

BOTTOM HOLE ASSURANCE, INC.

No. DIR 43285-2

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 HOLE OPENER CORP 3RD PARTY
RIG _____
OCS-G & WELL _____

FACILITY / LOCATION SHOP
PROJECT ARENA / RA 30929

AUTHORIZED BY DONOVAN
P.O. / JOB # 7760

INVOICE NO. 43285
DATE: 6/11/2021

Serial #	Tool Description	Overall Length	Fishing Neck Length	Tong Space	Pin I.D.	Pin O.D.	Box O.D.	PIN									BOX							Remarks										
								Connection Size	Pin Length	Pin Cylinder Diameter	Pin Nose Diameter	Pin Relief Diameter	Pin Root Width	Pin Neck Lgth	Bevel Diameter	B S R	OK or Reject	Remarks	Connection Size	Counter Bore Length	Counter Bore Diameter	Bore Bore Dia.	Bore Back Dia.		Flatt Bore Lgth	Bevel Diameter	B S R	OK or Reject	Remarks					
DTU-19-16B-2	16" UNDER REAMER BODY																																	
XO-19-950-6	FLOAT SUB	4.00	23 1/8		2 13/16		9 1/2															7 5/8 REG	5/8	7 1/16	4 13/16	17 5/16			8 29/64	2.79	OK			
			23 1/4		2 13/16		8"															6 5/8 REG	5/8	6 1/16				7 1/2	2.60	OK				
	NEXT TOOL																																	
DTU-19-16B-8	16" UNDER REAMER BODY	6.34			N/A	16"	10"	INT INT (B)														7 5/8 REG	11/16	7 1/16				8 51/64	N/A	OK				
TS-19-22-2	TOP SUB	4.61	14 7/8	36 1/2	3"	9 1/2	16"	7 5/8 REG	5 1/4			1/4	8 53/64	2.815	OK		INT															OK		
JSS-18-22-1	JET SUB	2.52	17 1/4		3 1/4	10"	10"	7 5/8 REG	5 1/4			1/4	8 55/64	N/A	OK		7 5/8 REG	11/16	7 1/16								8 51/64	N/A	OK					
05-16B-020-006,086,087	CUTTER ARM (3)							INT																								OK		
05-220-035-008	YOKE																																OK	
05-220-037-005	PISTON																																	
N/A	STOP PIPE							INT																										
N/A	FLOW TUBE																																	
05-16B-014-069,079,082	HINGE PIN RETAINER (3)																																	
05-220-009-081,156	BUSHING																																	

Remarks: FULL BODY INSP AS PER DS-1 VOL 4	Customer Rep Signoff: _____																								
<table border="1"> <tr> <th>Batch # Info.</th> <th>Connection Inspection</th> <th>Body Inspection</th> <th>Body Dry M.P.I</th> <th>Blacklight Inspection</th> <th>Liquid Penetrant Inspection</th> </tr> <tr> <td>20-B Dry Powder</td> <td>20B065 130531</td> <td>Wet Flour M.P.I. <input checked="" type="checkbox"/> Dry M.P.I. <input type="checkbox"/> Residual <input type="checkbox"/></td> <td>Wet Flour M.P.I. <input checked="" type="checkbox"/> Residual <input type="checkbox"/> Continuous <input checked="" type="checkbox"/></td> <td>Blacklight Intensity 6137 Bath Mixture 0.25 WhiteLight 0.1</td> <td>Magnaflex Developer SKD-S2 Batch # _____ Dwell Time _____ min White Light _____ Magnaflex Penetrant (Check one) <input type="checkbox"/> SKL-WP2 <input type="checkbox"/> ZL-80D Batch # _____ Dwell Time _____ min</td> </tr> <tr> <td>7-HF White Contrast</td> <td>Flour Liq. Pen. <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Long Insp. <input type="checkbox"/> AC Current <input type="checkbox"/></td> <td>Flour Liq. Pen. <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Long Insp. <input type="checkbox"/> DC Current <input checked="" type="checkbox"/></td> <td>Flour Liq. Pen. <input type="checkbox"/> AC Current <input checked="" type="checkbox"/> Long Insp. <input type="checkbox"/> DC Current <input type="checkbox"/></td> <td>Equipment Used From Unit # 25 Qual. Date(s) MT 5/6/2019 P1</td> <td></td> </tr> <tr> <td>14-A</td> <td>Trans. Insp. <input checked="" type="checkbox"/> DC Current <input checked="" type="checkbox"/></td> <td>Trans. Insp. <input checked="" type="checkbox"/> Visible M.P.I. <input type="checkbox"/></td> <td>Trans. Insp. <input type="checkbox"/> Visible M.P.I. <input type="checkbox"/></td> <td>Equipment / Inspector Information Level II Inspector: TANNER BLANCHARD Signature: _____ Signature guarantees final work thru of job and job site</td> <td></td> </tr> </table>	Batch # Info.	Connection Inspection	Body Inspection	Body Dry M.P.I	Blacklight Inspection	Liquid Penetrant Inspection	20-B Dry Powder	20B065 130531	Wet Flour M.P.I. <input checked="" type="checkbox"/> Dry M.P.I. <input type="checkbox"/> Residual <input type="checkbox"/>	Wet Flour M.P.I. <input checked="" type="checkbox"/> Residual <input type="checkbox"/> Continuous <input checked="" type="checkbox"/>	Blacklight Intensity 6137 Bath Mixture 0.25 WhiteLight 0.1	Magnaflex Developer SKD-S2 Batch # _____ Dwell Time _____ min White Light _____ Magnaflex Penetrant (Check one) <input type="checkbox"/> SKL-WP2 <input type="checkbox"/> ZL-80D Batch # _____ Dwell Time _____ min	7-HF White Contrast	Flour Liq. Pen. <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Long Insp. <input type="checkbox"/> AC Current <input type="checkbox"/>	Flour Liq. Pen. <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Long Insp. <input type="checkbox"/> DC Current <input checked="" type="checkbox"/>	Flour Liq. Pen. <input type="checkbox"/> AC Current <input checked="" type="checkbox"/> Long Insp. <input type="checkbox"/> DC Current <input type="checkbox"/>	Equipment Used From Unit # 25 Qual. Date(s) MT 5/6/2019 P1		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"/>	Trans. Insp. <input type="checkbox"/> Visible M.P.I. <input type="checkbox"/>	Equipment / Inspector Information Level II Inspector: TANNER BLANCHARD Signature: _____ Signature guarantees final work thru of job and job site		<p>System Effectiveness: LP-Complative Block <input type="checkbox"/> Dry MP-Castrol Strip <input type="checkbox"/> Wet MP-Castrol Strip <input checked="" type="checkbox"/> Profile Gage RSC OK <input checked="" type="checkbox"/></p> <p>3rd Party Rep _____ Signature: _____</p>
Batch # Info.	Connection Inspection	Body Inspection	Body Dry M.P.I	Blacklight Inspection	Liquid Penetrant Inspection																				
20-B Dry Powder	20B065 130531	Wet Flour M.P.I. <input checked="" type="checkbox"/> Dry M.P.I. <input type="checkbox"/> Residual <input type="checkbox"/>	Wet Flour M.P.I. <input checked="" type="checkbox"/> Residual <input type="checkbox"/> Continuous <input checked="" type="checkbox"/>	Blacklight Intensity 6137 Bath Mixture 0.25 WhiteLight 0.1	Magnaflex Developer SKD-S2 Batch # _____ Dwell Time _____ min White Light _____ Magnaflex Penetrant (Check one) <input type="checkbox"/> SKL-WP2 <input type="checkbox"/> ZL-80D Batch # _____ Dwell Time _____ min																				
7-HF White Contrast	Flour Liq. Pen. <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Long Insp. <input type="checkbox"/> AC Current <input type="checkbox"/>	Flour Liq. Pen. <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Long Insp. <input type="checkbox"/> DC Current <input checked="" type="checkbox"/>	Flour Liq. Pen. <input type="checkbox"/> AC Current <input checked="" type="checkbox"/> Long Insp. <input type="checkbox"/> DC Current <input type="checkbox"/>	Equipment Used From Unit # 25 Qual. Date(s) MT 5/6/2019 P1																					
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"/>	Trans. Insp. <input type="checkbox"/> Visible M.P.I. <input type="checkbox"/>	Equipment / Inspector Information Level II Inspector: TANNER BLANCHARD Signature: _____ Signature guarantees final work thru of job and job site																					
<p>Job Information</p> <p>B TB V TB D P TB</p>																									