

Cement Verification Report - Cementer's Well Service, Inc.

P.O. BOX 336220 • GREELEY, CO 80633 • (970) 353-7299 • FAX (970) 353-7712



COGCC Operator Guidance RULE #308.A.B(2)A.ii

| | | |
|--------------------|------------------------------|----------|
| CLIENT: PDC Energy | Cementor's FIELD TICKET # | 300192-D |
|--------------------|------------------------------|----------|

Requested Operator Guidance:

| | | | | |
|--------------------|-------|------------|----------|----|
| Well Name & Number | Lease | Watermelon | Well No. | 2N |
|--------------------|-------|------------|----------|----|

| | |
|-----------------|--------------|
| Well API Number | 05-123-50721 |
|-----------------|--------------|

| | | | | |
|----------|----------|---------|-------|------------|
| Job Date | 10/31/21 | Time on | 18:30 | 24 hr time |
|----------|----------|---------|-------|------------|

| | |
|----------|------------------|
| Job Type | New Well Surface |
|----------|------------------|

| | | | |
|-------------------|------------------------------|---------|----------------------------|
| Cementing Company | Cementor's Well Service, Inc | Contact | Nate Kvamme - 303-324-4296 |
|-------------------|------------------------------|---------|----------------------------|

| | | | |
|--------------------|-------|----|------------|
| Ambient conditions | clear | 41 | temp deg F |
|--------------------|-------|----|------------|

| | |
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| Slurry Description | |
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|------------|--|
| a) Purpose | Surface - 9 5/8" 40# CSG, 13 1/2" hole |
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|-----------------|-------------|
| b) Cement Class | Type I / II |
|-----------------|-------------|

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|-----------------|----------------|
| c) Cement Yield | 1.61 cuft / sk |
|-----------------|----------------|

| | |
|-------------------|----------|
| d) Cement Density | 13.9 PPG |
|-------------------|----------|

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|------------------|---------------------|
| e) Number of sks | 650 sks (94# equiv) |
|------------------|---------------------|

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|-------------------|--|
| f) Mix Fluid Type | |
|-------------------|--|

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|----------------|--------------|
| Water / Cement | 8.5 Gal / sk |
|----------------|--------------|

| | |
|-----------------|-------------------|
| g) Slurry mixed | 186.3 BBLs slurry |
|-----------------|-------------------|

| | | |
|-------------------|-------------|-----------------|
| h) Additives used | 1.50% CaCl2 | 3.00% Bentonite |
|-------------------|-------------|-----------------|

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|------------------|----------------|
| Total Water Used | 276.1 BBLs H2O |
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|---------------------------|----------------|
| i) Displacement Fluid Vol | 124.6 BBLs H2O |
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|------------------------|--|
| j) Method of Placement | |
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| k) Set Depth | 1,653 feet (ft) |
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|---------------------|-----|
| l) Stage tool depth | n/a |
|---------------------|-----|

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|-----------------------|-----------------|
| m) Float Collar Depth | 1,612 feet (ft) |
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|---------------------------|----------------|
| n) Designed Top of Cement | n/a to surface |
|---------------------------|----------------|

| | | |
|-----------------------|---|-----------|
| o) Centralizer depths | 0 | feet (ft) |
|-----------------------|---|-----------|

Charts - (pressure, density, pump rate)

| | | | |
|---------------|----------|-----------------------|---------|
| Landed Plug @ | 1705 psi | Final Lift Pressure @ | 475 psi |
|---------------|----------|-----------------------|---------|

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| Cement Density (as weighed during job) @ | 13.9 PPG |
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Job notes

| | | | | |
|--------------|--|------|-------|------------|
| a) Plug down | <input checked="" type="radio"/> Y / <input type="radio"/> N | Time | 21:02 | 24 hr time |
|--------------|--|------|-------|------------|

| | | |
|----------------|--|----------|
| b) Floats held | <input checked="" type="radio"/> Y / <input type="radio"/> N | 10/31/21 |
|----------------|--|----------|

| | | | |
|-----------------|--|------------------|--|
| c) Full Returns | <input checked="" type="radio"/> Y / <input type="radio"/> N | Lost Circulation | <input checked="" type="radio"/> Y / <input type="radio"/> N |
|-----------------|--|------------------|--|

| | | |
|----------------------|--|----------------------|
| d) Cement to surface | <input checked="" type="radio"/> Y / <input type="radio"/> N | 21.0 BBLs to surface |
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|---------------------------|----------|
| e) If no returns, top off | n/a BBLs |
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| f) Top off detail | |
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Centralizer Depths

Well Name: Watermelon 2N

Surface, Set Depth: 1,653.2ftKB

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|-----------------------------------|--|--|--|--------------------------|------------------|--------------------|--|---------------------------------------|--|
| API 05123507210000 | | Surface Legal Location NWNW 16 5N 64W | | Field Name Wattenberg | | State CO | | Well Configuration Type Horizontal | |
| Ground Elevation (ft) 4,610.00 | Original KB Elevation (ft) 4,623.00 | KB-Ground Distance (ft) 13.00 | | Spud Date | Rig Release Date | On Production Date | | Abandon Date | |

Casing Run Tally

| Run # | Ref # | Item Des | OD (in) | Wt (lb/ft) | Grade | Run? | Len (ft) | Centralized? | Ext Jw/ry | Connections | Top (ftKB) | Cum Len (ft) |
|-------|-------|---------------|---------|------------|-------|------|----------|--------------|-----------|-------------|------------|--------------|
| 2 | | Casing Joints | 9 5/8 | 36.00 | J-55 | Yes | 41.83 | Yes | | LT&C | 1,609.5 | 43.68 |
| 6 | | Casing Joints | 9 5/8 | 36.00 | J-55 | Yes | 41.87 | Yes | | LT&C | 1,442.1 | 211.09 |
| 10 | | Casing Joints | 9 5/8 | 36.00 | J-55 | Yes | 41.82 | Yes | | LT&C | 1,274.8 | 378.41 |
| 11 | | Casing Joints | 9 5/8 | 36.00 | J-55 | Yes | 41.82 | Yes | | LT&C | 1,233.0 | 420.23 |
| 14 | | Casing Joints | 9 5/8 | 36.00 | J-55 | Yes | 41.82 | Yes | | LT&C | 1,107.5 | 545.73 |
| 18 | | Casing Joints | 9 5/8 | 36.00 | J-55 | Yes | 41.83 | Yes | | LT&C | 940.2 | 713.01 |
| 22 | | Casing Joints | 9 5/8 | 36.00 | J-55 | Yes | 41.82 | Yes | | LT&C | 772.9 | 880.32 |
| 26 | | Casing Joints | 9 5/8 | 36.00 | J-55 | Yes | 41.80 | Yes | | LT&C | 605.6 | 1,047.58 |
| 30 | | Casing Joints | 9 5/8 | 36.00 | J-55 | Yes | 41.82 | Yes | | LT&C | 438.8 | 1,214.38 |
| 34 | | Casing Joints | 9 5/8 | 36.00 | J-55 | Yes | 41.84 | Yes | | LT&C | 271.5 | 1,381.72 |
| 38 | | Casing Joints | 9 5/8 | 36.00 | J-55 | Yes | 41.84 | Yes | | LT&C | 104.1 | 1,549.06 |
| 39 | | Casing Joints | 9 5/8 | 36.00 | J-55 | Yes | 41.83 | Yes | | LT&C | 62.3 | 1,590.89 |