Key /K2 BOP Inc.
18 Burnt Bluff Street
Red Deer AB T4P 0J6

Key /K2 BOP Inc
5705 47 St
Leduc AB T9E 7A1

NEW RAM BLOCK CERTIFICATION

Customer:

Description: 5 1/8" 15M x 2 3/8" CT Pipe Ram Blocks
Manufacturer: Lengthon
Bore Size: 5 1/8"
Pressure Class: 15,000 psi
Serial Number: PF60201004, PF60201006
Customer ID#: N/A
KEY/K2 WO#: R06521
M#: 76050

This document is to certify that the aforementioned equipment has been inspected and pressure tested using industry standard practices and meets or exceeds the requirements as set forth in AER Directive 036, August, 2022.

The service has been completed and the equipment may be returned to service as specified by the original equipment manufacturer or as noted otherwise.

NOTES
TRIM: NACE MR0175

Certification Complete: April 15, 2024
Max Storage: April 15, 2026
In service Date:
Certification Due:
Certification Facility: Tri-Service Oilfield Manufacturing Ltd (Edmonton)
File No.: E26-24137

PERMIT TO PRACTICE
TY ENGINEERING INC.
RM SIGNATURE: _____
RM APEGA ID #: 68523
DATE: October 30, 2026
PERMIT NUMBER: P013591
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

PROFESSIONAL ENGINEER ALBERTA
JIM IP

October 30, 2026
ID# 68523

KEY/K2 Equipment Supervisor: _____ **Date:** April 18, 2024

K2 BOP	PRESSURE TEST AND DRIFT TEST	F27 REV3
		PAGE 1 OF 1

Customer:				Work Order#	R06521
Description:	5-1/8" 15M MODIFIED CT SINGLE GATE			S/N:	SF07301005
TSM Work Order #:	76050	P/O#	7906 / E31590	C/N:	SR1-105

Acceptance Standard	☒ AER Directive 36 ☐ CAOEC RP 6.0 ☐ API16A Latest Edition ☐ API STD 53		☒ AER Directive 36 ☐ CAOEC RP 6.0 ☐ API16A Latest Edition ☐ API STD 53		☒ AER Directive 36 ☐ CAOEC RP 6.0 ☐ API16A Latest Edition ☐ API STD 53
	HYDRAULIC TEST		HYDROSTATIC TEST		SHELL TEST
	OPEN	CLOSE	LOW	HIGH	HIGH
Test Date	04/13/2024	04/13/2024	04/14/2024	04/14/2024	04/15/2024
Test Medium	HYD OIL	HYD OIL	H20	H20	H20
Test Pressure (PSI):	1500	1500	250	15000	15000
Test Duration (min):	20 MIN	20 MIN	20 MIN	20 MIN	20 MIN
Test Pressure (PSI)	N/A	N/A	N/A	N/A	N/A
Test Duration (min):	N/A	N/A	N/A	N/A	N/A
Recording Device:	TD-4	TD-4	TD-1	TD-1	TD-1
Calibration Due	Jan/10/25	Jan/10/25	Feb/16/25	Feb/16/25	Feb/16/25
Tested By:					
DRIFT TEST PASS [☒]					

COMMENTS:

BOP WAS DRESSED AND TESTED WITH 2-3/8" PIPE RAMS **SN: PF60201004/006**

Test Approved By: Eddie Ellis Date: April 15, 2024.

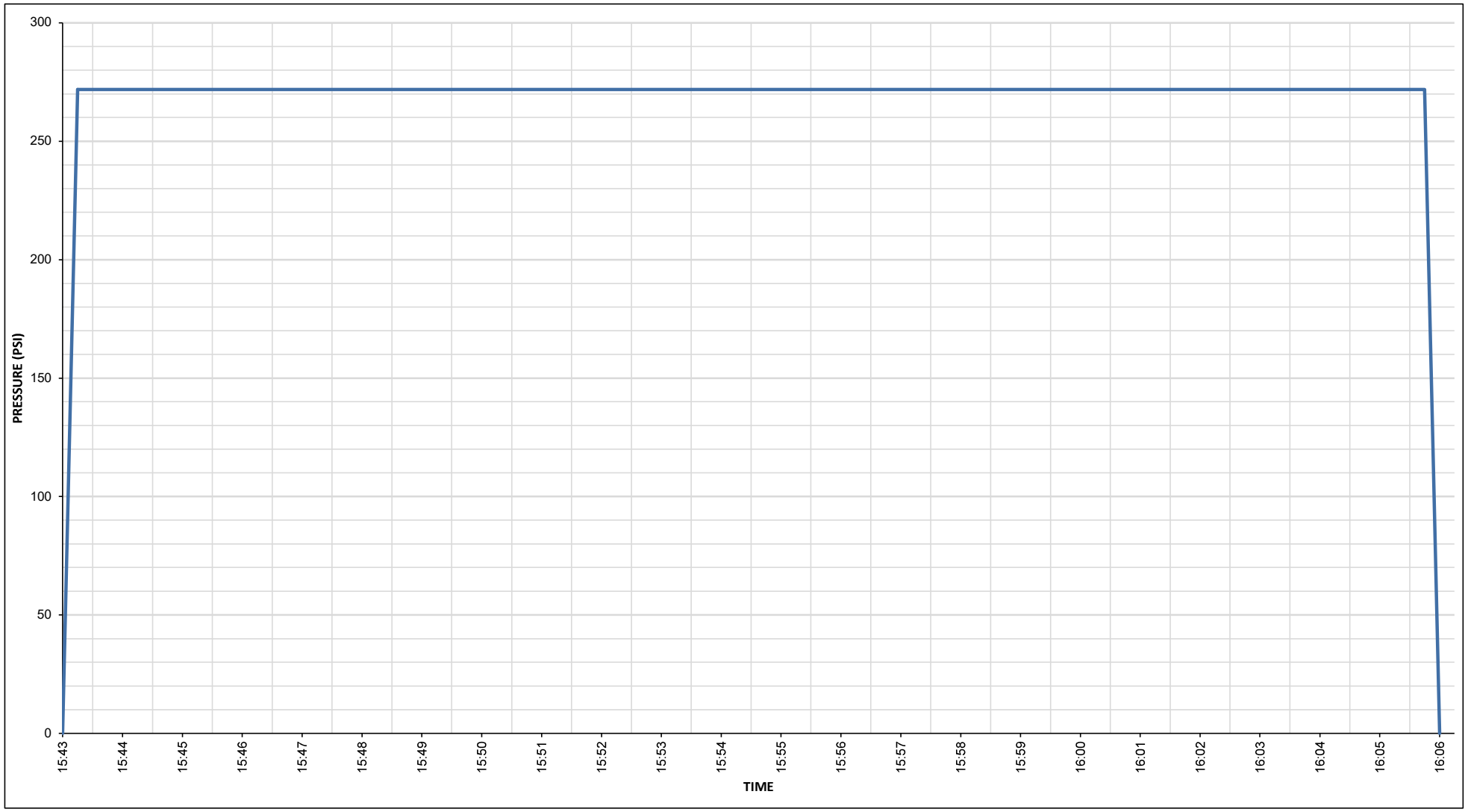
Signature: Eddie Ellis

REV #	DATE	REVISION DESCRIPTION	CREATED BY	APPROVED BY
3	20OCT2022	CAODC changed to CAOEC	MP	EE
1	26JUN2017	ADDED FOR CAODC	MP	DD
2	04OCT2019	ADDED AER Directive 36 & API STD 53	MP	DD

WELLBORE LOW

CUSTOMER:

WO#: R06521 **S/N:** SF07301005 **DESCRIPTION:** 5-1/8" 15M S/G **C/N:** SR1-105 **14-Apr-24**



AER | DIR 36

TRANSDUCER DATA TD-1	19413224102003
TSM WORK ORDER	76050
IN SERVICE	FEB/16/2024
DUE DATE	FEB/16/2025
COMMENTS	2-3/8" RAMS TESTED IN S/G SN: PF60201004/006

WITNESSED BY CONNOR PERROTT
CONDUCTED BY CORY SCARFF

WELLBORE HIGH

CUSTOMER:

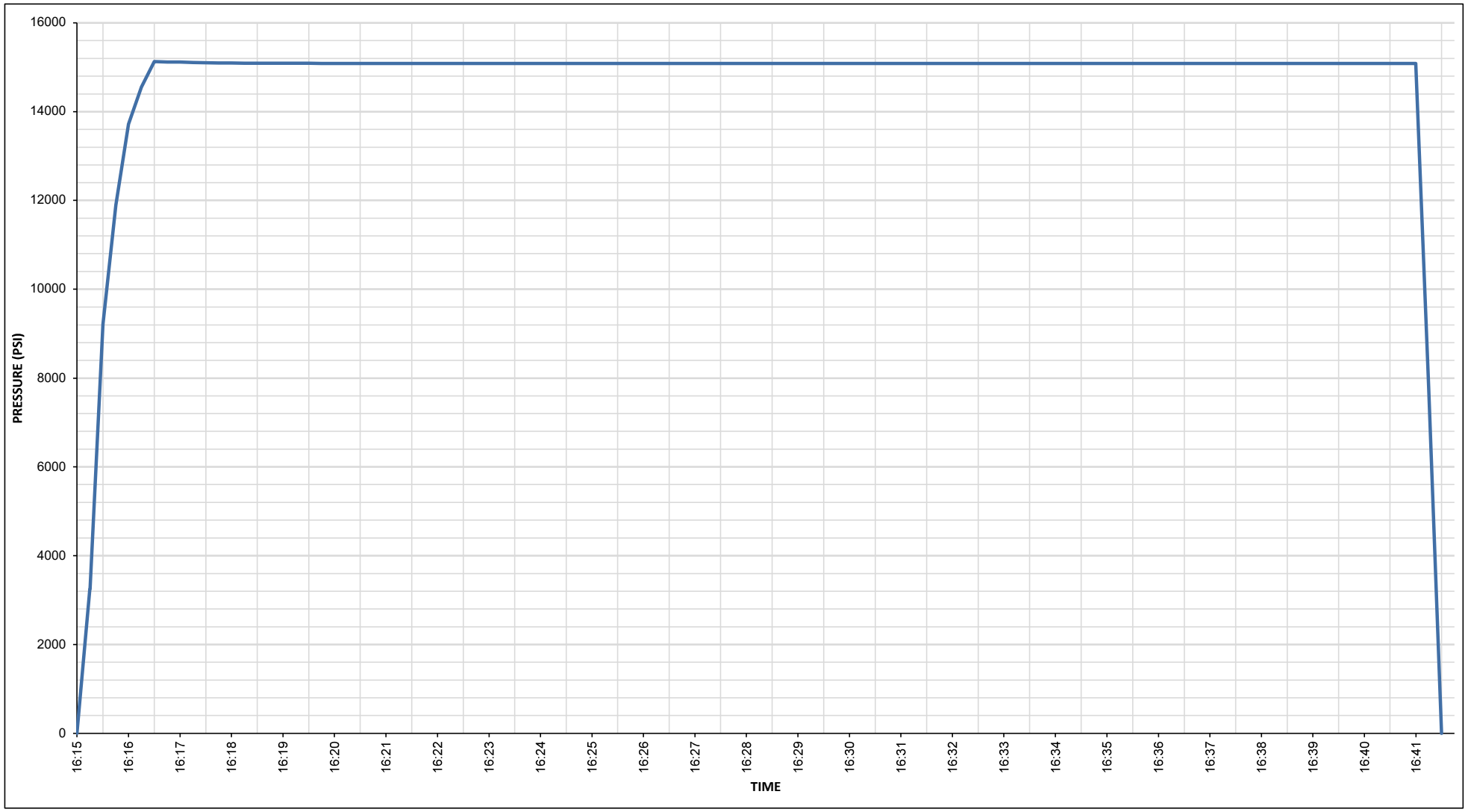
WO#: R06521

DESCRIPTION: 5-1/8" 15M S/G

S/N: SF07301005

C/N: SR1-105

14-Apr-24



AER | DIR 36

TRANSDUCER DATA TD-1	19413224102003
TSM WORK ORDER	76050
IN SERVICE	FEB/16/2024
DUE DATE	FEB/16/2025
COMMENTS	2-3/8" RAMS TESTED IN S/G SN: PF60201004/006

WITNESSED BY CONNOR PERROTT

CONDUCTED BY CORY SCARFF

MAGNETIC PARTICLE TESTING REPORT

CUSTOMER:	K2	**DATE:**	APR 02/2024
LOCATION:	9545 – 58th Ave NW, Edmonton, AB	**W/O#**	76050
TYPE OF EXAMINATION:	MAGNETIC PARTICLES	**P/O#:**	7906
TEST PROCEDURE:	P28 Rev 2 (MT-1)	**S/N:**	PF79301005
ACCEPTANCE STANDARD:	API 16A 4th EDITION	**C/N:**	
STAGE OF TEST:	☒ INITIAL INSPECTION ☐ FINAL INSPECTION	**TEST METHOD:**	ASTM E709

Magnetizing Equipment and Material

Magnetizing Equipment: Yoke **Current:** ☒ AC ☐ DC **Method:** ☒ Continuous ☐ Residual **Manufacture:** Magna-flux **Model:** Contour Probe **Type:** Y-2 **Serial #** N3573 (TSM157) **Calibration Due on:** April 20, 2024 **Lifting Force:** ☒ OK	**Light meter S/N:** 1943490/91 (TSM165) **Make & Model:** Spectroline / XRP3000 **Calibration Due:** April 20, 2024 **Light Source S/N: 70510** (TSM245) **Make & Model:** Labino/UVG3 2.0 Midlight **Calibration Due:** Daily **UV-A Light Intensity** Prior to use: 7632 **µw/cm²** After use: 7630 **µw/cm²**	**Magnetizing Particles:** ☐ Dry ☒ Wet **Particles:** ☐ Visible ☒ Fluorescent **Make:** Magnaflux **Brand Name:** 20B **Batch No.: 22D052** **Batch Concentration: 0. 25 %** **Surface Contrast:** NA **Color:** NA

Material Grade: Various, Surface Temperature: 20 ° ~ 22 ° C

Surface Condition: ☒ Sandblasted (P38R0) ☐ Machined ☐ Bare Metal ☐ Painted ☐ As Welded

QTY.	ITEM EXAMINED	CONFORMITY		REMARKS
		ACCEPT	REJECT	
1	5 1/18"-15000 CT SINGLE	☒	☐	
2	DOORS	☒	☐	
2	RAMSHAFTS	☒	☐	
2	5 1/18"-15000 x 2 3/8" RAMBLOCKSs/n#PF60201004 / PF60201006	☒	☐	
2	BONNETS	☒	☐	
2	CYLINDERS	☒	☐	
4	RAM CHANGE CYLINDERS	☒	☐	
4	RAM CHANGE RODS	☒	☐	
1	EQUALIZER BLOCK	☒	☐	
		☐	☐	
		☐	☐	

Test Results and Comment:

No relevant indications at time of inspection

Inspected By:

Print Name: Allan Radke Signature: Qualification: CGSB Level-II NRCan Certificate#: 7694

REV #	DATE	REVISION DESCRIPTION	PREPARED BY	APPROVED BY
4	27AUG 2021	FORMAT REVISED	MP	BG
3	09AUG2017	FORMAT REVISED	MP	BG
2	11MAR2016	TECHNIQUE DETAIL #1 CHANGED	MP	BG

POSITIVE MATERIAL IDENTIFICATION REPORT

CUSTOMER:	K2	**DATE:**	APR 02/2024
LOCATION:	9545 – 58th Ave NW, Edmonton, AB	**W/O#**	76050
TYPE OF EXAMINATION:	X-RAY FLUORESCENCE & HARDNESS TEST	**P/O#:**	7906
TEST PROCEDURE:	P29 Rev0 (XRF-1) , P32 Rev2	**S/N:**	PF79301005
ACCEPTANCE STANDARD:	NACE MR 0175 -2015 & API 16A 4th EDITION	**C/N:**	
STAGE OF TEST:	☒ INITIAL INSPECTION ☐ FINAL INSPECTION	**TEST METHOD:**	ASTM E1257, ASTM A370: A956

TECHNIQUE DETAILS

XRF Equipment:

Manufacture: Sci-Aps **Type:** X-550 Serial # 00150 (TSM249) ***Prior to Use Calibration Verification Completed:** ☒

Manufacture: MI TECH **Type:** ☒ HL200, Serial #HL0118013102 (TSM194) **Calibration Due on:** August 14, 2024

Surface Condition: ☒ Sandblasted ☐ Machined ☐ Bare Metal ☐ Ground ☐ As Welded

*Note: If results of Calibration Verification are not acceptable, please do not use equipment and inform Supervisor immediately.

QTY.	PART NAME	MATERIAL	HARDNESS (HBW)		Ni	CONFORMITY	
			BASE	WELD		ACCEPT	REJECT
1	5 1/18"-15000 CT SINGLE	LA_8630	219	N/A	.731	☒	☐
2	DOORS	LA_8630	227 / 212	N/A	.721 / .653	☒	☐
2	RAMSHAFTS	LA_4130	223 / 221	N/A	.204 / .214	☒	☐
2	5 1/18"-15000 x 2 3/8" RAMBLOCKSs/n#PF60201004 / PF60201006	LA_4130	201 / 219	N/A	.203 / .231	☒	☐
						☐	☐
						☐	☐
						☐	☐

Comments:

Inspected By:
Print Name: Allan Radke Signature: Qualification: CGSB-II Cert# NRC 7694

REV #	DATE	REVISION DESCRIPTION	PREPARED BY	APPROVED BY
4	20JUL2017	ADDED MATERIAL	MP	BG
5	30APR2021	Added Stage of Test	MP	BG
3	11MAR2016	REFORMATED AND TECHNIQUE DETAIL MODIFIED	MP	BG