



# BOTTOM HOLE ASSURANCE, INC.

Blacklight, Ultrasonic Wall Thickness,  
& Liquid Penetrant Inspection

No. IR **62922CWP-1**

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109 Citron Drive • Youngsville, LA 70592

Office: (337) 857-8994 Fax: (337) 857-8964

| CUSTOMER<br>HALLIBURTON ICC |                |                  | 3rd PARTY<br><input type="checkbox"/> | FACILITY / LOCATION<br>CLEAN WELL |            | AUTHORIZED BY<br>TONY FREDRICK |                    | INVOICE NO.     |                   |  |     |
|-----------------------------|----------------|------------------|---------------------------------------|-----------------------------------|------------|--------------------------------|--------------------|-----------------|-------------------|--|-----|
| RIG                         |                |                  | OCS-G & WELL NO.                      |                                   | PROJECT    |                                | P.O. NO. / JOB NO. |                 | DATE<br>6/29/2022 |  |     |
| SERIAL NO.                  | DESCRIPTION    |                  |                                       | ACC / REJ.                        | SERIAL NO. | DESCRIPTION                    |                    |                 | ACC / REJ.        |  |     |
| 1                           | 654866         | SPRING RETAINER  |                                       |                                   | ACC        | 41                             | 45107038484518     | SPRING RETAINER |                   |  | ACC |
| 2                           | 450908270026   | SPRING RETAINER  |                                       |                                   | ACC        | 42                             | 45082248525        | SPRING RETAINER |                   |  | ACC |
| 3                           | 71650307       | SPRING CARTRIDGE |                                       |                                   | ACC        | 43                             | 45105857890147     | 654839 BLADE    |                   |  | ACC |
| 4                           | 450782686895   | SPLIT COLLAR     |                                       |                                   | ACC        | 44                             | 45105857890101     | 654839 BLADE    |                   |  | ACC |
| 5                           | 11544229       | SPLIT COLLAR     |                                       |                                   | ACC        | 45                             | 45115034110107     | 654839 BLADE    |                   |  | ACC |
| 6                           | 450901136512   | SPLIT HALF       |                                       |                                   | ACC        | 46                             | 45105857890152     | 654839 BLADE    |                   |  | ACC |
| 7                           | 11970425       | SPLIT HALF       |                                       |                                   | ACC        | 47                             | 4510715220111      | 654839 BLADE    |                   |  | ACC |
| 8                           | 450847848795   | SPLIT HALF       |                                       |                                   | ACC        | 48                             | 45115034110105     | 654839 BLADE    |                   |  | ACC |
| 9                           | 1164181        | SPRING CARTRIDGE |                                       |                                   | ACC        | 49                             | 45131052430101     | 564840 BLADE    |                   |  | ACC |
| 10                          | 654868         | SPRING RETAINER  |                                       |                                   | ACC        | 50                             | 45115034110210     | 564840 BLADE    |                   |  | ACC |
| 11                          | 451313353213   | STABILIZER       |                                       |                                   | ACC        | 51                             | 45115034110203     | 564840 BLADE    |                   |  | ACC |
| 12                          | 451448084011   | STABILIZER       |                                       |                                   | ACC        | 52                             | 45115034110209     | 564840 BLADE    |                   |  | ACC |
| 13                          | 451614775419   | STABILIZER       |                                       |                                   | ACC        | 53                             | 45108603110202     | 564840 BLADE    |                   |  | ACC |
| 14                          | 451485533317   | STABILIZER       |                                       |                                   | ACC        | 54                             | 45131052430112     | 564840 BLADE    |                   |  | ACC |
| 15                          | 45088642917424 | STABILIZER       |                                       |                                   | ACC        | 55                             | 45138764110312     | 654848 BLADE    |                   |  | ACC |
| 16                          | 450886429144   | STABILIZER       |                                       |                                   | ACC        | 56                             | 45137559450359     | 654848 BLADE    |                   |  | ACC |
| 17                          | 451067953742   | STABILIZER       |                                       |                                   | ACC        | 57                             | 451387364110322    | 654848 BLADE    |                   |  | ACC |
| 18                          | 4513655242110  | STABILIZER       |                                       |                                   | ACC        | 58                             | 458147870820301    | 654848 BLADE    |                   |  | ACC |
| 19                          | 451382656111   | STABILIZER       |                                       |                                   | ACC        | 59                             | 45148290730207     | 654848 BLADE    |                   |  | ACC |
| 20                          | 59380102       | STABILIZER       |                                       |                                   | ACC        | 60                             | 45112957260247     | 654848 BLADE    |                   |  | ACC |
| 21                          | 4515205265110  | SPLIT HALF       |                                       |                                   | ACC        | 61                             | 45147195190103     | 654848 BLADE    |                   |  | ACC |
| 22                          | 11544232       | SPLIT HALF       |                                       |                                   | ACC        | 62                             | 45147753490304     | 654848 BLADE    |                   |  | ACC |
| 23                          | 451614775429   | SPLIT HALF       |                                       |                                   | ACC        | 63                             | 45127559450246     | 654847 BLADE    |                   |  | ACC |
| 24                          | 11642993       | SPLIT HALF       |                                       |                                   | ACC        | 64                             | 45147195120280     | 654847 BLADE    |                   |  | ACC |
| 25                          | 451807052426   | SPLIT HALF       |                                       |                                   | ACC        | 65                             | 4515344360103      | 654847 BLADE    |                   |  | ACC |
| 26                          | 11372896       | SPLIT HALF       |                                       |                                   | ACC        | 66                             | 45118632890103     | 654847 BLADE    |                   |  | ACC |
| 27                          | 11542607       | SPLIT HALF       |                                       |                                   | ACC        | 67                             | 45112957260108     | 654847 BLADE    |                   |  | ACC |
| 28                          | 450996943523   | SPLIT HALF       |                                       |                                   | ACC        | 68                             | 45112957260140     | 654847 BLADE    |                   |  | ACC |
| 29                          | 11542397       | SPLIT HALF       |                                       |                                   | ACC        | 69                             | 45090843490490     | 654847 BLADE    |                   |  | ACC |
| 30                          | 4501994196521  | SPLIT HALF       |                                       |                                   | ACC        | 70                             | 45112957260125     | 654847 BLADE    |                   |  | ACC |
| 31                          | 451513165311   | SPLIT HALF       |                                       |                                   | ACC        | 71                             | 45147195190128     | 654848 BLADE    |                   |  | ACC |
| 32                          | 11551390       | SPLIT HALF       |                                       |                                   | ACC        | 72                             | 45147195190118     | 654848 BLADE    |                   |  | ACC |
| 33                          | 45092901246    | SPLIT HALF       |                                       |                                   | ACC        | 73                             | 45132202070505     | 654848 BLADE    |                   |  | ACC |
| 34                          | 451026912611   | SPLIT COLLAR     |                                       |                                   | ACC        | 74                             | 45138734110305     | 654848 BLADE    |                   |  | ACC |
| 35                          | 11544251       | SPLIT COLLAR     |                                       |                                   | ACC        | 75                             | 45127559450323     | 654848 BLADE    |                   |  | ACC |
| 36                          | 11544231       | SPLIT COLLAR     |                                       |                                   | ACC        | 76                             | 45127559450321     | 654848 BLADE    |                   |  | ACC |
| 37                          | 69740305       | SPLIT COLLAR     |                                       |                                   | ACC        | 77                             | 45112757260222     | 654848 BLADE    |                   |  | ACC |
| 38                          | 4511620978039  | SPRING CARTRIDGE |                                       |                                   | ACC        | 78                             | 45110136320202     | 654848 BLADE    |                   |  | ACC |
| 39                          | 11544230       | SPRING CARTRIDGE |                                       |                                   | ACC        | 79                             | 45147195190228     | 654847 BLADE    |                   |  | ACC |
| 40                          | 4511680978111  | SPRING CARTRIDGE |                                       |                                   | ACC        | 80                             | 45147870820206     | 654847 BLADE    |                   |  | ACC |

**SUMMARY:** FULL BODY INSP AS PER BSD-GL-HAL-CWT-201

| Batch # Info.  | Connection Inspection                      |                                     | Body Inspection                                       |  | Body Dry M.P.I                        |                                     |
|----------------|--|-------------------------------------|---|--|---------------------------------------|-------------------------------------|
| 20-B 20B065    | Wet Flour. M.P.I. <input type="checkbox"/> | Dry M.P.I. <input type="checkbox"/> | Wet Flour. M.P.I. <input checked="" type="checkbox"/> | Residual <input type="checkbox"/>              | Dry M.P.I. <input type="checkbox"/>   | Residual <input type="checkbox"/>   |
| Dry Powder     | Vis. Liq. Pen. <input type="checkbox"/>    | Residual <input type="checkbox"/>   | Vis. Liq. Pen. <input type="checkbox"/>               | Continuous <input checked="" type="checkbox"/> | Long. Insp. <input type="checkbox"/>  | Continuous <input type="checkbox"/> |
| 7-HF           | Flour Liq. Pen. <input type="checkbox"/>   | Continuous <input type="checkbox"/> | Flour Liq. Pen. <input type="checkbox"/>              | AC Current <input type="checkbox"/>            | Trans. Insp. <input type="checkbox"/> | AC Current <input type="checkbox"/> |
| White Contrast | Long. Insp. <input type="checkbox"/>       | AC Current <input type="checkbox"/> | Long. Insp. <input checked="" type="checkbox"/>       | DC Current <input checked="" type="checkbox"/> |                                       | DC Current <input type="checkbox"/> |
| 14-A           | Trans. Insp. <input type="checkbox"/>      | DC Current <input type="checkbox"/> | Trans. Insp. <input checked="" type="checkbox"/>      | Visible M.P.I. <input type="checkbox"/>        |                                       |                                     |

System Effectiveness: LP-Comparative Block  Dry MP-Castrol Strip  Wet MP-Castrol Strip

| Blacklight Inspection  | Equipment / Inspector Information   |
|--|---|
| Blacklight Intensity: <u>4858</u> Bath Mixture: <u>0.30</u> Whitelight: <u>0.1</u>   | Equipment Used From Unit # <u>32</u><br>Qual. Date(s) MT <u>11/30/2021</u> PT _____         |
| <b>Liquid Penetrant Inspection</b><br>Whitelight: _____<br>Magnaflux Developer: SKD-S2<br>Magnaflux Penetrant: <input type="checkbox"/> SKL-WP2 (Check one) <input type="checkbox"/> ZL-60D<br>Batch # _____ Dwell Time: _____ min | 3rd Party Rep: _____<br>Signature: _____<br>Level II Inspector: GAELLEN ROBIN<br>Signature: |
| <b>Job Information</b><br>B _____ GR _____ V _____ GR _____ D _____ P _____ BP _____   | Signature: _____<br><small>Signature guarantees final walk thru of job and job site</small> |



**BOTTOM HOLE ASSURANCE, INC.**

Blacklight, Ultrasonic Wall Thickness,  
& Liquid Penetrant Inspection

No. IR **62922CWP-2**

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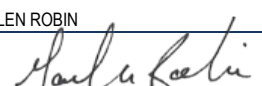
Office: (337) 857-8994 Fax: (337) 857-8964

| CUSTOMER<br>HALLIBURTON ICC |                |              | 3rd PARTY<br><input type="checkbox"/> | FACILITY / LOCATION<br>CLEAN WELL |            | AUTHORIZED BY<br>TONY FREDRICK |                    | INVOICE NO. |                   |
|-----------------------------|----------------|--------------|---------------------------------------|-----------------------------------|------------|--------------------------------|--------------------|-------------|-------------------|
| RIG                         |                |              | OCS-G & WELL NO.                      |                                   | PROJECT    |                                | P.O. NO. / JOB NO. |             | DATE<br>6/29/2022 |
| SERIAL NO.                  | DESCRIPTION    |              | ACC / REJ.                            |                                   | SERIAL NO. | DESCRIPTION                    |                    | ACC / REJ.  |                   |
| 1                           | 45151344360102 | 654847 BLADE | ACC                                   |                                   | 41         |                                |                    |             |                   |
| 2                           | 45140597060408 | 654847 BLADE | ACC                                   |                                   | 42         |                                |                    |             |                   |
| 3                           | 45147753490203 | 654847 BLADE | ACC                                   |                                   | 43         |                                |                    |             |                   |
| 4                           | 45151344360127 | 654847 BLADE | ACC                                   |                                   | 44         |                                |                    |             |                   |
| 5                           | 45086731230101 | 654847 BLADE | ACC                                   |                                   | 45         |                                |                    |             |                   |
| 6                           | 45147870820207 | 654847 BLADE | ACC                                   |                                   | 46         |                                |                    |             |                   |
| 7                           |                |              |                                       |                                   | 47         |                                |                    |             |                   |
| 8                           |                |              |                                       |                                   | 48         |                                |                    |             |                   |
| 9                           |                |              |                                       |                                   | 49         |                                |                    |             |                   |
| 10                          |                |              |                                       |                                   | 50         |                                |                    |             |                   |
| 11                          |                |              |                                       |                                   | 51         |                                |                    |             |                   |
| 12                          |                |              |                                       |                                   | 52         |                                |                    |             |                   |
| 13                          |                |              |                                       |                                   | 53         |                                |                    |             |                   |
| 14                          |                |              |                                       |                                   | 54         |                                |                    |             |                   |
| 15                          |                |              |                                       |                                   | 55         |                                |                    |             |                   |
| 16                          |                |              |                                       |                                   | 56         |                                |                    |             |                   |
| 17                          |                |              |                                       |                                   | 57         |                                |                    |             |                   |
| 18                          |                |              |                                       |                                   | 58         |                                |                    |             |                   |
| 19                          |                |              |                                       |                                   | 59         |                                |                    |             |                   |
| 20                          |                |              |                                       |                                   | 60         |                                |                    |             |                   |
| 21                          |                |              |                                       |                                   | 61         |                                |                    |             |                   |
| 22                          |                |              |                                       |                                   | 62         |                                |                    |             |                   |
| 23                          |                |              |                                       |                                   | 63         |                                |                    |             |                   |
| 24                          |                |              |                                       |                                   | 64         |                                |                    |             |                   |
| 25                          |                |              |                                       |                                   | 65         |                                |                    |             |                   |
| 26                          |                |              |                                       |                                   | 66         |                                |                    |             |                   |
| 27                          |                |              |                                       |                                   | 67         |                                |                    |             |                   |
| 28                          |                |              |                                       |                                   | 68         |                                |                    |             |                   |
| 29                          |                |              |                                       |                                   | 69         |                                |                    |             |                   |
| 30                          |                |              |                                       |                                   | 70         |                                |                    |             |                   |
| 31                          |                |              |                                       |                                   | 71         |                                |                    |             |                   |
| 32                          |                |              |                                       |                                   | 72         |                                |                    |             |                   |
| 33                          |                |              |                                       |                                   | 73         |                                |                    |             |                   |
| 34                          |                |              |                                       |                                   | 74         |                                |                    |             |                   |
| 35                          |                |              |                                       |                                   | 75         |                                |                    |             |                   |
| 36                          |                |              |                                       |                                   | 76         |                                |                    |             |                   |
| 37                          |                |              |                                       |                                   | 77         |                                |                    |             |                   |
| 38                          |                |              |                                       |                                   | 78         |                                |                    |             |                   |
| 39                          |                |              |                                       |                                   | 79         |                                |                    |             |                   |
| 40                          |                |              |                                       |                                   | 80         |                                |                    |             |                   |

SUMMARY: FULL BODY INSP AS PER BSD-GL-HAL-CWT-201

| Batch # Info.  | Connection Inspection                      |                                     | Body Inspection                                       |  | Body Dry M.P.I                        |                                     |
|----------------|--|-------------------------------------|---|--|---------------------------------------|-------------------------------------|
| 20-B 20B065    | Wet Flour. M.P.I. <input type="checkbox"/> | Dry M.P.I. <input type="checkbox"/> | Wet Flour. M.P.I. <input checked="" type="checkbox"/> | Residual <input type="checkbox"/>              | Dry M.P.I. <input type="checkbox"/>   | Residual <input type="checkbox"/>   |
| Dry Powder     | Vis. Liq. Pen. <input type="checkbox"/>    | Residual <input type="checkbox"/>   | Vis. Liq. Pen. <input type="checkbox"/>               | Continuous <input checked="" type="checkbox"/> | Long. Insp. <input type="checkbox"/>  | Continuous <input type="checkbox"/> |
| 7-HF           | Flour Liq. Pen. <input type="checkbox"/>   | Continuous <input type="checkbox"/> | Flour Liq. Pen. <input type="checkbox"/>              | AC Current <input type="checkbox"/>            | Trans. Insp. <input type="checkbox"/> | AC Current <input type="checkbox"/> |
| White Contrast | Long. Insp. <input type="checkbox"/>       | AC Current <input type="checkbox"/> | Long. Insp. <input checked="" type="checkbox"/>       | DC Current <input checked="" type="checkbox"/> |                                       | DC Current <input type="checkbox"/> |
| 14-A           | Trans. Insp. <input type="checkbox"/>      | DC Current <input type="checkbox"/> | Trans. Insp. <input checked="" type="checkbox"/>      | Visible M.P.I. <input type="checkbox"/>        |                                       |                                     |

System Effectiveness: LP-Comparitive Block  Dry MP-Castrol Strip  Wet MP-Castrol Strip

| Blacklight Inspection  | Equipment / Inspector Information   |
|--|---|
| Blacklight Intensity: <u>7385</u> Bath Mixture: <u>0.30</u> Whitelight: <u>0.1</u>   | Equipment Used From Unit # <u>32</u><br>Qual. Date(s) MT <u>11/30/2021</u> PT _____   |
| <b>Liquid Penetrant Inspection</b><br>Whitelight: _____<br>Magnaflux Developer: SKD-S2 Magnaflux Penetrant: <input type="checkbox"/> SKL-WP2 (Check one) <input type="checkbox"/> ZL-60D<br>Batch # _____ Batch # _____<br>Dwell Time: _____ min Dwell Time: _____ min | 3rd Party Rep: _____<br>Signature: _____<br>Level II Inspector: GAELLEN ROBIN<br>Signature:  |
| <b>Job Information</b><br>B _____ GR _____ V _____ GR _____ D _____ P _____ BP _____   | Signature: _____<br><small>Signature guarantees final walk thru of job and job site</small>   |