

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><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  | Merit Energy Company, LLC     |
| Well Name | GRIFFIN COX CHESTER UNIT 702W |
| Doc ID    | 1312278                       |

All Electric Logs Run

|   |
|---|
|   |
| ANNULAR HOLE VOLUME                           |
| ARRAY COMPENSATED TRUE RESISTIVITY LOG        |
| ARRAY COMPENSATED TRUE RESISTIVITY LOG 1 INCH |
| ARRAY COMPENSATED TRUE RESISTIVITY LOG 2 INCH |
| BOREHOLE COMPENSATED SONIC ARRAY LOG          |
| DUAL SPACED NEUTRON SPECTRAL DENSITY LOG      |
| MICROLOG                                      |
| QUAD COMBO LOG                                |

|           |                               |
|-----------|-------------------------------|
| Form      | ACO1 - Well Completion        |
| Operator  | Merit Energy Company, LLC     |
| Well Name | GRIFFIN COX CHESTER UNIT 702W |
| Doc ID    | 1312278                       |

Tops

| Name         | Top  | Datum |
|--------------|------|-------|
| Heebner      | 4109 |       |
| Toronto      | 4129 |       |
| Lansing      | 4194 |       |
| Kansas City  | 4610 |       |
| Marmaton     | 4760 |       |
| Pawnee       | 4856 |       |
| Cherokee     | 4899 |       |
| Atoka        | 5130 |       |
| Morrow       | 5176 |       |
| Chester      | 5307 |       |
| St Genevieve | 5409 |       |





*Depend on US*

# Post Job Report

## **Merit Energy**

GCCU 702W

3/22/2016

8.625" Surface Casing

Haskell County, KS





Table of Contents:

|                                       |   |
|---------------------------------------|---|
| 1.0 Executive Summary.....            | 3 |
| 2.0 Job Summary.....                  | 4 |
| 2.1 Job Event Log.....                | 4 |
| 2.2 Job Chart.....                    | 5 |
| 3.0 Water Testing.....                | 6 |
| 4.0 Customer Satisfaction Survey..... | 7 |



### 1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well GCCU 702W.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 2000 psi. After a successful test we began the job by pumping 10 bbls of Fresh Water spacer. We then mixed and pumped the following cements:

|                  |     |      |                   |
|------------------|-----|------|-------------------|
| 158.95           | bbl | 350  | Sacks of 12.1 ppg |
| Class A Slurry - |     | 2.55 | Yield             |

- 2.0% Sodium Metasilicate
- 2.0% Gypsum
- 4.0% Gel
- 2.0% Sodium Chloride
- 3.0 % Calcium Chloride
- 0.25 lb Cellophane Flake

|                  |     |      |                   |
|------------------|-----|------|-------------------|
| 31.67            | bbl | 140  | Sacks of 15.2 ppg |
| Class A Slurry - |     | 1.27 | Yield             |

- 2.0 % Calcium Chloride
- 0.25 lb Cellophane Flake

The top plug was then released and displaced with 101 Bbls of Fresh Water. The plug bumped and was pressured to 1500 psi. Upon release the floats held. 45 bbl cement returned to the pit.

All real time data can be view in the Job Summary section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



### Cement Job Summary

|                                       |                                |
|---------------------------------------|--------------------------------|
| Job Number: <b>Lib1603221655</b>      | Job Purpose: <b>01 Surface</b> |
| Customer: <b>MERIT ENERGY COMPANY</b> | Date: <b>3/22/2016</b>         |
| Well Name: <b>GCCU</b>                | Number: <b>702W</b>            |
| County: <b>Haskell</b>                | City: <b>Sublette</b>          |
| Cust. Rep:                            | Phone:                         |
| Distance: <b>50 miles (one way)</b>   | Supervisor: <b>Lenny Baeza</b> |

| Employees:    | Emp. ID: | Employees:      | Emp. ID: |
|---------------|----------|-----------------|----------|
| Oscar Sigala  |          | Ramon Escarcega |          |
| Jose Calderon |          | Lenny Baeza     |          |

| Equipment: | Emp. ID: |
|------------|----------|
| 994-550    | 993-1066 |
| 955-842    |          |

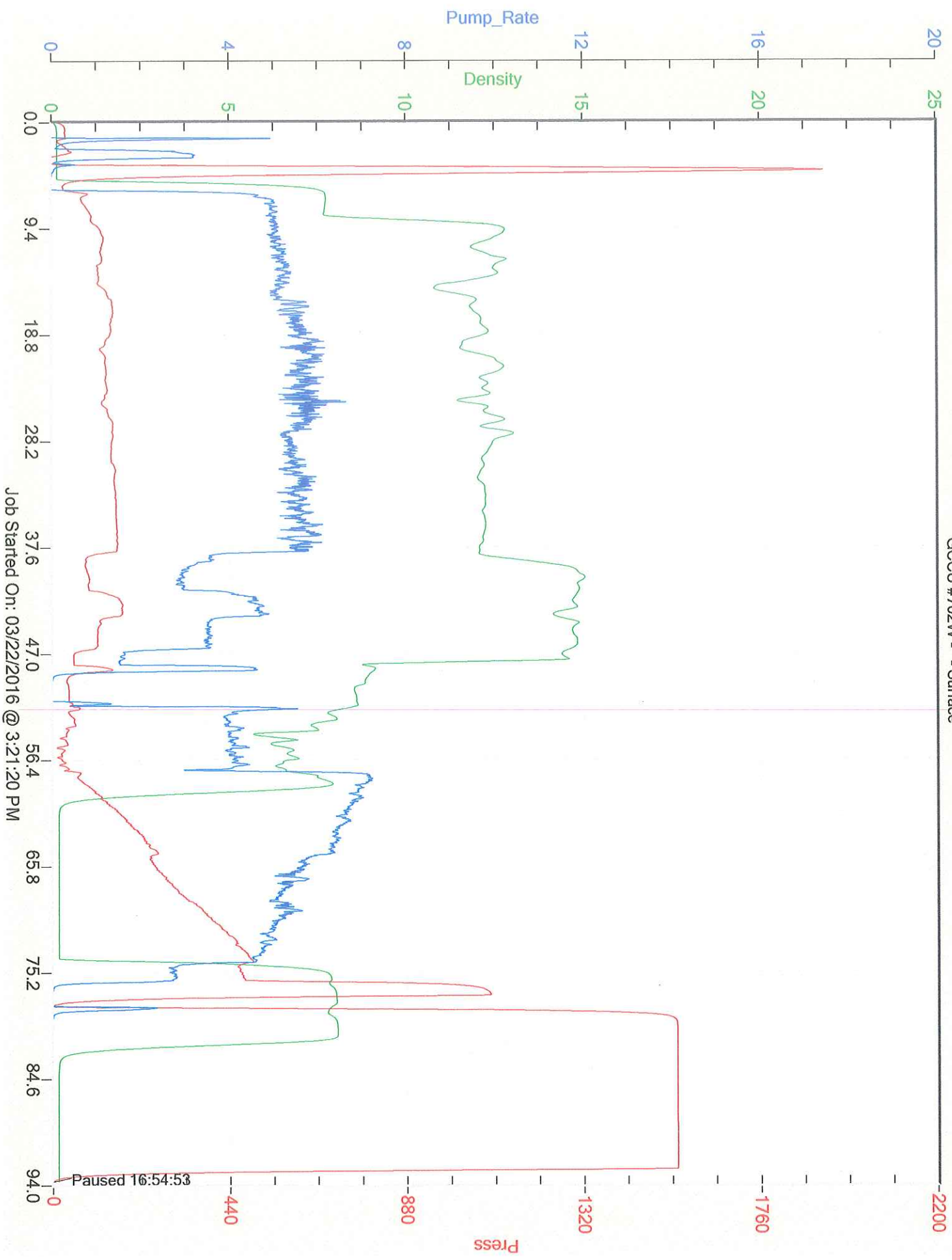
| Materials - Pumping Schedule |                                       |             |         |       |                |
|------------------------------|---------------------------------------|-------------|---------|-------|----------------|
| STAGE #1                     |                                       |             |         |       |                |
| Fluid Name                   | Description                           | Rqstd Qty   | Density | Yield | Water (gal/sk) |
| Spacer 1                     | FRESH WATER                           | 10          | 8.33    | n/a   | n/a            |
| Fluid Name                   | Description                           | Rqstd Qty   | Density | Yield | Water (gal/sk) |
| Lead 1                       | ALLIED MULTI-DENSITY CEMENT - CLASS A | 350         | 12.10   | 2.55  | 14.86          |
| Fluid Name                   | Description                           | Rqstd Qty   | Density | Yield | Water (gal/sk) |
| Tail 1                       | CLASS A COMMON                        | 140         | 15.19   | 1.27  | 5.75           |
| Fluid Name                   | Description                           | Rqstd Qty   | Density | Yield | Water (gal/sk) |
| Disp. 1                      | Displacement                          | 101.1294929 | 8.33    | n/a   | n/a            |

| Slurry: Lead 1 |                                    |               |                |               |                |  | Slurry Name: ALLIED MULTI-DENSITY CEMENT - CLASS A Light |  |  |  |  |  |  |
|----------------|------------------------------------|---------------|----------------|---------------|----------------|--|--|--|--|--|--|--|--|
| Quantity:      | 350 sacks                          | Blend Vol:    | 441.2 cu.ft.   | Blend Weight: | 37560.4866 lbs |  |  |  |  |  |  |  |  |
| Material       | Description                        | Conc. (lb/sk) | Determined by  | Load Volume   | UOM            |  |  |  |  |  |  |  |  |
| CCAC           | CLASS A COMMON                     | 94            | % Base Materia | 32900.0       | lbm            |  |  |  |  |  |  |  |  |
| CA-500         | GYPSUM                             | 1.88          | % BWOC         | 658.0         | lbm            |  |  |  |  |  |  |  |  |
| CA-400         | SODIUM METASILICATE                | 1.88          | % BWOC         | 658.0         | lbm            |  |  |  |  |  |  |  |  |
| Cgel           | GEL - BENTONITE                    | 3.76          | % BWOC         | 1316.0        | lbm            |  |  |  |  |  |  |  |  |
| CA-200         | SODIUM CHLORIDE                    | 2.475676      | % BWOW         | 866.5         | lbm            |  |  |  |  |  |  |  |  |
| CA-100         | CALCIUM CHLORIDE, PELLETS OR FLAKE | 2.82          | % BWOC         | 987.0         | lbm            |  |  |  |  |  |  |  |  |
| CLC-CPF        | CELLOPHANE FLAKES                  | 0.5           | lb/sk          | 175.0         | lbm            |  |  |  |  |  |  |  |  |
| Water          | Mixing Water                       | 14.86         | gal/sk         | 5201          | gal            |  |  |  |  |  |  |  |  |

| Slurry: Tail 1 |                                    |               |                |               |             |  | Slurry Name: CLASS A COMMON |  |  |  |  |  |  |
|----------------|------------------------------------|---------------|----------------|---------------|-------------|--|-----------------------------|--|--|--|--|--|--|
| Quantity:      | 140 sacks                          | Blend Vol:    | 149.88 cu.ft.  | Blend Weight: | 13493.2 lbs |  |                             |  |  |  |  |  |  |
| Material       | Description                        | Conc. (lb/sk) | Determined by  | Load Volume   | UOM         |  |                             |  |  |  |  |  |  |
| CCAC           | CLASS A COMMON                     | 94            | % Base Materia | 13160.0       | lbm         |  |                             |  |  |  |  |  |  |
| CA-100         | CALCIUM CHLORIDE, PELLETS OR FLAKE | 1.88          | % BWOC         | 263.2         | lbm         |  |                             |  |  |  |  |  |  |
| CLC-CPF        | CELLOPHANE FLAKES                  | 0.5           | lb/sk          | 70.0          | lbm         |  |                             |  |  |  |  |  |  |
| Water          | Mixing Water                       | 5.75          | gal/sk         | 805.0         | gal         |  |                             |  |  |  |  |  |  |

|                                       |                                |
|---------------------------------------|--------------------------------|
| Job Number: <b>Lib1603221655</b>      | Job Purpose: <b>01 Surface</b> |
| Customer: <b>MERIT ENERGY COMPANY</b> | Date: <b>3/22/2016</b>         |
| Well Name: <b>GCCU</b>                | Number: <b>702W</b>            |
| County: <b>Haskell</b>                | City: <b>Sublette</b>          |
| Cust. Rep:                            | Phone:                         |
| Distance: <b>50 miles (one way)</b>   | Supervisor: <b>Lenny Baeza</b> |







Customer: MERIT ENERGY COMPANY  
Date: Tuesday, March 22, 2016  
Well Name: GCCU # 702W  
Well Location: Sublette  
Supervisor: Lenny Baeza

Equipment Operators: Oscar Sigala - Ramon Escarcega - Jose Calderon - Lenny Baeza

Performance

Customer

| Performance   | Customer |
|---|----------|
| Was the appearance of the personnel and equipment satisfactory? | Yes No   |
| Was the job performed in a professional manner?                 | Yes No   |
| Were the calculations prepared and explained properly?          | Yes No   |
| Were the correct services dispatched to the job site?           | Yes No   |
| Were the services performed as requested?                       | Yes No   |
| Did the job site environment remain unchanged?                  | Yes No   |
| Did the equipment perform in the manner expected?               | Yes No   |
| Did the materials meet your expectations?                       | Yes No   |
| Was the crew prepared for the job?                              | Yes No   |
| Was the crew prompt in the rig-up and actual job?               | Yes No   |
| Were reasonable recommendations given, as requested?            | Yes No   |
| Did the crew perform safely?                                    | Yes No   |
| Was the job performed to your satisfaction?                     | Yes No   |

Customer Signature:

Date: 3-22-16

Additional Comments: Good Job



**CEMENT MIXING WATER GUIDELINES**

Company Name:

**MERIT ENERGY COMPANY**

Lease Name:

**GCCU # 702W**

County

**Haskell**

State

**KS**

Water Source:

**TANK**

Submitted By:

**Lenny Baeza**

Date:

**3/22/2016**

pH Level

**Good**

Must be less than 8.5

Sulfates

**Good**

Must be less than 1,000 PPM

Chlorides

**Good**

Must be less than 3,000 PPM

Temperature

**68**

Must be less than 100 deg F

**COMMENTS**

Thank You

Customer Signature



*Depend on US*

# Post Job Report

## **Merit Energy**

GCCU 702W

3/27/2015

5.5" 2-Stage Production Casing

Haskell County, KS





Table of Contents:

1.0 Executive Summary.....3

2.0 Job Summary.....4

    2.1 Job Event Log.....4

    2.2 Job Chart.....6

3.0 Water Testing.....8

4.0 Customer Satisfaction Survey.....9



## 1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well GCCU 702W intermediate casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 3000 psi. After a successful test we began the job by plugging the rat hole and mouse hole with 50 sacks and then began pumping 12 bbls of HiVis Sweep spacer. We then mixed and pumped the following cements:

1<sup>st</sup> Stage:

|                          |                      |
|--------------------------|----------------------|
| 18.64 bbl                | 65 Sacks of 13.6 ppg |
| 50/50 H Slurry:          | 1.61 Yield           |
| 10.0% Salt               |                      |
| 5.0% Gypsum              |                      |
| 2.0% Gel                 |                      |
| 0.5% CFL-210             |                      |
| 5.0 lb Kol-Seal          |                      |
| 0.25 lb Cellophane Flake |                      |
| 0.2% CD-100              |                      |

2<sup>nd</sup> Stage:

|                          |                       |
|--------------------------|-----------------------|
| 54.71 bbl                | 160 Sacks of 13.6 ppg |
| Class A Slurry -         | 1.92 Yield            |
| 10.0% Salt               |                       |
| 6.0% Gypsum              |                       |
| 2.0% Gel                 |                       |
| 0.5% CFL-210             |                       |
| 5.0 lb Kol-Seal          |                       |
| 0.25 lb Cellophane Flake |                       |

The first stage was displaced with 35 bbl fresh water and 94 Bbls of WBM. The plug bumped and was pressured to 890 psi. Upon release the floats held. The stage tool was opened at 820 psi and the rig circulated 4 hours. These second stage was displaced with 118 bbl fresh water. The plug bumped and was pressured to 1590.

All real time data can be view in the Job Summary section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



### Cement Job Summary

|                                |  |            |  |
|--------------------------------|--|------------|--|
| Job Number: LIB1603271033      | Job Purpose: 02 Production/Long String |            |  |
| Customer: MERIT ENERGY COMPANY | Date: 3/27/2016                        |            |  |
| Well Name: GCCU                | Number: #702W                          | API/UWI:   |  |
| County: Haskell                | City: Sublette                         | State: KS  |  |
| Cust. Rep:                     | Phone:                                 | Rig Phone: |  |
| Distance: 50 miles (one way)   | Supervisor: Edgar Rodriguez            |            |  |

| Employees:      | Emp. ID: | Employees: | Emp. ID: |
|-----------------|----------|------------|----------|
| Edgar Rodriguez | #N/A     |            |          |
| Aldo Espinoza   | #N/A     |            |          |
| Jose Calderon   | #N/A     |            |          |

| Equipment: | Emp. ID: | Emp. ID: |
|------------|----------|----------|
|            | 1039     |          |
|            | 531      | 541      |
|            | 993      | 1066     |

| Materials - Pumping Schedule |                                       |           |         |       |                |  |
|------------------------------|---------------------------------------|-----------|---------|-------|----------------|--|
| STAGE #1                     |                                       |           |         |       |                |  |
| Fluid Name                   | Description                           | Rqstd Qty | Density | Yield | Water (gal/sk) |  |
| Spacer 1                     | HIVIS SWEEP                           | 12        | 8.40    | n/a   | n/a            |  |
| Fluid Name                   | Description                           | Rqstd Qty | Density | Yield | Water (gal/sk) |  |
| Tail 1                       | ALLIED 50/50 POZ BLEND - CLASS H      | 65        | 13.60   | 1.61  | 7.37           |  |
| Fluid Name                   | Description                           | Rqstd Qty | Density | Yield | Water (gal/sk) |  |
| Disp. 1                      | Displacement                          | 137       | 8.33    | n/a   | n/a            |  |
| STAGE #2                     |                                       |           |         |       |                |  |
| Fluid Name                   | Description                           | Rqstd Qty | Density | Yield | Water (gal/sk) |  |
| Stg 2 Spacer 1               | HIVIS SWEEP                           | 12        | 8.40    | n/a   | n/a            |  |
| Fluid Name                   | Description                           | Rqstd Qty | Density | Yield | Water (gal/sk) |  |
| Stg 2 Lead 1                 | ALLIED SPECIAL BLEND CEMENT - CLASS A | 50        | 13.60   | 1.92  | 9.56           |  |
| Fluid Name                   | Description                           | Rqstd Qty | Density | Yield | Water (gal/sk) |  |
| Stg 2 Tail 1                 | ALLIED SPECIAL BLEND CEMENT - CLASS A | 160       | 13.60   | 1.92  | 9.56           |  |
| Fluid Name                   | Description                           | Rqstd Qty | Density | Yield | Water (gal/sk) |  |
| Stg 2 Disp. 1                | Displacement                          | 137       | 8.33    | n/a   | n/a            |  |

| Slurry: Tail 1      Slurry Name: ALLIED 50/50 POZ BLEND - CLASS H |                                |               |                 |               |                |  |
|---|--------------------------------|---------------|-----------------|---------------|----------------|--|
| Quantity:   | 65 sacks                       | Blend Vol:    | 85.35 cu.ft.    | Blend Weight: | 6620.71865 lbs |  |
| Material  | Description                    | Conc. (lb/sk) | Determined by   | Load Volume   | UOM            |  |
| CCHP  | CLASS H PREMIUM                | 47            | % Base Material | 3055.0        | lbm            |  |
| CPOZ  | POZMIX FLYASH                  | 37            | % Base Material | 2405.0        | lbm            |  |
| CGEL  | GEL - BENTONITE                | 1.68          | % BWOC          | 109.2         | lbm            |  |
| CFL-210   | FLUID LOSS ADDITIVE - LOW TEMP | 0.42          | % BWOC          | 27.3          | lbm            |  |
| CLC-KOL   | KOL-SEAL                       | 5             | lb/sk           | 325.0         | lbm            |  |
| CLC-CPF   | CELLOPHANE FLAKES              | 0.25          | lb/sk           | 16.3          | lbm            |  |
| CA-200  | SODIUM CHLORIDE                | 6.13921       | % BWOW          | 399.0         | lbm            |  |
| CA-500  | GYPSUM                         | 4.2           | % BWOC          | 273.0         | lbm            |  |
| CD-100  | CEMENT DISPERSANT              | 0.168         | % BWOC          | 10.9          | lbm            |  |
| Water   | Mixing Water                   | 7.37          | gal/sk          | 479.1         | gal            |  |

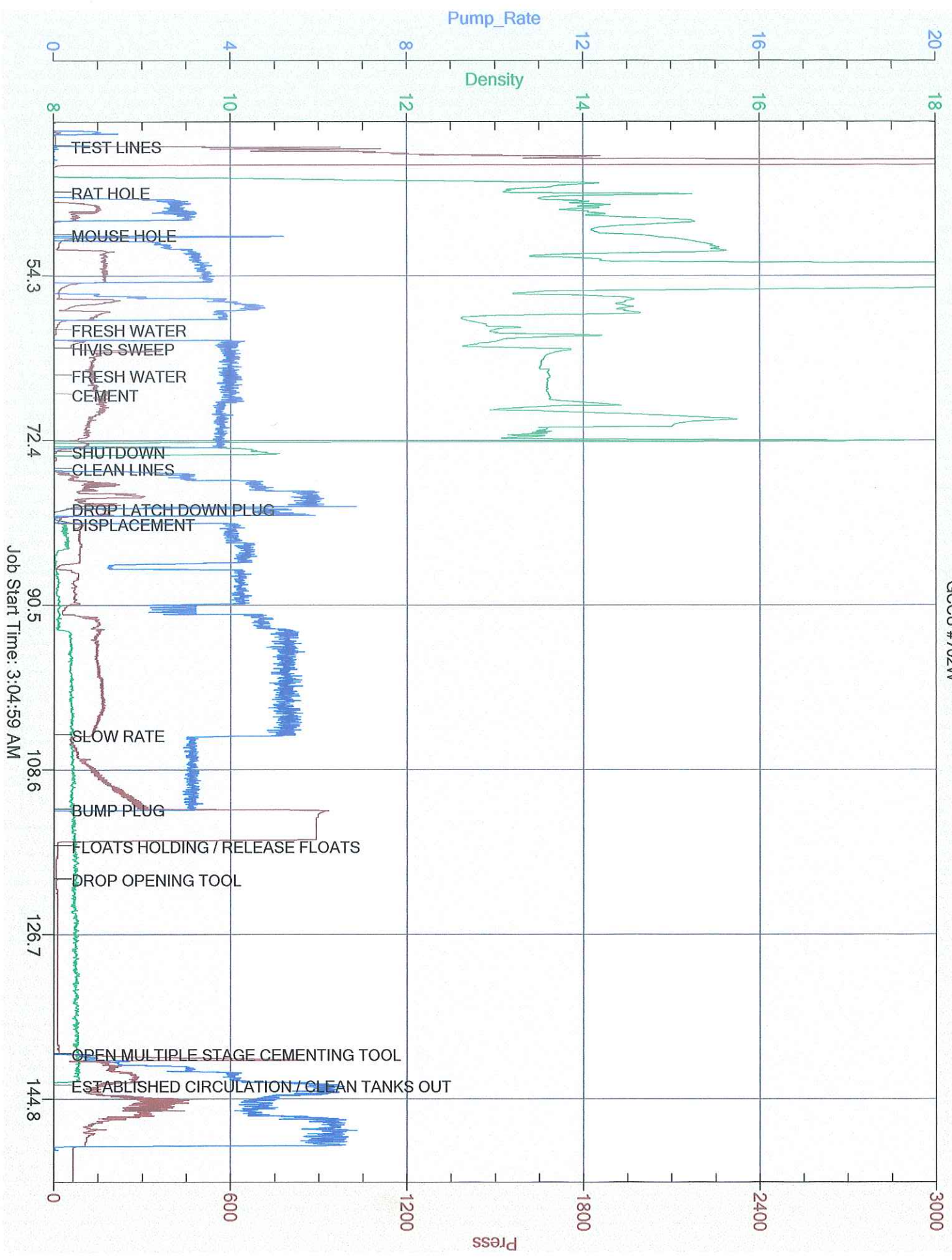
| Slurry: Stg 2 Lead 1      Slurry Name: ALLIED SPECIAL BLEND CEMENT - CLASS A |                                |               |                 |               |               |  |
|--|--------------------------------|---------------|-----------------|---------------|---------------|--|
| Quantity:  | 50 sacks                       | Blend Vol:    | 68.68 cu.ft.    | Blend Weight: | 5756.5827 lbs |  |
| Material   | Description                    | Conc. (lb/sk) | Determined by   | Load Volume   | UOM           |  |
| CCAC   | CLASS A COMMON                 | 94            | % Base Material | 4700.0        | lbm           |  |
| CA-200   | SODIUM CHLORIDE                | 7.96348       | % BWOW          | 398.2         | lbm           |  |
| CA-500   | GYPSUM                         | 5.64          | % BWOC          | 282.0         | lbm           |  |
| CGEL   | GEL - BENTONITE                | 1.88          | % BWOC          | 94.0          | lbm           |  |
| CFL-210  | FLUID LOSS ADDITIVE - LOW TEMP | 0.398174      | % BWOW          | 19.9          | lbm           |  |
| CLC-KOL  | KOL-SEAL                       | 5             | lb/sk           | 250.0         | lbm           |  |
| CLC-CPF  | CELLOPHANE FLAKES              | 0.25          | lb/sk           | 12.5          | lbm           |  |
| Water  | Mixing Water                   | 9.56          | gal/sk          | 478           | gal           |  |

| Slurry: Stg 2 Tail 1      Slurry Name: ALLIED SPECIAL BLEND CEMENT - CLASS A |                                |               |                     |               |                |  |
|--|--------------------------------|---------------|---------------------|---------------|----------------|--|
| Quantity:  | 160 sacks                      | Blend Vol:    | 065807889966 cu.ft. | Blend Weight: | 18432.5568 lbs |  |
| Material   | Description                    | Conc. (lb/sk) | Determined by       | Load Volume   | UOM            |  |
| CCAC   | CLASS A COMMON                 | 94            | % Base Material     | 15040.0       | lbm            |  |
| CA-200   | SODIUM CHLORIDE                | 7.96348       | % BWOW              | 1274.2        | lbm            |  |
| CA-500   | GYPSUM                         | 5.64          | % BWOC              | 902.4         | lbm            |  |
| CGEL   | GEL - BENTONITE                | 1.88          | % BWOC              | 300.8         | lbm            |  |
| CFL-210  | FLUID LOSS ADDITIVE - LOW TEMP | 0.47          | % BWOC              | 75.2          | lbm            |  |
| CLC-KOL  | KOL-SEAL                       | 5             | lb/sk               | 800.0         | lbm            |  |
| CLC-CPF  | CELLOPHANE FLAKES              | 0.25          | lb/sk               | 40.0          | lbm            |  |
| Water  | Mixing Water                   | 9.56          | gal/sk              | 1529.6        | gal            |  |

### Cement Job Summary

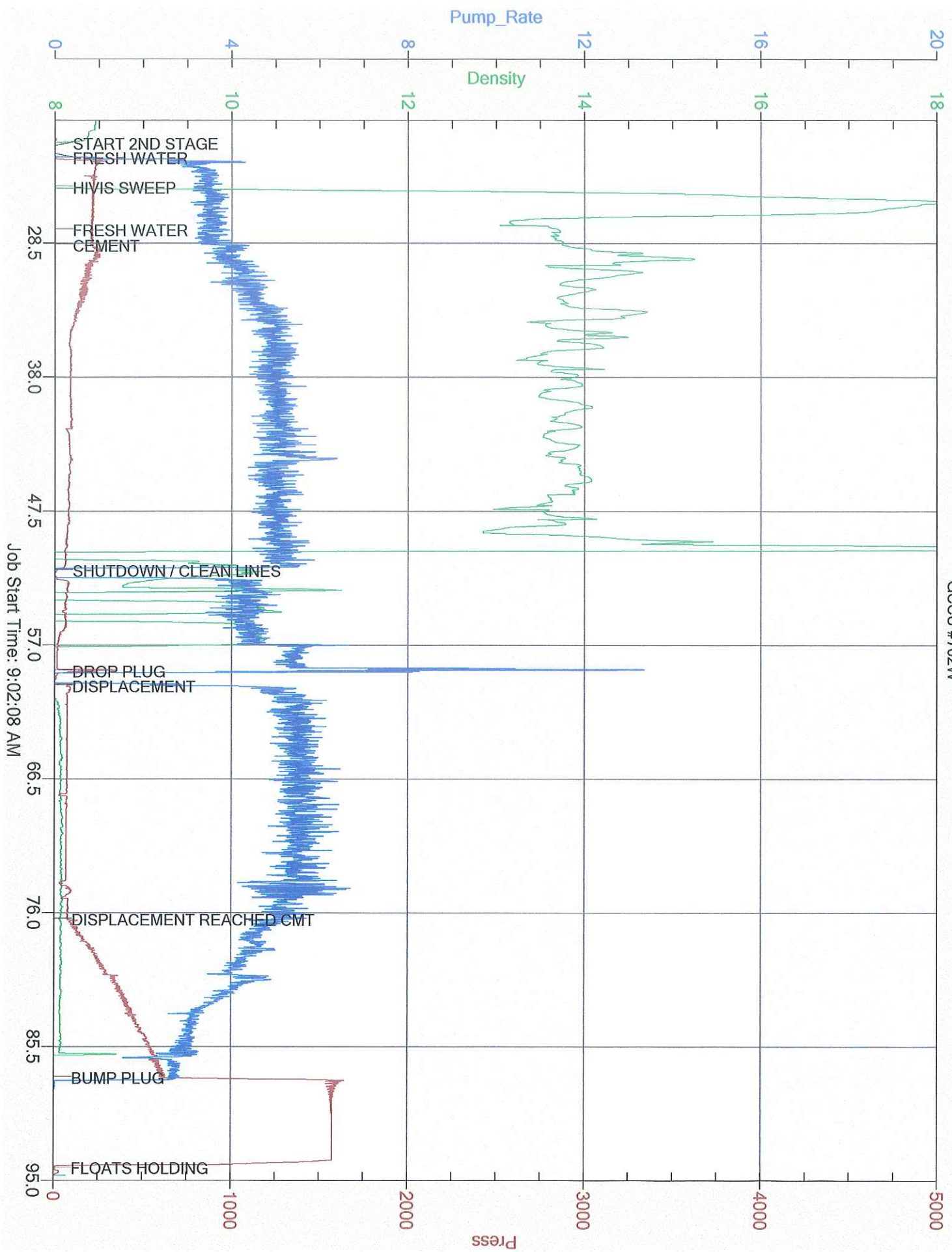
| Job Number: LIB1603271033      |             | Job Purpose: 02 Production/Long String |               | Date: 3/27/2016   |            |   |
|--------------------------------|-------------|--|---------------|-------------------|------------|---|
| Customer: MERIT ENERGY COMPANY |             |  | Number: #702W |                   | API/UWI:   |   |
| Well Name: GCCU                |             | City: Sublette                         |               | State: KS         |            |   |
| County: Haskell                |             | Phone:                                 |               | Rig Phone: 0      |            |   |
| Cust. Rep:                     |             | Supervisor: Edgar Rodriguez            |               |                   |            |   |
| Distance: 50 miles (one way)   |             |  |               |                   |            |   |
| DATE                           | TIME        | PRESSURE - (PSI)                       |               | FLUID PUMPED DATA |            | COMMENTS  |
|                                | AM/PM       | CASING                                 | ANNULUS       | VOLUME            | RATE (BPM) |   |
| 3/26/2016                      | 8:20:00 PM  |  |               |                   |            | ARRIVE TO LOCATION  |
| 3/26/2016                      | 8:20:00 PM  |  |               |                   |            | RIG NIPPLING DOWN BOP / RIGGING DOWN KELLY LINE               |
| 3/26/2016                      | 9:00:00 PM  |  |               |                   |            | SPOT EQUIPMENT / RIG UP GROUND                                |
| 3/26/2016                      | 10:20:00 PM |  |               |                   |            | RIG RUNNING CASING  |
| 3/27/2016                      | 2:10:00 AM  |  |               |                   |            | CASING ON BOTTOM  |
| 3/27/2016                      | 2:15:00 AM  |  |               |                   |            | STAB CMT HEAD AND RIG UP FLOOR TO CIRCULATE                   |
| 3/27/2016                      | 2:45:00 AM  |  |               |                   |            | CASING CREW OUT OF WAY / RIG UP GROUND                        |
| 3/27/2016                      | 3:30:00 AM  |  |               |                   |            | PRE-JOB SAFETY MEETING  |
| 3/27/2016                      | 3:43:00 AM  |  |               |                   |            | TEST LINES  |
| 3/27/2016                      | 3:52:00 AM  | 40                                     |               | 17                | 2          | PLUG RAT & MOUSE HOLE WITH 50 SKS OF CMT                      |
| 3/27/2016                      | 4:04:00 AM  | 130                                    |               | 3                 | 4          | 3 BBLS OF WATER   |
| 3/27/2016                      | 4:05:00 AM  | 130                                    |               | 12                | 4          | 12 BBLS OF HIVIS SWEEP  |
| 3/27/2016                      | 4:09:00 AM  | 130                                    |               | 3                 | 4          | 3 BBLS OF WATER   |
| 3/27/2016                      | 4:10:00 AM  | 190                                    |               | 19                | 4          | 65 SKS OF CMT (19 BBLS @13.6)                                 |
| 3/27/2016                      | 4:16:00 AM  |  |               |                   |            | SHUTDOWN / CLEAN LINES / DROP LATCH DOWN PLUG                 |
| 3/27/2016                      | 4:25:00 AM  | 70                                     |               |                   | 5          | START WITH 35 BBLS OF FRESH WATER AT 5 BPM                    |
| 3/27/2016                      | 4:33:00 AM  | 70                                     |               | 35                | 5          | START WITH 94 BBLS OF WBM AT 5 BPM / FOR 129 BBLS TOTAL DISP. |
| 3/27/2016                      | 4:36:00 AM  | 160                                    |               | 42                | 5          | DISP. REACHED CMT AT 42 BBLS GONE                             |
| 3/27/2016                      | 4:49:00 AM  | 170                                    |               | 110               | 3          | PLUG PASSING THRU DV TOOL / SLOW RATE TO 3 BPM                |
| 3/27/2016                      | 4:52:00 AM  | 170                                    |               | 118               | 3          | NO SIGNIFICANT SHEAR PRESSURE / CONTINUE DISP. AT 3 BPM       |
| 3/27/2016                      | 4:57:00 AM  | 330                                    |               | 129               | 3          | BUMP PLUG WITH 330 PSI AND TOOK OVER TO 890 PSI AT 129 BBLS   |
| 3/27/2016                      | 5:00:00 AM  |  |               |                   |            | FLOATS HOLDING FOR 3 MINUTES / 1/4 BBL BACK                   |
| 3/27/2016                      | 5:03:00 AM  |  |               |                   |            | DROP MULTIPLE STAGE CEMENTING OPENING TOOL                    |
| 3/27/2016                      | 5:03:00 AM  |  |               |                   |            | WAIT 20 MINUTES FOR TOOL TO FALL                              |
| 3/27/2016                      | 5:23:00 AM  | 820                                    |               | 1                 | 2          | OPEN MULTIPLE STAGE CEMENTING DV TOOL WITH 820 PSI            |
| 3/27/2016                      | 5:35:00 AM  |  |               |                   |            | CIRCULATION ESTABLISHED / CLEAN TANKS OUT                     |
| 3/27/2016                      | 5:45:00 AM  |  |               |                   |            | 1ST STAGE COMPLETE / TURN OVER TO RIG TO CIRCULATE FOR 4 HRS  |
| 3/27/2016                      | 9:30:00 AM  |  |               |                   |            | <b>2ND STAGE</b>  |
| 3/27/2016                      | 9:22:00 AM  | 220                                    |               | 3                 | 3.5        | 3 BBLS OF WATER   |
| 3/27/2016                      | 9:23:00 AM  | 215                                    |               | 12                | 3.5        | 12 BBLS OF HIVIS SWEEP  |
| 3/27/2016                      | 9:27:00 AM  | 205                                    |               | 3                 | 3.5        | 3 BBLS OF WATER   |
| 3/27/2016                      | 9:28:00 AM  | 100                                    |               | 55                | 4.5        | 160 SKS OF CMT (55 BBLS @13.6)                                |
| 3/27/2016                      | 9:52:00 AM  |  |               |                   |            | SHUTDOWN / CLEAN LINES / DROP CLOSING PLUG                    |
| 3/27/2016                      | 9:59:00 AM  | 70                                     |               |                   | 5.5        | 118 BBLS DISPLACEMENT AT 5.5 BPM                              |
| 3/27/2016                      | 10:17:00 AM | 110                                    |               | 78                | 5.5        | DISP. REACHED CMT AT 78 BBLS GONE                             |
| 3/27/2016                      | 10:24:00 AM | 460                                    |               | 105               | 3          | SLOW RATE TO 3 BPM TO BUMP PLUG                               |
| 3/27/2016                      | 10:28:00 AM | 630                                    |               | 118               | 3          | BUMP PLUG WITH 630 PSI AND TOOK UP TO 1590 PSI                |
| 3/27/2016                      | 10:33:00 AM |  |               |                   |            | FLOATS HOLDING FOR 5 MINUTES / 1/4 BBL BACK                   |
| 3/27/2016                      | 10:33:00 AM |  |               |                   |            | END JOB / FULL CIRCULATION BOTH STAGES                        |
| 3/27/2016                      | 10:40:00 AM |  |               |                   |            | RIG DOWN EQUIPMENT  |
| 3/27/2016                      | 11:30:00 AM |  |               |                   |            | CREW LEAVE LOCATION   |

MERIT ENERGY 1ST STAGE  
GCCU #702W



# MERIT ENERGY STAGE 2

GCCU #702W



Job Start Time: 9:02:08 AM



**CEMENT MIXING WATER GUIDELINES**

Company Name:

**MERIT ENERGY COMPANY**

Lease Name:

**GCCU # #702W**

County

**Haskell**

State

**KS**

Water Source:

**TANK**

Submitted By:

**Edgar Rodriguez**

Date:

**3/27/2016**

pH Level

**7**

Must be less than 8.5

Sulfates

**200**

Must be less than 1,000 PPM

Chlorides

**700**

Must be less than 3,000 PPM

Temperature

**65**

Must be less than 100 deg F

**COMMENTS**

Thank You

Customer Signature



Customer: MERIT ENERGY COMPANY  
Date: Sunday, March 27, 2016  
Well Name: GCCU # #702W  
Well Location: Sublette  
Supervisor: Edgar Rodriguez

Equipment Operators: Edgar Rodriguez - Aldo Espinoza - Jose Calderon

| Performance   | Customer                             |                          |
|---|--------------------------------------|--------------------------|
| Was the appearance of the personnel and equipment satisfactory? | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Was the job performed in a professional manner?                 | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Were the calculations prepared and explained properly?          | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Were the correct services dispatched to the job site?           | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Were the services performed as requested?                       | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Did the job site environment remain unchanged?                  | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Did the equipment perform in the manner expected?               | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Did the materials meet your expectations?                       | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Was the crew prepared for the job?                              | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Was the crew prompt in the rig-up and actual job?               | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Were reasonable recommendations given, as requested?            | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Did the crew perform safely?                                    | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Was the job performed to your satisfaction?                     | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Customer Signature:   | <i>Rodney Azala</i>                  |                          |
|   | Date: <i>3-27-16</i>                 |                          |
| Additional Comments:  | <i>Good Job.</i>                     |                          |
|   |                                      |                          |
|   |                                      |                          |
|   |                                      |                          |
|   |                                      |                          |
|   |                                      |                          |