



# BOTTOM HOLE ASSURANCE, INC.

Blacklight, Ultrasonic Wall Thickness,  
& Liquid Penetrant Inspection

No. IR 51822TT-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 ARENA	P.O. NO. / JOB NO. 907616518	DATE 5/18/2022		
SERIAL NO.	DESCRIPTION		PIN	BOX	I.D.	O.D.	LENGTH	
1	EQ# 10255570	5" DT OMNI						
2	BBM194696-1	NITROGEN MANDREL - ACC		INT - ACC				
3		SAP# 100065911						
4	BAC1764054-1	NITROGEN CASE - ACC			INT x INT - ACC			
5		SAP# 100065910						
6	BAS1976	FLOATING PISTON - ACC		INT - ACC				
7		SAP# 100065961						
8	B3415009-2	FLOATING PISTON - ACC		INT - ACC				
9		SAP# 100065961						
10	AKV1510673-2	NUT CHECK - ACC		INT - ACC				
11		SAP# 100065956						
12	B3438668-1	RATCHET - (LP) ACC			INT - ACC			
13		SAP# 101483056						
14	KM1634566-01	OPERATING MANDREL - ACC		INT x INT - ACC				
15		SAP# 100065965						
16	AFA0823898-14	OPERATING CASE - ACC		INT - ACC	INT - ACC			
17		SAP# 100065916						
18	3929940-4	OIL CASE - ACC			INT x INT - ACC			
19		SAP# 100065913						
20	90793-03	SEALING NIPPLE - ACC		INT x INT - ACC				
21		SAP# 100065962						
22	HT25654	CIRCULATING CASE - ACC		INT - ACC	INT - ACC			
23		SAP# 100065914						
24	AKV149597-8	CIRCULATING PORT - ACC		INT - ACC	INT - ACC			
25		SAP# 101762732						
26	BAS2091	SPRING FINGER - ACC		INT - ACC				
27		SAP# 101666471						
28	BAS2058	SEAT HOLDER - ACC		INT x INT - ACC				
29		SAP# 101834007						
30	C4212614-8	BALL ASSEMBLY - (LP) ACC						
31		SAP# 100065973						
32	B3297682-02	BALL VALVE CAGE - ACC			INT - ACC			
33		SAP# 102313157						
34	3203393-2	BALL VALVE CASE - ACC			INT - ACC			
35		SAP# 100065955						
36	3247304-2	BTM ADAPTER - ACC		3 7/8 CAS - ACC	INT - ACC	2 3/8	5"	0.94
37		SAP# 100065935						
38	AKC10501001-2	CONNECTOR - ACC			INT - ACC			
39		SAP# 101666472						
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-Comparative Block  Dry MP-Castrol Strip  Wet MP-Castrol Strip

Blacklight Inspection	Equipment / Inspector Information
Blacklight Intensity: <u>5722</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> Dwell Time: <u>10</u> min	Level II Inspector: <u>RIDGE ALBERT</u>
Batch # <u>19D07K</u> Dwell Time: <u>20</u> min	Signature:
<b>Job Information</b>	Signature guarantees final walk thru of job and job site
B <u>RA</u> V <u>RA</u> D <u>RA</u> P <u>RA</u>	



**BOTTOM HOLE ASSURANCE, INC.**

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

No. IR 51822TT-5

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 ARENA	P.O. NO. / JOB NO. 907616518		DATE 5/18/2022	
SERIAL NO.	DESCRIPTION			PIN	BOX	I.D.	O.D.	LENGTH	
1	EQ# 1025570	5" DT OMNI							
2	DF1258481-7	POWER NIPPLE - ACC			INT X INT - ACC				
3		SAP# 100065958							
4	AFR1121335-7	LOCK CONNECTOR - ACC							
5		SAP# 100065950							
6	B3834309-4	OPERATING VALVE BODY -- ACC							
7		SAP# 102569123							
8	AHY1913888-1	ROTATING MANDREL - ACC							
9		SAP# 102569121							
10	B3141954-406	OPERATING PIN - (LP) ACC							
11	B3174599-82	SAP# 100066677							
12	HT#8073557M	CIRCULATING MANDREL - ACC				INT - ACC			
13		SAP# 101762221							
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
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>5143</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: <u>100.0</u>	
Magnaflux Developer: SKD-S2	Magnaflux Penetrant: <input checked="" type="checkbox"/> SKL-WP2 (Check one) <input type="checkbox"/> ZL-60D
Batch # <u>19F16K</u>	Batch # <u>19D07K</u>
Dwell Time: <u>10</u> min	Dwell Time: <u>20</u> min

Job Information	
B <u>RA</u> V <u>RA</u> D <u>RA</u> P <u>RA</u>	3rd Party Rep: _____ Signature: _____ Level II Inspector: RIDGE ALBERT Signature:  Signature guarantees final walk thru of job and job site