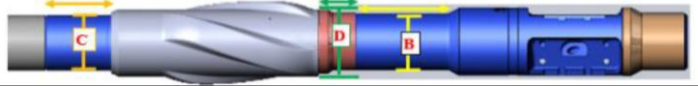
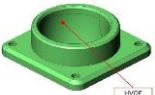
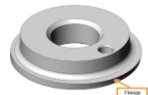
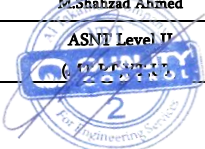


CERTIFICATION OF VISUAL THOROUGH EXAMINATION & DYE PENETRANT INSPECTION

Customer:	Halliburton Sperry drilling	Date Of Service :	Wednesday, May 8, 2024			
Work Location:	Burjesia Halliburton Base Basra - IRAQ	Report No.:	QC-24-HAL-SP-BJS-DPI-NDT-DISS ASS-022			
Acceptance Creater :	DS-1 Volume 4- 5th Edition	Work Order.:	326579614			
HAL DOCUMENTS .:	D01860184 Rev I (Visual Procedure D00305796 Revision U) (LPI Procedure D00976849 Revision E)	8" STEERING HEAD :	13039893			
TYPE OF INSPECTION	VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)					
DESCRIPTION:	8" PAD PDC					
Steering Head						
TECHNICAL DETAILS						
TECHNIQUE 2 - TYPE II VISIBLE, METHOD 'A' WATER -WASHABLE						
PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:	15 minutes			
Test Part Temperature:	102 °F	WHITE LIGHT INTENSITY:	3623 LUX			
Test Equipment & Consumable Details						
COMPARATOR BLOCK	SR#11223 CAL DUE: 12.AUG,2024	Digital Lux Meter	SR#2722003 CAL DUE: 15.AUG,2024			
INFRARED THERMOMETER	SR#201704125 CAL DUE: 15.AUG,2024	PRESSURE GAUGE	SR# SSR825 CAL DUE: 18.AUG,2024			
Red Penetrant Manufacture:	Magnaflux	WATER PRESSURE 30 PSI	Batch No: 220511			
Developer Manufacture:	Magnaflux	Batch No: 220302	EXPIRE DATE :May,2025			
Serial Number	14131995	STEERING PAD	PAD HOUSING	Serial Number	13656362	
Serial Number	14131994			Serial Number	13446611	
Serial Number	13670318			Serial Number	13706967	
CONDITION	Acceptable			CONDITION	Acceptable	
Serial Number	13985668	BORE	PISTON PAD	Serial Number	4517184208-3-7	
Serial Number	13985680			Serial Number	4517184208-3-10	
Serial Number	13985670			Serial Number	4517184208-3-4	
CONDITION	Acceptable			CONDITION	Acceptable	
Serial Number	4514413198-1-2	LATERAL PAD	STEERING PAD BOLT	Serial Number	13636197	
Serial Number	4513953183-1-36			Serial Number	13269709	
Serial Number	4514439202-3-7			Serial Number	13651549	
Serial Number	4514451788-2-4			Serial Number	13204980	
Serial Number	4514413198-1-8			Serial Number	13651541	
Serial Number	4514439202-3-11			Serial Number	4513672748-1-10	
CONDITION	Acceptable			CONDITION	Acceptable	
Serial Number	4516779722-3-117	SEAL GLAND		ONLINE TRACEABILITY		
Serial Number	4516779722-3-97					
Serial Number	4516779722-3-3					
CONDITION	Acceptable					
REMARKS:.	All Parts Mentioned above were found "Acceptable" At time of Inspection.					
Inspector Name:	M.Shahzad Ahmed	Review By				
Qualification:	ASNT Level II	Senior Inspector:	Naveed Hussain	Supervisor:	Hani Ali	Customer Name Signature:
Signature:						
Original - Client Files		Copy - Area Office		QC/FN/DPI/NDT/022 Rev.00		Dated: 07 Nov 2021

AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com



8" STEERING HEAD COLLAR INSPECTION CERTIFICATE

Client Name:	SPERRY DRILLING	Report No.:	HAL-TUB-24-DPI-NDT-1813
Acceptance criteria.	DS-1 Volume 4- 5th Edition (ClassA1) D01860184 (Revision I)	Date of Inspection:	08.MAY.2024
Halliburton Doc.		Halliburton WORK ORDER	326579614
Work Location:	Burjesia Halliburton Camp Basra – Iraq	Halliburton Doc. (Visual Procedure D00305796 Revision U)	
Halliburton Doc. (Dimensional Procedure D00301932 Revision L) Halliburton Doc. (Cold work Procedure D00685901 Revision W		Halliburton Doc. (LPI ProcedureD00976849 Revision E)	
TEST EQUIPMENT & CONSUMABLE DETAILS			
PENETRANT SKL-WP2	Batch #:220511 Exp: May,2025 Manufacture: Magnaflux	DEVELOPER SKD-S2	Batch #:220302 Exp. March,2025 Manufacture: Magnaflux
TECHNICAL DETAILS	TECHNIQUE 2 - TYPE II VISIBLE, METHOD 'A' WATER –WASHABLE		
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 CAL.Date.13. FEB. 2024 CAL Due Date.12. AUG. 2024	THREAD PROFILE GAGE	SR#21336 CAL.Date.13. FEB. 2024 CAL Due Date.12. AUG. 2024 SR#21335 CAL.Date. 15. FEB. 2024 CAL Due Date.14. AUG. 2024
PENETRANT DWELL TIME:	30 Minutes	DEVELOPER DWELL TIME:	15 Minutes
Test Part Temperature:	92 °F	White Light Intensity:	3580 lux
INFRARED THERMOMETER	201704125	CAL DUE DATE.	14,AUG,2024
Digital Lux Meter	2722003	CAL DUE DATE.	14,AUG,2024
WATER PRESSURE	30 PSI	COMPARATOR BLOCK	SR#11223 CAL.Date. 13. FEB.2024 CAL Due Date. 12. AUG .2024
Methodology:	• Through Visual inspection • Dimensional 3 • Dye Penetrant Inspection		

Serial No.	Description	Connection		Result of Inspection			Dimensional 3 Inspection												
		Box	Box	Box	Box	Body	Box						Box						Body
							OD(In)	CB ϕ (In)	CB δ (In)	Bevel ϕ (In)	BB ϕ (In)	BB λ (In)	OD(In)	CB ϕ (In)	CB δ (In)	BB ϕ (In)	BB δ (In)	Bevel ϕ (In)	
13039893	8" STEERING HEAD COLLAR	6-5/8 REG	6-5/8 FH	Acc.	Acc.	Acc.	8"	6 1/16	20/32	7 1/2"	...	...	8"	6 27/32	20/32	----	----	7 3/4	85 1/8
																			
Conclusion:		* 8" STEERING HEAD Collar Was Found "Acceptable" at Time of Inspection Ready For Use. NOTE: Performed Cold Work On both Connection.																	

OD	Outside Diameter	ID	Inside Diameter	SRG	Stress Relief Groove	CB	Counter Bore	BB	Bore Back	FB	Float Bore
ϕ	Diameter	λ	Length	ϖ	Width	δ	Depth	NP.	Not Present	NA.	Not Applicable
EGR	Elevator Groove Recess	SGR	Slip Groove Recess	CR	Crack	B	Bent	PC	Premium Class	RF	Reface
GT	Galled Thread	TP	Thread Pitting	SP	Seal Pitting	TD	Thread Damage	SD	Seal Damage	M	Mashed
1	100 % Coating	2	99-71 % Coating	3	70-40 % Coating	4	Up to 40 %	5	Nil	WT	Wall Thickness
Colors Code:		White	No Defects	Red	Crack or Extreme Damage.	Blue	Damage	Green	Seal Damage	Yellow	ACFM

Inspector Name:	M. NAQASH	Review By					
Qualification:	ASNT Level II (CP, VT, EMI)	Senior Inspector:	Naveed Hussain	Supervisor:	Hani Ali	Customer Name:	
Signature:						Customer Signature:	
Original - Client Files		Copy - Area Office	QC/FN/IC/008	Rev.00	Dated 07 NOV 2021		

