



BOTTOM HOLE ASSURANCE, INC.

No. IR 51322TT-1

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

Table with columns: CUSTOMER (HALLIBURTON ICC), 3rd PARTY, FACILITY / LOCATION (TEST TOOLS), AUTHORIZED BY (BOBBY CHOATE), INVOICE NO., RIG, OCS-G & WELL NO., PROJECT BP, P.O. NO. / JOB NO. (907695892), DATE (5/13/2022), SERIAL NO., DESCRIPTION, PIN, BOX, I.D., O.D., LENGTH. Contains 40 rows of inspection data.

SUMMARY: FULL BODY INSP. BSM-GOM-HAL-TT-201 REV. 5

Table for inspection results: Batch # Info, Connection Inspection (Wet/Dry Flour M.P.I., Residual, Continuous, AC/DC Current, Trans. Insp.), Body Inspection (Wet Flour M.P.I., Residual, Continuous, AC/DC Current, Trans. Insp.), Body Dry M.P.I. (Residual, Continuous, AC/DC Current).

System Effectiveness: LP-Comparative Block [ ], Dry MP-Castrol Strip [ ], Wet MP-Castrol Strip [x]

Table for inspection parameters: Blacklight Inspection (Intensity: 2215, Bath Mixture: 0.25, Whitelight: 0.1) and Equipment / Inspector Information (Unit # 13, Date(s) MT 7/21/2019 PT 9/21/2021).

Table for liquid penetrant details: Whitelight, Magnaflux Developer (SKD-S2), Magnaflux Penetrant (SKL-WP2 or ZL-60D), Batch #, Dwell Time (min).

Table for job information: B RA V RA D P RA and Inspector Signature (RIDGE ALBERT).

Signature guarantees final walk thru of job and job site



# BOTTOM HOLE ASSURANCE, INC.

No. IR **51322TT-2**

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CUSTOMER HALLIBURTON ICC		3rd PARTY <input type="checkbox"/>	FACILITY / LOCATION TEST TOOLS	AUTHORIZED BY BOBBY CHOATE		INVOICE NO.		
RIG		OCS-G & WELL NO.		PROJECT BP	P.O. NO. / JOB NO. 907695892		DATE 5/13/2022	
SERIAL NO.	DESCRIPTION		PIN	BOX	I.D.	O.D.	LENGTH	
1	EQ# 10254375	9 5/8" CHAMP IV PACKER						
2	ZU1626142-4	SPACER RING - ACC						
3		SAP# 100004059						
4	AN1607B373	HOLD DOWN STAP - (4) ACC						
5	AN1607B712	SAP# 100070341						
6	AN1607B112							
7	AN1607B712							
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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. <input checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/>	DC Current <input checked="" 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>3916</u> Bath Mixture: <u>0.25</u> Whitelight: <u>0.1</u>	Equipment Used From Unit # <u>13</u>
	Qual. Date(s) MT <u>7/21/2019</u> PT <u>9/21/2021</u>
<b>Liquid Penetrant Inspection</b>	3rd Party Rep: _____
Whitelight: _____	Signature: _____
Magnaflux Developer: SKD-S2 Magnaflux Penetrant: <input type="checkbox"/> SKL-WP2 (Check one) <input type="checkbox"/> ZL-60D	Level II Inspector: RIDGE ALBERT
Batch # _____ Dwell Time: _____ min	Signature:  _____
<b>Job Information</b>	Signature guarantees final walk thru of job and job site
B _____ RA _____ V _____ RA _____ D _____ P _____ RA _____	





# BOTTOM HOLE ASSURANCE, INC.

Blacklight, Ultrasonic Wall Thickness,  
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No. IR **51322TT-4**

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

CUSTOMER HALLIBURTON ICC		3rd PARTY <input type="checkbox"/>	FACILITY / LOCATION TEST TOOLS		AUTHORIZED BY BOBBY CHOATE		INVOICE NO.		
RIG		OCS-G & WELL NO.			PROJECT BP	P.O. NO. / JOB NO. 907695892		DATE 5/13/2022	
SERIAL NO.	DESCRIPTION			PIN	BOX	I.D.	O.D.	LENGTH	
1	EQ# 11469259	9 5/8" CHAMP PACKER, NON ROTATIONAL KIT							
2	AFR0916995-2	LOWER PIN - ACC			NC 50 - ACC	INT (P) - ACC	3 3/4	6 5/8	0.90
3		SAP# 101615278							
4	Q3653449-01	MECH SLIP BODY - ACC			INT - ACC				
5		SAP# 101615281							
6	1945299-4	SPLIT RING COLLAR - (3 COMPONENTS) ACC							
7		SAP# 101615282							
8	B1962927-7-8	DRAG BLOCK SLEEVE - ACC				INT - ACC			
9		SAP# 101615283							
10	BBM1842205	ROTATING LUG - ACC							
11		SAP# 102707272							
12	1965170-3	LUG RETAINER - ACC			INT - ACC				
13		SAP# 102801616							
14	BBM184299.1	J-SLOT MANDREL - ACC			INT - ACC	INT - ACC			
15		SAP# 102718667							
16	KM-18-36776-01	CHAMBER MANDREL - ACC			INT - ACC	INT - ACC			
17		SAP# 101615287							
18	3588027-2	EXTENSION MANDREL - ACC				INT x INT - ACC			
19		SAP# 101615288							
20	BAC1862735-5	SLIDING LOCK - ACC			INT - ACC				
21		SAP# 102706289							
22	ALC1437678-3	UPPER CHAMBER BODY - ACC				INT x INT - ACC			
23		SAP# 101615291							
24	FA149304-04	LOWER CHAMBER BODY - ACC			INT - ACC				
25		SAP# 101615292							
26	CK1446258-8,10,25	MECHANICAL SLIP - (6) ACC							
27	4387395-21,24	SAP# 101615279							
28	CK1948993-5								
29	AN1668D62-29,43,55	DRAG BLOCK - (8) ACC							
30	1.01167E+11	SAP# 100004077							
31	C4279743-75								
32	AN1873202	KEEPERS-(8) ACC							
33		SAP#100004075							
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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. <input checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/>	DC Current <input checked="" 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>5305</u> Bath Mixture: <u>0.25</u> Whitelight: <u>0.1</u>	Equipment Used From Unit # <u>13</u> Qual. Date(s) MT <u>7/21/2019</u> PT <u>9/21/2021</u>
<b>Liquid Penetrant Inspection</b> Whitelight: _____ Magnaflux Developer: SKD-S2 Magnaflux Penetrant: <input type="checkbox"/> SKL-WP2 (Check one) <input type="checkbox"/> ZL-60D Batch # _____ Batch # _____ Dwell Time: _____ min Dwell Time: _____ min	3rd Party Rep: _____ Signature: _____ Level II Inspector: RIDGE ALBERT Signature:
<b>Job Information</b> B _____ RA _____ V _____ RA _____ D _____ P _____ RA _____	Signature: _____ <small>Signature guarantees final walk thru of job and job site</small>

