

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America, COLORADO

Date: Saturday, April 07, 2018

Federal RU 313-17

API# 05-045-23743

Terra Federal RU 313-17 Production

Job Date: Friday, April 06, 2018

Sincerely,

Grand Junction Cement Engineering

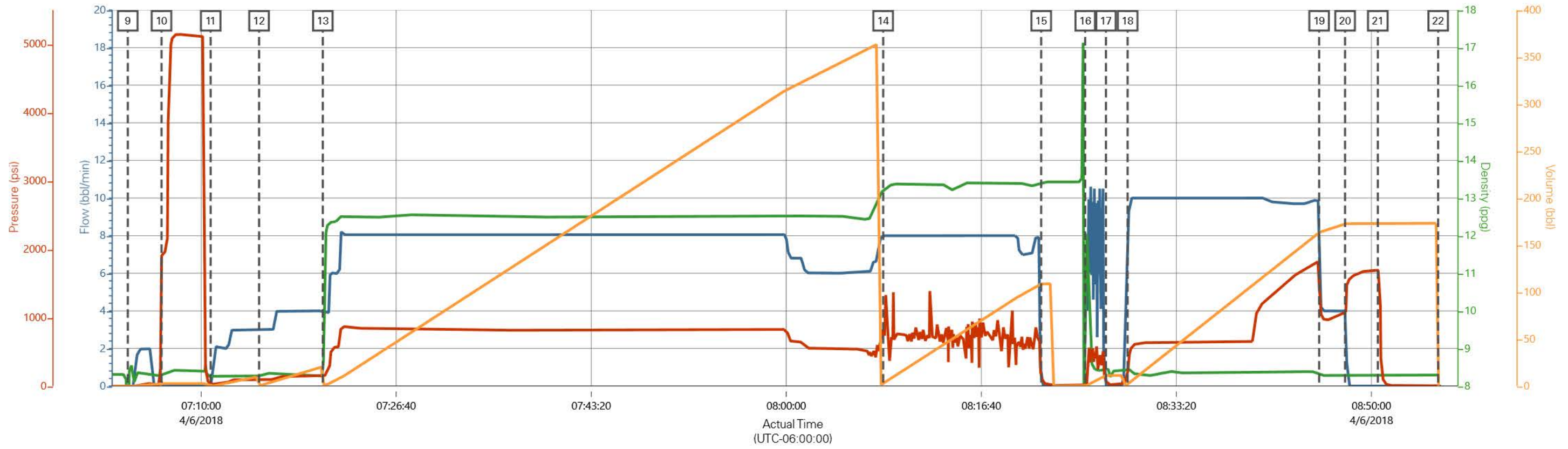
1.0 Real-Time Job Summary

1.1 Job Event Log

| Type | Seq. No. | Graph Label | Date | Time | Source | Comb Pump Rate (bbl/min) | DH Density (ppg) | PS Pump Press (psi) | Pump Stg Tot (bbl) | Comments |
|-------|----------|---------------------------------------|----------|----------|--------|-----------------------------|---------------------|------------------------|-----------------------|---|
| Event | 1 | Call Out | 4/5/2018 | 09:00:00 | USER | | | | | Customer called back and requested new on location time of 00:00 on 04/06/2018 |
| Event | 2 | Pre-Convoy Safety Meeting | 4/5/2018 | 11:00:00 | USER | | | | | JSA Completed |
| Event | 3 | Crew Leave Yard | 4/5/2018 | 11:05:00 | USER | | | | | |
| Event | 4 | Arrive At Loc | 4/5/2018 | 21:30:00 | USER | | | | | Rig running casing. |
| Event | 5 | Assessment Of Location Safety Meeting | 4/5/2018 | 21:35:00 | USER | | | | | |
| Event | 6 | Pre-Rig Up Safety Meeting | 4/5/2018 | 22:52:29 | USER | | | | | JSA completed. |
| Event | 7 | Rig-Up Equipment | 4/5/2018 | 22:55:00 | USER | | | | | |
| Event | 8 | Pre-Job Safety Meeting | 4/5/2018 | 23:00:00 | USER | | | | | JSA completed. |
| Event | 9 | Start Job | 4/6/2018 | 07:03:44 | COM4 | | | | | 4 1/2" 11.6# casing, TD 10727', TP 10721', SJ 30.15', OH 8 3/4", Mud 9.0 PPG, Water test temp 65, PH 7, Chlorides 0 |
| Event | 10 | Test Lines | 4/6/2018 | 07:06:37 | COM4 | 0.00 | 8.31 | 5000.00 | 3.00 | Test lines to 5000 PSI. |
| Event | 11 | Pump H2O Spacer | 4/6/2018 | 07:10:49 | COM4 | 4.00 | 8.33 | 100.00 | 10.00 | Pump 10 BBLS H2O spacer, 100 PSI. |
| Event | 12 | Pump Mudflush | 4/6/2018 | 07:14:57 | COM4 | 4.00 | 8.40 | 240.00 | 20.00 | Pump 20 BBL Mudflush, 240 PSI. |
| Event | 13 | Pump Lead Cement | 4/6/2018 | 07:20:24 | COM4 | 8.00 | 12.5 | 830.00 | 324.90 | Pump 324.9 BBL lead cement, 940 sks/12.5ppg/ 1.94 yld/ 9.6 gal/sk h2o req. 830 PSI. |

| | | | | | | | | | | |
|-------|----|-----------------------------|----------|----------|------|-------|-------|---------|--------|---|
| Event | 14 | Pump Tail Cement | 4/6/2018 | 08:08:17 | COM4 | 8.00 | 13.30 | 750.00 | 81.60 | Pump 81.6 BBL tail cement, 265 sks / 13.3 ppg / 1.73 yld / 7.81 gal/sk h2o req. 750 PSI. |
| Event | 15 | Shutdown | 4/6/2018 | 08:21:47 | USER | | | | | |
| Event | 16 | Clean Lines | 4/6/2018 | 08:25:33 | COM4 | | | | | Clean lines to pit. |
| Event | 17 | Drop Top Plug | 4/6/2018 | 08:27:19 | COM4 | | | | | Plug Away. |
| Event | 18 | Pump Displacement | 4/6/2018 | 08:29:10 | COM4 | 10.00 | 8.40 | 1800.00 | 165.70 | Pump 165.7 BBL KCL displacement with 3 lbs BE-6, 1 gal MMCR. 1800 PSI. Lost returns at 55 BBL away, did not return. |
| Event | 19 | Slow Rate | 4/6/2018 | 08:45:32 | USER | 4.00 | 8.40 | 1825.00 | 155.00 | Slow rate at 155 BBL away, 1825 PSI. |
| Event | 20 | Bump Plug | 4/6/2018 | 08:47:45 | COM4 | 4.00 | 8.40 | 1080.00 | 165.70 | Plug bumped at calculated displacement. Final circulating pressure 1080 PSI. |
| Event | 21 | Check Floats | 4/6/2018 | 08:50:33 | USER | | | | | Floats held. 1 BBL back to pump. |
| Event | 22 | End Job | 4/6/2018 | 08:55:42 | COM4 | | | | | Pipe left static throughout, good returns throughout cement, lost returns on displacement, no sugar used, 1 add hour charged. |
| Event | 23 | Pre-Rig Down Safety Meeting | 4/6/2018 | 09:00:00 | USER | | | | | JSA completed. |
| Event | 24 | Rig-Down Equipment | 4/6/2018 | 09:05:00 | USER | | | | | |
| Event | 25 | Pre-Convoy Safety Meeting | 4/6/2018 | 10:25:00 | USER | | | | | JSA completed. |
| Event | 26 | Crew Leave Location | 4/6/2018 | 10:30:00 | USER | | | | | Thank you for choosing Halliburton Cementing of Grand Junction, CO - Ryan Martin and crew |

TERRA - FEDERAL RU 313-17 - 4 1/2" PRODUCTION



Comb Pump Rate (bbl/min) 0 DH Density (ppg) 8.29 PS Pump Press (psi) 4 Pump Stg Tot (bbl) 0

Job Information

| | | | | | |
|-----------------------|-----------------------|-----------------|-------------------|-------------------|----------------|
| Request/Slurry | 2463349/1 | Rig Name | H&P 318 | Date | 27/MAR/2018 |
| Submitted By | Connor Matthews | Job Type | Production Casing | Bulk Plant | Grand Junction |
| Customer | Terra Energy Partners | Location | Garfield | Well | RU 313-17 |

Well Information

| | | | | | |
|--------------------------|----------|------------------|----------|-------------|---------------|
| Casing/Liner Size | 4.5 in | Depth MD | 10709 ft | BHST | 127°C / 260°F |
| Hole Size | 8.75 in | Depth TVD | 10572 ft | BHCT | 92°C / 198°F |
| Pressure | 6700 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> | Cement Properties | | |
|-------------|------------|------------------------|--------------------|--------------------|----------------|--------------------------|-------------|----------|
| | | | 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 2463349/1

Thickening Time - ON-OFF-ON

01/APR/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) |
|------------------|----------------|------------------|----------------|----------------|----------------|-----------------|----------|-----------------------------|---------------------|-------------------|
| 198 | 6700 | 52 | 3:48 | 4:16 | 4:27 | 4:56 | 15 | 62 | 15 | 13 |

Total sks = 940

CS0769, Trailer 1513, 400 sks

CS0770, Trailer 8476, 400 sks

CS0771, Trailer 5692, 140 sks

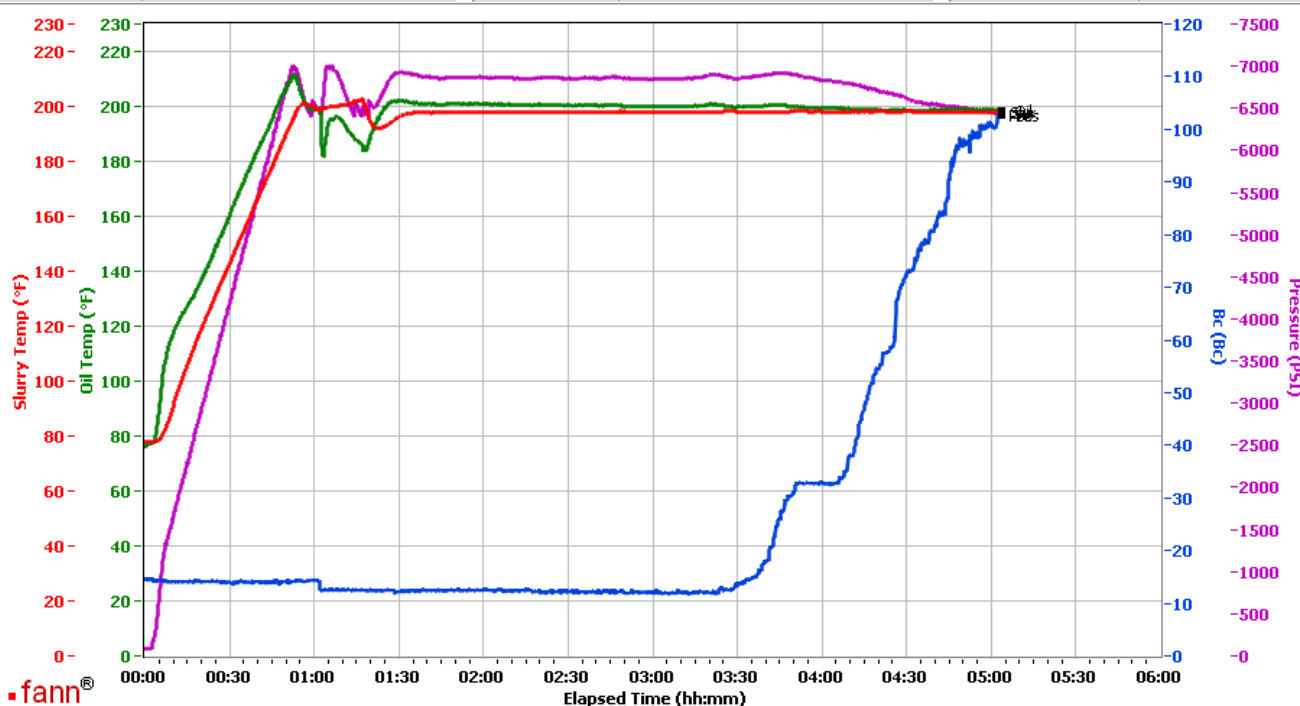
deflected from 14Bc--- > 13Bc

Grand Junction Colorado

| Fields | Values |
|-------------------|--------------------------------------|
| Project Name | 2463349-1 TERRA BULK PRODUCTION LEAD |
| Test ID | 35370061 - TT |
| Request ID | 2463349-1 |
| Tested by | CT |
| Customer | TERRA ENERGY PARTNERS |
| Well No | RU 313-17 |
| Rig | H&P 318 |
| Casing/Liner Size | 4.5 INCH |

| Fields | Values |
|----------------|-------------------|
| Job Type | PRODUCTION CASING |
| Cement Type | HOLCIM TYPE I-II |
| Cement Weight | Standard |
| Test Date | 03/31/18 |
| Test Time | 01:25 PM |
| Temp. Units | degF |
| Pressure Units | PSI |
| SW Version | 2.1.0.507 |

| Events | Results |
|-----------|---------|
| 30.00 Bc | 03h:48m |
| 40.00 Bc | 04h:11m |
| 50.00 Bc | 04h:16m |
| 70.00 Bc | 04h:27m |
| 100.00 Bc | 04h:56m |
| 00h:30m | 14.03 |
| 01h:00m | 14.31 |
| 01h:30m | 12.09 |



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Comments CS0769, TRAILER 1513, 400 SKS - CS0770, TRAILER 8476, 400 SKS - CS0771, TRAILER 5692, 140 SKS

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HALLIBURTON

Rockies, Grand Junction

Lab Results- Tail

Job Information

| | | | | | |
|-----------------------|-----------------------|-----------------|-------------------|-------------------|----------------|
| Request/Slurry | 2463350/1 | Rig Name | H&P 318 | Date | 27/MAR/2018 |
| Submitted By | Connor Matthews | Job Type | Production Casing | Bulk Plant | Grand Junction |
| Customer | Terra Energy Partners | Location | Garfield | Well | RU 313-17 |

Well Information

| | | | | | |
|--------------------------|----------|------------------|----------|-------------|---------------|
| Casing/Liner Size | 4.5 in | Depth MD | 10709 ft | BHST | 127°C / 260°F |
| Hole Size | 8.75 in | Depth TVD | 10572 ft | BHCT | 92°C / 198°F |
| Pressure | 6700 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> | Cement Properties | | |
|-------------|------------|------------------------|--------------------|--------------------|----------------|--------------------------|-------------|----------|
| | | | ThermaCem | | | Slurry Density | 13.3 | lbm/gal |
| | | | | | | Slurry Yield | 1.733 | ft3/sack |
| | | | | | | Water Requirement | 7.799 | gal/sack |
| | | | | | | Total Mix Fluid | 7.799 | gal/sack |
| | | | | | | Water Source | Fresh Water | |
| | | | | | | Water Chloride | | |

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Operation Test Results Request ID 2463350/1

Thickening Time - ON-OFF-ON

01/APR/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) |
|------------------|----------------|------------------|----------------|----------------|----------------|-----------------|----------|-----------------------------|---------------------|-------------------|
| 198 | 6700 | 52 | 4:41 | 3:43 | 7:17 | 7:17 | 23 | 62 | 15 | 9 |

Total sks = 265

CS0772, Trailer 3212, 265 sks

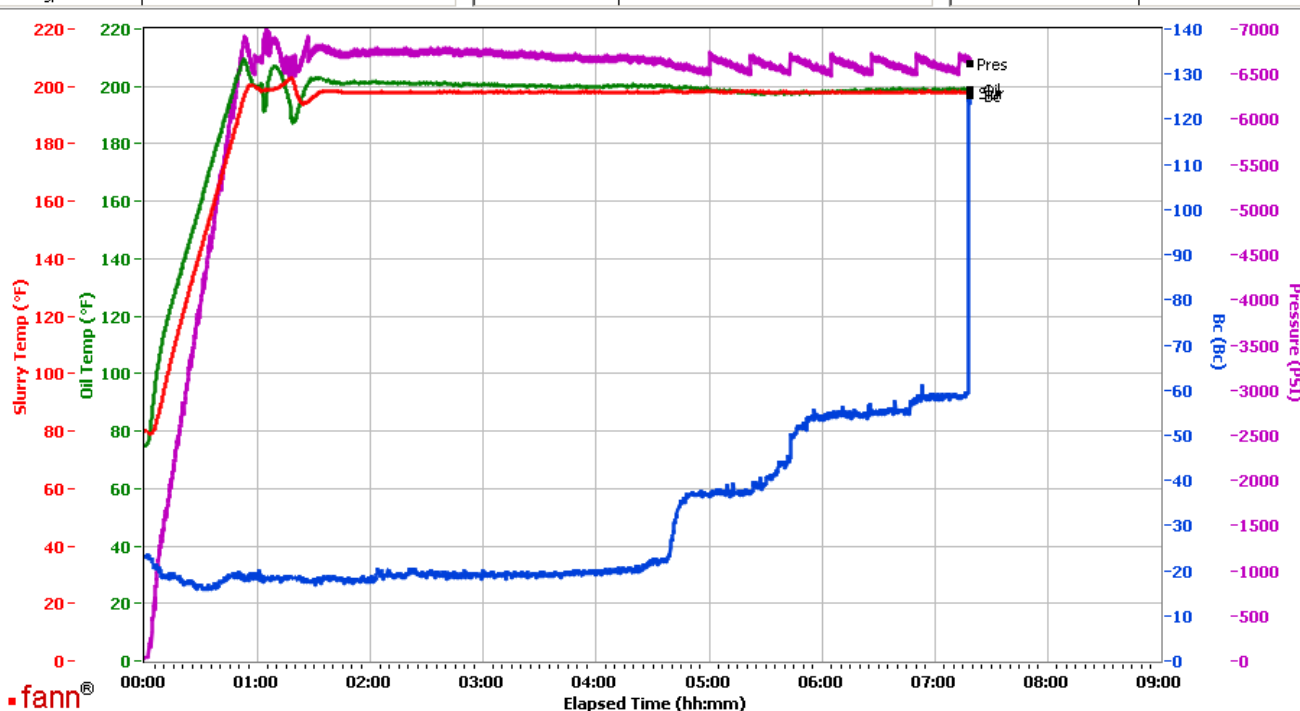
deflected from 18Bc--- > 19Bc

Grand Junction, Colorado

| Fields | Values |
|-------------------|--------------------------------------|
| Project Name | 2463350-1 TERRA BULK PRODUCTION TAIL |
| Test ID | 35370063 - TT |
| Request ID | 2463350-1 |
| Tested by | CT |
| Customer | TERRA ENERGY PARTNERS |
| Well No | RU 313-17 |
| Rig | H8P 318 |
| Casing/Liner Size | 4.5 INCH |

| Fields | Values |
|----------------|-------------------|
| Job Type | PRODUCTION CASING |
| Cement Type | MOUNTAIN G |
| Cement Weight | Standard |
| Test Date | 03/31/18 |
| Test Time | 3:36 PM |
| Temp. Units | degF |
| Pressure Units | PSI |
| SW Version | 2.1.0.507 |

| Events | Results |
|-----------|---------|
| 30.00 Bc | 04h:41m |
| 40.00 Bc | 05h:27m |
| 50.00 Bc | 05h:43m |
| 70.00 Bc | 07h:17m |
| 100.00 Bc | 07h:17m |
| 00h:30m | 16.96 |
| 01h:00m | 19.64 |
| 01h:30m | 18.29 |



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Comments CS0772, TRAILER 3212, 265 SKS

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