

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

| | | | | | | | |
|--|--------------------------|---|---|-----------------------------------|-----------------------------|-------------------------------|--------------------------|
| Sold To #: 344659 | | Ship To #: 2852848 | | Quote #: | | Sales Order #: 8227003 | |
| Customer: CHESAPEAKE OPERATING INC EBUSINESS | | | | Customer Rep: Howard, Dave | | | |
| Well Name: Wagner | | | Well #: 11-65 9-1H | | API/UWI #: | | |
| Field: | | City (SAP): CARR | | County/Parish: Weld | | State: Colorado | |
| Legal Description: Section 9 Township 11N Range 65W | | | | | | | |
| Contractor: Cylcone Drilling | | | Rig/Platform Name/Num: Rig 11 | | | | |
| Job Purpose: Cement Production Casing | | | | | | | |
| Well Type: Development Well | | | Job Type: Cement Production Casing | | | | |
| Sales Person: COLLINS, JAMES | | | Srvc Supervisor: HALL, ROLAND | | MBU ID Emp #: 273321 | | |
| Job Personnel | | | | | | | |
| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs |
| CORMAN, ANDREW | 7.5 | 497192 | HALL, ROLAND J. | 7.5 | 273321 | HANAWALT, RYAN | 7.5 |
| MEYER, JOHN R | 7.5 | 458774 | | | | | |
| Equipment | | | | | | | |
| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
| 10022315C | 255 mile | 10572220 | 255 mile | 10829459 | 255 mile | 10925849 | 255 mile |
| 11288860 | 255 mile | | | | | | |
| Job Hours | | | | | | | |
| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours |
| 6/11/11 | 7.5 | 6 | | | | | |
| TOTAL | | <i>Total is the sum of each column separately</i> | | | | | |
| Job | | | | Job Times | | | |
| Formation Name | | Top | | Bottom | | Date | Time |
| Formation Depth (MD) | | Top | | Bottom | | Called Out | Time Zone |
| Form Type | | BHST | | 252 degF | | On Location | Time |
| Job depth MD | | 12500. ft | | Job Depth TVD | | Job Started | Time |
| Water Depth | | Wk Ht Above Floor | | 2. ft | | Job Completed | Time |
| Perforation Depth (MD) | | From | | To | | Departed Loc | Time |
| Well Data | | | | | | | |
| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade |
| 7 7/8" Open Hole Section | | | | 7.875 | | | |
| 8 3/4" Pilot Hole | | | | 8.75 | | | |
| 4 1/2" Production Casing | New | | 4.5 | 4. | 11.6 | | P-110 |
| 9 5/8" Surface Pipe | New | | 9.625 | 8.835 | 40. | | J-55 |
| Tools and Accessories | | | | | | | |
| Type | Size | Qty | Make | Depth | Type | Size | Qty |
| Guide Shoe | | | | | Packer | | |
| Float Shoe | | | | | Bridge Plug | | |
| Float Collar | | | | | Retainer | | |
| Insert Float | | | | | | | |
| Stage Tool | | | | | | | |
| Miscellaneous Materials | | | | | | | |
| Gelling Agt | | Conc | | Surfactant | | Conc | |
| Treatment Fld | | Conc | | Inhibitor | | Conc | |
| Acid Type | | | Qty | Acid Type | | | Qty |
| Sand Type | | | Size | Sand Type | | | Size |

HALLIBURTON

Cementing Job Summary

| Fluid Data | | | | | | | | | |
|--|--------------|------------------|--------|-----------------------------------|------------------------|---------------------------|------------------|--------------|------------------------|
| Stage/Plug #: 1 | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft ³ /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
| 1 | Spacer | Fresh Water | 20.00 | bbl | 8.33 | | | | |
| 2 | Lead Cement | VARICEM | 1100 | sacks | 12. | 2.17 | 12.17 | | 12.17 |
| 3 | Tail Cement | EXPANDACEM | 1055 | sacks | 14.6 | 1.46 | 6.09 | | 6.09 |
| 4 | Displacement | Fresh Water | 190.0 | bbl | 8.33 | | | | |
| Calculated Values | | Pressures | | Volumes | | | | | |
| Displacement | 191 | Shut In: Instant | | Lost Returns | No | Cement Slurry | 705 | Pad | |
| Top Of Cement | | 5 Min | | Cement Returns | 0 | Actual Displacement | 190 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 20 | Load and Breakdown | | Total Job | 915 |
| Rates | | | | | | | | | |
| Circulating | | Mixing | | Displacement | | Avg. Job | | | |
| Cement Left In Pipe | Amount | 43 ft | Reason | Shoe Joint | | | | | |
| Frac Ring # 1 @ | ID | Frac ring # 2 @ | ID | Frac Ring # 3 @ | ID | Frac Ring # 4 @ | ID | | |
| The Information Stated Herein Is Correct | | | | Customer Representative Signature | | | | | |