

HALLIBURTON

iCem[®] Service

CRESTONE PEAK RESOURCES-EBUS

Ft. Lupton District, Colorado

For:

Date: Tuesday, March 28, 2023

Cosslett East 1G

Weld, Cosslett East

Surface

Job Date: Tuesday, March 28, 2023

Sincerely,

Luke Kosakewich

Legal Notice

Disclaimer:

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Well Name and Number - Job Type**. 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 XX 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 Rockies Cement Team

1.2 Job Overview

| Job Details | |
|--------------------|-------------------|
| API #: | 05-123-51941 |
| City, County: | Erie, Weld |
| Field: | WATTENBERG |
| Legal Description: | SENE S22 T1N R68W |

| Job Times | | |
|-----------------------------|-------------------|--------------|
| | Date (mm/dd/yyyy) | Time (hh:mm) |
| Requested Time On Location: | 03/28/2023 | 04:00:00 |
| Called Out Time: | 03/27/2023 | 22:00:00 |
| Arrived On Location: | 03/28/2023 | 03:30:00 |
| Job Started: | 03/28/2023 | 04:40:00 |
| Job Completed: | 03/28/2023 | 07:15:00 |
| Departed Location: | 03/28/2023 | 12:00:00 |

| | Description | Units | Value |
|---|--|----------|------------|
| 1 | Surface temperature at the time of the job | degree F | 21 |
| 2 | Mud type (OBM, WBM, Synthetic, Water, Brine) | - | Water Base |
| 3 | Mud density | ppg | 8.8 ppg. |
| 4 | Casing set depth (shoe) | ft | 2,599' |
| 5 | TVD | ft | 2,599' |
| 6 | Float collar depth | ft | 2,552' |
| 7 | Length of rate hole | ft | 10' |
| 8 | Previous casing shoe depth | ft | 603 |
| 9 | Pre-job mud circulation time | hh:mm | 1:30 |

| | | | |
|----|---|---------------------|-------------|
| 10 | Pre-job mud circulation rate | bpm | 7 |
| 11 | Pre-job mud circulation volume | bbls | 150 |
| 12 | Mud circulation pressure at start of cement | psi | 180 |
| 13 | Annual flow before the start of job | Y/N | Yes |
| 14 | Pipe movement during cement job | Y/N | No |
| 15 | Calculated displacement | bbls | 197 |
| 16 | Job displaced by | Rig/HES | HES |
| 17 | Estimated returns % during job | % | 99 |
| 18 | Fluid returns to surface | Spacer/Cement, bbls | 20sp / 22cm |
| 19 | Final circulation pressure, rate prior to plug bump | psi @ bpm | 950 2bbp |
| 20 | Number of Centralizers | - | 23 |
| 21 | Number of bottom plugs | - | 1 |

1.3 Water Field Test

| | Recorded Value | Unit | Acceptable Limit | Potential Problems if Values Exceed the Limit | |
|--------------------|----------------|------|------------------|---|--|
| pH | 7.2 | | 6.0 - 8.0 | Chemicals in water can cause severe retardation | |
| Temperature | 60 | F | 60 - 80 F | Can can pre-mature setting of cement | |
| Chlorides | 0 | ppm | 3000 ppm | Can shorten thickening time | |

1.4 Actual Pump Schedule

| | Density (ppg) | Volume (bbls) | Yield (ft3/sk) | Water Requirement (gal/sk) | Bulk Sacks (sks) | Total Water (gals) |
|---------------------------|---------------|---------------|----------------|----------------------------|------------------|--------------------|
| Spacer Fluid | 8.33 | 20 | N/A | N/A | N/A | N/A |
| Lead Cement | 14.2 | 176 | 1.15 | 5.74 | 860 | 4,936 |
| Displacement Fluid | 8.33 | 197 | N/A | N/A | N/A | N/A |

2.0 Real-Time Job Summary

2.1 Job Event Log

| Type | Seq No. | Activity | Graph Label | Date | Time | Source | Pump A Pressure (psi) | Dnwhol e Density (ppg) | Cmb Pump Rate (bbl/min) | Cmb Stg Total (bbl) | Comments |
|-------|---------|----------------------------|----------------------------|-----------|----------|--------|-----------------------|------------------------|-------------------------|---------------------|--|
| Event | 1 | Call Out | Call Out | 3/27/2023 | 22:00:00 | USER | | | | | Crew was called out at 22:00:00 for an on-location time of 04:00:00 |
| Event | 2 | Crew Arrive Shop | Crew Arrive Shop | 3/27/2023 | 23:00:00 | USER | | | | | Crew arrived at the shop and started getting all equipment and materials need for the cement job. All pre journey checks were completed. |
| Event | 3 | Depart Yard Safety Meeting | Depart Yard Safety Meeting | 3/28/2023 | 02:20:00 | USER | | | | | Discussed transportation hazards and verified crew was fit for duty to travel to location and perform the work that the cement job requires. |

| | | | | | | | | | | | |
|-------|----|--|--|-----------|----------|-------|------|------|------|------|---|
| Event | 4 | Depart from Service Center or Other Site | Depart from Service Center or Other Site | 3/28/2023 | 02:30:00 | USER | | | | | Crew let the yard and travel to location. |
| Event | 5 | Arrive at Location from Service Center | Arrive at Location from Service Center | 3/28/2023 | 03:30:00 | USER | | | | | Arrived on location and check in with the gate guard and signed in at the safety shack. |
| Event | 6 | Discuss Job | Discuss Job | 3/28/2023 | 03:40:00 | USER | | | | | Meet up with the customer and discussed job procedures, timing, specification, and well bore conditions, calculations, and volumes. |
| Event | 7 | Pre-Rig Up Safety Meeting | Pre-Rig Up Safety Meeting | 3/28/2023 | 03:45:00 | USER | | | | | Held a site assessment and pre rig up safety meeting. |
| Event | 8 | Rig-Up Equipment | Rig-Up Equipment | 3/28/2023 | 03:50:00 | USER | | | | | Rigged up all lines, hoses, and equipment for the job. |
| Event | 9 | Safety Meeting | Safety Meeting | 3/28/2023 | 05:25:00 | USER | | | | | Held a pre cement job safety meeting with all involved and affected personal. |
| Event | 10 | Start Job | Start Job | 3/28/2023 | 05:39:20 | NON E | 7.28 | 8.29 | 0.00 | 0.00 | Verified pumps and were operational and mechanically sound to complete the job. |

| | | | | | | | | | | | |
|-------|----|-------------------|-------------------|-----------|----------|-------|--------|------|------|-------|---|
| Event | 11 | Break Circulation | Break Circulation | 3/28/2023 | 05:40:25 | USER | 143.35 | 8.93 | 0.00 | 0.00 | Pumped 3 bbl. of fresh water until lines were filled, pressure level off and circulation broke. |
| Event | 12 | Establish Rate | Establish Rate | 3/28/2023 | 05:41:47 | USER | 189.67 | 9.07 | 2.97 | 2.77 | Pressure was 180 psi. at 3 bbl./min after circulation was confirmed. |
| Event | 13 | Pressure Test | Pressure Test | 3/28/2023 | 05:42:28 | USER | 104.21 | 9.01 | 0.00 | 3.15 | Shut in the manifold and pressure test HSE lines and pump truck to 2,350 psi. Pressure held. Bled off pressure. |
| Event | 14 | Pump Spacer 1 | Pump Spacer 1 | 3/28/2023 | 05:45:54 | NON E | 87.58 | 8.87 | 0.00 | 0.06 | Pumped 20 bbl. of fresh water with green die for space. |
| Event | 15 | Shutdown | Shutdown | 3/28/2023 | 05:49:50 | USER | 192.35 | 9.15 | 0.00 | 20.26 | Shutdown to batch up cement and get a accurate scale. |
| Event | 16 | Mix Cement | Mix Cement | 3/28/2023 | 05:50:39 | USER | 68.63 | 9.18 | 0.00 | 20.26 | Mixed up a full 8 bbl tub of surface cement at 14.2 ppg. |
| Event | 17 | Check Weight | Check Weight | 3/28/2023 | 05:54:04 | USER | 51.06 | 9.00 | 0.00 | 20.26 | Cement slurry weight 14.2 ppg. Density was verified by pressurized scales. |

| | | | | | | | | | | | |
|-------|----|---------------------------|---------------------------|-----------|----------|-------|--------|-------|------|--------|--|
| Event | 18 | Pump Cement | Pump Cement | 3/28/2023 | 05:54:38 | USER | 48.84 | 8.98 | 0.00 | 20.26 | Pumped 176 bbl. (860 sks) of Swiftcem at 7 bbl. per minute with pressure at 400 psi. |
| Event | 19 | Check Weight | Check Weight | 3/28/2023 | 06:08:17 | NON E | 304.72 | 14.58 | 5.58 | 71.42 | Cement weighed up at 14.2 ppg. with pressurized scales. |
| Event | 20 | Shutdown | Shutdown | 3/28/2023 | 06:30:13 | NON E | 126.12 | 15.85 | 0.00 | 193.78 | Shutdown after all water required for cement volumes was mixed and pumped away and pumped and pumped all cement away. |
| Event | 21 | Drop Top Plug | Drop Top Plug | 3/28/2023 | 06:32:09 | USER | 39.11 | 14.39 | 0.66 | 193.85 | Washed up onto pf the plug and pumped the bottom plug away. Plug drop was witnessed and verified by HES and customer representative. |
| Event | 22 | Pump Displacement | Pump Displacement | 3/28/2023 | 06:32:38 | NON E | 33.40 | 14.80 | 0.00 | 0.00 | Pumped 197 bbl. of fresh water for displacement. |
| Event | 23 | Spacer Returns to Surface | Spacer Returns to Surface | 3/28/2023 | 06:57:33 | USER | 768.76 | 7.11 | 5.92 | 151.82 | Approximately 152 bbl. away, freshwater spacer with green die returned to surface. Verified and |

| | | | | | | | | | | | |
|-------|----|---------------------------|---------------------------|-----------|----------|------|---------|------|------|--------|--|
| | | | | | | | | | | | witnessed by HES and the customer. |
| Event | 24 | Cement Returns to Surface | Cement Returns to Surface | 3/28/2023 | 07:01:58 | USER | 874.43 | 7.10 | 3.51 | 172.01 | 172 bbl. away, cement returned to surface. cement to surface was verified and witnessed by HES and the customer. |
| Event | 25 | Bump Plug | Bump Plug | 3/28/2023 | 07:11:31 | USER | 1120.07 | 7.08 | 1.94 | 194.69 | Slowed rate to 2 bbl. a minute at 177 bbl. away. to bump the plug. Plug bumped early at 194 bbl. away. Circulating pressure was 950 psi. When the plug bumped. approximately 22 bbl. of cement to surface. |
| Event | 26 | Pressure Up Annulus | Pressure Up Annulus | 3/28/2023 | 07:12:03 | USER | 1367.29 | 7.09 | 0.00 | 194.74 | Annulus was pressured up to 1350 during blog bump. |
| Event | 27 | Test Annulus | Test Annulus | 3/28/2023 | 07:12:18 | USER | 1371.41 | 7.08 | 0.00 | 194.74 | Held 1,350 psi. for tow minutes. Casing held. |
| Event | 28 | Pressure Down Annulus | Pressure Down Annulus | 3/28/2023 | 07:13:52 | USER | 1357.08 | 7.06 | 0.00 | 194.74 | Bled off pressure |
| Event | 29 | Check Floats | Check Floats | 3/28/2023 | 07:14:00 | USER | 1256.77 | 7.03 | 0.00 | 194.74 | Monitored flow back to the truck till flow slowed down and discontinued. We got 1 bbl. of fluid back to |

| | | | | | | | | | | | |
|-------|----|--|--|-----------|----------|-------|-------|------|------|------|---|
| | | | | | | | | | | | the truck during flow back. |
| Event | 30 | End Job | End Job | 3/28/2023 | 07:15:15 | NON E | 26.86 | 6.93 | 0.00 | 0.00 | Shut Down. |
| Event | 31 | Safety Meeting - Pre-Rig-Down | Safety Meeting - Pre-Rig-Down | 3/28/2023 | 07:16:00 | USER | 22.69 | 6.91 | 0.00 | 0.00 | Held a pre rig down safety meeting and huddle with the crew. |
| Event | 32 | Rig-Down Equipment | Rig-Down Equipment | 3/28/2023 | 07:20:00 | USER | 23.83 | 6.87 | 0.00 | 0.00 | Crew rigged down all lines pumps and hoses used for the cement job. |
| Event | 33 | Rig-Down Completed | Rig-Down Completed | 3/28/2023 | 08:30:00 | USER | | | | | Crew stowed all iron, hoses and tools in tucks and toolboxes. |
| Event | 34 | Depart Location Safety Meeting | Depart Location Safety Meeting | 3/28/2023 | 08:45:00 | USER | | | | | Crew held a pre journey safety meeting before leaving location. Disused all truck routs and hours of service to make sure all that are driving are safe and Lega. |
| Event | 35 | Depart Location for Service Center or Other Site | Depart Location for Service Center or Other Site | 3/28/2023 | 09:00:00 | USER | | | | | Crew left to go back to the yard or other location. |

3.0 Attachments

3.1 Civitas_Cosslett Eat 1G_22H-H168 Surface 908505971.png

