



# BOTTOM HOLE ASSURANCE, INC.

Blacklight, Ultrasonic Wall Thickness,  
& Liquid Penetrant Inspection

No. IR **60122TT-4**

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	EQ# 10255576	3.90 DT OMNI						
2	BAC1748689-1	BTM ADAPTER - ACC		2 7/8" CAS - ACC	INT - ACC	1 5/16	3 7/8	0.55
3		SAP# 100066047						
4	BAS1845	LOWER SEAT RETAINER - ACC		INT x INT - ACC				
5		SAP# 102235559						
6	AKV127238-3	BALL VALVE CASE - ACC			INT x INT - ACC			
7		SAP# 100066058						
8	C4357270-2	BALL AND SEAT - (LPI) ACC						
9		SAP# 100065475						
10	ALJ11-14005	OPERATING PINS - ACC						
11	ALJ11-1695-06	SAP# 100066676						
12	BAS2077	SPRING FINGERS - ACC		INT - ACC				
13		SAP# 102204080						
14	2962949-1	SPRING FINGER CONNECTOR - ACC			INT - ACC			
15		SAP# 102232984						
16	B325099-5	BALL VALVE CAGE - ACC			INT - AC			
17		SAP# 102244623						
18	3596470-4	CIRCULATING MANDREL - ACC			INT - ACC			
19		SAP# 102210553						
20	2929709-2	CIRCULATING PORT - ACC		INT - ACC				
21		SAP# 102217918						
22	BAC1949213-1	CIRCULATING CASE - ACC		INT - ACC	INT - ACC			
23		SAP# 102157048						
24	B25952258-1	SEALING NIPPLE - ACC		INT x INT - ACC				
25		SAP# 101496473						
26	BAS1970-01	FLOATING PISTON - ACC						
27		SAP# 100066010						
28	BAS2003-02	FLOATING PISTON - ACC						
29		SAP# 100066010						
30	3510282-1	OIL CASE - ACC						
31		SAP# 101588821						
32	B3930085-1	OPERATING MANDREL - ACC						
33		SAP# 100066012						
34	KQ128359-4	OPERATING CASE - ACC			INT x INT - ACC			
35		SAP# 100066013						
36	3938749	LONG RATCHET - ACC			INT - ACC			
37		SAP# 100066014						
38	AEZ119575-1	OPERATING VALVE BODY - ACC						
39		SAP# 101003933		INT - ACC				
40								

**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 checked="" type="checkbox"/>	Residual <input type="checkbox"/>	Vis. Liq. Pen. <input checked="" 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>3622</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: <u>100.0</u>	3rd Party Rep: _____
Magnaflux Developer: SKD-S2 Magnaflux Penetrant: <input checked="" type="checkbox"/> SKL-WP2 (Check one) <input type="checkbox"/> ZL-60D	Signature: _____
Batch # <u>19F16K</u> Batch # <u>19D07K</u>	Level II Inspector: <u>RIDGE ALBERT</u>
Dwell Time: <u>10</u> min Dwell Time: <u>20</u> min	Signature: 
<b>Job Information</b> B <u>RA</u> V <u>RA</u> D <u>RA</u> P <u>RA</u>	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	EQ# 10255576	3.90 DT OMNI						
2	KM1633582-01	POWER NIPPLE - ACC		INT x INT - ACC				
3		SAP# 100066020						
4	BAC1868021-1	NITROGEN CASE - ACC		INT - ACC	INT - ACC			
5		SAP# 100066021						
6	2673871-2	NITROGEN MANDREL - ACC		INT - ACC				
7		SAP# 100066022						
8	4281692	FILLER VALVE BODY - ACC		INT - ACC	INT - ACC			
9		SAP# 100066023						
10	C3717586-1	TOP COUPLING - ACC		INT - ACC	2 7/8" CAS	1 13/16	3 7/8	0.66
11		SAP# 100066024						
12	BAC20A1048-3	SWIVEL MANDREL - ACC						
13		SAP# 101778237						
14	BAC20A1045-3	SPLIT RING - ACC						
15		SAP# 101778239						
16	BAC20A1046-62	LOCKING CONNECTOR - ACC		INT - ACC				
17		SAP# 102234776						
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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 checked="" 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>2541</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: <u>100.0</u> Magnaflux Developer: SKD-S2 Magnaflux Penetrant: <input checked="" type="checkbox"/> SKL-WP2 (Check one) <input type="checkbox"/> ZL-60D	3rd Party Rep: _____ Signature: _____
Batch # <u>19F16K</u> Dwell Time: <u>10</u> min Batch # <u>19D07K</u> Dwell Time: <u>20</u> min	Level II Inspector: <u>RIDGE ALBERT</u> Signature:
<b>Job Information</b> B <u>RA</u> V <u>RA</u> D <u>RA</u> P <u>RA</u>	Signature guarantees final walk thru of job and job site