

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM0245247
2. Name of Operator MCELVAIN ENERGY INC. /		6. If Indian, Allottee or Tribe Name
Contact: TONY G COOPER E-Mail: tony.cooper@mcelvain.com		7. Unit or CA/Agreement, Name and/or No.
3a. Address 1050 17TH ST STE. 2500 DENVER, CO 80265	3b. Phone No. (include area code) Ph: 303-893-0933 Ext: 331	8. Well Name and No. EK 29 BS2 FEDERAL COM 1H ✓
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T18S R34E Mer NMP NWNE 235FNL 1420FEL ✓		9. API Well No. 30-025-43687
		10. Field and Pool or Exploratory Area EK BONE SPRING
		11. County or Parish, State LEA COUNTY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

McElvain Energy, Inc. is submitting this sundry in order to receive permission to use a flexible choke hose on H&P rig 262 instead of hard line. The attached literature describes the hose and its capabilities. H&P has been using this hose for years. McElvain will adhere to all specifications of the hose. The documentation and inspection records for the flex hose will be available on-site for your review.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Electronic Submission #370786 verified by the BLM Well Information System For MCELVAIN ENERGY INC., sent to the Hobbs Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/06/2017 ()	
Name (Printed/Typed) TONY G COOPER	Title SR EHS SPECIALIST
Signature (Electronic Submission)	Date 03/23/2017
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By <u>mstafa Haguel</u>	Title PETROLEUM ENGINEER BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE Office <u>CFO</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Date 6/13/2017

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

**PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	McElvain Energy Inc.
LEASE NO.:	NMNM0245247
WELL NAME & NO.:	1H – EK 29 BS2 Federal Com
SURFACE HOLE FOOTAGE:	210'/N & 1210'/E
BOTTOM HOLE FOOTAGE	230'/S & 660'/E
LOCATION:	Section 29 T.18 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

All previous COAs still apply, except for the following:

1. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

MHH 06132017

QUALITY CONTROL	No.: QC-DB- 380 / 2012
	Page : 1 / 61
	Revision : 0
	Date: 28. August 2012.
	Prepared by : <i>Szabolcs Linder</i>
Hose No.: 63389, 63390, 63391 63392, 63393	Appr. by: <i>Szabolcs Linder</i>

CHOKE AND KILL HOSES

id.: 3" 69 MPa x 35 ft (10,67 m)

DATA BOOK

Purchaser: H & P

Purchaser Order No.:

ContiTech Rubber Order No.: 531895

ContiTech Beattie Co. Order No.: 006227

NOT DESIGNED FOR WELL TESTING

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5.2. Hardness Test Reports (No.: HB 2150/12, HB 2151/12, HB 2159/12)	15-17.
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5.12. NDT Examiner Certificate (Name: Ménesi István)	52-53.
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 ContiTech Rubber
 Industrial Kft.
 Quality Control Dept.
 (1)



Certificate of Registration

APIQR REGISTRATION NUMBER
0760

This certifies that the quality management system of
CONTITECH RUBBER INDUSTRIAL LTD.
Budapesti ut 10
Szeged
Hungary

*has been assessed by the American Petroleum Institute Quality Registrar (APIQR®) and
found it to be in conformance with the following standard:*

ISO 9001:2008

The scope of this registration and the approved quality management system applies to the
Design and Manufacture of High Pressure Hoses

APIQR® approves the organization's justification for excluding:
No Exclusions Identified as Applicable

COPY

Effective Date: October 15, 2010

Expiration Date: October 15, 2013

Registered Since: October 15, 2007

W. Don Whitaker
Manager of Operations, APIQR

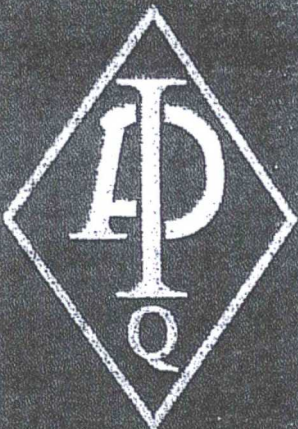
Accredited by Member of
the International
Accreditation Forum
Multilateral Recognition
Arrangement for Quality
Management Systems



This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of APIQR's Registration Program and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual full system audits. Further clarifications regarding the scope of this certificate and the applicability of ISO 9001 standard requirements may be obtained by consulting the registered organization. This certificate has been issued from APIQR offices located at 1220 L Street, N.W., Washington, D.C. 20005-4070, U.S.A., it is the property of APIQR, and must be returned upon request. To verify the authenticity of this certificate, go to www.api.org/compositelists.



2007-116 (07.09) 151



**American
Petroleum
Institute**



2010 170

Certificate of Authority to use the Official API Monogram

License Number: 16C-0004

ORIGINAL

The American Petroleum Institute hereby grants to

CONTITECH RUBBER INDUSTRIAL LTD.
Budapesti ut 10
Szeged
Hungary

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API Spec 16C** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram should be used in conjunction with this certificate number: **16C-0004**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following product: Flexible Choke and Kill Lines

QMS Exclusions: No Exclusions Identified as Applicable

COPY

Effective Date: OCTOBER 15, 2010
Expiration Date: OCTOBER 15, 2013

To verify the authenticity of this license, go to www.api.org/compositelist.

American Petroleum Institute

Director of Global Industry Services

CONTITECH RUBBER
Industrial Kft.

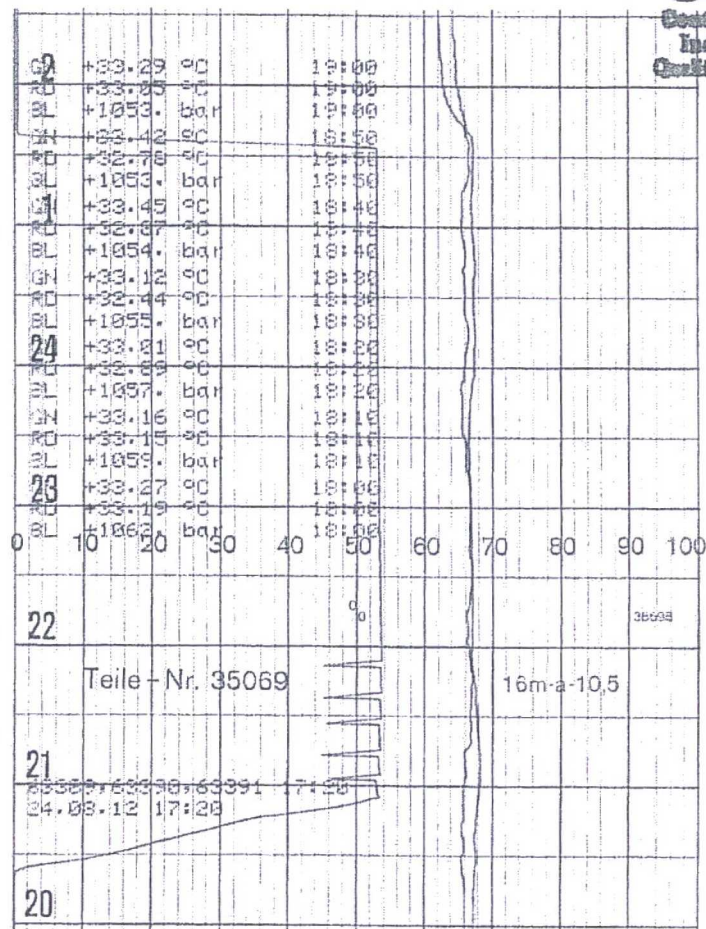
No: QC-DB-380/2012
Page: 4/61

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1595																
PURCHASER: ContiTech Beattie Co.				P.O. N°: 006227																
CONTITECH ORDER N°: 531895		HOSE TYPE: 3" ID Choke and Kill Hose																		
HOSE SERIAL N°: 63389		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,71 m																		
W.P. 68,9 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.																
Pressure test with water at ambient temperature See attachment. (1 page) ↑ 10 mm = 10 Min. → 10 mm = 20 MPa <table border="1"> <thead> <tr> <th>COUPLINGS Type</th> <th>Serial N°</th> <th>Quality</th> <th>Heat N°</th> </tr> </thead> <tbody> <tr> <td>3" coupling with</td> <td>2155 2159</td> <td>AISI 4130</td> <td>20231 22021</td> </tr> <tr> <td>4 1/16" 10K API Flange end</td> <td></td> <td>AISI 4130</td> <td>34031</td> </tr> </tbody> </table> NOT DESIGNED FOR WELL TESTING API Spec 16 C Temperature rate: "B" All metal parts are flawless WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT. STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements. COUNTRY OF ORIGIN HUNGARY/EU <table border="1"> <tr> <td>Date: 27. August 2012.</td> <td>Inspector</td> <td>Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept. <i>[Signature]</i></td> </tr> </table>						COUPLINGS Type	Serial N°	Quality	Heat N°	3" coupling with	2155 2159	AISI 4130	20231 22021	4 1/16" 10K API Flange end		AISI 4130	34031	Date: 27. August 2012.	Inspector	Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept. <i>[Signature]</i>
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Date: 27. August 2012.	Inspector	Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept. <i>[Signature]</i>																		

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1596															
PURCHASER: ContiTech Beattie Co.				P.O. N°: 006227															
CONTITECH ORDER N°: 531895		HOSE TYPE: 3" ID Choke and Kill Hose																	
HOSE SERIAL N°: 63390		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,74 m																	
W.P. 68,9 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.															
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COUPLINGS Type	Serial N°	Quality	Heat N°																
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	2150	AISI 4130	34031																
Date: 27. August 2012.	Inspector	Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept. <i>[Signature]</i>																	

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1597																
PURCHASER: ContiTech Beattie Co.				P.O. N°: 006227																
CONTITECH ORDER N°: 531895		HOSE TYPE: 3" ID Choke and Kill Hose																		
HOSE SERIAL N°: 63391		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,75 m																		
W.P. 68,9 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.																
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 ContTech Rubber
 Industrial Kft.
 Quality Control Dept.
 (1)



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PURCHASER: ContiTech Beattie Co.				P.O. N°: 006227																
CONTITECH ORDER N°: 531895		HOSE TYPE: 3" ID Choke and Kill Hose																		
HOSE SERIAL N°: 63392		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,76 m																		
W.P. 68,9 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.																
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PURCHASER: ContiTech Beattie Co.				P.O. N°: 006227																
CONTITECH ORDER N°: 531895		HOSE TYPE: 3" ID Choke and Kill Hose																		
HOSE SERIAL N°: 63393		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,72 m																		
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Bach
ContiTech Rubber
Industrial Kft.
Quality Control Dept.
(1)

GN	+31.62 °C	18:50
RD	+32.66 °C	18:50
EL	+1050. bar	18:50
GN	+31.64 °C	18:40
RD	+32.69 °C	18:40
EL	+1050. bar	18:40
GN	+31.84 °C	18:30
RD	+32.84 °C	18:30
EL	+1051. bar	18:30
GN	+31.77 °C	18:20
RD	+33.05 °C	18:20
EL	+1053. bar	18:20
GN	+31.84 °C	18:10
RD	+33.15 °C	18:10
EL	+1055. bar	18:10
GN	+31.70 °C	18:00
RD	+33.09 °C	18:00
EL	+1056. bar	18:00
GN	+31.69 °C	17:50
RD	+32.93 °C	17:50
EL	+1059. bar	17:50
63393 17:30		
11.03.12 17:30		
63663 17:20		
22.03.12 17:20		
10	%	38898
Teile - Nr. 35069		16m-a-10,5



Hose Data Sheet

CRI Order No.	531895
Customer	ContiTech Beattie Co.
Customer Order No	PO6227 Pbc13080-H&P
Item No.	1
Hose Type	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSI C/W BX155RING GROOVE
Type of coupling other end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSI C/W BX155 RING GROOVE
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL RESISTANT
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
MBR operating [m]	1,60
MBR storage [m]	1,40
Type of packing	WOODEN CRATE ISPM-15



Carbrook Street
Sheffield S9 2JN
Telephone: +44 114 244 6711
Facsimile: +44 114 244 7469



Test No 64242

Results quoted only refer to the items tested.

Material Specification		AISI4130	
Heat Treatment Spec		197-237BHN	
Melt Practice		EF/VD	
Production Method		FORGED	
Test Spec		517N/MM2MIN.YLD	
Test Spec			
Heat Treatment		Temp(°C)	
Soak		Coolant	
Charge Ref		Init	
Max(°C)		Batch	
Temp recorded using		CONTACT THERMOCOUPLE	
HARDEN		860	
3 HRS		WATER QUENCH	
SHF-148779		20	
30		0911080806	
Nature of T/P		Separate	
TEMPER		650	
4 HRS		TABLE COOL	
SHF-148779		1111080815	
Qtc size		4inch SQ X 6inch LONG	
		Req Min/Max	
		Achieved	
		Hardness on T/P	
		197 237 HBW	
		228 228 HBW	
		Hardness on Material	
		197 237 HBW	
		202 230 HBW	
Tensile		Impacts	
Location		Direction	
R _p 0.20%		R _m	
A%		Z%	
Init		Max(°C)	
Batch		Temp recorded using	
CONTACT THERMOCOUPLE		Nature of T/P	
Separate		Qtc size	
4inch SQ X 6inch LONG		Req Min/Max	
Achieved		Hardness on T/P	
197 237 HBW		228 228 HBW	
Hardness on Material		197 237 HBW	
202 230 HBW			
Location		Direction	
CVN		Lat. Exp. (mm)	
% Shear			
1/4T		LONGITUDINAL	
27 Min Ave		0.380 Min	
0			
Results (N/mm2)			
570		738	
24 (50.0)		70.0 (12.5)	
Results (Joules)		-30 Centigrade	
180 144 172		2.19 1.88 2.09	
100 80 100			
Results			
Results			
Corrosion			
Pitting Resistance		Fertite	
Microstructure			
Carbon Equivalent		Grain Size	
Min		6	
Max		6	
C		Si	
Mn		P	
S		Cr	
Mo		Ni	
Cu			
0.2820		0.2580	
0.5300		0.0160	
0.0100		1.0600	
0.2430		0.2020	
0.2250			

CERTS TO BS EN10204 3.1

Ce: 0.659

ContiTech Rubber
Industrial Kft.
CERTIFICATE
ACCEPTABLE

QC INSPECTOR
DATE: 14.09.06

All furnace Calibration conforms to API6A 20th Edition ANNEX M.
Hardness load/penetration depth - HBW 10 diameter (mm)/3000 kgt test force per ASTM E10.

Third party inspection :

Signature

Page 1 of 1

Test Certificate

Body
20150-20157 20160

To:
CONTITECH RUBBER INDUSTRIAL KFT
H-6728,
SZEGED,
BUDAPESTI UT 10,
HUNGARY,
HUNGARY

1625-1615
4205160045

Customer Order Number	32235445 - 01	Test Number	351653
Customer Order Date	03Mar11	Part Number	4205160045*
Sales Order Number	EUR-323704-1	Cast Number	20231
Report Date	24Aug11	Cert Number	EUR-240960
Quantity	11 Pcs 14756 Kgs 210 mm Dia X 192.8750"		
Description	AISI 4130 ROUND BAR 75KSI .2% PS API QTC		Steel Type
		ALLOY 4130	

CONTITECH RUBBER
Industrial Kft.

No: QC-DB-380/2012
Page: 11/61

Names of Approved Signatories : S.Maxford G.Smith S.Suter P.Rogers
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Carbrook Street
Sheffield S9 2JN
Telephone: +44 114 244 6711
Facsimile: +44 114 244 7469



Cert No. 002242

Results quoted only refer to the items tested.

Material Specification	AISI4130 ✓										
Heat Treatment Spec	197-237BHN					Test Spec	517N/MM2MIN.YLD			Test Spec	
Melt Practice	EFVD		Production Method		FORGED						
Heat Treatment	Temp(°C)	Soak	Coolant	Charge Ref	Init	Max(°C)	Batch	Temp recorded using		CONTACT THERMOCOUPLE	
HARDEN	860	3 HRS	WATER QUENCH	SHF-152998	25	39	1212020901	Nature of T/P		Separate	
TEMPER	650	4 HRS	TABLE COOL	SHF-152998			1012020914	Qtc size 4inch SQ X 6inch LONG			
										Req. Min/Max	Achieved
								Hardness on T/P		197 237 HBW	229 229 HBW
								Hardness on Material		197 237 HBW	203 227 HBW

Tensile -

Location	Direction	Rp 0.20%	Rm	A%	Z%	Location	Direction	CVN	Lat. Exp. (mm)	% Shear
1/4T	LONGITUDINAL	517 Min	655 to 800	18 Min (4d)	0 Min	1/4T	LONGITUDINAL	27 Min Ave	0.380 Min	0
Results (MPa)		560	740	25 (50.0)	67.0 (12.56)	Results (Joules)	-30 Centigrade	141 160 150	1.75 1.9 1.8	100 100 100
Results						Results				

Corrosion										
Pitting Resistance	Ferrite					Microstructure				
Carbon Equivalent	.66					Grain Size	Min	6	Max	6
C	Si	Mn	P	S	Cr	Mo	Ni	Cu		
0.2840	0.2970	0.5570	0.0140	0.0070	1.0740	0.2360	0.1540	0.1580		

BS EN 10204 2004 3.1
Reduction Ratio = 6.2:1

Ca: 0.659

ContiTech Rubber
Industrial Kft.
CERTIFICATE
ACCEPTABLE

DC INSPECTOR
DATE: 12.02.2012

All furnace Calibration conforms to API6A 20th Edition ANNEX M.
Hardness load/penetration depth - HBW 10 diameter (mm)/3000 kgf test force per ASTM E10.

Third party inspection:

Names of Approved Signatories: S.Maxted G.Smith S.Suter P.Rogers
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Signature

Page 1 of 1

Test Certificate

To: CONTITECH RUBBER INDUSTRIAL KFT H-6728, SZEGED, BUDAPESTI UT 10, HUNGARY, HUNGARY	Customer Order Number 32246052 - 01	Test Number 357679
	Customer Order Date 04Jan12	Part Number 4205160045
	Sales Order Number EUR-347500-1	Cast Number 22021
	Report Date 16Feb12	Cert Number EUR-251871
	Quantity 21 Pcs 23605 Kgs 210 mm Dia	
Description AISI 4130 ROUND BAR 75KSI .2% PS API QTC	Steel Type ALLOY 4130	

CONTITECH RUBBER
Industrial Kft.

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M: 42046

CONTITECH RUBBER
Industrial Kft.

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Flange

3193

M: 12/16

HAMOR zrt.

2150-2157 420 514 0200

2153-2160

FORGING, MACHINING, HEAT-TREATING

EMI-TÜV
ISO9001

H-3531 Miskolc, Kiss Ernő u. 17. Phone: 36/46/401-033 Fax: 36/46/379-199

INSPECTION CERTIFICATE

ACCEPTANCE ACCORDING EN 10204-05/3.1

Certificate No.: 81687/12-0

Date of issue: 2012.04.04 | Hámor No.: 96-29B5310 | Order No.: 32251700/1

Customer: Contitech Rubber Industrial Kft.
6728 Szeged Budapesti út 10

Quality: AISI 4130/CONTI Spec.No.: API 6A PSL3

Dimension: Ø345±12x180±5 mm

Final dim.: Ø320x170

Heat-treatment: Quenched & tempered

Quantity: 50 pcs | Weight: 130.0 kg/pc | Total weight: 6500.00 kg

Denomination of product: Forged disc

Chemical analysis %

Heat No.: 34031

Steelmaker: CELSA Hutaostrowiec POLA

Test No.	Spec. value Min. Max.	C	MN	SI	P	S	CR	MO	V	Ce
		0.45	1.80	1.00	0.025	0.025	2.75	1.500	0.300	0.82
	Result	0.30	0.46	0.29	0.007	0.001	0.85	0.180	0.003	0.60

Mechanical properties:

Test No.	Spec. value Min. Max.	HB	ReH MPa	Rm MPa	A5 %	KV-J -30°C	Lat.exp mm
		197 238	517	655	18	27	0.38

	Result	197 229					
T11635	Result		529	682	23.50	78 90 99	1.03 1.13 1.43
T11774	Result		521	662	24	87 90 108	1.01 1.24 1.51



Test bar from product.

Dimensional and visual control: passed

Ultrasonic test acc. to SEP 1921-84 spec. is satisfactory C/c

Steel making (melting) process: UHF-ASEA vacuum treated.

API 17 K

Grade Of forging: 7.58

NACE MR 0175/ISO 15156 API 6A PSL3

50 pc/series.



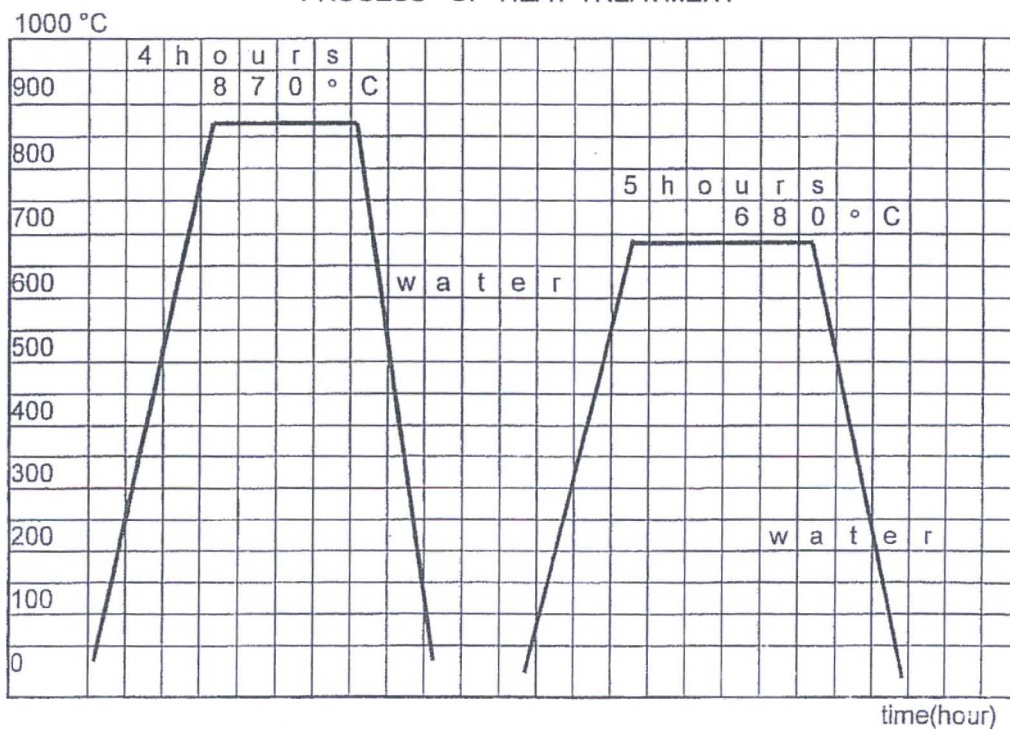
M: AL 116

PROTOCOL NUMMER: 96-29B5310

HEAT-TREATMENT PROTOCOL

BUYER: Contitech Rubber Industrial Kft. Szeged		Order No. of Buyer: 32251700/1	
		Work No. of Buyer:	
PRODUCT: FORGED Ø345 x 180 mm	QUANTITY: PIECE 50	No. of drawing:	
MATERIAL QUALITY: AISI 4130 CONTI API 6A PSL3	Charge No.: 34031	Test No.:	
HEAT-TREATMENT: quenching and tempering Typ of furnace: electric furnace Hardening medium: water			

PROCESS OF HEAT-TREATMENT



Miskolc, Hámor zRt. 2012-04-04.

Kandó
head of heat-treatment



HARDNESS TEST REPORT

Report No: HB 2150/12.

TEST EQUIPMENT: SAUTER HMR Hardness Tester Impact Type D HL0111021202
PROCEDURE: QCP-45 - R1
DESCRIPTION OF COUPLING: 3" coupling(s) after PWHT
DRAWING NUMBER: MT 2958-6000
SERIAL NUMBER: 2150, 2154, 2156, 2160

BRINELL HARDNESS REQUIREMENT	SERIAL NO OF COUPLING	PART OF THE COUPLING	ACTUAL HARDNESS RESULT (HB)
Min.:174HB Max.:238HB	/ 2150	body	201
		weld	218
		flange	174
		connection face	187
	/ 2154	body	184
		weld	206
		flange	176
		connection face	215
	/ 2156	body	210
		weld	217
		flange	183
		connection face	200
	/ 2160	body	203
		weld	209
		flange	175
		connection face	203

The coupling(s) confirm to API Spec 6A 20th requirements.

DATE:

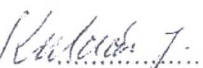
2012-07-03

PREPARED:

Fodor István
Fodor István

APPROVED:

Károlyi András
Károlyi András

 Taugép Kft.	HARDNESS TEST REPORT		Report No: HB 2151/12.
TEST EQUIPMENT: SAUTER HMR Hardness Tester Impact Type D HL0111021202 PROCEDURE: QCP-45 - R1 DESCRIPTION OF COUPLING: 3" coupling(s) after PWHT DRAWING NUMBER: MT 2958-6000 SERIAL NUMBER: 2151-2153, 2155, 2157,			
BRINELL HARDNESS REQUIREMENT	SERIAL NO OF COUPLING	PART OF THE COUPLING	ACTUAL HARDNESS RESULT (HB)
Min.: 174HB Max.: 238HB	✓ 2151	body	189
		weld	209
		flange	174
		connection face	206
	✓ 2152	body	213
		weld	198
		flange	176
		connection face	221
	✓ 2153	body	197
		weld	212
		flange	176
		connection face	200
	✓ 2155	body	182
		weld	217
		flange	174
		connection face	204
	✓ 2157	body	208
		weld	214
		flange	175
		connection face	200
The coupling(s) confirm to API Spec 6A 20th requirements.			
DATE: 2012-07-03	PREPARED:  Fodor István		APPROVED:  Kulcsár József

 Taugép Kft.		HARDNESS TEST REPORT		Report No: HB 2159/12.
TEST EQUIPMENT: SAUTER HMR Hardness Tester Impact Type D HL0111021202 PROCEDURE: QCP-45 - R1 DESCRIPTION OF COUPLING: 3" coupling(s) after PWHT DRAWING NUMBER: MT 2958-6000 SERIAL NUMBER: 2159				
BRINELL HARDNESS REQUIREMENT	SERIAL NO OF COUPLING	PART OF THE COUPLING	ACTUAL HARDNESS RESULT (HB)	
Min.: 174HB Max.: 238HB	/ 2159	body weld flange connection face	196 216 175 191	
The coupling(s) confirm to API Spec 6A 20th requirements				
DATE: 2012-07-03	PREPARED: Fodor István		APPROVED: Kulcsár József	