

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America, COLORADO

Date: Friday, June 01, 2018

RU 524-17

API# 05-045-23731-00

Terra RU 524-17 Production

Job Date: Tuesday, May 22, 2018

Sincerely,

Grand Junction Cement Engineering

1.0 Real-Time Job Summary

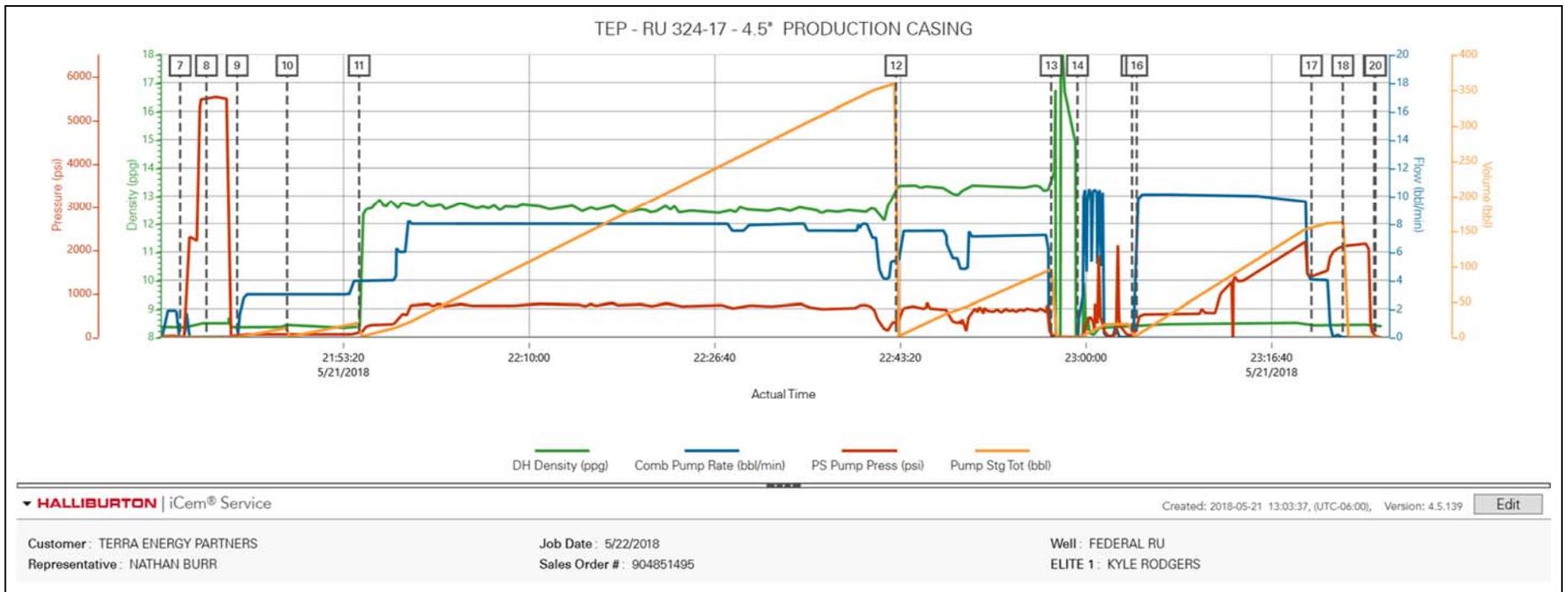
1.1 Job Event Log

| Type | Seq. No. | Graph Label | Date | Time | Source | DH Density <i>(ppg)</i> | Comb Pump Rate <i>(bbl/min)</i> | PS Pump Press <i>(psi)</i> | Pump Stg Tot <i>(bbl)</i> | Comments |
|-------|----------|---------------------------------------|-----------|----------|--------|----------------------------|------------------------------------|-------------------------------|------------------------------|---|
| Event | 1 | Call Out | 5/21/2018 | 11:00:00 | USER | | | | | |
| Event | 2 | Pre-Convoy Safety Meeting | 5/21/2018 | 13:20:00 | USER | | | | | JOURNEY MANAGEMENT COMPLETE, AS WELL AS JSA |
| Event | 3 | Crew Leave Yard | 5/21/2018 | 13:30:00 | USER | | | | | |
| Event | 4 | Arrive At Loc | 5/21/2018 | 15:30:00 | USER | | | | | JOURNEY MANAGEMENT CLOSED OUT. RIG RUNNING CASING |
| Event | 5 | Assessment Of Location Safety Meeting | 5/21/2018 | 16:00:00 | USER | | | | | JSA COMPLETE |
| Event | 6 | Other | 5/21/2018 | 16:04:32 | USER | | | | | WATER TEST: PH-7, TEMP-60, CL-0, TP- 10548, TD-10558, F.C.- 10517, HOLE-8 3/4, 9 5/8- 1140, MUD#- 9.2 |
| Event | 7 | Pre-Rig Up Safety Meeting | 5/21/2018 | 16:20:00 | USER | | | | | JSA COMPLETE |
| Event | 8 | Rig-Up Equipment | 5/21/2018 | 16:30:00 | USER | | | | | |
| Event | 9 | Pre-Job Safety Meeting | 5/21/2018 | 19:00:00 | USER | | | | | JSA COMPLETE |
| Event | 10 | Start Job | 5/21/2018 | 21:38:40 | COM5 | | | | | |
| Event | 11 | Test Lines | 5/21/2018 | 21:41:02 | COM5 | 8.33 | 0.00 | 5565.00 | 0.10 | 5565 PSI |
| Event | 12 | Pump Spacer 1 | 5/21/2018 | 21:43:47 | COM5 | 8.33 | 3.00 | 190.0 | 10.0 | FRESH WATER |
| Event | 13 | Pump Spacer 2 | 5/21/2018 | 21:48:16 | COM5 | 8.44 | 3.00 | 231.0 | 20.0 | MUD FLUSH |
| Event | 14 | Pump Lead Cement | 5/21/2018 | 21:54:44 | COM5 | 12.50 | 8.00 | 750.0 | 323.0 | 935 SKS NEOCEM, 12.5 PPG, 1.94 FT3/SK, 9.6 GAL/SK |

| | | | | | | | | | | |
|-------|----|--|-----------|----------|------|-------|------|---------|--------|---|
| Event | 15 | Pump Tail Cement | 5/21/2018 | 22:42:56 | COM5 | 13.30 | 7.2 | 560.0 | 81.6 | 265 SKS THERMACEM, 13.3 PPG, 1.73 FT3/SK, 7.81 GAL/SK |
| Event | 16 | Shutdown | 5/21/2018 | 22:56:52 | COM5 | | | | | TO WASH PUMPS AND LINES |
| Event | 17 | Clean Lines | 5/21/2018 | 22:59:14 | COM5 | | | | | CLEAN PUMPS AND LINES TO PIT, PUMPED AIR FROM FLOOR TO PIT |
| Event | 18 | Drop Top Plug | 5/21/2018 | 23:04:08 | COM5 | | | | | AWAY |
| Event | 19 | Pump Displacement | 5/21/2018 | 23:04:33 | COM5 | 8.33 | 10.0 | 2200 | 163.0 | KCL WATER WITH 1 GAL MMCR, 3 BAGS BE-6 |
| Event | 20 | SLOW RATE | 5/21/2018 | 23:20:14 | COM5 | 8.33 | 4.00 | 1386.00 | 153.00 | SLOW RATE |
| Event | 21 | Bump Plug | 5/21/2018 | 23:23:03 | COM5 | 8.33 | 4.00 | 1530.0 | 163.0 | PLUG BUMPED |
| Event | 22 | CHECK FLOATS | 5/21/2018 | 23:25:52 | COM5 | | | 2148.0 | | FLOATS HELD 1.5 BBLS BACK TO TRUCK |
| Event | 23 | End Job | 5/21/2018 | 23:25:59 | COM5 | | | | | GOOD CIRCULATION THROUGH OUT JOB, PIPE WORKED 5-10 FT. UNTIL DISPLACEMENT |
| Event | 24 | Post-Job Safety Meeting (Pre Rig-Down) | 5/22/2018 | 00:10:00 | USER | | | | | JSA COMPLETE |
| Event | 25 | Rig Down Lines | 5/22/2018 | 00:30:00 | USER | | | | | |
| Event | 26 | Crew Leave Location | 5/22/2018 | 01:00:00 | USER | | | | | THANK YOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW |

2.0 Attachments

2.1 CHART.png



Job Information

| | | | | | |
|-----------------------|-----------------------|-----------------|-------------------|-------------------|----------------|
| Request/Slurry | 2473988/1 | Rig Name | H&P 318 | Date | 11/MAY/2018 |
| Submitted By | Aaron Katz | Job Type | Production Casing | Bulk Plant | Grand Junction |
| Customer | Terra Energy Partners | Location | Garfield | Well | RU 524-17 |

Well Information

| | | | | | |
|--------------------------|----------|------------------|----------|-------------|---------------|
| Casing/Liner Size | 4.5 in | Depth MD | 10755 ft | BHST | 127°C / 260°F |
| Hole Size | 8.75 in | Depth TVD | 10563 ft | BHCT | 92°C / 197°F |
| Pressure | 6698 psi | | | | |

Drilling Fluid Information

| | | |
|--------------------------|-----------------------|----------------|
| Mud Supplier Name | Mud Trade Name | Density |
|--------------------------|-----------------------|----------------|

Cement Information - Lead Design

| <u>Conc</u> | <u>UOM</u> | <u>Cement/Additive</u> | <u>Sample Type</u> | <u>Sample Date</u> | <u>Lot No.</u> | <u>Cement Properties</u> | | |
|-------------|------------|------------------------|--------------------|--------------------|----------------|--------------------------|-------------|----------|
| | | NeoCem | | | | Slurry Density | 12.5 | lbm/gal |
| | | | | | | Slurry Yield | 1.941 | ft3/sack |
| | | | | | | Water Requirement | 9.623 | gal/sack |
| | | | | | | Total Mix Fluid | 9.623 | gal/sack |
| | | | | | | Water Source | Fresh Water | |
| | | | | | | Water Chloride | | |

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Operation Test Results Request ID 2473988/1

Thickening Time - ON-OFF-ON

16/MAY/2018

| Test Temp (degF) | Pressure (psi) | Reached in (min) | 30 Bc (hh:min) | 50 Bc (hh:min) | 70 Bc (hh:min) | 100 Bc (hh:min) | Start Bc | Stirring before stop (mins) | Static Period (min) | Peak reading (BC) |
|------------------|----------------|------------------|----------------|----------------|----------------|-----------------|----------|-----------------------------|---------------------|-------------------|
| 197 | 6698 | 52 | 4:31 | 4:31 | 4:31 | 4:54 | 8 | 62 | 15 | 8 |

Total sks = 935

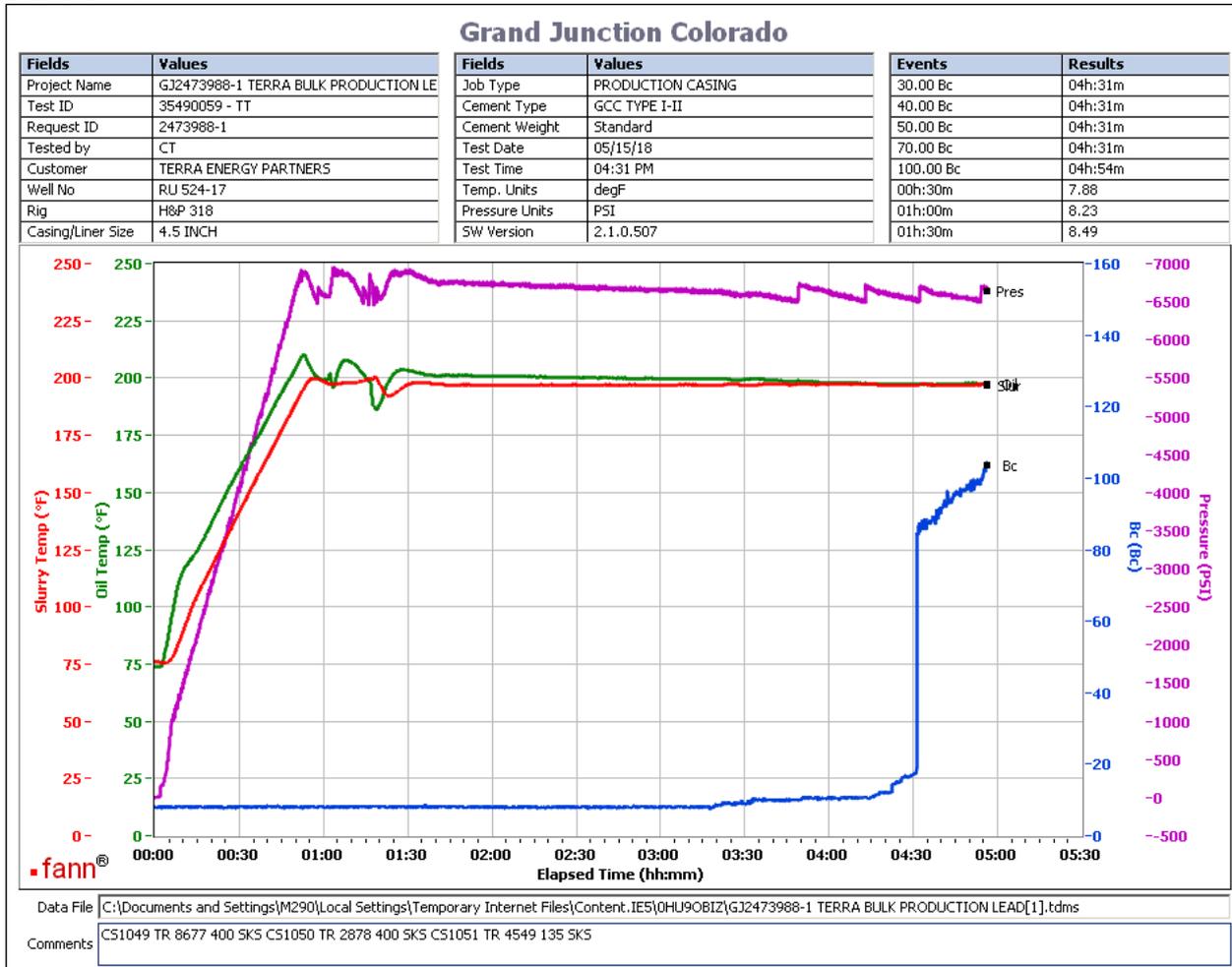
Composite:

CS1049 TR 8677 400 SKS

CS1050 TR 2878 400 SKS

CS1051 TR 4549 135 SKS

Deflection: 8 - 8



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Job Information

| | | | | | |
|-----------------------|-----------------------|-----------------|-------------------|-------------------|----------------|
| Request/Slurry | 2473989/1 | Rig Name | H&P 318 | Date | 11/MAY/2018 |
| Submitted By | Aaron Katz | Job Type | Production Casing | Bulk Plant | Grand Junction |
| Customer | Terra Energy Partners | Location | Garfield | Well | RU 524-17 |

Well Information

| | | | | | |
|--------------------------|----------|------------------|----------|-------------|---------------|
| Casing/Liner Size | 4.5 in | Depth MD | 10755 ft | BHST | 127°C / 260°F |
| Hole Size | 8.75 in | Depth TVD | 10563 ft | BHCT | 92°C / 197°F |
| Pressure | 6698 psi | | | | |

Drilling Fluid Information

| | | | | | |
|--------------------------|--|-----------------------|--|----------------|--|
| Mud Supplier Name | | Mud Trade Name | | Density | |
|--------------------------|--|-----------------------|--|----------------|--|

Cement Information - Tail Design

| <u>Conc</u> | <u>UOM</u> | <u>Cement/Additive</u> | <u>Sample Type</u> | <u>Sample Date</u> | <u>Lot No.</u> | <u>Cement Properties</u> | | |
|-------------|------------|------------------------|--------------------|--------------------|----------------|--------------------------|-------------|-----------------------|
| | | ThermaCem | | | | Slurry Density | 13.3 | lbm/gal |
| | | | | | | Slurry Yield | 1.734 | ft ³ /sack |
| | | | | | | Water Requirement | 7.809 | gal/sack |
| | | | | | | Total Mix Fluid | 7.809 | gal/sack |
| | | | | | | Water Source | Fresh Water | |
| | | | | | | Water Chloride | | |

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Operation Test Results Request ID 2473989/1

Thickening Time - ON-OFF-ON

17/MAY/2018

| 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) |
|------------------|----------------|------------------|---------------|---------------|---------------|----------------|----------|-----------------------------|---------------------|-------------------|
| 197 | 6698 | 52 | 3:41 | 3:48 | 3:55 | 4:33 | 13 | 62 | 15 | 13 |

Total sks = 265

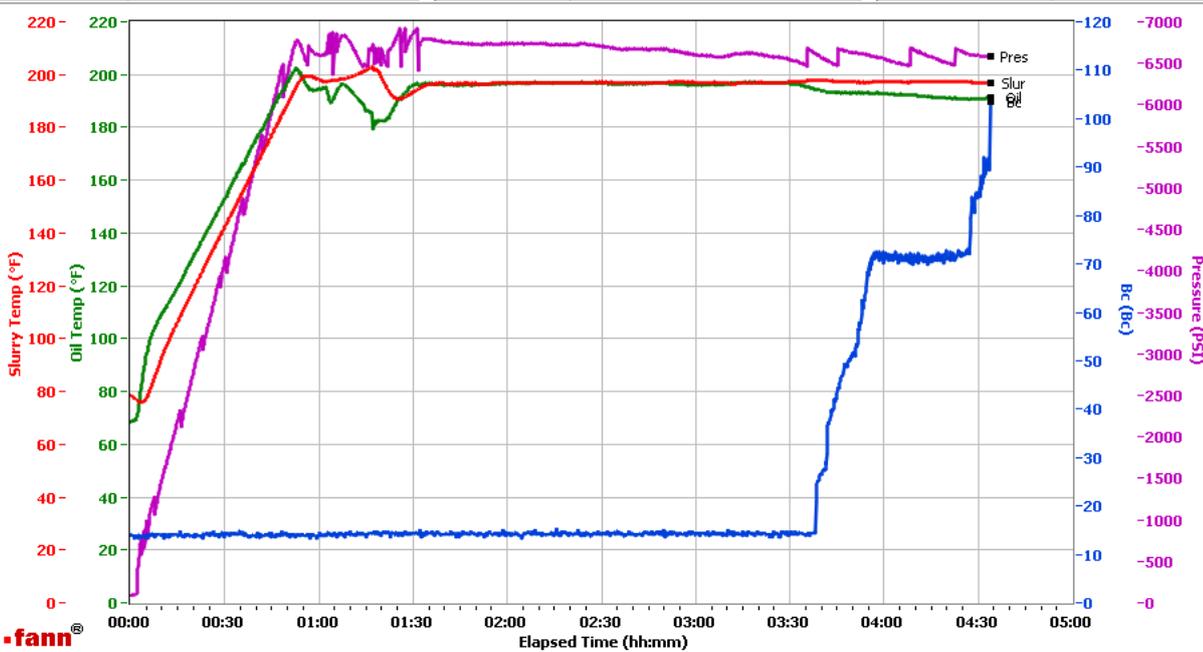
CS1066 tr#7428 SKS

No deflection , 13Bc--- > 13Bc

please note, heat of hydration @3:33

Grand Junction Colorado

| Fields | Values | Fields | Values | Events | Results |
|-------------------|--------------------------------------|----------------|-------------------|-----------|---------|
| Project Name | GJ2473989-1 TERRA PRODUCTION BULK TA | Job Type | PRODUCTION CASING | 30.00 Bc | 03h:41m |
| Test ID | 35490061 | Cement Type | MOUNTAIN G | 40.00 Bc | 03h:43m |
| Request ID | GJ2473989-1 | Cement Weight | Standard | 50.00 Bc | 03h:48m |
| Tested by | DEBA | Test Date | 05/17/18 | 70.00 Bc | 03h:55m |
| Customer | TERRA ENERGY PARTNERS | Test Time | 02:32 PM | 100.00 Bc | 04h:33m |
| Well No | RJ 524-17 | Temp. Units | degF | 00h:30m | 14.28 |
| Rig | H&P 318 | Pressure Units | PSI | 01h:00m | 13.86 |
| Casing/Liner Size | 4.5" | SW Version | 2.1.0.1219 | 01h:30m | 14.17 |



Data File C:\Documents and Settings\HPHT\Local Settings\Temporary Internet Files\Content.IE5\6J6B21WN\GJ2473989-1 TERRA PRODUCTION BULK TAIL[1].tdms

Comments CS1066 TR#7428 265 SKS

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