



BOTTOM HOLE ASSURANCE, INC.

No. DIR 43257-1

Blacklight, Ultrasonic Wall Thickness, & Liquid Penetrant Inspection
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109 Citron Drive • Youngsville, LA 70592
Office: (337) 857-8994 Fax: (337) 857-8964

CUSTOMER: HOLE OPENER INTERNATIONAL 3RD PARTY
RIG: _____ FACILITY/LOCATION SHOP
OCS: G & WELL PROJECT: Titan Tools RA-10146
AUTHORIZED BY: DONOVAN P.O./JOB #: 103075
INVOICE NO: 43257
DATE: 5/21/2012

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 Diameter	Pin Cylinder Diameter	Pin Nose Diameter	Pin Root Diameter	Pin Neck Lgth	Bevel Diameter	B S R	OK or Reject	Remarks		Connection Size	Counter Bore Length	Counter Bore Diameter	Flat Bore Dia.	Bore Back Lgth	Flat Bore Lgth	Box Thread Length	Counterbore Wall Thickness	Bevel Diameter	B S R	OK or Reject	Remarks							
RHO14-1203	RHO	5.88	15 1/4	23 13/16	2 13/16	9 1/2	8"	7.50 reg	5 3/16						5/16	8.5364	2.785	OK	will recut for stress relief	6.50 reg	11/15	6 1/16																

Remarks: FULL BODY INSP AS PER DS-1 VOL 4

Batch # Info	Connection Inspection	Body Inspection	Body Dry M.P.I	Blacklight Inspection	Liquid Penetrant Inspection
20-B 20B065 130531	<input checked="" type="checkbox"/> Wet Flour M.P.I. <input type="checkbox"/> Dry M.P.I. <input type="checkbox"/> Residual <input type="checkbox"/> Continuous <input type="checkbox"/> AC Current <input type="checkbox"/> DC Current <input type="checkbox"/> Trans Insp.	<input checked="" type="checkbox"/> Wet Flour M.P.I. <input type="checkbox"/> Residual <input type="checkbox"/> Continuous <input type="checkbox"/> AC Current <input type="checkbox"/> DC Current <input type="checkbox"/> Trans Insp.	<input checked="" type="checkbox"/> Dry M.P.I. <input type="checkbox"/> Residual <input type="checkbox"/> Continuous <input type="checkbox"/> AC Current <input type="checkbox"/> DC Current	Blacklight Intensity: 5348 Bath Mixture: 0.25 White Light: 0.1 Equipment Used From List #: 25 Qual Dates: MT 5/6/2019 PT	Magnalux Developer: SKD-S2 Developer: _____ Magnalux Penetrant: SKL-AP2 Penetrant: ZL-50D Dwell Time: _____ min

Job Information
 System Effectiveness: LP-Competitive Block Dry M.P. Castrol Ship Wet M.P. Castrol Ship Profile Gauge RSP OK
 3rd Party Rep: _____
 Signature: _____
 TANNER BLANCHARD
 Signature guarantees that wall area of job and job site