



**BOTTOM HOLE ASSURANCE, INC.**

Blacklight, Ultrasonic Wall Thickness,  
& Liquid Penetrant Inspection

No. IR **61522TT-1**

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 6/15/2022		
SERIAL NO.	DESCRIPTION		PIN	BOX	I.D.	O.D.	LENGTH	
1	EQ# 12264668	9 5/8" CHAMP IV NR PACKER						
2	KM-19-37583-01	UPPER MANDREL - ACC		INT x INT - ACC				
3		SAP# 10258868						
4	BAC1937871-1	TOP COUPLING - ACC		INT (B) - ACC	5 1/4" CAS - ACC	2 3/4	7"	1.39
5		SAP# 102158867						
6	219005-02	FLOATING PISTON - ACC						
7		SAP# 101898954						
8	BAC1911635-1	BALANCING COUPLING - ACC			INT x INT - ACC			
9		SAP# 102158869						
10	3145154-4	CENTER MANDREL - ACC		INT x INT - ACC				
11		SAP# 102158871						
12	KM-19-38018-01	PORTED HOUSING - ACC		INT - ACC				
13		SAP# 102178855						
14	KM-20-39203-01	BY-PASS SLEEVE - ACC						
15		SAP# 102957528						
16	C3141309-3	LOWER SHOE - ACC		INT - ACC	INT - ACC			
17		SAP# 101886293						
18	BBM195010.1	LOWER BACK UP RING - ACC			INT - ACC			
19		SAP# 102189865						
20	B3167502-1	PACKER MANDREL - ACC		INT - ACC				
21		SAP# 102158877						
22	BBM195011.1	UPPER BACK UP RING - ACC			INT - ACC			
23		SAP# 102189867						
24	B3138613-4	UPPER SHOE - ACC		INT - ACC	INT - ACC			
25		SAP# 102158876						
26	C3114144-2	MECH SLIP BODY - ACC		INT - ACC				
27		SAP# 101895642						
28	3236857-1	J-SLOT MANDREL - ACC		INT - ACC	INT - ACC			
29		SAP# 102158872						
30	C3137549-2	DRAG BLOCK SLEEVE - ACC			INT - ACC			
31		SAP# 101906959						
32	3122214-8	ROTATING LUG - ACC						
33		SAP# 101905613						
34	C3123180-3	LUG RETAINER - ACC		INT - ACC				
35		SAP# 101615285						
36	BAC20A0674-2	SPLIT RING COLLAR - ACC						
37		SAP# 101615282						
38	3122204-3	SLIDING LOCK - ACC		INT - ACC				
39		SAP# 101615290						
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 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>5559</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	Job Information
Whitelight: _____	B _____ RA _____ V _____ RA _____ D _____ P _____ RA _____
Magnaflux Developer: SKD-S2	
Magnaflux Penetrant: <input type="checkbox"/> SKL-WP2 (Check one) <input type="checkbox"/> ZL-60D	
Batch # _____	
Dwell Time: _____ min	
	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 6/15/2022		
SERIAL NO.	DESCRIPTION		PIN	BOX	I.D.	O.D.	LENGTH	
1	EQ# 12264668	9 5/8" CHAMP IV NR PACKER						
2	3137543-1	CHAMBER MANDREL - ACC		INT - ACC	INT - ACC			
3		SAP# 102158873						
4	B3137540-4	UPPER CHAMBER BODY - ACC		INT - ACC	INT - ACC			
5		SAP# 102179716						
6	BAC1954122-1	EXT MANDREL - ACC			INT x INT - ACC			
7		SAP# 102158874						
8	BAC1954767-1	LOWER PIN ADAPTER - ACC		INT (B) - ACC	INT (P) - ACC	3 3/4	7	0.96
9		SAP# 101891225						
10	CK1345680-21,38,49	HYD SLIP - ACC						
11	CK1948899-1,5	SAP# 100071759						
12	C4266510-12							
13	AN19R75609-3,7,18,19	HYD STRAP-ACC						
14		SAP#101907421						
15	4387395-6,13,15,16	MECHANICAL SLIPS-ACC						
16	4338971-18	SAP#101615279						
17	AN14781572-29,31,32	DRAG BLOCK KEEPERS-ACC						
18	AN20X82722(10)	SAP#101907020						
19	C4408431-	DRAG BLOCKS-ACC						
20	4413961-14,21	SAP#101907071						
21	BBM195041.1	HYD HOLD DOWN BODY-ACC		INT-ACC				
22		SAP#101896343						
23	BAC1954122-1	HOLD DOWN GUIDE-ACC			INT-ACC			
24		SAP#102189873						
25	B3137537-1	LOWER BODY CHAMBER BODY-ACC		INT-ACC	INT-ACC			
26		SAP#102179719						
27	KM-14-31954-04	SPACER RING-ACC						
28		SAP#10004059						
29	CK1446257-25,43	HYD SLIP - ACC						
30	53,58,69,81	SAP# 100071759						
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System Effectiveness: LP-Comparitive Block  Dry MP-Castrol Strip  Wet MP-Castrol Strip

Blacklight Inspection	Equipment / Inspector Information
Blacklight Intensity: <u>1611</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 _____	