



BOTTOM HOLE ASSURANCE, INC.

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

No. IR **60122TT-6**

Email: BHAInc@bottomholeassurance.com
109 Citron Drive • Youngsville, LA 70592


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 IN HOUSE	P.O. NO. / JOB NO. 1017510022	DATE 6/1/2022		
SERIAL NO.	DESCRIPTION		PIN	BOX	I.D.	O.D.	LENGTH	
1	5 1/2" CHAMP PACKER							
2	B2086181-5	BYPASS MANDREL-ACC	INT-ACC		INT-ACC			
3		SAP# 100071605						
4		5" CHAMP PACKER						
5	B1324723-9	DRAG BLOCK SLEEVE-ACC	INT-ACC					
6		SAP# 100070016						
7	B1324723-4	DRAG BLOCK SLEEVE-ACC	INT-ACC					
8		SAP# 100070016						
9		5 1/2" CHAMP IV PACKER						
10	C3266990-1	DRAG BLOCK SLEEVE-ACC	INT-ACC					
11		SAP# 100070084						
12	C3266990-2	DRAG BLOCK SLEEVE-ACC	INT-ACC					
13		SAP# 100070084						
14	C3240544-4	DRAG BLOCK SLEEVE-ACC	INT-ACC					
15		SAP# 100070084						
16	1906987-2	DRAG BLOCK SLEEVE-ACC	INT-ACC					
17		SAP# 100070084						
18	C190687-1	DRAG BLOCK SLEEVE-ACC	INT-ACC					
19		SAP# 100070084						
20	B1365593-4	DRAG BLOCK SLEEVE-ACC	INT-ACC					
21		SAP# 100070036						
22		5" CHAMP PACKER						
23	B102995143-1	MECHANICAL SLIP BODY-ACC			INT-ACC			
24		SAP# 100071604						
25	B102995143-2	MECHANICAL SLIP BODY-ACC			INT-ACC			
26		SAP# 100071604						
27	BM0913608-5	MECHANICAL SLIP BODY-ACC			INT-ACC			
28		SAP# 100071604						
29	BM0913608-4	MECHANICAL SLIP BODY-ACC			INT-ACC			
30		SAP# 100071604						
31	C3240797-1	MECHANICAL SLIP BODY-ACC			INT-ACC			
32		SAP# 100071552						
33	C2981027-8	HYD SLIP BODY - ACC	INT-ACC					
34		SAP# 100071585						
35	2889677-1	HYD SLIP BODY - ACC	INT-ACC					
36		SAP# 100071569						
37	B2102084-1	HYD SLIP BODY - ACC	INT-ACC					
38		SAP# 100071551						
39	AEK14449613	HYD SLIP BODY - ACC	INT-ACC					
40		SAP# 100071585						

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-Comparative Block Dry MP-Castrol Strip Wet MP-Castrol Strip

Blacklight Inspection	Equipment / Inspector Information
Blacklight Intensity: <u>6487</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>
Liquid Penetrant Inspection 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: 
Job Information B _____ RA _____ V _____ RA _____ D _____ P _____ RA _____	Signature guarantees final walk thru of job and job site



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Table with columns: CUSTOMER (HALLIBURTON ICC), 3rd PARTY, FACILITY / LOCATION (TEST TOOLS), AUTHORIZED BY (BOBBY CHOATE), INVOICE NO., RIG, OCS-G & WELL NO., PROJECT IN HOUSE, P.O. NO. / JOB NO. (1017510022), DATE (6/1/2022), 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 ***COMPONENTS ONLY***

Table with columns: Batch # Info., Connection Inspection, Body Inspection, Body Dry M.P.I. Includes rows for 20-B, 7-HF, White Contrast, and 14-A with various inspection results and checkboxes.

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

Table with columns: Blacklight Inspection, Equipment / Inspector Information. Includes fields for Blacklight Intensity (5504), Bath Mixture (0.25), Whitelight (0.1), Equipment Used From Unit # (13), and Qual. Date(s) (7/21/2019, 9/21/2021).

Table for Liquid Penetrant Inspection. Includes fields for Whitelight, Magnaflux Developer (SKD-S2), Magnaflux Penetrant (SKL-WP2, ZL-60D), Batch #, and Dwell Time.

Table for Job Information. Includes fields for B, RA, V, RA, D, P, RA.

3rd Party Rep: _____
Signature: _____
Level II Inspector: RIDGE ALBERT
Signature: Signature guarantees final walk thru of job and job site



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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 IN HOUSE	P.O. NO. / JOB NO. 1017510022		DATE 6/1/2022	
SERIAL NO.	DESCRIPTION			PIN	BOX		I.D.	O.D.	LENGTH
1	5" MSV ASSEMBLY								
2	BAC1805915-1	POWER NIPPLE - ACC			INT x INT - ACC				
3		SAP# 100065603							
4	BAC1862781-1	POWER NIPPLE - ACC			INT x INT - ACC				
5		SAP# 100065603							
6	B3906209-1	BALL VALVE CASE - ACC				INT - ACC			
7		SAP# 100065518							
8	BAC1897759-1	BALL VALVE CASE - ACC				INT - ACC			
9		SAP# 100065518							
10	3724659-2	TOP ADAPTER - ACC			INT (B) - ACC	3 7/8" CAS - ACC			
11		SAP# 100065525							
12	BAS1893-02	POWER CYLINDER - ACC			INT - ACC	INT - ACC			
13		SAP# 100066955							
14	BAS2064-03	POWER CYLINDER - ACC			INT - ACC	INT - ACC			
15		SAP# 100066955							
16	ALJ1741969-3	OPERATING PINS - ACC							
17		SAP# 100066677							
18	ALJ423557-352	OPERATING PINS - ACC							
19		SAP# 100066677							
20	C4372705-1	BALL AND SEAT - (LP) ACC							
21		SAP# 100065198							
22	C4372706-6	BALL AND SEAT - (LP) ACC							
23		SAP# 100065198							
24		5" FAS FIL							
25	B3175629-2	SEALING MANDREL - ACC			INT - ACC				
26		SAP# 100065585							
27	BAS1908-01	SEALING MANDREL - ACC			INT - ACC				
28		SAP# 100065585							
29	B3231690-2	SHEAR CASE							
30	3629983-1	SHEAR CASE							
31	B3455494-1	PRESSURE HOUSING - ACC			INT - ACC	INT - ACC			
32		SAP# 100065594							
33	C3983450-2	PRESSURE HOUSING - ACC			INT - ACC	INT - ACC			
34		SAP# 100065594							
35	BAC1820179-2	PRESSURE HOUSING - ACC			INT - ACC	INT - ACC			
36		SAP# 100065594							
37		3.90 FAS FIL							
38	419010-02	NIPPLE-ACC			2 7/8 CAS-ACC				
39		SAP#101227346							
40									

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

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>4777</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>
Liquid Penetrant Inspection Whitelight: _____	3rd Party Rep: _____
Magnaflux Developer: SKD-S2 Magnaflux Penetrant: <input type="checkbox"/> SKL-WP2 (Check one) <input type="checkbox"/> ZL-60D	Signature: _____
Batch # _____ Dwell Time: _____ min	Level II Inspector: RIDGE ALBERT
Job Information B _____ RA _____ V _____ RA _____ D _____ P _____ RA _____	Signature: Signature guarantees final walk thru of job and job site



BOTTOM HOLE ASSURANCE, INC.

No. IR **60122TT-9**

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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 IN HOUSE	P.O. NO. / JOB NO. 1017510022	DATE 6/1/2022	
SERIAL NO.	DESCRIPTION		PIN	BOX	I.D.	O.D.	LENGTH
1	5 1/2" CHAMP PACKER						
2	C3226935-4	UPPER SHOE-ACC	INT - ACC	INT-ACC			
3	SAP# 100071541						
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SUMMARY: FULL BODY INSP. BSM-GOM-HAL-TT-201 REV. 5 ***COMPONENTS ONLY***

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>6160</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>
Liquid Penetrant Inspection 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: 
Job Information B _____ RA _____ V _____ RA _____ D _____ P _____ RA _____	Signature: _____ <small>Signature guarantees final walk thru of job and job site</small>