

# HALLIBURTON

iCem<sup>®</sup> Service

## **CONOCO/PHILLIPS COMPANY EBUSINESS**

Date: Wednesday, April 10, 2019

### **Prosper Farms 4-65 11-12 3AH Surface**

Job Date: Friday, February 22, 2019

Sincerely,

**Bryce Hinsch**

## Legal Notice

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### Disclaimer:

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## Table of Contents

---

|     |  |    |
|-----|--|----|
| 1.0 | Cementing Job Summary .....                            | 4  |
| 1.1 | Executive Summary .....                                | 4  |
| 2.0 | Real-Time Job Summary .....                            | 9  |
| 2.1 | Job Event Log .....                                    | 9  |
| 3.0 | Attachments.....                                       | 11 |
| 3.1 | Conoco Prosper Farms 4-65 11-12 3AH Surface Chart..... | 11 |

## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services on the **Prosper Farms 4-65 11-12 3AH** cement **surface** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

**Approximately 85 bbls of cement were returned to surface.**

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

**Halliburton Fort Lupton**

*The Road to Excellence Starts with Safety*

|  |                            |   |                                   |
|--|----------------------------|---|-----------------------------------|
| <b>Sold To #:</b> 352431                                 | <b>Ship To #:</b> 3899034  | <b>Quote #:</b> 0022543696                | <b>Sales Order #:</b> 0905498262  |
| <b>Customer:</b> CONOCO/PHILLIPS COMPANY-EBUS            |                            | <b>Customer Rep:</b> JASON BEACH          |                                   |
| <b>Well Name:</b> PROSPER FARMS 4-65 11-12               |                            | <b>Well #:</b> 3AH                        | <b>API/UWI #:</b> 05-005-07383-00 |
| <b>Field:</b> WILDCAT                                    | <b>City (SAP):</b> WATKINS | <b>County/Parish:</b> ARAPAHOE            | <b>State:</b> COLORADO            |
| <b>Legal Description:</b> NW SW-11-4S-65W-2356FSL-490FWL |                            |   |                                   |
| <b>Contractor:</b>                                       |                            | <b>Rig/Platform Name/Num:</b> Nabors B16  |                                   |
| <b>Job BOM:</b> 7521 7521                                |                            |   |                                   |
| <b>Well Type:</b> HORIZONTAL OIL                         |                            |   |                                   |
| <b>Sales Person:</b> HALAMERICA/HB41307                  |                            | <b>Srvc Supervisor:</b> Vitali Neverdasov |                                   |

**Job**

|                               |             |                          |               |
|-------------------------------|-------------|--------------------------|---------------|
| <b>Formation Name</b>         |             |                          |               |
| <b>Formation Depth (MD)</b>   | <b>Top</b>  |                          | <b>Bottom</b> |
| <b>Form Type</b>              | <b>BHST</b> |                          |               |
| <b>Job depth MD</b>           | 2239ft      | <b>Job Depth TVD</b>     | 2250          |
| <b>Water Depth</b>            |             | <b>Wk Ht Above Floor</b> |               |
| <b>Perforation Depth (MD)</b> | <b>From</b> |                          | <b>To</b>     |

**Well Data**

| Description       | New / Used | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|-------------------|------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
| Casing            |            | 16      | 15.25 |               |        |       | 0         | 100          |            |               |
| Casing            | 0          | 9.625   | 8.921 | 36            | STC    | J-55  | 0         | 2239         | 0          | 2239          |
| Open Hole Section |            |         | 13.5  |               |        |       | 100       | 2250         | 0          | 2250          |

**Tools and Accessories**

| Type                | Size in | Qty | Make | Depth ft | Type                  | Size in | Qty | Make |
|---------------------|---------|-----|------|----------|-----------------------|---------|-----|------|
| <b>Guide Shoe</b>   | 9.625   |     |      |          | <b>Top Plug</b>       | 9.625   | 1   | HES  |
| <b>Float Shoe</b>   | 9.625   | 1   | N/A  | 2239     | <b>Bottom Plug</b>    | 9.625   | 1   | HES  |
| <b>Float Collar</b> | 9.625   | 1   | N/A  | 2193     | <b>SSR plug set</b>   | 9.625   |     |      |
| <b>Insert Float</b> | 9.625   |     |      |          | <b>Plug Container</b> | 9.625   | 1   | HES  |
| <b>Stage Tool</b>   | 9.625   |     |      |          | <b>Centralizers</b>   | 9.625   | 18  | N/A  |

**Fluid Data**

| <b>Stage/Plug #: 1</b> |                            |                                 |     |         |                        |                |               |              |                     |  |
|------------------------|----------------------------|---------------------------------|-----|---------|------------------------|----------------|---------------|--------------|---------------------|--|
| Fluid #                | Stage Type                 | Fluid Name                      | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |  |
| 1                      | 10 lb/gal Tuned Spacer III | Tuned Spacer III                | 50  | bbl     | 10                     | 8.97           |               | 4            |                     |  |
| 38.40 gal/bbl          |                            | <b>FRESH WATER</b>              |     |         |                        |                |               |              |                     |  |
| 62.54 lbm/bbl          |                            | <b>BARITE, BULK (100003681)</b> |     |         |                        |                |               |              |                     |  |

| Fluid #  | Stage Type   | Fluid Name   | Qty   | Qty UoM | Mixing Density<br>lbm/gal | Yield<br>ft3/sack | Mix Fluid<br>Gal | Rate<br>bbl/min   | Total Mix<br>Fluid<br>Gal |  |
|--|--------------|--|-------|---------|---------------------------|-------------------|------------------|-------------------|---------------------------|--|
| 2  | SwiftCem     | SWIFTCEM (TM) SYSTEM   | 490   | sack    | 12                        | 2.57              |                  | 7                 | 15.14                     |  |
| 94 lbm   |              | <b>TYPE I / II CEMENT, BULK (101439798)</b>                    |       |         |                           |                   |                  |                   |                           |  |
| 15.12 Gal  |              | <b>FRESH WATER</b>   |       |         |                           |                   |                  |                   |                           |  |
| Fluid #  | Stage Type   | Fluid Name   | Qty   | Qty UoM | Mixing Density<br>lbm/gal | Yield<br>ft3/sack | Mix Fluid<br>Gal | Rate<br>bbl/min   | Total Mix<br>Fluid<br>Gal |  |
| 3  | SwiftCem     | SWIFTCEM (TM) SYSTEM   | 255   | sack    | 14.2                      | 1.59              |                  | 6                 | 7.9                       |  |
| 94 lbm   |              | <b>CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)</b> |       |         |                           |                   |                  |                   |                           |  |
| 7.90 Gal   |              | <b>FRESH WATER</b>   |       |         |                           |                   |                  |                   |                           |  |
| Fluid #  | Stage Type   | Fluid Name   | Qty   | Qty UoM | Mixing Density<br>lbm/gal | Yield<br>ft3/sack | Mix Fluid<br>Gal | Rate<br>bbl/min   | Total Mix<br>Fluid<br>Gal |  |
| 4  | Displacement | Displacement   | 169   | bbl     | 8.33                      |                   |                  | 8                 |                           |  |
|  |              |  |       |         |                           |                   |                  |                   |                           |  |
| Cement Left In Pipe                                |              | <b>Amount</b>  | 46 ft |         | <b>Reason</b>             |                   |                  | <b>Shoe Joint</b> |                           |  |
| <b>Comment : 85 BBLS OF CEMENT BACK TO SURFACE</b> |              |  |       |         |                           |                   |                  |                   |                           |  |

# HALLIBURTON

Rockies, Brighton

Lab Results- Lead

| Job Information |                |          |                |            |                              |
|-----------------|----------------|----------|----------------|------------|------------------------------|
| Request/Slurry  | 2536719/1      | Rig Name | Nabors B16     | Date       | 20/FEB/2019                  |
| Submitted By    | Bryce Hinsch   | Job Type | Surface Casing | Bulk Plant | Brighton                     |
| Customer        | ConocoPhillips | Location |                | Well       | Prosper Farms 4-65 11-12 3AH |

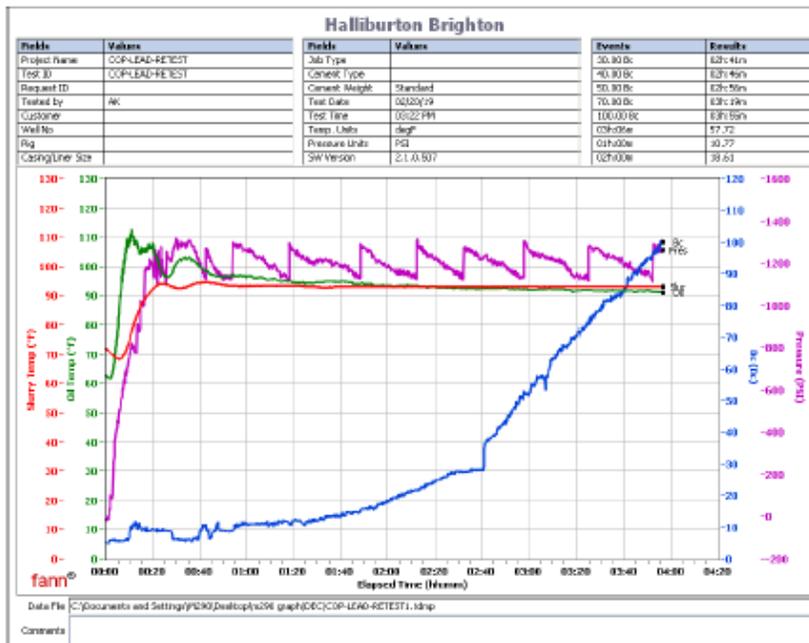
| Well Information  |          |           |         |      |             |
|-------------------|----------|-----------|---------|------|-------------|
| Casing/Liner Size | 9.625 in | Depth MD  | 2147 ft | BHST | 35°C / 95°F |
| Hole Size         | 13.5 in  | Depth TVD | 2147 ft | BHCT | 34°C / 93°F |
| Pressure          | 1214 psi |           |         |      |             |

| Cement Information - Lead Design |          |                         |    |             |             |              |   |
|----------------------------------|----------|-------------------------|----|-------------|-------------|--------------|---|
| Conc                             | IOM      | Cement/Additive         | MP | Sample Type | Sample Date | Lot No.      | Cement Properties                       |
| 100                              | % BWOC   | Cemex Type I-II         |    | Bulk Blend  | 21.02.19    | 2242x2, 6493 | Slurry Density 12 lbm/gal               |
| 15.14                            | gal/sack | Field (Fresh) Water     |    | Lab         | 09.10.18    | 8/19/2018    | Slurry Yield 2.57 ft <sup>3</sup> /sack |
| 2                                | % BWOC   | Cal-Seal 60             | PB | Bulk Blend  | 21.02.19    | 12/12/18     | Water Requirement 15.14 gal/sack        |
| 2.3                              | % BWOC   | Econolite (Powder - PB) | PB | Bulk Blend  | 21.02.19    | U110118      |   |
| 0.2                              | % BWOC   | VERSASET (PB)           | PB | Bulk Blend  | 21.02.19    | 2018-9-1     |   |
| 6                                | lb/sk    | Mountain Enhancer 923   | PB | Bulk Blend  | 21.02.19    |              |   |

## Operation Test Results Request ID 2536719/1

Thickening Time, Request Test ID:36256019 21/FEB/2019

| Temp (degF) | Pressure (psi) | Reached in (min) | Start BC | 30 Bc (hh:mm) | 40 Bc (hh:mm) | 50 Bc (hh:mm) | 70 Bc (hh:mm) | 100 Bc (hh:mm) |
|-------------|----------------|------------------|----------|---------------|---------------|---------------|---------------|----------------|
| 93          | 1214           | 18               | 8:7      | 2:41          | 2:46          | 2:56          | 3:19          | 3:55           |



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HALLIBURTON

Rockies, Brighton

Lab Results- Tail

Job Information

|                |                |          |                |            |                              |
|----------------|----------------|----------|----------------|------------|------------------------------|
| Request/Slurry | 2536720/1      | Rig Name | Nabors B16     | Date       | 20/FEB/2019                  |
| Submitted By   | Bryce Hinsch   | Job Type | Surface Casing | Bulk Plant | Brighton                     |
| Customer       | ConocoPhillips | Location |                | Well       | Prosper Farms 4-65 11-12 3AH |

Well Information

|                   |          |           |         |      |             |
|-------------------|----------|-----------|---------|------|-------------|
| Casing/Liner Size | 9.625 in | Depth MD  | 2147 ft | BHST | 35°C / 95°F |
| Hole Size         | 13.5 in  | Depth TVD | 2147 ft | BHCT | 34°C / 93°F |
| Pressure          | 1214 psi |           |         |      |             |

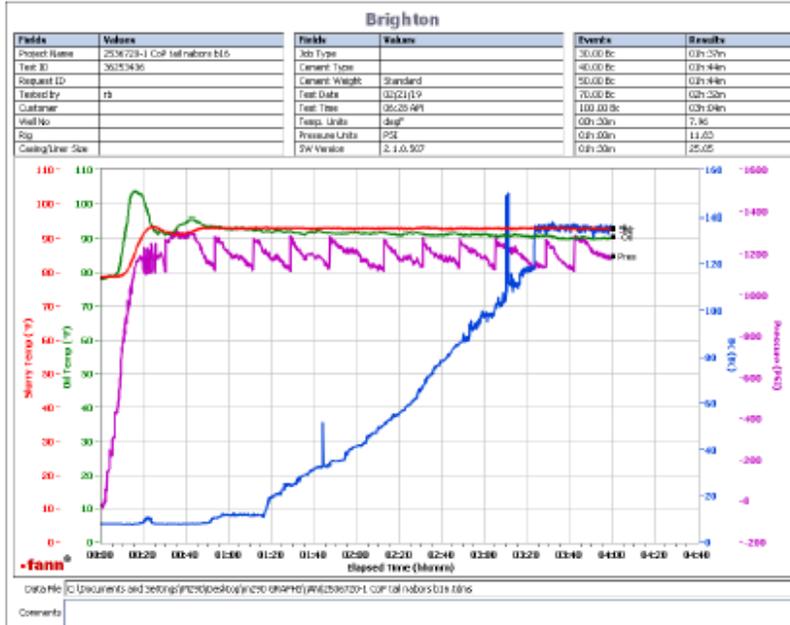
Cement Information - Tail Design ✓

| Conc | UOM      | Cement/Additive         | MP | Sample Type | Sample Date | Lot No.   | Cement Properties |      |                       |
|------|----------|-------------------------|----|-------------|-------------|-----------|-------------------|------|-----------------------|
| 100  | % BWOC   | Mountain G              |    | Bulk Blend  | 21.02.19    | T1        | Slurry Density    | 14.2 | lbm/gal               |
| 7.9  | gal/sack | Field (Fresh) Water     |    | Lab         | 09.10.18    | 8/19/2018 | Slurry Yield      | 1.59 | ft <sup>3</sup> /sack |
| 2    | % BWOC   | Cal-Seal 60             | PB | Bulk Blend  | 21.02.19    |           | Water Requirement | 7.9  | gal/sack              |
| 1.3  | % BWOC   | Econolite (Powder - PB) | PB | Bulk Blend  | 21.02.19    | u110118   |                   |      |                       |
| 0.2  | % BWOC   | VERSASET (PB)           | PB | Bulk Blend  | 21.02.19    | 2018-9-1  |                   |      |                       |
| 6    | lb/sk    | Mountain Enhancer 923   | PB | Bulk Blend  | 21.02.19    |           |                   |      |                       |

Operation Test Results Request ID 2536720/1

Thickening Time, Request Test ID:36253435 21/FEB/2019

| Temp (degF) | Pressure (psi) | Reached in (min) | Start BC | 30 Bc (hh:mm) | 40 Bc (hh:mm) | 50 Bc (hh:mm) | 70 Bc (hh:mm) | 100 Bc (hh:mm) |
|-------------|----------------|------------------|----------|---------------|---------------|---------------|---------------|----------------|
| 93          | 1214           | 18               | 8        | 1:37          | 1:44          | 1:44          | 2:32          | 3:04           |



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## 2.0 Real-Time Job Summary

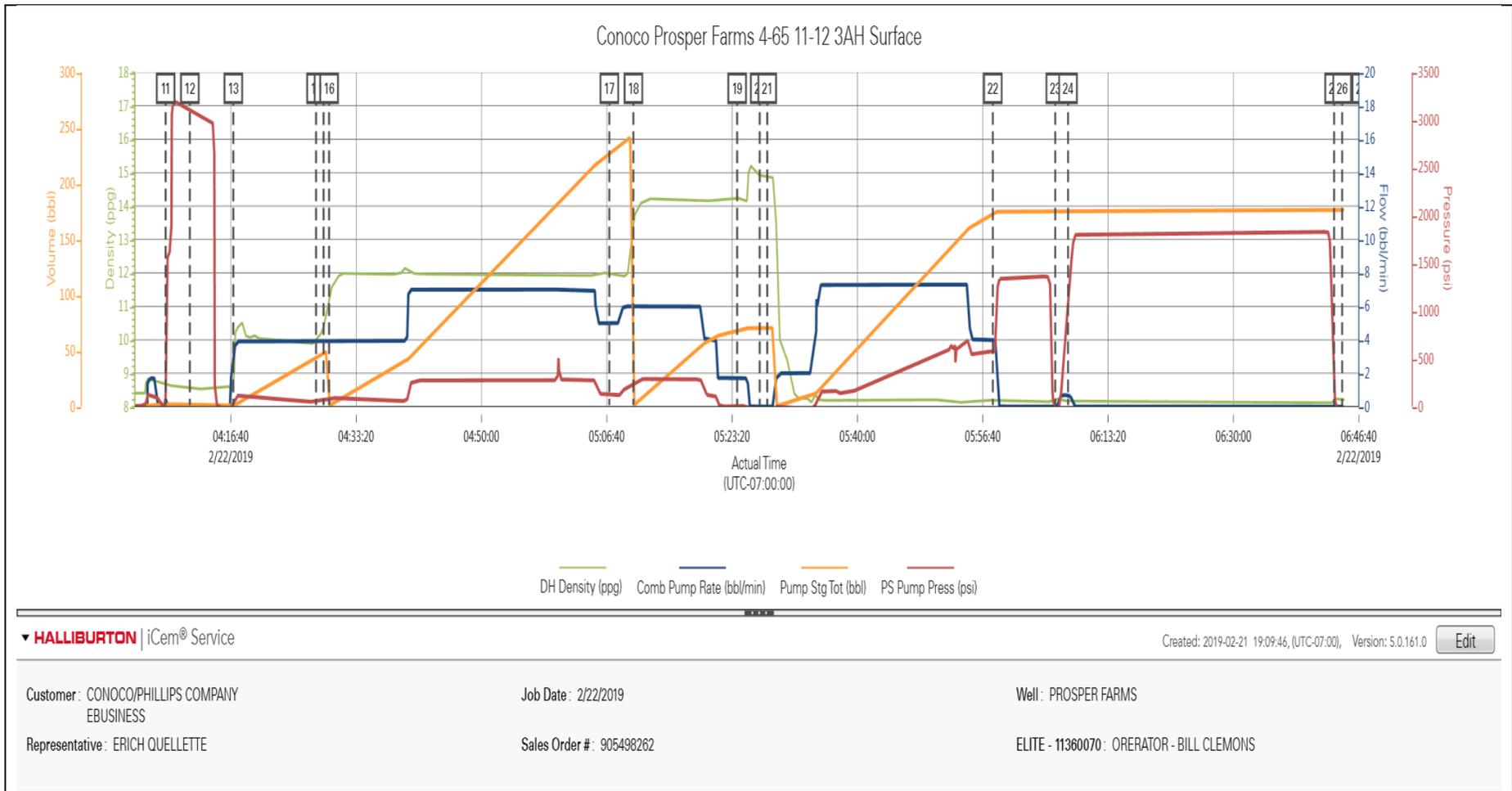
### 2.1 Job Event Log

| Type  | Seq. No. | Activity                                 | Graph Label                              | Date      | Time     | Source | DH Density<br><i>(ppg)</i> | Comb Pump Rate<br><i>(bbl/min)</i> | Pump Stg Tot<br><i>(bbl)</i> | PS Pump Press<br><i>(psi)</i> | Comments  |
|-------|----------|--|--|-----------|----------|--------|----------------------------|------------------------------------|------------------------------|-------------------------------|---|
| Event | 1        | Call Out                                 | Call Out                                 | 2/21/2019 | 15:30:00 | USER   |                            |                                    |                              |                               | For Location @ 21:00  |
| Event | 2        | Depart from Service Center or Other Site | Depart from Service Center or Other Site | 2/21/2019 | 19:30:00 | USER   |                            |                                    |                              |                               | CREW WAS STAGED UP NEAR LOCATION  |
| Event | 3        | Arrive at Location from Service Center   | Arrive at Location from Service Center   | 2/21/2019 | 20:00:00 | USER   |                            |                                    |                              |                               | 38 MILES. DISCUSS NUMBERS AND PROCEDURE WITH CUSTOMER. RIG IS RUNNING CASING.     |
| Event | 4        | Safety Meeting - Pre Rig-Up              | Safety Meeting - Pre Rig-Up              | 2/21/2019 | 20:40:00 | USER   |                            |                                    |                              |                               | JSA to discuss the hazards of rig-up  |
| Event | 5        | Rig-Up Equipment                         | Rig-Up Equipment                         | 2/21/2019 | 20:50:00 | USER   |                            |                                    |                              |                               | Rig-up all surface lines and equipmnet up to the Buffer zone                      |
| Event | 6        | Casing on Bottom                         | Casing on Bottom                         | 2/22/2019 | 02:35:00 | USER   | 0.03                       | 0.00                               | 0.00                         | 3.00                          | Landing joint brought to floor and landed   |
| Event | 7        | Circulate Well                           | Circulate Well                           | 2/22/2019 | 02:50:00 | USER   | 0.04                       | 0.00                               | 0.00                         | 2.00                          | RIG UP CEMENT HEAD AND MANIFOLD FOR RIG TO CIRCULATE.                             |
| Event | 8        | Pre-Job Safety Meeting                   | Pre-Job Safety Meeting                   | 2/22/2019 | 03:29:00 | USER   | 0.04                       | 0.00                               | 0.00                         | 3.00                          | With all Personall, to discuss the hazards of pumping the job, and pump schedule. |
| Event | 9        | Start Job                                | Start Job                                | 2/22/2019 | 04:01:00 | USER   | 8.41                       | 0.00                               | 10.50                        | 1.00                          |   |
| Event | 10       | Start Job                                | Start Job                                | 2/22/2019 | 04:02:04 | COM4   | 8.41                       | 0.10                               | 0.00                         | 1.00                          |   |
| Event | 11       | Test Lines                               | Test Lines                               | 2/22/2019 | 04:08:00 | USER   | 8.70                       | 0.30                               | 2.10                         | 1512.00                       | Test lines @ 2590 psi   |
| Event | 12       | Check Weight                             | Check Weight                             | 2/22/2019 | 04:11:13 | COM4   | 8.58                       | 0.00                               | 2.10                         | 3090.00                       |   |
| Event | 13       | Pump Spacer                              | Pump Spacer                              | 2/22/2019 | 04:17:00 | USER   | 8.72                       | 2.20                               | 0.70                         | 33.00                         | BATCH/ WEIGHT/ PUMP 50  |

|       |    |                             |                             |           |          |      |       |      |        |         | BBLS OF SPACER @ 10 PPG.   |
|-------|----|-----------------------------|-----------------------------|-----------|----------|------|-------|------|--------|---------|--|
| Event | 14 | Drop Bottom Plug            | Drop Bottom Plug            | 2/22/2019 | 04:28:00 | USER | 9.99  | 3.90 | 43.80  | 55.00   | DROP BOTTOM PLUG ON THE FLY 47 BBLS INTO SPACER.   |
| Event | 15 | Pump Lead Cement            | Pump Lead Cement            | 2/22/2019 | 04:29:00 | USER | 10.37 | 3.90 | 47.80  | 71.00   | BATCH/ WEIGHT/PUMP 490 sks(224.3 bbls) of Lead Swiftcem @ 12.0 ppg, verified with pressurized scales |
| Event | 16 | Check Weight                | Check Weight                | 2/22/2019 | 04:29:44 | COM4 | 11.27 | 3.90 | 0.90   | 78.00   |  |
| Event | 17 | Pump Tail Cement            | Pump Tail Cement            | 2/22/2019 | 05:07:00 | USER | 11.97 | 5.00 | 226.60 | 125.00  | BATCH/WEIGHT/PUMP 255 SKS (72.2 BBLS) OF TAIL CEMENT @ 14.2 PPG.                                     |
| Event | 18 | Check Weight                | Check Weight                | 2/22/2019 | 05:10:12 | COM4 | 13.56 | 6.00 | 1.00   | 257.00  |  |
| Event | 19 | Shutdown                    | Shutdown                    | 2/22/2019 | 05:24:00 | USER | 14.24 | 1.70 | 68.10  | 4.00    | Finished pumping cement  |
| Event | 20 | Drop Top Plug               | Drop Top Plug               | 2/22/2019 | 05:27:00 | USER | 14.92 | 0.00 | 70.60  | -39.00  | Pre-loaded top plug in plug container verified by customer rep.                                      |
| Event | 21 | Pump Displacement - Start   | Pump Displacement - Start   | 2/22/2019 | 05:28:00 | USER | 14.87 | 0.00 | 70.60  | -41.00  | 169.5 bbls fresh water. Washing up on top of the plug.   |
| Event | 22 | Bump Plug                   | Bump Plug                   | 2/22/2019 | 05:58:00 | USER | 8.19  | 4.00 | 173.10 | 568.00  | @500 psi over final circulating pressure of 615 psi  |
| Event | 23 | Check Floats                | Check Floats                | 2/22/2019 | 06:06:18 | USER | 8.23  | 0.00 | 175.30 | -22.00  | Floats held. 1 bbls back   |
| Event | 24 | Event                       | Event                       | 2/22/2019 | 06:08:00 | USER | 8.18  | 0.70 | 176.20 | 1115.00 | PRESSURE UP 1800 PSI FOR 30 MIN CASING TEST.   |
| Event | 25 | Event                       | Event                       | 2/22/2019 | 06:43:23 | USER | 8.24  | 0.00 | 176.60 | 149.00  | BLEED OFF PRESSURE.  |
| Event | 26 | End Job                     | End Job                     | 2/22/2019 | 06:44:27 | COM4 | 8.21  | 0.00 | 176.60 | -38.00  |  |
| Event | 27 | Pre-Rig Down Safety Meeting | Pre-Rig Down Safety Meeting | 2/22/2019 | 06:47:00 | USER |       |      |        |         | JSA to discuss the hazards of rig-down   |

3.0 Attachments

3.1 Conoco Prosper Farms 4-65 11-12 3AH Surface Chart



# HALLIBURTON

iCem<sup>®</sup> Service

## **CONOCO/PHILLIPS COMPANY EBUSINESS**

Date: Monday, March 18, 2019

### **Prosper Farms 4-65 11-12 3AH Production**

Job Date: Thursday, February 28, 2019

Sincerely,  
**Tyler Hill**

## Legal Notice

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### Disclaimer:

All information in this report is provided subject to the terms and conditions which govern the services provided by Halliburton. Halliburton personnel use their best efforts in gathering information and their best judgment in interpreting it, but any interpretation, research, analysis or recommendation furnished by Halliburton are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and empirical relationships and assumptions are not infallible, and with respect to which professionals in the industry may differ. iCem 3D Displacement results are used to understand how fluids intermix during a cement job. Simulation and 3D displacement results are not intended as and should not be used as a replacement for bond logs in determining top of cement. Current 3D model calculations are known to model more volume than the input volume for standard cases due to known calculation improvements required. For rotational cases, the modeled volume will be impacted by the same calculations impacting the standard cases, as well as additional constraints imposed to make the calculation time required operationally feasible. Therefore, until further notice, 3D displacement results should not be used for replacement of a bond log, or used as an identifier of top of cement. HALLIBURTON IS UNABLE TO GUARANTEE THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, OR JOB RECOMMENDATION and any interpretation or recommendation is not for use of or reliance upon by any third party. The customer has full responsibility for any of its decisions which are based on the information provided in this report.

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---

|     |  |    |
|-----|--|----|
| 1.0 | Cementing Job Summary .....                      | 4  |
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## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

---

Halliburton appreciates the opportunity to perform the cementing services on the **Prosper Farms 4-65 11-12 3AH** cement **Production** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

**Approximately 26 bbls of spacer were returned to surface.**

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

**Halliburton Ft. Lupton**

*The Road to Excellence Starts with Safety*

|  |                            |   |                                   |
|--|----------------------------|---|-----------------------------------|
| <b>Sold To #:</b> 352431                                 | <b>Ship To #:</b> 3899034  | <b>Quote #:</b> 0022543509                | <b>Sales Order #:</b> 0905512207  |
| <b>Customer:</b> CONOCO/PHILLIPS COMPANY-EBUS            |                            | <b>Customer Rep:</b> ERICH QUELLETTE      |                                   |
| <b>Well Name:</b> PROSPER FARMS 4-65 11-12               |                            | <b>Well #:</b> 3AH                        | <b>API/UWI #:</b> 05-005-07383-00 |
| <b>Field:</b> WILDCAT                                    | <b>City (SAP):</b> WATKINS | <b>County/Parish:</b> ARAPAHOE            | <b>State:</b> COLORADO            |
| <b>Legal Description:</b> NW SW-11-4S-65W-2356FSL-490FWL |                            |   |                                   |
| <b>Contractor:</b>                                       |                            | <b>Rig/Platform Name/Num:</b> Nabors B16  |                                   |
| <b>Job BOM:</b> 7523 7523                                |                            |   |                                   |
| <b>Well Type:</b> HORIZONTAL OIL                         |                            |   |                                   |
| <b>Sales Person:</b> HALAMERICA/HB41307                  |                            | <b>Srvc Supervisor:</b> Vitali Neverdasov |                                   |

**Job**

|                               |             |                          |               |
|-------------------------------|-------------|--------------------------|---------------|
| <b>Formation Name</b>         |             |                          |               |
| <b>Formation Depth (MD)</b>   | <b>Top</b>  |                          | <b>Bottom</b> |
| <b>Form Type</b>              | BHST        |                          |               |
| <b>Job depth MD</b>           | 17811ft     | <b>Job Depth TVD</b>     | 7813          |
| <b>Water Depth</b>            |             | <b>Wk Ht Above Floor</b> |               |
| <b>Perforation Depth (MD)</b> | <b>From</b> |                          | <b>To</b>     |

**Well Data**

| Description       | New / Used | Size in | ID in | Weight lbm/ft | Thread  | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|-------------------|------------|---------|-------|---------------|---------|-------|-----------|--------------|------------|---------------|
| Casing            |            | 9.625   | 8.921 | 36            | STC     | J-55  | 0         | 2239         |            |               |
| Casing            | 0          | 5.5     | 4.778 | 20            | TXP-BTC | P-110 | 0         | 17805        | 0          | 7813          |
| Open Hole Section |            |         | 8.5   |               |         |       | 2239      | 17827        | 2239       | 7813          |

**Tools and Accessories**

| Type         | Size in | Qty | Make | Depth ft | Type           | Size in | Qty | Make    |
|--------------|---------|-----|------|----------|----------------|---------|-----|---------|
| Guide Shoe   | 5.5     |     |      |          | Top Plug       | 5.5     | 1   | INNOVEX |
| Float Shoe   | 5.5     | 1   | N/A  | 17811    | Bottom Plug    | 5.5     | 1   | INNOVEX |
| Float Collar | 5.5     | 1   | N/A  | 17734    | SSR plug set   | 5.5     |     |         |
| Insert Float | 5.5     |     |      |          | Plug Container | 5.5     | 1   | HES     |
| Stage Tool   | 5.5     |     |      |          | Centralizers   | 5.5     | 426 | N/A     |

**Fluid Data**

| <b>Stage/Plug #: 1</b> |                              |   |     |         |                        |                |               |              |                     |  |
|------------------------|------------------------------|---|-----|---------|------------------------|----------------|---------------|--------------|---------------------|--|
| Fluid #                | Stage Type                   | Fluid Name                                | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |  |
| 1                      | 10.5 lb/gal Tuned Spacer III | Tuned Spacer III                          | 60  | bbl     | 10.5                   | 6.62           |               | 4            |                     |  |
| 0.6670 gal/bbl         |                              | <b>MUSOL(R) A, 5 GAL PAIL (100064220)</b> |     |         |                        |                |               |              |                     |  |
| 37.58 gal/bbl          |                              | <b>FRESH WATER</b>                        |     |         |                        |                |               |              |                     |  |

|  |                   |   |            |                |                               |                       |                      |                     |                            |
|--|-------------------|---|------------|----------------|-------------------------------|-----------------------|----------------------|---------------------|----------------------------|
| 84.77 lbm/bbl  |                   | <b>BARITE, BULK (100003681)</b>                             |            |                |                               |                       |                      |                     |                            |
| 0.6670 gal/bbl   |                   | <b>DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)</b>     |            |                |                               |                       |                      |                     |                            |
| <b>Fluid #</b>   | <b>Stage Type</b> | <b>Fluid Name</b>   | <b>Qty</b> | <b>Qty UoM</b> | <b>Mixing Density lbm/gal</b> | <b>Yield ft3/sack</b> | <b>Mix Fluid Gal</b> | <b>Rate bbl/min</b> | <b>Total Mix Fluid Gal</b> |
| 2  | ElastiCem         | ELASTICEM (TM) SYSTEM                                       | 835        | sack           | 13.2                          | 1.57                  |                      | 7.5                 | 7.54                       |
| 24.50 lbm  |                   | <b>POZMIX A FLYASH (100003690)</b>                          |            |                |                               |                       |                      |                     |                            |
| 7.54 Gal   |                   | <b>FRESH WATER</b>  |            |                |                               |                       |                      |                     |                            |
| <b>Fluid #</b>   | <b>Stage Type</b> | <b>Fluid Name</b>   | <b>Qty</b> | <b>Qty UoM</b> | <b>Mixing Density lbm/gal</b> | <b>Yield ft3/sack</b> | <b>Mix Fluid Gal</b> | <b>Rate bbl/min</b> | <b>Total Mix Fluid Gal</b> |
| 3  | EconoCem          | ECONOCEM (TM) SYSTEM  | 1490       | sack           | 13.5                          | 1.79                  |                      | 7                   | 8.73                       |
| 0.30 %   |                   | <b>HR-5, 50 LB SK (100005050)</b>                           |            |                |                               |                       |                      |                     |                            |
| 8.73 Gal   |                   | <b>FRESH WATER</b>  |            |                |                               |                       |                      |                     |                            |
| 61.10 lbm  |                   | <b>TYPE I / II CEMENT, BULK (101439798)</b>                 |            |                |                               |                       |                      |                     |                            |
| <b>Fluid #</b>   | <b>Stage Type</b> | <b>Fluid Name</b>   | <b>Qty</b> | <b>Qty UoM</b> | <b>Mixing Density lbm/gal</b> | <b>Yield ft3/sack</b> | <b>Mix Fluid Gal</b> | <b>Rate bbl/min</b> | <b>Total Mix Fluid Gal</b> |
| 4  | MMCR Displacement | MMCR Displacement   | 40         | bbl            | 8.34                          |                       |                      | 8                   |                            |
| 0.50 gal/bbl   |                   | <b>MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)</b> |            |                |                               |                       |                      |                     |                            |
| <b>Fluid #</b>   | <b>Stage Type</b> | <b>Fluid Name</b>   | <b>Qty</b> | <b>Qty UoM</b> | <b>Mixing Density lbm/gal</b> | <b>Yield ft3/sack</b> | <b>Mix Fluid Gal</b> | <b>Rate bbl/min</b> | <b>Total Mix Fluid Gal</b> |
| 5  | Water             | Water   | 355        | bbl            | 8.33                          |                       |                      | 8                   |                            |
| <b>Cement Left In Pipe</b>   | <b>Amount</b>     | 77 ft   |            |                | <b>Reason</b>                 | <b>Shoe Joint</b>     |                      |                     |                            |
| <b>Comment : 26 BBLS OF SPACER BACK TO SURFACE. ESTIMATED TOP OF LEAD @ 711'. TOP OF TAIL @ 6169'. AT THE BEGINNING OF THE JOB LOST COMMUNICATION WITH PUMP TRUCK. GOT COMMUNICATION BACK AT THE BEGGINNING OF LEAD. COULD NOT RETRIEVE FULL FILE FROM FLEX.</b> |                   |   |            |                |                               |                       |                      |                     |                            |

**HALLIBURTON**

**Lab Results- Lead**

**Rockies, Brighton**

**Job Information**

|                |                |          |                   |            |                              |
|----------------|----------------|----------|-------------------|------------|------------------------------|
| Request/Slurry | 2537235/2      | Rig Name | Nabors B16        | Date       | 22/FEB/2019                  |
| Submitted By   | Tyler Hill     | Job Type | Production Casing | Bulk Plant | Brighton                     |
| Customer       | ConocoPhillips | Location | Weld              | Well       | Prosper Farms 4-65 11-12 3AH |

**Well Information**

|                   |          |           |          |      |               |
|-------------------|----------|-----------|----------|------|---------------|
| Casing/Liner Size | 5.5 in   | Depth MD  | 17841 ft | BHST | 104°C / 219°F |
| Hole Size         | 8.5 in   | Depth TVD | 7806 ft  | BHCT | 104°C / 219°F |
| Pressure          | 4764 psi |           |          |      |               |

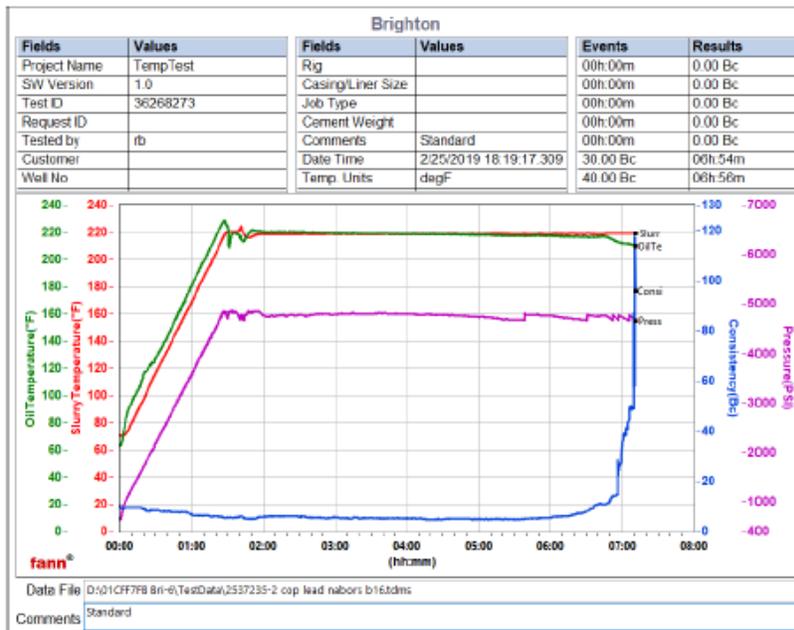
**Cement Information - Lead Design**

| Conc | UOM      | Cement/Additive        | MP | Sample Type | Sample Date | Lot No.    | Cement Properties |      |                       |
|------|----------|------------------------|----|-------------|-------------|------------|-------------------|------|-----------------------|
| 100  | % BWOC   | Cement Blend           |    |             |             |            | Slurry Density    | 13.2 | lbm/gal               |
| 7.54 | gal/sack | Field (Fresh) Water    |    | Lab         | 09.10.18    | 8/19/2018  | Slurry Yield      | 1.57 | ft <sup>3</sup> /sack |
| 5    | lb/sk    | WellLife 708 (PB)      | PB | Bulk Blend  | 26.02.19    |            | Water Requirement | 7.54 | gal/sack              |
| 0.1  | % BWOC   | SA-1015 (PB)           | PB | Bulk Blend  | 26.02.19    | 8F3692w    |                   |      |                       |
| 0.35 | % BWOC   | SCR-100 (PB)           | PB | Bulk Blend  | 26.02.19    | ct18129001 |                   |      |                       |
| 1    | lb/sk    | Silicalite - Compacted | PB | Bulk Blend  | 26.02.19    |            |                   |      |                       |
| 0.2  | % BWOC   | HALAD-344 (PB)         | PB | Bulk Blend  | 26.02.19    | 20181142   |                   |      |                       |

**Operation Test Results Request ID 2537235/2**

**Thickening Time - ON-OFF-ON, Request Test ID:36268273** 26/FEB/2019

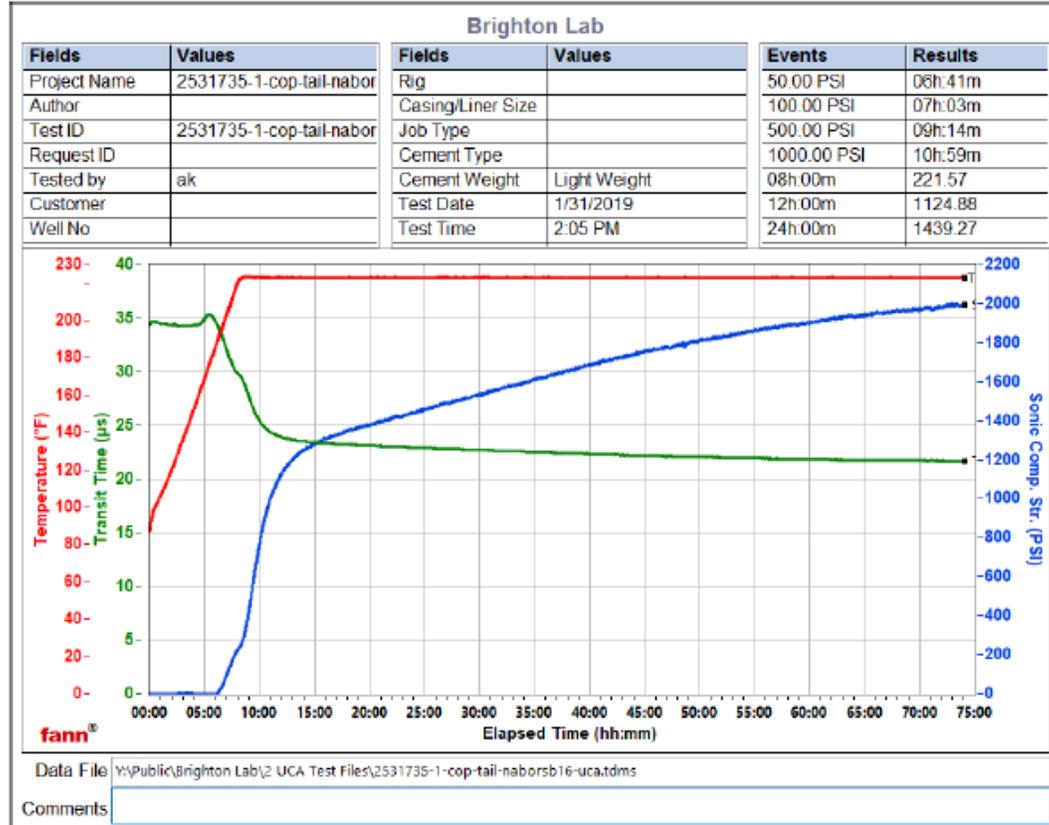
| Test Temp (degF) | Pressure (psi) | Reached in (min) | 30 Bc (hh:mm) | 50 Bc (hh:mm) | 70 Bc (hh:mm) | 100 Bc (hh:mm) | Start Bc | Stirring before stop (mins) | Static Period (min) | Peak reading (BC) |
|------------------|----------------|------------------|---------------|---------------|---------------|----------------|----------|-----------------------------|---------------------|-------------------|
| 219              | 4764           | 87               | 6:54          | 6:56          | 7:09          | 7:09           | 12       | 90                          | 10                  | 10                |



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**Operation Test Results Request ID 2537235/1**

| UCA Comp. Strength, Request Test ID:36259938 |                |                |                 |                 |                  |              |                |                |                |                |              | 01/MAR/2019    |  |
|--|----------------|----------------|-----------------|-----------------|------------------|--------------|----------------|----------------|----------------|----------------|--------------|----------------|--|
| End Temp (degF)                              | Pressure (psi) | 50 psi (hh:mm) | 100 psi (hh:mm) | 500 psi (hh:mm) | 1000 psi(hh:m m) | 8hr CS (psi) | 12 hr CS (psi) | 16 hr CS (psi) | 24 hr CS (psi) | 48 hr CS (psi) | End CS (psi) | End Time (hrs) |  |
| 219  | 800            | 6:41           | 7:03            | 9:14            | 10:59            | 221.57       | 1124.88        | 1306.1         | 1439.27        | 1786.05        | 1994.2       | 74             |  |



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HALLIBURTON

Lab Results- Tail

Rockies, Brighton

Job Information

|                |                |          |                   |            |                              |
|----------------|----------------|----------|-------------------|------------|------------------------------|
| Request/Slurry | 2537236/2      | Rig Name | Nabors B16        | Date       | 22/FEB/2019                  |
| Submitted By   | Tyler Hill     | Job Type | Production Casing | Bulk Plant | Brighton                     |
| Customer       | ConocoPhillips | Location | Weld              | Well       | Prosper Farms 4-65 11-12 3AH |

Well Information

|                   |          |           |          |      |               |
|-------------------|----------|-----------|----------|------|---------------|
| Casing/Liner Size | 5.5 in   | Depth MD  | 17841 ft | BHST | 104°C / 219°F |
| Hole Size         | 8.5 in   | Depth TVD | 7806 ft  | BHCT | 104°C / 219°F |
| Pressure          | 4764 psi |           |          |      |               |

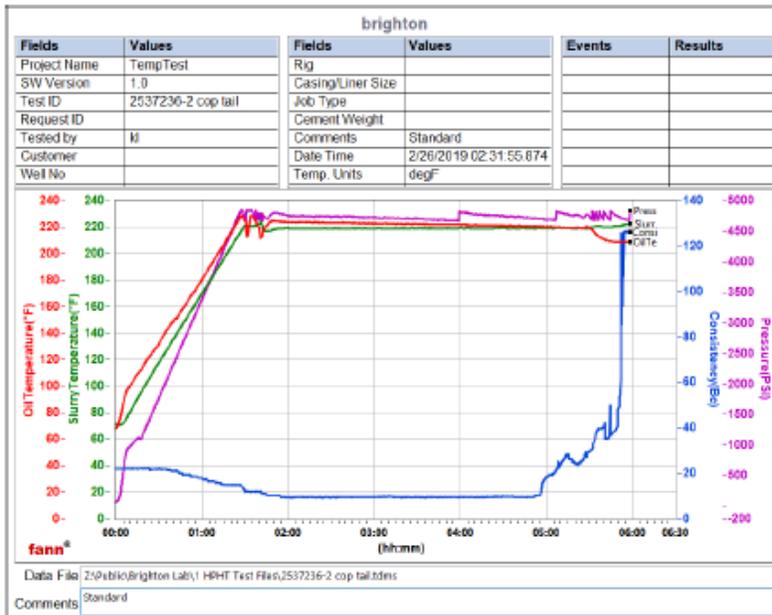
Cement Information - Tail Design

| Conc | UOM      | Cement/Additive     | MP | Sample Type | Sample Date | Lot No.    | Cement Properties |      |                       |
|------|----------|---------------------|----|-------------|-------------|------------|-------------------|------|-----------------------|
| 100  | % BWOC   | Cement Blend        |    |             |             |            | Slurry Density    | 13.5 | lbm/gal               |
| 8.73 | gal/sack | Field (Fresh) Water |    | Lab         | 09.10.18    | 8/19/2018  | Slurry Yield      | 1.79 | ft <sup>3</sup> /sack |
| 25   | % BWOC   | SS-200 silica flour | PB | Bulk Blend  | 26.02.19    |            | Water Requirement | 8.73 | gal/sack              |
| 0.1  | % BWOC   | SA-1015 (PB)        | PB | Bulk Blend  | 26.02.19    | 8f3692w    |                   |      |                       |
| 0.3  | % BWOC   | HR-5 (PB)           | PB | Bulk Blend  | 26.02.19    | 1180200    |                   |      |                       |
| 0.8  | % BWOC   | HALAD-344 (PB)      | PB | Bulk Blend  | 26.02.19    | 20181142   |                   |      |                       |
| 0.2  | % BWOC   | HALAD-413 (PB)      | PB | Bulk Blend  | 26.02.19    | zmbj0686a0 |                   |      |                       |

Operation Test Results Request ID 2537236/2

Thickening Time - ON-OFF-ON, Request Test ID:36269466 26/FEB/2019

| Test Temp (degF) | Pressure (psi) | Reached in (min) | 30 Bc (hh:mm) | 50 Bc (hh:mm) | 70 Bc (hh:mm) | 100 Bc (hh:mm) | Start Bc | Stirring before stop (mins) | Static Period (min) | Peak reading (BC) |
|------------------|----------------|------------------|---------------|---------------|---------------|----------------|----------|-----------------------------|---------------------|-------------------|
| 219              | 4764           | 87               | 5:31          | 5:52          | 5:52          | 5:52           | 23       | 90                          | 10                  | 11                |



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**Operation Test Results Request ID 2537236/1**

UCA Comp. Strength, Request Test ID:36259941 01/MAR/2019

| End Temp (degF) | Pressure (psi) | 50 psi (hh:mm) | 100 psi (hh:mm) | 500 psi (hh:mm) | 1000 psi (hh:mm) | 8hr CS (psi) | 12 hr CS (psi) | 16 hr CS (psi) | 24 hr CS (psi) | 48 hr CS (psi) | End CS (psi) | End Time (hrs) |
|-----------------|----------------|----------------|-----------------|-----------------|------------------|--------------|----------------|----------------|----------------|----------------|--------------|----------------|
| 219             | 800            | 7:21           | 7:32            | 8:55            | 10:21            | 232          | 1314           | 1538           | 1697           | 2048           | 2267         | 76             |

**Brighton Lab**

| Fields       | Values                 | Fields            | Values       | Events      | Results |
|--------------|------------------------|-------------------|--------------|-------------|---------|
| Project Name | 2537236-1 cop tail uca | Rig               |              | 50.00 PSI   | 07h:21m |
| Author       |                        | Casing/Liner Size |              | 100.00 PSI  | 07h:32m |
| Test ID      | 2537236-1 cop tail uca | Job Type          |              | 500.00 PSI  | 08h:55m |
| Request ID   |                        | Cement Type       |              | 1000.00 PSI | 10h:21m |
| Tested by    | kl                     | Cement Weight     | Light Weight | 08h:00m     | 232.44  |
| Customer     |                        | Test Date         | 2/26/2019    | 12h:00m     | 1314.92 |
| Well No      |                        | Test Time         | 10:29 AM     | 24h:00m     | 1697.50 |

The graph displays three data series over an 85-hour period. The red line represents Temperature (F), which rises from approximately 70°F to 230°F within the first 5 hours and remains constant thereafter. The green line represents Transit Time (us), which starts at 35 us and drops to about 22 us by 10 hours, remaining stable. The blue line represents Sonic Comp. Str. (psi), which starts at 0 psi and increases steadily to approximately 2000 psi by 85 hours.

Data File Z:\Public\Brighton Lab\2 UCA Test Files\2537236-1 cop tail uca.tdms

Comments

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## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

| Type  | Seq. No. | Activity                                 | Graph Label                              | Date      | Time     | Source | DH Density<br><i>(ppg)</i> | Comb Pump Rate<br><i>(bbl/min)</i> | PS Pump Press<br><i>(psi)</i> | Comments  |
|-------|----------|--|--|-----------|----------|--------|----------------------------|------------------------------------|-------------------------------|---|
| Event | 1        | Call Out                                 | Call Out                                 | 2/28/2019 | 04:30:00 | USER   |                            |                                    |                               | For Location @ 10:30  |
| Event | 2        | Depart from Service Center or Other Site | Depart from Service Center or Other Site | 2/28/2019 | 08:50:00 | USER   |                            |                                    |                               |   |
| Event | 3        | Arrive at Location from Service Center   | Arrive at Location from Service Center   | 2/28/2019 | 09:15:00 | USER   |                            |                                    |                               | 38 Miles. Discussed numbers and job procedures with Customer                                |
| Event | 4        | Safety Meeting - Pre Rig-Up              | Safety Meeting - Pre Rig-Up              | 2/28/2019 | 09:55:00 | USER   |                            |                                    |                               | JSA to discuss the hazards of rig-up  |
| Event | 5        | Rig-Up Equipment                         | Rig-Up Equipment                         | 2/28/2019 | 10:05:00 | USER   |                            |                                    |                               | Rig-up all surface lines and equipmnet up to the Buffer zone                                |
| Event | 6        | Casing on Bottom                         | Casing on Bottom                         | 2/28/2019 | 13:40:00 | USER   |                            |                                    |                               | Landing joint brought to floor and landed   |
| Event | 7        | Circulate Well                           | Circulate Well                           | 2/28/2019 | 14:00:00 | USER   |                            |                                    |                               | rig is circulating  |
| Event | 8        | Pre-Job Safety Meeting                   | Pre-Job Safety Meeting                   | 2/28/2019 | 16:54:00 | USER   |                            |                                    |                               | With all essential personnel, to discuss the hazards of pumping the job, and pump schedule. |
| Event | 9        | Start Job                                | Start Job                                | 2/28/2019 | 17:20:00 | USER   |                            |                                    |                               |   |
| Event | 10       | Test Lines                               | Test Lines                               | 2/28/2019 | 17:32:00 | USER   |                            |                                    |                               | LOAD LINE AND PRESSURE TEST 6403 PSI  |
| Event | 11       | Pump Spacer                              | Pump Spacer                              | 2/28/2019 | 17:43:00 | USER   |                            |                                    |                               | BATCH/ WEIGHT/ PUMP 60 BBLS OF TUNED SPACER @ 10.5 PPG                                      |
| Event | 13       | Drop Bottom Plug                         | Drop Bottom Plug                         | 2/28/2019 | 17:58:00 | USER   |                            |                                    |                               | DROP BOTTOM PLUG 57 BBLS INTO SPACER.   |

|       |    |                             |                             |           |          |      |       |      |         |   |
|-------|----|-----------------------------|-----------------------------|-----------|----------|------|-------|------|---------|---|
| Event | 12 | Disconnect                  | Disconnect                  | 2/28/2019 | 17:58:00 | USER |       |      |         | LOST COMMUNICATION WITH THE PUMP TRUCK. WAS ABLE TO CONNECT. DID NOT RECORDED PRESSURE TEST AND SPACER. |
| Event | 14 | Check Weight                | Check Weight                | 2/28/2019 | 17:59:11 | COM4 | 10.78 | 0.00 | -13.00  |   |
| Event | 15 | Pump Lead Cement            | Pump Lead Cement            | 2/28/2019 | 18:02:00 | USER | 10.70 | 0.00 | -14.00  | Batch/ weight/ pump 835 sks(233.5 bbls) Elasticem @ 13.2 ppg, verified with pressurized scales          |
| Event | 16 | Pump Tail Cement            | Pump Tail Cement            | 2/28/2019 | 18:41:00 | USER | 13.31 | 6.00 | 308.00  | Weight/ pump 1490 sks( 475 bbls) Econocem @ 13.5 ppg, verified with pressurized scales.                 |
| Event | 17 | Check Weight                | Check Weight                | 2/28/2019 | 18:44:14 | COM4 | 13.72 | 5.90 | 386.00  |   |
| Event | 18 | Check Weight                | Check Weight                | 2/28/2019 | 19:29:48 | COM4 | 13.53 | 7.80 | 431.00  |   |
| Event | 19 | Shutdown                    | Shutdown                    | 2/28/2019 | 19:55:00 | USER | 13.22 | 1.70 | 51.00   | Wash pumps and lines.   |
| Event | 20 | Drop Top Plug               | Drop Top Plug               | 2/28/2019 | 20:10:00 | USER | 8.17  | 5.80 | 268.00  | Load top plug in plug container verified by customer rep.   |
| Event | 21 | Pump Displacement - Start   | Pump Displacement - Start   | 2/28/2019 | 20:12:00 | USER | 8.18  | 0.00 | -14.00  | 395.5 bbls fresh water. First 40 bbls with MMCR. Remaining with aldicide.                               |
| Event | 22 | Slow Rate                   | Slow Rate                   | 2/28/2019 | 21:03:00 | USER | 8.16  | 6.40 | 3004.00 | SLOW RATE TO 4.0 BPM @ 375 BBLS AWAY.   |
| Event | 23 | Bump Plug                   | Bump Plug                   | 2/28/2019 | 21:05:00 | USER | 8.17  | 4.00 | 3179.00 | BUMP PLUG WITH 1000 psi over final circulating pressure of 2610 psi.                                    |
| Event | 24 | Check Floats                | Check Floats                | 2/28/2019 | 21:13:00 | USER | 8.25  | 0.00 | 180.00  | Floats held. 5 bbls back  |
| Event | 25 | End Job                     | End Job                     | 2/28/2019 | 21:14:51 | COM4 | 8.22  | 0.00 | 2.00    |   |
| Event | 26 | Pre-Rig Down Safety Meeting | Pre-Rig Down Safety Meeting | 2/28/2019 | 21:25:00 | USER | 8.19  | 0.00 | -5.00   | JSA to discuss the hazards of rig-down  |

3.0 Attachments

3.1 Prosper Farms 4-65 11-12 3AH Production.png

