# BOTTOM HOLE ASSURANCE, INC.

*Blacklight, Ultrasonic Wall Thickness, & Liquid Penetrant Inspection*

Email: BHAInc@bottomholeassurance.com
109 Citron Drive • Youngsville, LA 70592
Office: (337) 857-8994 Fax: (337) 857-8964

No. IR **62022TT-4**

| CUSTOMER | 3rd PARTY | FACILITY / LOCATION | AUTHORIZED BY | INVOICE NO. |
|---|---|---|---|---|
| HALLIBURTON ICC | ☐ | TEST TOOLS | BOBBY CHOATE | |

| RIG | OCS-G & WELL NO. | PROJECT | P.O. NO. / JOB NO. | DATE |
|---|---|---|---|---|
| | | IN HOUSE | 1017510022 | 6/20/2022 |

| | SERIAL NO. | DESCRIPTION | PIN | BOX | I.D. | O.D. | LENGTH |
|---|---|---|---|---|---|---|---|
| 1 | EQ# 10254655 | 8 5/8" - 13 3/8" RTTS SAFETY JOINT | | | | | |
| 2 | 2399791-1 | TOP COULPING - ACC | | 5 1/4 CAS x INT - ACC | 3 3/4 | 6 1/8 | 0.98 |
| 3 | | SAP# 100070255 | | | | | |
| 4 | BAS1797 | MANDREL - ACC | INT x INT - ACC | | | | |
| 5 | | SAP# 100070268 | | | | | |
| 6 | KM1431347-3 | NUT - ACC | INT - ACC | | | | |
| 7 | | SAP# 100070269 | | | | | |
| 8 | B1636548-2 | CASE - ACC | | INT x INT - ACC | | | |
| 9 | | SAP# 100070251 | | | | | |
| 10 | ABN203395-28 | CONNECTOR - ACC | INT x INT - ACC | | | | |
| 11 | | SAP# 100070252 | | | | | |
| 12 | FA138567-09 | IF COUPLPING - ACC | INT-ACC | NC 50-REJ | 3 3/4 | 6 1/8 | 0.80 |
| 13 | | SAP# 100064925 | | | | | |
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**SUMMARY:** FULL BODY INSP. BSM-GOM-HAL-TT-201 REV. 5

| Batch # Info. | | Connection Inspection | | | | Body Inspection | | | | Body Dry M.P.I | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20-B | 20B065 | Wet Flour. M.P.I. | ☑ | Dry M.P.I. | ☐ | Wet Flour. M.P.I. | ☑ | Residual | ☐ | Dry M.P.I. | ☐ | Residual | ☐ |
| Dry Powder | | Vis. Liq. Pen. | ☐ | Residual | ☐ | Vis. Liq. Pen. | ☐ | Continuous | ☑ | Long. Insp. | ☐ | Continuous | ☐ |
| 7-HF | | Flour Liq. Pen. | ☐ | Continuous | ☑ | Flour Liq. Pen. | ☐ | AC Current | ☐ | Trans. Insp. | ☐ | AC Current | ☐ |
| White Contrast | | Long. Insp. | ☑ | AC Current | ☐ | Long. Insp. | ☑ | DC Current | ☑ | | | DC Current | ☐ |
| 14-A | | Trans. Insp. | ☑ | DC Current | ☑ | Trans. Insp. | ☑ | Visible M.P.I. | ☐ | | | | |

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

**Blacklight Inspection**

Blacklight Intensity: 3448 Bath Mixture: 0.25 Whitelight: 0.1

**Liquid Penetrant Inspection**

Whitelight: _____

Magnaflux Developer: SKD-S2

Magnaflux Penetrant: (Check one) ☐ SKL-WP2 ☐ ZL-60D

Batch # _____ Batch # _____

Dwell Time: _____ min Dwell Time: _____ min

**Job Information**

B RA V RA D _____ P RA

**Equipment / Inspector Information**

Equipment Used From Unit # 13

Qual. Date(s) MT 7/21/2019 PT 9/21/2021

3rd Party Rep: _____

Signature: _____

Level II Inspector: RIDGE ALBERT

Signature: _____

Signature guarantees final walk thru of job and job site



**REVIEWED**
*By David Patin at 7:56 am, Jun 21, 2022*

# BOTTOM HOLE ASSURANCE, INC.

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*& Liquid Penetrant Inspection*

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No. DIR **62022TT-5**

CUSTOMER **HALLIBURTON ICC** ☐ 3RD PARTY
RIG
OCS-G & WELL

FACILITY / LOCATION **TEST TOOLS**
PROJECT **IN HOUSE**

AUTHORIZED BY **BOBBY CHOATE**
P.O. / JOB # **1017510022**

INVOICE NO.
DATE: **6/20/2022**

| | | | | | | | | PIN | | | | | | | | | | BOX | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial # | Tool Description | Overall Length | Fishing Neck Length | Tong Space | Pin I.D. | Pin O.D. | Box O.D. | Connection Size | Pin Length | Pin Cylinder Diameter | Pin Nose Diameter | Pin Relief Diameter | Pin Rel. Width Pin Neck Lgth | Bevel Diameter | B S R | OK or Reject | Remarks | Connection Size | Counter Bore Length | Counter Bore Diameter | Bore Back Dia. Float Bore Dia. | Bore Back Lgth Float Bore Lgth | Box Thread Length | Counterbore Wall Thickness | Bevel Diameter | B S R | OK or Reject | Remarks |
| EQ# 10254655 | RTTS SAFETY JOINT | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FA138567-09 | TOP COUPLING SAP# 100064925 | 0.80 | - | - | 3 3/4 | 6 1/8 | 6 1/8 | NC 50 | 4 7/16 | - | - | - | 1/4 | 6 5/64 | - | Rej | DAMAGED SHOULDER | INT | - | - | - | - | - | - | - | - | Acc | |
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**Remarks:** FULL BODY INSP. AS PER BSM-GOM-HAL-TT-201 REV. 5

**Batch # Info.**

| | |
|---|---|
| 20-B | 20B065 |
| Dry Powder | |
| 7-HF | |
| White Contrast | |
| 14-A | |

**Connection Inspection**

| | | | |
|---|---|---|---|
| Wet Flour. M.P.I. | ☑ | Dry M.P.I. | ☐ |
| Vis. Liq. Pen. | ☐ | Residual | ☐ |
| Flour Liq. Pen. | ☐ | Continuous | ☑ |
| Long. Insp. | ☑ | AC Current | ☐ |
| Trans. Insp. | ☑ | DC Current | ☑ |

**Body Inspection**

| | | | |
|---|---|---|---|
| Wet Flour. M.P.I. | ☑ | Residual | ☐ |
| Vis. Liq. Pen. | ☐ | Continuous | ☑ |
| Flour Liq. Pen. | ☐ | AC Current | ☐ |
| Long. Insp. | ☑ | DC Current | ☑ |
| Trans. Insp. | ☑ | Visible M.P.I. | ☐ |

**Body Dry M.P.I**

| | | | |
|---|---|---|---|
| Dry M.P.I. | ☐ | Residual | ☐ |
| Long. Insp. | ☐ | Continuous | ☐ |
| Trans. Insp. | ☐ | AC Current | ☐ |
| | | DC Current | ☐ |

System Effectiveness: LP-Comparitive Block ☐ Dry MP-Castrol Strip ☐ Wet MP-Castrol Strip ☑ Profile Gage RSC OK ☑

**Job Information**

B RA V RA D P RA

3rd Party Rep
Signature:

**Blacklight Inspection**

Blacklight Intensity: 4592 Bath Mixture: 0.25 Whitelight: 0.1

**Equipment / Inspector Information**

Equipment Used From Unit # 13
Qual. Date(s) MT 7/21/2019 PT 9/21/2021
Level II Inspector: RIDGE ALBERT
Signature:
Signature guarantees final walk thru of job and job site

**Liquid Penetrant Inspection**

Magnaflux Developer: SKD-S2
Batch #
Dwell Time: min
White Light:
Magnaflux Penetrant: ☐ SKL-WP2
(Check one) ☐ ZL-60D
Batch #
Dwell Time: min

E-DIR01-04

**REVIEWED**
*By David Patin at 7:56 am, Jun 21, 2022*