

**AI TAKAMUL COMPANY FOR ENGINEERING TESTS  
AND PROFESSIONAL SAFETY LIMITED**

Basra, North Rumaila, Quality Control Yard – Iraq  
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**4.06’’ QUAD BOP ( EVERY 365 DAYS) FULL INSPECTION REPORT**

Customer:	<b>HALLIBURTON (HPS)</b>	Date of Inspection:	03.MAY.2025	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	<b>02.MAY.2026</b>	
Type Of Inspection:	ANNUAL INSPECTION	Report No.:	QC-25-MAY-HALL-HPS-001	
Ref Standard:	API SPEC 6A:2024 ASTM E709-21/ ASTM E165-23	Document number:	<b>D601004567-REP-001</b>	
SERIAL NO.	033-19233 R	EQUIPMENT NO.	10616632	

**OEM PLATE DATA**

Manufacture:	Texas Oil Tools
Material Class:	DD-HH
Working Pressure:	15000 PSI (1035 BAR)
Hydraulic Pressure:	3000 PSI (207 BAR)
BOP Weight:	2800 LBS
DOM:	31-10-2021



Name of Inspector: <b>M.SHAHZAD AHMED</b>	Name of person authenticating this report: <b>HANY ALI</b>	Name & Customer Signature
QUALIFICATION: <b>ASNT LEVEL II</b>		
MT & PT& VT & T		



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**PROCEDURE**

**The Products Have Been Inspected and Found Them Conformable to Relevant**

- Clean BOP body.
- visually inspect complete BOP body for damage. Repair any damage found.
- Open bonnets and flush all traces of well fluids.
- Visually inspect all flange, flange studs, quick unions, quick union threads, seal areas for damage. Repair/Replace any damaged items found.
- dimensionally inspect all flange, quick unions, quick union threads, seal areas. Repair/Replace any damaged items found.
- Disassemble and visually inspect condition of ram bodies. Repair/Replace any damaged parts found.
- Dimensionally inspect ram bore diameters.
- Replace all elastomers.
- Disassemble and inspect all actuators and replace hydraulic seals.
- Replace slip inserts
- Remove the equalizing valve assembly and inspect stem and seat. Repair/Replace any damage found.
- Upon re-assembly of BOP replace all bonnet O-ring and gaskets.
- Lubricate and complete re-assembly in accordance with proper technical manual.
- Visually inspect all hydraulic quick connections, hydraulic adapters and hoses. Repair/Replace any damage parts found.
- Function test BOP and verify correct actuation.
- Verify indicator pins correctly indicate the position of the BOP's.
- Slip and Shear Test BOP's to API requirements.
- Pressure Test BOP's to API requirements
- Retain all testing and dimensional documentation.

**INSPECTION RESULT**

**\*\* Visual, DPI & MPI was carried out on the available critical areas of the BOP and found Accept at the time of inspection**

Name of Inspector: <b>M.SHAHZAD AHMED</b>	Name of person authenticating this report: <b>HANY ALI</b>	Name & Customer Signature
QUALIFICATION: <b>ASNT LEVEL II</b>		
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**CERTIFICATION OF VISUAL THOROUGH EXAMINATION AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>HALLIBURTON (HPS)</b>	REPORT NO:	QC-25-MAY-HPS-NDT-002
LOCATION:	HPS (Burjesia Halliburton Camp)	STANDARD :	ASTM E709-21 & ASTM E165-23 API SPEC 6A:2024
WORK ORDER #	*****	DOCUMENT NUMBER:	D601004567-REP-001
DATE OF INSPECTION :	Saturday, May 3, 2025	NEXT INSPECTION DATE:	<b>Saturday, May 2, 2026</b>
TYPE OF INSPECTION:	<b>VISUAL THOROUGH EXAMINATION AND MAGNETIC PARTICLE &amp; DYE PENETRANT INSPECTION</b>		
DESCRIPTION:	QUAD BOP 4.06" (15000 PSI)	EQUIPMENT NO:	10616632
MANUFACTURER:	Texas Oil Tools	SERIAL NO:	033-19233 R

SKETCH OR PICTURE



INSPECTION RESULT

VISUAL , THOROUGH EXAMINATION	Above Item fully inspected and found freedom from deforms, cracks, corrosion & mechanical damage
MAGNETIC PARTICLE INSPECTION ( MPI )	Available critical areas inspected and found free from cracks and other defects
DYE PENETRANT INSPECTION (DPI)	Groove areas inspected and found freedom from cracks and other defects
FINAL RESULTS	Above Item found satisfactory and free of defects at the time of inspection

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS				
AC YOKE S.N:	201504052	CAL DUE DATE	7-Oct-25	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE	
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25		Magnaflux	230408	APRIL 2026	
ASTM Test Block:	1657	CAL DUE DATE	7-Oct-25	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE	
COMPARATOR BLOCK	11223	CAL DUE DATE	8-Oct-25		Magnaflux	230604	June 2026	
INFRARED THERMOMETER	201704125	CAL DUE DATE	7-Oct-25	Red Penetrant	MANUFACTURE	BATCH NO	EXPIRE DATE	
PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:	15 minutes		Magnaflux	230606	June 2026	
TEST PART TEMPERATURE :	97 °F	WHITE LIGHT INTENSITY:	3620 lux	Developer	MANUFACTURE	BATCH NO	EXPIRE DATE	
					Magnaflux	230608	June 2026	
							Black Magnetic Ink Concentration 7 HF	1.2 to 2.4 ml/100 ml

INSPECTOR NAME M.SHAHZAD AHMED		Name of person authenticating this report:	Name & Customer Signature
QUALIFICATION ASNT LEVEL II		HANY ALI	
MT & PT& VT & UT			



**Object data:**

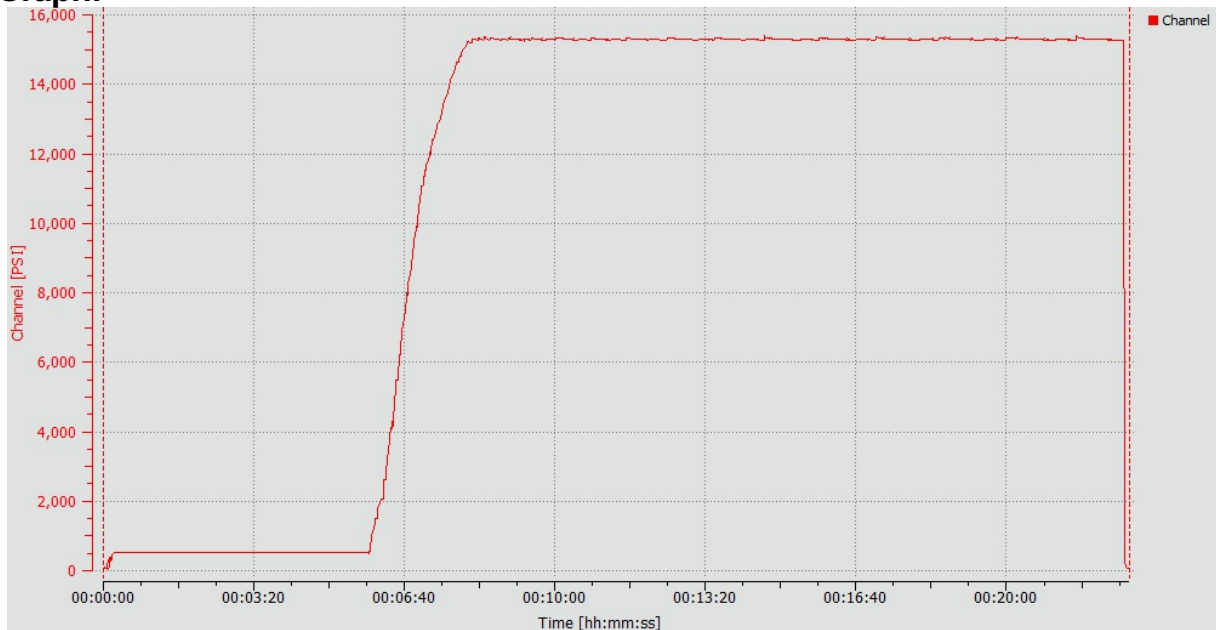
Description: BOP Quad  
 Part no.: 101323076  
 Serial no.: 033-19233R (10616632)  
 Working pressure: 15KPSI  
 Test pressure: 15KPSI  
 Extra information: Body Test

**Contact information:**

Company name: PS  
 Address: N/A  
 Post/zip code: N/A  
 City: Basra  
 Country: Iraq  
 Job no.: 327951608  
 Rig: N/A  
 Well: N/A

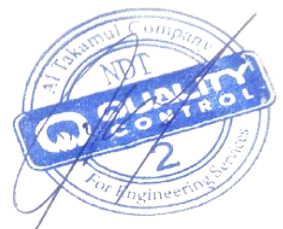
**Comments:**

**Graph:**



**Test data:**

Channel	Unit	Start	End	Delta	Min	Max
Time	HH:MM:SS	00:00:00	00:22:43	00:22:43		
Channel	PSI	55.12	nan	nan	52.22	15413.96



Test start: 22-06-2025 15:04:02  
 Test end: 22-06-2025 15:26:44

Device serial number: 27219  
 Calibration date: 13-Apr-26  
 Location: DME Work Shop  
 Range: 15KPSI

Tested by: Hussein Ali  
 Witnessed by: Ahmed Saleh  
 Approved by: N/A  
 Verification body: N/A

Signature:

**Object data:**

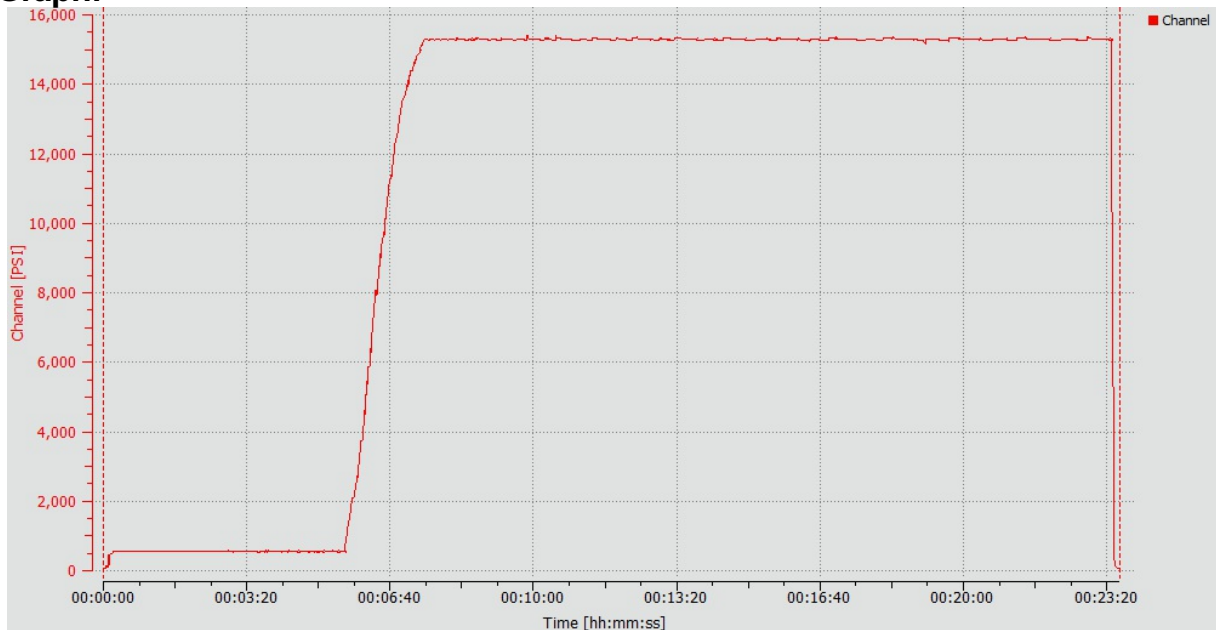
Description: BOP Quad  
 Part no.: 101323076  
 Serial no.: 033-19233R (10616632)  
 Working pressure: 15KPSI  
 Test pressure: 15KPSI  
 Extra information: Blind Ram

**Contact information:**

Company name: PS  
 Address: N/A  
 Post/zip code: N/A  
 City: Basra  
 Country: Iraq  
  
 Job no.: 327951608  
 Rig: N/A  
 Well: N/A

**Comments:**

**Graph:**



**Test data:**

Channel	Unit	Start	End	Delta	Min	Max
Time	HH:MM:SS	00:00:00	00:23:38	00:23:38		
Channel	PSI	66.73	nan	nan	55.12	15402.36

Test start: 23-06-2025 08:57:34  
 Test end: 23-06-2025 09:20:21

Device serial number: 27219  
 Calibration date: 13-Apr-26  
 Location: DME Work Shop  
 Range: 15KPSI



Tested by: Hussein Ali  
 Witnessed by: Ahmed Saleh  
 Approved by: N/A  
 Verification body: N/A

Signature:

**Object data:**

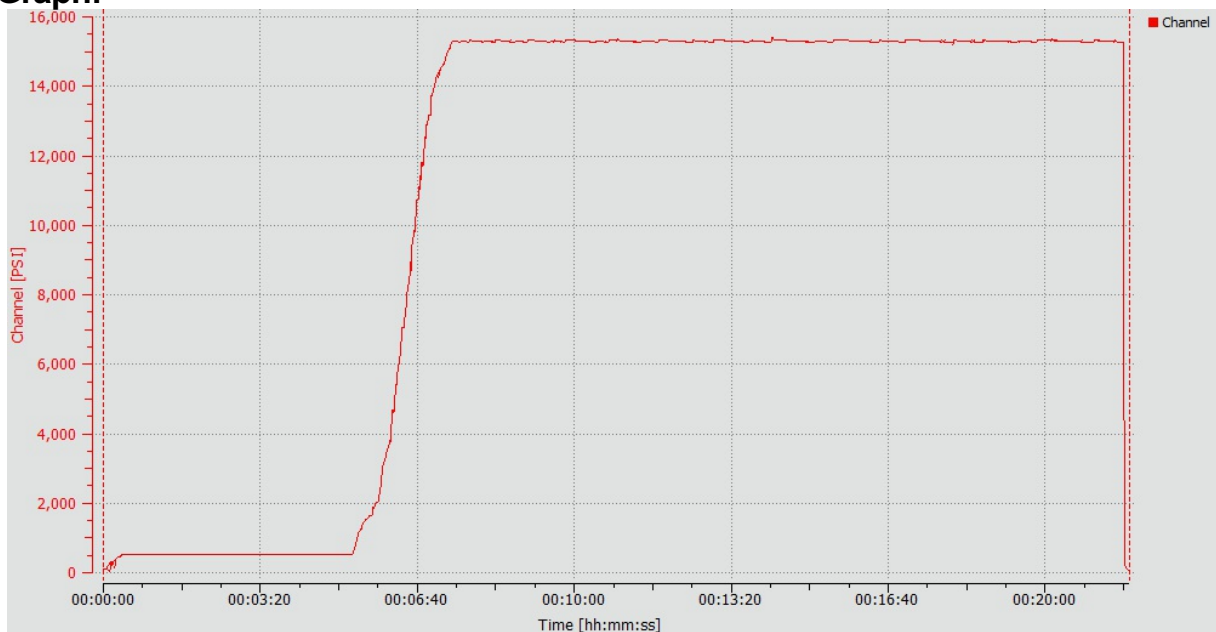
Description: BOP Quad  
 Part no.: 101323076  
 Serial no.: 033-19233R (10616632)  
 Working pressure: 15KPSI  
 Test pressure: 15KPSI  
 Extra information: Pip Ram

**Contact information:**

Company name: PS  
 Address: N/A  
 Post/zip code: N/A  
 City: Basra  
 Country: Iraq  
 Job no.: 327951608  
 Rig: N/A  
 Well: N/A

**Comments:**

**Graph:**



**Test data:**

Channel	Unit	Start	End	Delta	Min	Max
Time	HH:MM:SS	00:00:00	00:21:47	00:21:47		
Channel	PSI	87.04	nan	nan	69.63	15402.36

Test start: 22-06-2025 15:41:09  
 Test end: 22-06-2025 16:06:12

Device serial number: 27219  
 Calibration date: 13-Apr-26  
 Location: DME Work Shop  
 Range: 15KPSI



Tested by: Hussein Ali  
 Witnessed by: Ahmed Saleh  
 Approved by: N/A  
 Verification body: N/A

Signature: