BOTTOM HOLE ASSURANCE, INC.

No. DIR 51622ST-7

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

CUSTOMER HALLIBURTON ICC ☑ 3RD PARTY
RIG
OCS-G & WELL

FACILITY / LOCATION SERVICE TOOLS
PROJECT KOSMOS

AUTHORIZED BY DERRICK ROBIN
P.O. / JOB # 907664162

INVOICE NO.
DATE: 5/16/2022

								PIN										BOX											
Serial #	Tool Description	Overall Length	Fishing Neck Length	Tong Space	Pin I.D.	Pin O.D.	Box O.D.	Connection Size	Pin Length	Pin Cylinder Diameter	Pin Nose Diameter	Pin Relief Diameter	Pin Rel. Width Pin Neck Lgth	Bevel Diameter	B S R	OK or Reject	Remarks	Connection Size	Counter Bore Length	Counter Bore Diameter	Bore Back Dia. Float Bore Dia.	Bore Back Lgth Float Bore Lgth	Box Thread Length	Counterbore Wall Thickness	Bevel Diameter	B S R	OK or Reject	Remarks
EQ# 12525975	9 5/8" RTTS PACKER																											
B2533784-1	HYD SLIP BODY SAP# 101371820	2.67	12 3/8	-	4 1/8	-	6 1/2	INT (B)								Acc		NC 50	5/8	5 5/16					5 15/16		Acc	
AN2083168(2) AN20R8322(1), (1N/A)	Holding Strap - Acc SAP# 100070341							*								Acc												
ABK093035	TOP SHOE SAP# 100070316																	INT									Acc	
2222138-9	LOWER SHOE SAP# 100070319																	INT									Acc	
3353865-1	MECH SLIP BODY SAP# 100070310							INT								Acc												
AKV149963-12	VOLUME TUBE- ACC SAP# 100070343							*								Acc												
AFQ1467012-5	UPPER MANDREL SAP#100070315							INT								Acc		INT									Acc	
3386163-2	SPLIT-RING COLLAR SAP#100070317							*								Acc												
KM1431350-2	LOWER MANDREL SAP#100070308							INT (B)								Acc		INT									Acc	
1411107	Drag Block Sleeve SAP# 102725720							INT								Acc												
AFJ144140-7	LOWER PIN SAP#100012564	0.93	-	10 3/4	3 3/4	6 5/8	-	NC 50	4 1/2				5/16	6 5/64		Acc		INT									Acc	
3834550-12	RETAINER NUT SAP#102564428																	INT									Acc	

Remarks: FULL BODY INSP. AS PER WM-GL-HAL-HCT-900 REV. 0

HB71807

Batch # Info.

20-B	20B065
Dry Powder	
7-HF	
White Contrast	
14-A	

Connection Inspection

Wet Flour. M.P.I.	☑	Dry M.P.I.	☐
Vis. Liq. Pen.	☐	Residual	☐
Flour Liq. Pen.	☐	Continuous	☑
Long. Insp.	☑	AC Current	☐
Trans. Insp.	☑	DC Current	☐

Body Inspection

Wet Flour. M.P.I.	☑	Residual	☐
Vis. Liq. Pen.	☐	Continuous	☑
Flour Liq. Pen.	☐	AC Current	☐
Long. Insp.	☑	DC Current	☑
Trans. Insp.	☑	Visible M.P.I.	☐

Body Dry M.P.I

Dry M.P.I.	☐	Residual	☐
Long. Insp.	☐	Continuous	☐
Trans. Insp.	☐	AC Current	☐
		DC Current	☐

System Effectiveness: LP-Comparitive Block ☐ Dry MP-Castrol Strip ☐ Wet MP-Castrol Strip ☑ Profile Gage RSC OK ☑

Job Information

B BT V BT D P BT

3rd Party Rep
Signature:

PPI WI 131 M R DATE 5/16/22

Blacklight Inspection

Blacklight Intensity: 8700 Bath Mixture: 0.30 Whitelight: 0.1

Equipment / Inspector Information

Equipment Used From Unit # 23
Qual. Date(s) MT 4/26/2019 PT 4/26/2019
Level II Inspector: BRANSON THERIOT
Signature:
Signature guarantees final walk thru of job and job site

Liquid Penetrant Inspection

Magnaflux Developer: SKD-S2
Batch #
Dwell Time: min
White Light:
Magnaflux Penetrant: (Check one) ☐ SKL-WP2 ☐ ZL-60D
Batch #
Dwell Time: min

REVIEWED
By David Patin at 4:43 pm, May 16, 2022

BOTTOM HOLE ASSURANCE, INC.

Blacklight, Ultrasonic Wall Thickness,
& Liquid Penetrant Inspection

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No. DIR 51622ST-8

CUSTOMER **HALLIBURTON ICC** ☑ 3RD PARTY
RIG
OCS-G & WELL

FACILITY / LOCATION **SERVICE TOOLS**
PROJECT **KOSMOS**

AUTHORIZED BY **DERRICK ROBIN**
P.O. / JOB # **907664162**

INVOICE NO.
DATE: **5/16/2022**

								PIN										BOX										
Serial #	Tool Description	Overall Length	Fishing Neck Length	Tong Space	Pin I.D.	Pin O.D.	Box O.D.	Connection Size	Pin Length	Pin Cylinder Diameter	Pin Nose Diameter	Pin Relief Diameter	Pin Rel. Width Pin Neck Lgth	Bevel Diameter	B S R	OK or Reject	Remarks	Connection Size	Counter Bore Length	Counter Bore Diameter	Bore Back Dia. Float Bore Dia.	Bore Back Lgth Float Bore Lgth	Box Thread Length	Counterbore Wall Thickness	Bevel Diameter	B S R	OK or Reject	Remarks
EQ# 12525975	9 5/8" RTTS PACKER																											
CK1446439-24,9,20 ,11,5,1	HYD SLIPS- Acc SAP#100004061							*								Acc												
CK1345156-117,129, 342,22,259,158,243	HYD SLIPS- Acc SAP#100004061							*								Acc												
AN1456E37-34,35,31,28 AN1769774-31	MECH SLIPS - Acc SAP#100070272							*								Acc												
AN1312E37-212 4609844-15	MECH SLIPS - Acc SAP#100070272							*								Acc												
C4408430-15	MECH SLIPS - Acc SAP#100070272							*								Acc												
L1547269-42,70,97, 12,5,30,90,63	DRAG BLOCK - Acc SAP# 102530303							*								Acc												

Remarks: FULL BODY INSP. AS PER WM-GL-HAL-HCT-900 REV. 0

HES 71807

Batch # Info.		Connection Inspection				Body Inspection				Body Dry M.P.I	
20-B	20B065	Wet Flour. M.P.I.	☑	Dry M.P.I.	☐	Wet Flour. M.P.I.	☑	Residual	☐	Dry M.P.I.	☐ Residual ☐
Dry Powder		Vis. Liq. Pen.	☐	Residual	☐	Vis. Liq. Pen.	☐	Continuous	☑	Long. Insp.	☐ Continuous ☐
7-HF		Flour Liq. Pen.	☐	Continuous	☑	Flour Liq. Pen.	☐	AC Current	☐	Trans. Insp.	☐ AC Current ☐
White Contrast		Long. Insp.	☑	AC Current	☐	Long. Insp.	☑	DC Current	☑		DC Current ☐
14-A		Trans. Insp.	☑	DC Current	☑	Trans. Insp.	☑	Visible M.P.I.	☐		

System Effectiveness: LP-Comparitive Block ☐ Dry MP-Castrol Strip ☐ Wet MP-Castrol Strip ☑ Profile Gage RSC OK ☑

3rd Party Rep

Job Information

B BT V BT D P BT

Signature:

PPI WM 131 R DATE 5-16-22

Cale Fields

Blacklight Inspection

Blacklight Intensity: 8700 Bath Mixture: 0.30 Whitelight: 0.1

Equipment / Inspector Information

Equipment Used From Unit # 23
Qual. Date(s) MT 4/26/2019 PT 4/26/2019
Level II Inspector: BRANSON THERIOT
Signature: Branson Theriot

Signature guarantees final walk thru of job and job site

Liquid Penetrant Inspection

Magnaflux Developer: SKD-S2
Batch #
Dwell Time: min
White Light:
Magnaflux Penetrant: ☐ SKL-WP2
(Check one) ☐ ZL-60D
Batch #
Dwell Time: min

REVIEWED
By David Patin at 4:43 pm, May 16, 2022

BOTTOM HOLE ASSURANCE, INC.

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Email: BHAInc@bottomholeassurance.com
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No. DIR 51622ST-11

CUSTOMER HALLIBURTON ICC ☑ 3RD PARTY
RIG
OCS-G & WELL

FACILITY / LOCATION SERVICE TOOLS
PROJECT KOSMOS

AUTHORIZED BY DERRICK ROBIN
P.O. / JOB # 907664162

INVOICE NO.
DATE: 5/16/2022

								PIN										BOX										
Serial #	Tool Description	Overall Length	Fishing Neck Length	Tong Space	Pin I.D.	Pin O.D.	Box O.D.	Connection Size	Pin Length	Pin Cylinder Diameter	Pin Nose Diameter	Pin Relief Diameter	Pin Rel. Width Pin Neck Lgth	Bevel Diameter	B S R	OK or Reject	Remarks	Connection Size	Counter Bore Length	Counter Bore Diameter	Bore Back Dia. Float Bore Dia.	Bore Back Lgth Float Bore Lgth	Box Thread Length	Counterbore Wall Thickness	Bevel Diameter	B S R	OK or Reject	Remarks
EQ# 12525975	9 5/8" RTTS PACKER																											
AN1769774-41	DRAG BLOCK - Acc SAP# 102530303							*								Acc												

Remarks: FULL BODY INSP. AS PER WM-GL-HAL-HCT-900 REV. 0 (TOOL COMPONENT INSPECTIN ONLY, NOT COMPLETE TOOL)

Batch # Info.

20-B	20B065
Dry Powder	
7-HF	
White Contrast	
14-A	

Connection Inspection

Wet Flour. M.P.I.	☑	Dry M.P.I.	☐
Vis. Liq. Pen.	☐	Residual	☐
Flour Liq. Pen.	☐	Continuous	☑
Long. Insp.	☑	AC Current	☐
Trans. Insp.	☑	DC Current	☑

Body Inspection

Wet Flour. M.P.I.	☑	Residual	☐
Vis. Liq. Pen.	☐	Continuous	☑
Flour Liq. Pen.	☐	AC Current	☐
Long. Insp.	☑	DC Current	☑
Trans. Insp.	☑	Visible M.P.I.	☐

Body Dry M.P.I

Dry M.P.I.	☐	Residual	☐
Long. Insp.	☐	Continuous	☐
Trans. Insp.	☐	AC Current	☐
		DC Current	☐

System Effectiveness: LP-Comparitive Block ☐ Dry MP-Castrol Strip ☐ Wet MP-Castrol Strip ☑ Profile Gage RSC OK ☑

Job Information

B BT V BT D P BT

3rd Party Rep
Signature:

PPI W M R 131 DATE 5-16-22

Blacklight Inspection

Blacklight Intensity: 8700 Bath Mixture: 0.30 Whitelight: 0.1

Equipment / Inspector Information

Equipment Used From Unit # 23
Qual. Date(s) MT 4/26/2019 PT 4/26/2019
Level II Inspector: BRANSON THERIOT
Signature:
Signature guarantees final walk thru of job and job site

Liquid Penetrant Inspection

Magnaflux Developer: SKD-S2
Batch #
Dwell Time: min
White Light:
Magnaflux Penetrant: (Check one) ☐ SKL-WP2 ☐ ZL-60D
Batch #
Dwell Time: min

REVIEWED
By David Patin at 8:17 am, May 17, 2022