

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

United States of America

Date: Wednesday, November 09, 2016

Hester Farms A-36HN

Surface

Job Date: Tuesday, November 08, 2016

Sincerely,

Lauren Roberts

Legal Notice

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Hester Farms A-36HN 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.

30 bbl. of cement 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

| | | | |
|--|---------------------------|---|-----------------------------------|
| Sold To #: 369404 | Ship To #: 3684136 | Quote #: | Sales Order #: 0903648248 |
| Customer: EXTRACTION OIL & GAS - | | Customer Rep: Larry Siegel | |
| Well Name: HESTER FARMS | | Well #: A-36HN | API/UWI #: 05-123-41993-00 |
| Field: WATTENBERG | City (SAP): EATON | County/Parish: WELD | State: COLORADO |
| Legal Description: 31-7N-66W-1589FNL-202FWL | | | |
| Contractor: | | Rig/Platform Name/Num: Spud Rig | |
| Job BOM: 7521 | | | |
| Well Type: HORIZONTAL OIL | | | |
| Sales Person: HALAMERICA\HX38199 | | Srvc Supervisor: Nathaniel Moore | |

Job

| | | | |
|---------------------|--------|----------------------|--|
| Job depth MD | 1588ft | Job Depth TVD | |
|---------------------|--------|----------------------|--|

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 | | | 0 | 1588 | 0 | 1588 |
| Open Hole Section | | | 13.5 | | | | 0 | 1588 | 0 | 1588 |

Tools and Accessories

| Type | Size in | Qty | Make | Depth ft | Type | Size in | Qty | Make |
|------------|---------|-----|------|----------|-------------|---------|-----|------|
| Float Shoe | 9.625 | | | 1588 | Bottom Plug | 9.625 | | HES |

Fluid Data

Stage/Plug #: 1

| 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 | Fresh Water | Fresh Water | 20 | bbl | 8.33 | | | | |

| 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 |
|----------|------------|----------------------|-----|---------|------------------------|----------------|---------------|--------------|---------------------|
| 2 | SwiftCem | SWIFTCEM (TM) SYSTEM | 525 | sack | 13.5 | 1.74 | | 5 | 9.2 |
| 9.20 Gal | | FRESH WATER | | | | | | | |

| 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 |
|---------|-------------|-------------|-----|---------|------------------------|----------------|---------------|--------------|---------------------|
| 3 | Fresh Water | Fresh Water | 116 | bbl | 8.33 | | | | |

| Cement Left In Pipe | Amount | Reason | Shoe Joint |
|---------------------|--------|--------|------------|
| | 42 ft | | |

30 bbl cement to surface

2.0 Real-Time Job Summary

2.1 Job Event Log

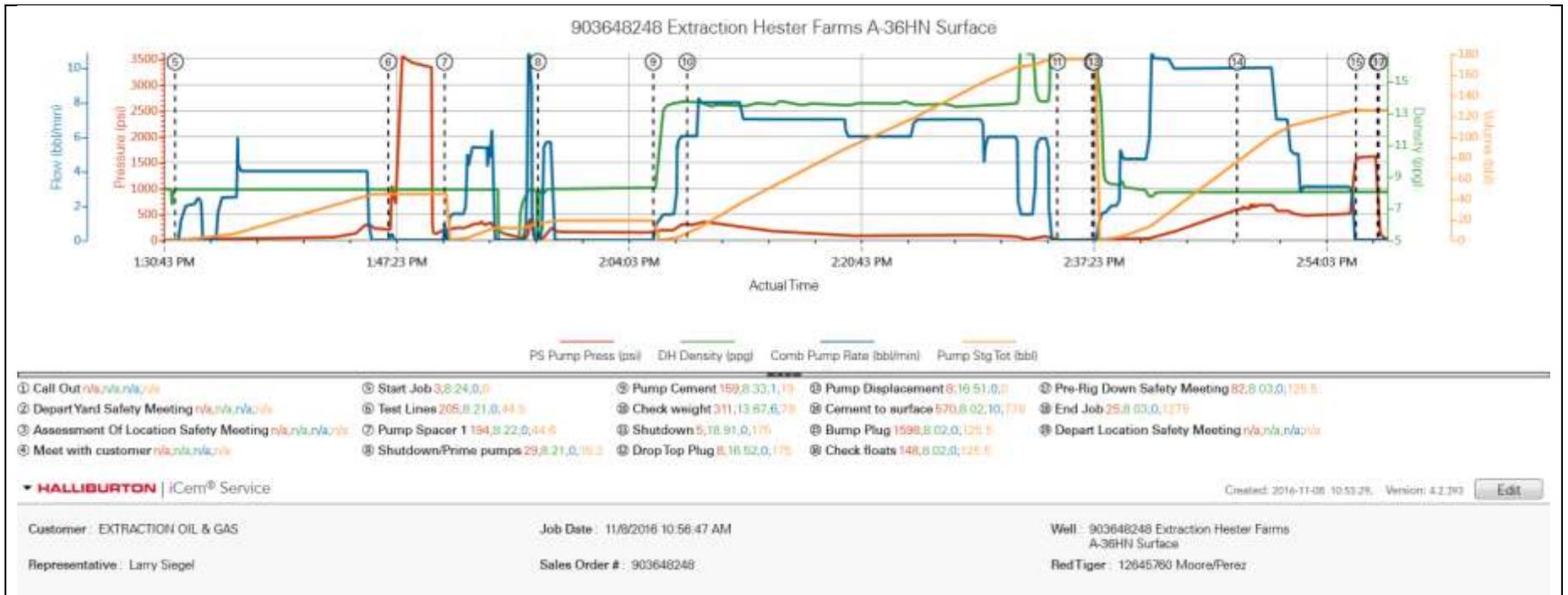
| Type | Seq. No. | Activity | Graph Label | Date | Time | Source | Comments |
|-------|----------|---------------------------------------|---------------------------------------|-----------|----------|--------|--|
| Event | 1 | Call Out | Call Out | 11/8/2016 | 06:30:00 | USER | OL time 1130. Verify equipment and materials |
| Event | 2 | Depart Yard Safety Meeting | Depart Yard Safety Meeting | 11/8/2016 | 09:00:00 | USER | |
| Event | 3 | Assessment Of Location Safety Meeting | Assessment Of Location Safety Meeting | 11/8/2016 | 10:30:00 | USER | Spot in and rig up equipment |
| Event | 4 | Other | Meet with customer | 11/8/2016 | 10:40:00 | USER | TD 1588' 13.5" open hole. TP 1555' 9.625" 36# J-55. 42' shoe. |
| Event | 5 | Start Job | Start Job | 11/8/2016 | 13:31:42 | COM1 | Fill lines. Pumped 40 bbl water to establish circulation |
| Event | 6 | Test Lines | Test Lines | 11/8/2016 | 13:46:58 | COM1 | 500 psi kick-out test. 3000 psi pressure test |
| Event | 7 | Pump Spacer 1 | Pump Spacer 1 | 11/8/2016 | 13:51:00 | COM1 | 10 bbl dye |
| Event | 8 | Other | Shutdown/Prime pumps | 11/8/2016 | 13:57:42 | COM1 | Sucked air and had to re-prime pumps |
| Event | 9 | Pump Cement | Pump Cement | 11/8/2016 | 14:05:58 | COM1 | 525 sks/163 bbl 13.5 ppg 1.74 ft3/sk 9.2 gal/sk |
| Event | 10 | Check Weight | Check weight | 11/8/2016 | 14:08:24 | COM1 | 13.5 ppg verified with pressurized scales |
| Event | 11 | Shutdown | Shutdown | 11/8/2016 | 14:34:56 | COM1 | Wash-up on top of plug |
| Event | 12 | Drop Top Plug | Drop Top Plug | 11/8/2016 | 14:37:27 | COM1 | witnessed by company rep |
| Event | 13 | Pump Displacement | Pump Displacement | 11/8/2016 | 14:37:34 | COM1 | 117 bbl water displacement |
| Event | 14 | Other | Cement to surface | 11/8/2016 | 14:47:49 | COM1 | 75 bbl into displacement. 30 bbl cement back |
| Event | 15 | Bump Plug | Bump Plug | 11/8/2016 | 14:56:21 | COM1 | 490 psi final circulating pressure. Pressured up to 1500 psi for casing test |
| Event | 16 | Other | Check floats | 11/8/2016 | 14:57:53 | COM1 | 0.5 bbl back. Floats held |
| Event | 17 | Pre-Rig Down Safety Meeting | Pre-Rig Down Safety Meeting | 11/8/2016 | 14:58:00 | USER | |
| Event | 18 | End Job | End Job | 11/8/2016 | 15:01:19 | COM1 | |
| Event | 19 | Depart Location Safety | Depart Location Safety | 11/8/2016 | 16:00:00 | USER | |

Meeting

Meeting

3.0 Attachments

3.1 903648248 Extraction Hester Farms A-36HN Surface-Custom Results.png



3.2 903648248 Extraction Hester Farms A-36HN Surface-Custom Results (1).png

