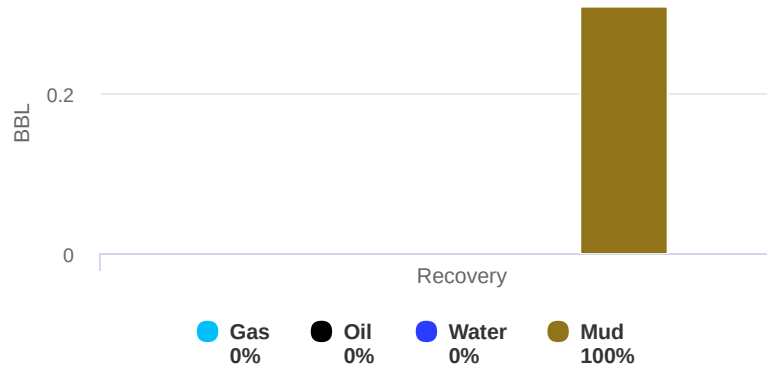
| Foot | BBLs   |
|------|--------|
| 30   | 0.3078 |

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

Total Recovered: 30 ft  
 Total Barrels Recovered: 0.3078

Reversed Out  
 NO

**Recovery at a glance**



|   |             |            |
|---|-------------|------------|
| Initial Hydrostatic Pressure                | 2071        | PSI        |
| Initial Flow                                | 11 to 15    | PSI        |
| <b>Initial Closed in Pressure</b>           | <b>1216</b> | <b>PSI</b> |
| Final Flow Pressure                         | 17 to 24    | PSI        |
| <b>Final Closed in Pressure</b>             | <b>1230</b> | <b>PSI</b> |
| Final Hydrostatic Pressure                  | 2069        | PSI        |
| Temperature                                 | 118         | °F         |
| Pressure Change Initial Close / Final Close | 0.0         | %          |



**Company: Stewart Producers,  
Inc  
Lease: Cunningham #1**

SEC: 19 TWN: 18S RNG: 24W  
County: NESS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2337 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 66

|   |
|---|
| <p><b>DATE</b><br/>October<br/><b>09</b><br/>2017</p> |
|---|

|               |                                  |  |                           |
|---------------|----------------------------------|--|---------------------------|
| <b>DST #1</b> | <b>Formation: Fort<br/>Scott</b> | <b>Test Interval: 4240 -<br/>4300'</b> | <b>Total Depth: 4300'</b> |
|               | Time On: 09:27 10/09             | Time Off: 17:23 10/09                  |                           |
|               | Time On Bottom: 11:56 10/09      | Time Off Bottom: 14:56 10/09           |                           |

**REMARKS:**

Initial Flow: 3/4 in. blow.  
Initial Shut-in: No blow back.  
Final Flow: 1 in. blow.  
Final Shut-in: No blow back.

Tool Sample: 100% mud



**Company: Stewart Producers,  
Inc  
Lease: Cunningham #1**

SEC: 19 TWN: 18S RNG: 24W  
County: NESS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2337 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 66

|   |
|---|
| <p><b>DATE</b><br/>October<br/><b>09</b><br/>2017</p> |
|---|

**DST #1**      **Formation: Fort Scott**      **Test Interval: 4240 - 4300'**      **Total Depth: 4300'**

Time On: 09:27 10/09      Time Off: 17:23 10/09  
Time On Bottom: 11:56 10/09      Time Off Bottom: 14:56 10/09

**Down Hole Makeup**

|  |                                 |
|--|---------------------------------|
| <b>Heads Up:</b> 9.74 FT   | <b>Packer 1:</b> 4235.1 FT      |
| <b>Drill Pipe:</b> 4217.27 FT<br><i>ID-3 1/4</i>                           | <b>Packer 2:</b> 4240.1 FT      |
| <b>Weight Pipe:</b> 0 FT<br><i>ID-2 7/8</i>                                | <b>Top Recorder:</b> 4224.52 FT |
| <b>Collars:</b> 0 FT<br><i>ID-2 1/4</i>                                    | <b>Bottom Recorder:</b> 4278 FT |
| <b>Test Tool:</b> 33.57 FT<br><i>ID-3 1/2-FH<br/>Jars<br/>Safety Joint</i> | <b>Well Bore Size:</b> 7 7/8    |
| <b>Total Anchor:</b> 59.9  | <b>Surface Choke:</b> 1"        |
| <u><b>Anchor Makeup</b></u>  | <b>Bottom Choke:</b> 5/8"       |
| <b>Packer Sub:</b> 1 FT  |                                 |
| <b>Perforations: (top):</b> 3 FT<br><i>4 1/2-FH</i>                        |                                 |
| <b>Change Over:</b> 1 FT   |                                 |
| <b>Drill Pipe: (in anchor):</b> 30.90 FT<br><i>ID-3 1/4</i>                |                                 |
| <b>Change Over:</b> 1 FT   |                                 |
| <b>Perforations: (below):</b> 23 FT<br><i>4 1/2-FH</i>                     |                                 |



**Company: Stewart Producers,  
Inc**  
**Lease: Cunningham #1**

SEC: 19 TWN: 18S RNG: 24W  
County: NESS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2337 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 66

|   |
|---|
| <b>DATE</b><br>October<br><b>09</b><br>2017 |
|---|

|               |                                  |  |                           |
|---------------|----------------------------------|--|---------------------------|
| <b>DST #1</b> | <b>Formation: Fort<br/>Scott</b> | <b>Test Interval: 4240 -<br/>4300'</b> | <b>Total Depth: 4300'</b> |
|               | Time On: 09:27 10/09             | Time Off: 17:23 10/09                  |                           |
|               | Time On Bottom: 11:56 10/09      | Time Off Bottom: 14:56 10/09           |                           |

**Mud Properties**

|                           |                    |                      |                      |                             |
|---------------------------|--------------------|----------------------|----------------------|-----------------------------|
| <b>Mud Type:</b> Chemical | <b>Weight:</b> 9.1 | <b>Viscosity:</b> 53 | <b>Filtrate:</b> 7.4 | <b>Chlorides:</b> 2,500 ppm |
|---------------------------|--------------------|----------------------|----------------------|-----------------------------|



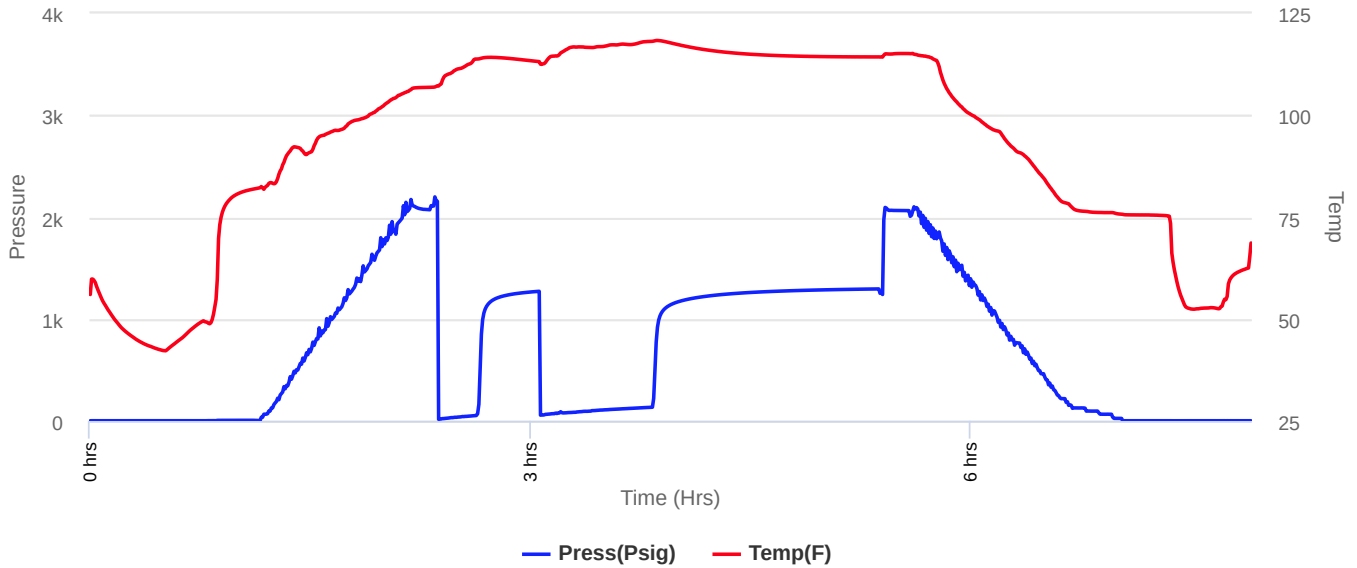
**Company: Stewart Producers, Inc**  
**Lease: Cunningham #1**

SEC: 19 TWN: 18S RNG: 24W  
 County: NESS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2337 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 66

**DATE**  
 October  
**10**  
 2017

**DST #2**      **Formation: Mississippian**      **Test Interval: 4298 - 4365'**      **Total Depth: 4365'**  
 Time On: 03:14 10/10      Time Off: 10:58 10/10  
 Time On Bottom: 05:29 10/10      Time Off Bottom: 08:29 10/10

|                                     |   |   |   |   |
|-------------------------------------|---|---|---|---|
| Electronic Volume Estimate:<br>310' | <u>1st Open</u><br>Minutes: 15<br>10.5" at 15 min | <u>1st Close</u><br>Minutes: 30<br>0" at 30 min | <u>2nd Open</u><br>Minutes: 45<br>17.0" at 45 min | <u>2nd Close</u><br>Minutes: 90<br>0" at 90 min |
|-------------------------------------|---|---|---|---|





**Company: Stewart Producers, Inc**  
**Lease: Cunningham #1**

SEC: 19 TWN: 18S RNG: 24W  
 County: NESS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2337 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 66

**DATE**  
 October  
**10**  
 2017

**DST #2**      **Formation: Mississippian**      **Test Interval: 4298 - 4365'**      **Total Depth: 4365'**  
 Time On: 03:14 10/10      Time Off: 10:58 10/10  
 Time On Bottom: 05:29 10/10      Time Off Bottom: 08:29 10/10

Recovered

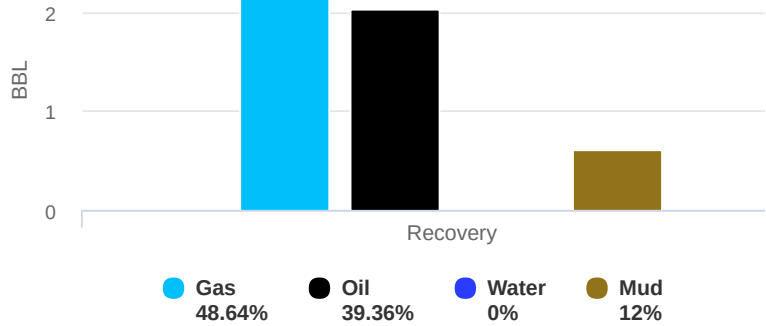
| Foot | BBLs   | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|--------|----------------------|-------|-------|---------|-------|
| 200  | 2.052  | G                    | 100   | 0     | 0       | 0     |
| 60   | 0.6156 | O                    | 0     | 100   | 0       | 0     |
| 240  | 2.4624 | SLGCMCO              | 18    | 57    | 0       | 25    |

Total Recovered: 500 ft  
 Total Barrels Recovered: 5.13

Reversed Out  
 NO

|   |             |            |
|---|-------------|------------|
| Initial Hydrostatic Pressure                | 2072        | PSI        |
| Initial Flow                                | 15 to 52    | PSI        |
| <b>Initial Closed in Pressure</b>           | <b>1272</b> | <b>PSI</b> |
| Final Flow Pressure                         | 56 to 134   | PSI        |
| <b>Final Closed in Pressure</b>             | <b>1295</b> | <b>PSI</b> |
| Final Hydrostatic Pressure                  | 2065        | PSI        |
| Temperature                                 | 119         | °F         |
| Pressure Change Initial Close / Final Close | 0.0         | %          |

**Recovery at a glance**





**Company: Stewart Producers,  
Inc  
Lease: Cunningham #1**

SEC: 19 TWN: 18S RNG: 24W  
County: NESS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2337 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 66

|   |
|---|
| <p><b>DATE</b><br/>October<br/><b>10</b><br/>2017</p> |
|---|

|               |                                     |  |                           |
|---------------|-------------------------------------|--|---------------------------|
| <b>DST #2</b> | <b>Formation:<br/>Mississippian</b> | <b>Test Interval: 4298 -<br/>4365'</b> | <b>Total Depth: 4365'</b> |
|               | Time On: 03:14 10/10                | Time Off: 10:58 10/10                  |                           |
|               | Time On Bottom: 05:29 10/10         | Time Off Bottom: 08:29 10/10           |                           |

**REMARKS:**

Initial Flow: 10 1/2 in. blow.  
Initial Shut-in: No blow back.  
Final Flow: BOB in 18 mins.  
Final Shut-in: No blow back.

Tool Sample: 62% oil, 38% mud

Gravity: 38.3 @ 60 degrees F





**Company: Stewart Producers,  
Inc  
Lease: Cunningham #1**

SEC: 19 TWN: 18S RNG: 24W  
County: NESS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2337 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 66

|   |
|---|
| <p><b>DATE</b><br/>October<br/><b>10</b><br/>2017</p> |
|---|

**DST #2**      **Formation:**      **Test Interval: 4298 -**      **Total Depth: 4365'**  
**Mississippian**      **4365'**  
Time On: 03:14 10/10      Time Off: 10:58 10/10  
Time On Bottom: 05:29 10/10      Time Off Bottom: 08:29 10/10

**Down Hole Makeup**

|  |                                 |
|--|---------------------------------|
| <b>Heads Up:</b> 12.97 FT  | <b>Packer 1:</b> 4293.28 FT     |
| <b>Drill Pipe:</b> 4278.68 FT<br><i>ID-3 1/4</i>                                       | <b>Packer 2:</b> 4298.28 FT     |
| <b>Weight Pipe:</b> 0 FT<br><i>ID-2 7/8</i>  | <b>Top Recorder:</b> 4282.7 FT  |
| <b>Collars:</b> 0 FT<br><i>ID-2 1/4</i>  | <b>Bottom Recorder:</b> 4337 FT |
| <b>Test Tool:</b> 33.57 FT<br><i>ID-3 1/2-FH</i><br><i>Jars</i><br><i>Safety Joint</i> | <b>Well Bore Size:</b> 7 7/8    |
| <b>Total Anchor:</b> 66.72   | <b>Surface Choke:</b> 1"        |
| <u><b>Anchor Makeup</b></u>  | <b>Bottom Choke:</b> 5/8"       |
| <b>Packer Sub:</b> 1 FT  |                                 |
| <b>Perforations: (top):</b> 3 FT<br><i>4 1/2-FH</i>                                    |                                 |
| <b>Change Over:</b> 1 FT   |                                 |
| <b>Drill Pipe: (in anchor):</b> 31.72 FT<br><i>ID-3 1/4</i>                            |                                 |
| <b>Change Over:</b> 1 FT   |                                 |
| <b>Perforations: (below):</b> 29 FT<br><i>4 1/2-FH</i>                                 |                                 |



**Company: Stewart Producers,  
Inc  
Lease: Cunningham #1**

SEC: 19 TWN: 18S RNG: 24W  
County: NESS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2337 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 66

|   |
|---|
| <b>DATE</b><br>October<br><b>10</b><br>2017 |
|---|

**DST #2**      **Formation:**  
**Mississippian**      **Test Interval: 4298 -**  
                                                   **4365'**      **Total Depth: 4365'**

Time On: 03:14 10/10      Time Off: 10:58 10/10  
Time On Bottom: 05:29 10/10      Time Off Bottom: 08:29 10/10

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.1      **Viscosity:** 53      **Filtrate:** 7.4      **Chlorides:** 2,500 ppm





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

TMH 48

FIELD SERVICE TICKET  
1718 15414 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

|                                    |     |  |     |            |     |                            |       |    |      |
|------------------------------------|-----|--|-----|------------|-----|----------------------------|-------|----|------|
| DATE OF JOB 10-11-17 DISTRICT 1718 |     | NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: |     |            |     |                            |       |    |      |
| CUSTOMER Stewart Well Serv         |     | LEASE Cunningham 1 WELL NO.  |     |            |     |                            |       |    |      |
| ADDRESS                            |     | COUNTY Ness STATE KS   |     |            |     |                            |       |    |      |
| CITY STATE                         |     | SERVICE CREW 1718  |     |            |     |                            |       |    |      |
| AUTHORIZED BY                      |     | JOB TYPE: 5 1/2 longstring 242   |     |            |     |                            |       |    |      |
| EQUIPMENT#                         | HRS | EQUIPMENT#   | HRS | EQUIPMENT# | HRS | TRUCK CALLED               | DATE  | AM | TIME |
| 19843                              | 1   |  |     |            |     |                            | 10-11 | PM | 0830 |
|                                    |     |  |     |            |     | ARRIVED AT JOB             | 10-11 | AM | 1030 |
|                                    |     |  |     |            |     | START OPERATION            |       | AM | 3:20 |
| 21010                              | .5  |  |     |            |     | FINISH OPERATION           |       | AM | 4:15 |
|                                    |     |  |     |            |     | RELEASED                   |       | AM | 5:15 |
|                                    |     |  |     |            |     | MILES FROM STATION TO WELL |       |    | 135  |

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *Robert Stewart*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT  | QUANTITY | UNIT PRICE | \$ AMOUNT |
|---------------------|---------------------------------------|-------|----------|------------|-----------|
| CP105               | AA-2 Cement                           |       | 200 sk   |            | 3,400 02  |
| CP103               | 60140 Poz                             |       | 30 sk    |            | 360 00    |
| CC102               | Cell flake                            |       | 50 Lbs   |            | 185 00    |
| CC111               | Salt                                  |       | 1089 Lbs |            | 543 50    |
| CC113               | Gypsum                                |       | 940 Lbs  |            | 705 00    |
| CC129               | Gilsonite                             |       | 1197 Lbs | 801 99     | 1152 50   |
| CC200               | Cement Gel                            |       | 52 Lbs   | 13 99      | 801 49    |
| CF1251              | Auto Fill Shoe                        | 1 ea  | 5 1/2    |            | 360 00    |
| CF607               | L.D. Plug & Baffle                    | 1 ea  | 5 1/2    |            | 400 00    |
| CF481               | Port Collar                           | 1 ea  | 5 1/2    |            | 3500 00   |
| CF1901              | Cement Basket                         | ea    | 5 1/2    |            | 580 00    |
| CF202               | Scratchers                            | 8 ea  | 40 ft    |            | 400 01    |
| CF1651              | Turbolizers                           | 10 ea | 5 1/2    |            | 1100 01   |
| CC151               | Mud flush                             |       | 500 gal  |            | 150 00    |
| CF904               | Clay max                              |       | 1 gal    |            | 35        |
| CC129               | FIA-322                               |       | 151 LBS  |            | 1132 50   |

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|                       |  |                     |             |
|-----------------------|--|---------------------|-------------|
| CHEMICAL / ACID DATA: |  | SUB TOTAL           |             |
|                       |  | SERVICE & EQUIPMENT | % TAX ON \$ |
|                       |  | MATERIALS           | % TAX ON \$ |
|                       |  | TOTAL               |             |

SERVICE REPRESENTATIVE *Mike Mattal* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Robert Stewart*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



|                               |             |                              |
|-------------------------------|-------------|------------------------------|
| Customer<br>Stewart Well Serv | Lease No.   | Date<br>10-11-17             |
| Lease<br>Canningham           | Well #<br>1 |                              |
| Field Order #<br>13474        | Station     | Casing 5 1/2                 |
| Type Job<br>5 1/2 longstring  | Formation   | Depth 4424                   |
|                               |             | County Ness                  |
|                               |             | State KS                     |
|                               |             | Legal Description 19-18s-24w |

| PIPE DATA            |              | PERFORATING DATA |    | FLUID USED       |            | TREATMENT RESUME |                  |  |
|----------------------|--------------|------------------|----|------------------|------------|------------------|------------------|--|
| Casing Size          | Tubing Size  | Shots/Ft         |    | Acid             | RATE       | PRESS            | ISIP             |  |
| 5 1/2                |              |                  |    | 200sk AA-2       |            |                  |                  |  |
| Depth 4424           | Depth        | From             | To | Pre Pad 1.3      | Max        |                  | 5 Min.           |  |
| Volume 105.3         | Volume       | From             | To | Pad 14.8 ppg     | Min        |                  | 10 Min.          |  |
| Max Press 1150       | Max Press    | From             | To | Frac             | Avg        |                  | 15 Min.          |  |
| Well Connection P.C. | Annulus Vol. | From             | To |                  | HHP Used   |                  | Annulus Pressure |  |
| Plug Depth 4582      | Packer Depth | From             | To | Flush 1117.2 KCL | Gas Volume |                  | Total Load       |  |

|   |                                |                     |
|---|--------------------------------|---------------------|
| Customer Representative<br>Rich Stewart | Station Manager<br>J Westerman | Treater<br>M Mattal |
| Service Units<br>83353                  | 64961                          | 19843               |
| Driver Names<br>MATTAL                  | McGraw                         | COBB                |

| Time    | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log                            |
|---------|-----------------|-----------------|--------------|------|--|
| 1:00 PM |                 |                 |              |      | Called Out                             |
|         |                 |                 |              |      | On loc. w/Trk. Safety mtg              |
|         |                 |                 |              |      | FS + Baffle on shoe JT                 |
|         |                 |                 |              |      | Cent 2, 3, 5, 7, 9, 11, 13, 15, 17, 66 |
|         |                 |                 |              |      | P.C. @ 1652'                           |
| 2:15    |                 |                 |              |      | Csg on Bottom Drop Ball & Circ w/Rig   |
| 3:20    | 250             |                 | 24           | 5.5  | St 290 KCL Preflush                    |
| 3:25    | 250             |                 | 12           | 5.5  | St mud flush                           |
| 3:28    | 250             |                 | 5            | 4.5  | H2O spacer                             |
| 3:30    | 300             |                 | 54           | 5.5  | Mix cmt @ 14.8 ppg 200sk               |
| 3:38    |                 |                 |              |      | Finish mixing                          |
| 3:38    |                 |                 | 15           | 4    | Wash Pump & line                       |
| 3:40    | 150             |                 | -            | 6.5  | Drop Plug & St Disp w/H2O              |
| 3:52    | 325             |                 | 72           | 6    | Bl's Out Lift Cmt                      |
| 3:56    | 425             |                 | 94           | 3    | slow rate                              |
| 3:58    | 1500            |                 | 104          |      | Plug down, released & held             |
| 4:10    |                 |                 |              |      | plug rat hole                          |
|         |                 |                 |              |      | circ. thru JOB                         |
|         |                 |                 |              |      | JOB complete                           |
|         |                 |                 |              |      | THANK YOU!                             |
|         |                 |                 |              |      | M, K - MATTAL                          |
|         |                 |                 |              |      | SCOTTY & MIKE + CO                     |

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Services, Inc.

CHARGE TO: STEWART PRODUCERS  
ADDRESS  
CITY, STATE, ZIP CODE

TICKET 30635

PAGE 1 OF 1

|                      |                      |               |                   |                 |               |           |       |
|----------------------|----------------------|---------------|-------------------|-----------------|---------------|-----------|-------|
| SERVICE LOCATIONS    | WELL/PROJECT NO. #1  | LEASE         | COUNTY/PARISH     | STATE           | CITY          | DATE      | OWNER |
| 1. Ness City, KS     |                      | CUNNINGHAM    | Ness              | KS              |               | 10-18-17  | SAME  |
|                      | TICKET TYPE          | CONTRACTOR    | RIG NAME/NO.      | SHIPPED VIA     | DELIVERED TO  | ORDER NO. |       |
|                      | SALES                | MORRIS DALL   |                   | BY              | Location      |           |       |
|                      | WELL TYPE            | WELL CATEGORY | JOB PURPOSE       | WELL PERMIT NO. | WELL LOCATION |           |       |
|                      | Oil                  | Development   | Center Port Guard |                 | NE / Lebo, KS |           |       |
| 4. REFERRAL LOCATION | INVOICE INSTRUCTIONS |               |                   |                 |               |           |       |

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING |      | DESCRIPTION               | MILEAGE # | QTY.  | U/M | QTY.  | U/M | UNIT PRICE | AMOUNT  |
|-----------------|----------------------------------|------------|------|---------------------------|-----------|-------|-----|-------|-----|------------|---------|
|                 |                                  | LOC        | ACCT |                           |           |       |     |       |     |            |         |
| 575             |                                  |            |      |                           | 112       | 10    | ME  |       |     | 5.00       | 50.00   |
| 576bd           |                                  |            |      | PUMP GUAGE - Port Guard   |           | 1     | JOB | 1674  | FT  | 1250.00    | 1250.00 |
| 105             |                                  |            |      | PORT GUAGE - TOOL RESTA   |           | 1     | JOB |       |     | 275.00     | 275.00  |
| 107             |                                  |            |      | STRAPPED HEAD RESTA       |           | 1     | DAY |       |     | 200.00     | 200.00  |
| 330             |                                  |            |      | SUBST MOUNT - DASHY STAND |           | 175   | SBS |       |     | 15.175     | 2756.25 |
| 276             |                                  |            |      | FLOUCE                    |           | 50    | US  |       |     | 2.25       | 112.50  |
| 290             |                                  |            |      | BAR                       |           | 2     | EA  |       |     | 42.00      | 84.00   |
| 581             |                                  |            |      | SEARIZE GUAGE CONST       |           | 200   | SBS |       |     | 1.50       | 300.00  |
| 582             |                                  |            |      | MINIMUM DEVIAGE GUAGE     |           | 19950 | US  | 99.75 | MM  | 250.00     | 250.00  |

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

**REMIT PAYMENT TO:**  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

**SURVEY**

|  |                              |                             |           |
|--|------------------------------|-----------------------------|-----------|
| OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?                               | AGREE                        | UN-DECIDED                  | DIS-AGREE |
| WE UNDERSTOOD AND MET YOUR NEEDS?  |                              |                             |           |
| OUR SERVICE WAS PERFORMED WITHOUT DELAY?                                 |                              |                             |           |
| WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? |                              |                             |           |
| ARE YOU SATISFIED WITH OUR SERVICE?                                      | <input type="checkbox"/> YES | <input type="checkbox"/> NO |           |

CUSTOMER DID NOT WISH TO RESPOND

TOTAL 5500.55

DATE SIGNED: 10-18-17 TIME SIGNED: 0930

SWIFT OPERATOR: WAYNE WATSON APPROVAL:

THANK YOU!



JOB LOG

SWIFT Services, Inc.

DATE 10-18-17 PAGE NO. 1

CUSTOMER STEWART PRODUCERS WELL NO. #1 LEASE CUNNINGHAM JOB TYPE CEMENT PORT COLLAR TICKET NO. 30635

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBLS/GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS                                 |
|-----------|------|------------|-------------------|-------|---|----------------|--------|--|
|           |      |            |                   | T     | C | TUBING         | CASING |  |
|           | 0930 |            |                   |       |   |                |        | ON LOCATION<br>2 7/8 x 5 1/2<br>PORT COLLAR = 1674'                    |
|           | 0945 |            |                   |       | ✓ |                | 1000   | PSI TEST CASING - HELD   |
|           | 0950 | 3          | 3                 | ✓     |   |                | 300    | OPEN PORT COLLAR - TEST RATE   |
|           | 0955 | 4 1/2      | 97                | ✓     |   |                | 300    | MAX CEMENT 175 SKS SMD = 11.2 PPG                                      |
|           | 1015 | 4          | 8 1/2             | ✓     |   |                | 450    | DISPLACE CEMENT  |
|           | 1025 |            |                   |       | ✓ |                | 1000   | CLOSE PORT COLLAR - PSI TEST - HELD<br>CIRCULATED 15 SKS CEMENT TO PIT |
|           | 1040 | 4          | 25                | ✓     |   |                | 450    | RUN 5 JTS - CIRCULATE CLEAN<br>WASH TRUCK                              |
|           | 1130 |            |                   |       |   |                |        | JOB COMPLETE   |

THANK YOU  
WAYNE, DAVE K., SUANE



KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 4 WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

STEWART PRODUCERS, INC.

COMPANY #1 COUNBURN

FIELD #1 WILDART

LOCATION C-51 FEL # 1400 FWL

SEC 19 T-8SP 1B8 R-24W

COUNTY Ness STATE KANSAS

CONTRACTOR L.D. DRILLING, INC.

SPUD 10-3-17 COMD 10-11-17

RTD 4424 LTD 4420

MWD UP 3470 TYPE MWD CHEMICAL

SAMPLES SAVED FROM 3000 TO 4424

DRILLING TIME KEPT FROM 3000 TO 4424

SAMPLES EXAMINED FROM 3000 TO 4424

GEOLOGICAL SUPERVISION FROM 3800 TO 4424

GEOLOGIST ON WELL Kim B. Shoemaker

FORWARD TO TOPS

ANNUKITE 1649-723

B/ANN 1656-686

HEEBNER 3715-1373

LANSING 3754-1412

PANNEE 9183-1841

MISSISSIPPI 4355-2013

RTD 4424-2082

Weight 87, Vol 7.6, Cal 2600

Weight 49, Vol 7.4, Cal 2500

Weight 51, Vol 7.8, Cal 2500

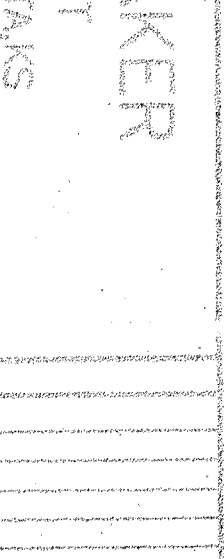
Weight 26, Vol 9.2, Cal 3500

Weight 76, Vol 9.2, Cal 3500

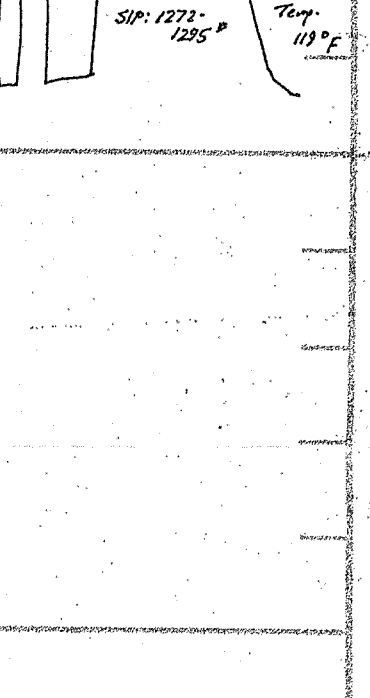
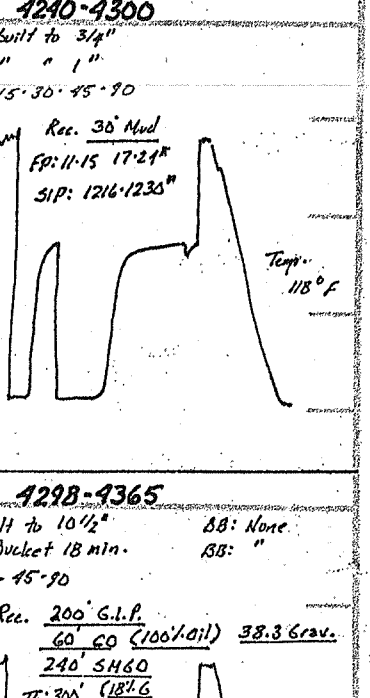
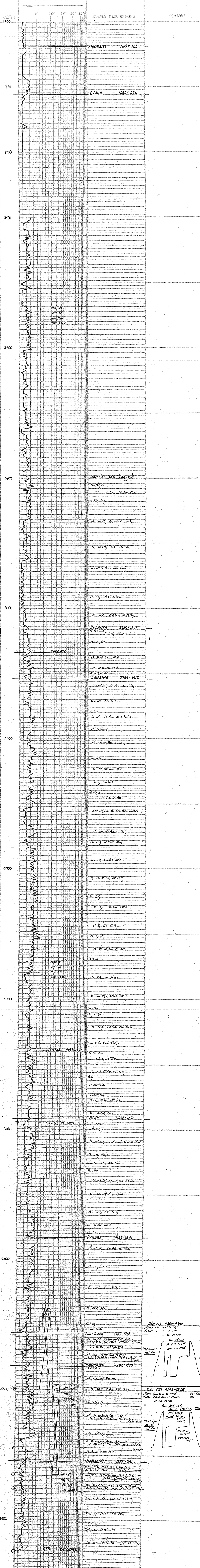
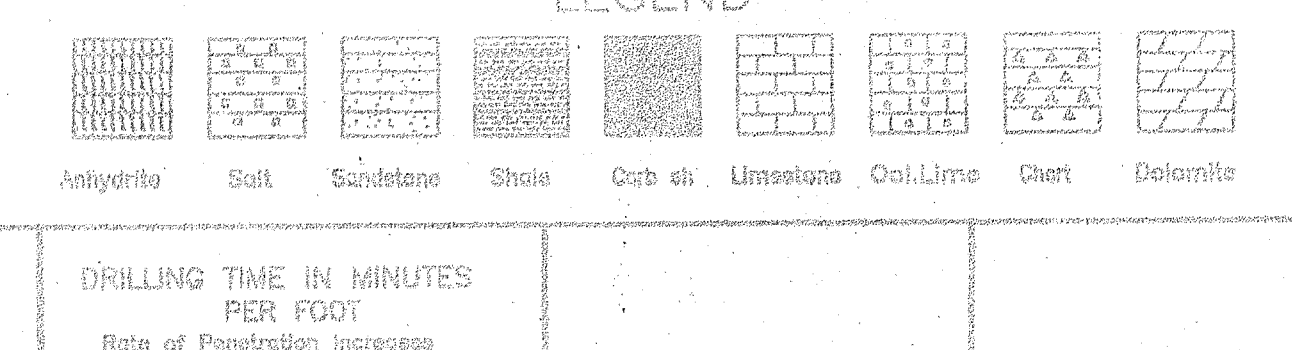
Weight 26, Vol 9.2, Cal 3500

Weight 26, Vol 9.2, Cal 3500

Weight 26, Vol 9.2, Cal 3500



LEGEND



REMARKS: 10-3-17 5PUD, 10-4 @ 251', 10-5 @ 1900', 10-6 @ 2828', 10-7 @ 3450', 10-8 @ 4300', 10-9 @ 4365', 10-11 @ 4424'





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

FIELD SERVICE TICKET  
0641060325  
1718 13991 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

|                                      |  |  |  |
|--------------------------------------|--|--|--|
| OF<br>B 10/3/17 DISTRICT             |  | NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: |  |
| CUSTOMER <i>Stewart Well Service</i> |  | LEASE <i>Cunningham</i> WELL NO. 1   |  |
| ADDRESS                              |  | COUNTY <i>Ness</i> STATE <i>Kes</i>  |  |
| CITY STATE                           |  | SERVICE CREW <i>Scott McGrew Riley</i>   |  |
| AUTHORIZED BY <i>Robert</i>          |  | JOB TYPE: <i>8 5/8 Surface Pipe 242</i>  |  |

| EQUIPMENT#     | HRS        | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED               | DATE           | AM | PM | TIME         |
|----------------|------------|------------|-----|------------|-----|----------------------------|----------------|----|----|--------------|
| <i>816779*</i> | <i>1.5</i> |            |     |            |     | ARRIVED AT JOB             | <i>10/3/17</i> | AM |    | <i>9:15</i>  |
| <i>73768</i>   | <i>1.2</i> |            |     |            |     | START OPERATION            | <i>10/3/17</i> | AM |    | <i>10:15</i> |
|                |            |            |     |            |     | FINISH OPERATION           | <i>10/3/17</i> | AM |    | <i>10:30</i> |
|                |            |            |     |            |     | RELEASED                   | <i>10/3/17</i> | AM |    | <i>11:00</i> |
|                |            |            |     |            |     | MILES FROM STATION TO WELL |                |    |    |              |

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).  
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

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

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY   | UNIT PRICE | \$ AMOUNT   |
|---------------------|---------------------------------------|------|------------|------------|-------------|
| CP103               | <i>60/40 POZ</i>                      | SK   | <i>175</i> |            | <i>2100</i> |
| CC102               | <i>celloflake</i>                     | lb   | <i>44</i>  |            | <i>162</i>  |
| CC109               | <i>Calcium Chloride</i>               | lb   | <i>453</i> |            | <i>475</i>  |
| E100                | <i>Unit Mileage Pick up</i>           | MI   | <i>100</i> |            | <i>450</i>  |
| E101                | <i>Heavy Equipment Mileage</i>        | MI   | <i>200</i> |            | <i>1500</i> |
| E113                | <i>Prop + Bulk Delivery</i>           | SM   | <i>755</i> |            | <i>1887</i> |
| CE200               | <i>Depth Charge 0-500'</i>            | 4hr  | <i>1</i>   |            | <i>1000</i> |
| CE240               | <i>Blending + Mixing Service</i>      | SK   | <i>175</i> |            | <i>275</i>  |
| SO03                | <i>Service Supervisor</i>             | ea   | <i>1</i>   |            | <i>1750</i> |
| SUB TOTAL           |                                       |      |            |            | <i>7995</i> |

| CHEMICAL / ACID DATA: |  |  |  |
|-----------------------|--|--|--|
|                       |  |  |  |
|                       |  |  |  |
|                       |  |  |  |

|                     |            |
|---------------------|------------|
| SERVICE & EQUIPMENT | %TAX ON \$ |
| MATERIALS           | %TAX ON \$ |
| TOTAL               |            |
| <i>4397</i>         |            |

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

FIELD SERVICE ORDER NO. \_\_\_\_\_



|                             |               |              |              |             |
|-----------------------------|---------------|--------------|--------------|-------------|
| Work Well Service           |               | Lease No.    | Date         |             |
| Birmingham                  |               | Well # 1     | 10/3/17      |             |
| Order # 3991A               | Station Pratt | Casing 8 5/8 | Depth 254.69 | County Ness |
| Type Job 8 5/8 Surface Pipe |               |              | Formation    | State KS    |

| PIPE DATA             |              | PERFORATING DATA |    | FLUID USED |            | TREATMENT RESUME |                  |  |
|-----------------------|--------------|------------------|----|------------|------------|------------------|------------------|--|
| Casing Size           | Tubing Size  | Shots/Ft         |    | Acid       | RATE       | PRESS            | ISIP             |  |
| 26.19                 |              |                  |    | Pre Pad    | Max        |                  | 5 Min.           |  |
| Depth 8 5/8           | Depth        | From             | To | Pad        | Min        |                  | 10 Min.          |  |
| Volume 254.69         | Volume       | From             | To | Frac       | Avg        |                  | 15 Min.          |  |
| Max Press 500         | Max Press    | From             | To |            | HHP Used   |                  | Annulus Pressure |  |
| Well Connection 8 5/8 | Annulus Vol. | From             | To | Flush      | Gas Volume |                  | Total Load       |  |
| Plug Depth            | Packer Depth | From             | To |            |            |                  |                  |  |

|   |                                  |                  |
|---|----------------------------------|------------------|
| Customer Representative Rich                | Station Manager Justin Westerman | Treater Scott G. |
| Service Units 38950 28982 86279 19903 73768 |                                  |                  |
| Driver Names Scott McGowan - Riley          |                                  |                  |

| Time  | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log                     |
|-------|-----------------|-----------------|--------------|------|---------------------------------|
| 9:15  |                 |                 |              |      | On Location Safety Meeting Rigs |
| 10:05 |                 |                 |              |      | Break Circulation               |
| 10:17 | 100             |                 |              | 5    | Pump H <sub>2</sub> O Spacer    |
| 10:18 | 150             |                 | 3            | 5    | Start Cement 175 sks 60/40 R    |
| 10:27 | 100             |                 | 37.8         | 5    | Start Displacement              |
| 10:30 | 200             |                 | 15.25        | 0    | Shut down<br>Job Complete       |