Form, 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR

OCD Artesia

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	UREAU OF LAND MANA	GEMENT	2	
SUNDRY	NOTICES AND REPO	RTS ON WELLS	5. Lease Serial No NMNM20965	
abandoned wei	is form for proposals to II. Use form 3160-3 (AP	D) for such proposals.	6. If Indian, Allotte	ee or Tribe Name
SUBMIT IN T	TRIPLICATE - Other ins	tructions on page 2	7. If Unit or CA/A	greement, Name and/or
Type of Well Oil Well	ner		8. Well Name and RDX FEDERA	No. L COM 17 36H
Name of Operator RKI EXPLORATION & PROD	9. API Well No. 30-015-4363	6-00-X1		
3a. Address 3500 ONE WILLIAMS CENTE TULSA, OK 74172) 10. Field and Pool UNDESIGNA	or Exploratory Area ATED		
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)	11. County or Pari	sh, State
Sec 17 T26S R30E NWNW 15	EDDY COUN	NTY, NM		
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICATE NATURE O	F NOTICE, REPORT, OR C	OTHER DATA
TYPE OF SUBMISSION		TYPE O	F ACTION	
Notice of Intent ■	☐ Acidize	□ Deepen	☐ Production (Start/Resume)	☐ Water Shut-C
_	☐ Alter Casing	Hydraulic Fracturing	☐ Reclamation	■ Well Integrit
☐ Subsequent Report	□ Casing Repair	☐ New Construction	☐ Recomplete	Other
☐ Final Abandonment Notice	☐ Change Plans	Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	Plug Back	☐ Water Disposal	
13. Describe Proposed or Completed Op If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for for	ally or recomplete horizontally, rk will be performed or provide operations. If the operation re bandonment Notices must be fil	give subsurface locations and measure the Bond No. on file with BLM/BIA sults in a multiple completion or reco	rred and true vertical depths of all pe A. Required subsequent reports mus ompletion in a new interval, a Form ling reclamation, have been complet	ertinent markers and zone t be filed within 30 days 3160-4 must be filed one ed and the operator has
RKI EXPLORATION AND PR location for the following well.	ODUCTION, LLC reques	ts to change the surface hole	location and bottom hole	cord · NMOCD
The pad is already constructed	d. There will be no new s	surface disturbance.	Accepted	
Please see attached updated	plat, drilling plan, directio		_	
	,	City City	ATTACHED FOR DITIONS OF APPRO INM ON	OWAL L CONSERVATI RTESIA DISTRICT
19 OK 8/2	3/17 (CW			ED-0-0-0017
14. 1 hereby certify that the foregoing is	Electronic Submission #	379889 verified by the BLM We	the Carlehad	0 0 2017
		sing by DEBORAH MCKINNEY	on 07/20/2017 (17DLM2134SE) TTING TECH II	RECEIVED
Name (Printed/Typed) CRYSTAL	LIULIUN	I THE PERMI	THING ILOHII	

(Electronic Submission) Date 06/27/2017 Signature

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

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.

Title

Office

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.

RKI Exploration & Production, LLC.

Drilling Plan

Well

RDX Federal Com 17-36H

Location

Surface: 200 FNL 735 FWL Bottom Hole: 230 FSL 1064 FWL T26S R30E S17 T26S R30E S17

County/State

Eddy, NM

3,071 feet above sea level.

The geologic name of the surface formation is

The elevation of the unprepared ground is

Quaternary - Alluvium

A rotary rig will be utilized to drill the well to 15747' MD, then will be cased and cemented. This equipment will then be rigged down and the well will be completed with a workover rig.

Proposed depth is

15,747 feet MD.

1) Estimated Tops:

Formation Name	MD	TVD	Bearing	BHP (psi)	MASP (psi)
Quaternary - Alluvium	GL ,	GL	Water		
Rustler Magenta Member (Base)	787	787	Water		
Bell Canyon Sand (Base Salt)	3,402	3,392	Oil/Gas		
Cherry Canyon Sand	4,535	4,516	Oil/Gas		
Brushy Canyon Sand	4,688	4,668	Oil/Gas		
1st Bone Spring Sand	8,168	8,143	Oil/Gas		
2nd Bone Spring Sand	8,983	8,958	Oil/Gas		
3rd Bone Spring Sand	10,081	10,056	Oil/Gas		
КОР	10,439	10,418			
Wolfcamp	10,472	10,447	Oil/Gas		
Landing Point (Wolfcamp)	11,189	10,565	Target Frm		
TD	15,747	10,895	Oil/Gas	7,082	4,685

2) Notable Formations:

Any usable fresh water zones encountered will be adequately protected and reported. All usable water zones, potential hydrocarbon zones, and valuable mineral zones will be isolated.

Useable water will be protected by surface casing set and cemented to surface.

3) Pressure Control Equipment:

The blowout preventer equipment (BOPE) will consist of 3 rams (10,000 psi WP) with 2 pipe rams (one of which may be variable), 1 blind ram and 1 annular preventer (5,000 psi WP) will be installed. The BOPE will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. A rotating head will be installed as needed. Units will be hydraulically operated.

An accumulator that meets the requirements of Onshore Order 2 for the pressure rating of the BOP stack will be present.

BOPE will be inspected and operated as recommended in Onshore Order 2. A third party company will test the BOPE. After surface casing is set and the BOPE is nippled up, pressure tests will be conducted to 250 psi low and 5000 psi high (50% of WP) with the annular tested to 250 psi low and 2500 psi high (50% of WP).

A 20" x 13-3/8" x 9-5/8" x 7" 10M multi-bowl wellhead w/ 9-5/8" and 7" mandrel hangers will be install after setting surface casing and utilized until total depth is reached. The 9-5/8" and 7" casings will be set using a mandrel in the casing head and the stack will not be retested at these casing points.

The following BOPE will be installed, tested and operational:

- Drilling spool or blowout preventer with two (2) side outlets;
 - Choke line side shall be 3" minimum diameter;
 - Two (2) adjustable chokes with one (1) remotely controlled from the rig floor and pressure gauge.
 - Kill side shall be at least 2" diameter;
 - Two (2) manual valves and one (1) check valve.



Auxiliary equipment is as follows:

- Upper kelly cock valve with a handle available;
- · Lower kelly cock valve with a handle available;
- A float valve will be used in the drill string, either in a float sub or in the mud motor;
- Safety valves and subs with a full opening sized to fit all drill strings and collars will be available on the rig floor in the open position.

RKI Exploration & Production, LLC. requests a variance to drill this well using a co-flex line between the BOP and the choke manifold. Certification for proposed co-flex hose is attached. The hose is required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

4) Casing Program:

Section	Hole Size	Top (MD)	Bottom (MD)	Bottom (TVD)	Casing OD	Weight (ppf)	Grade	Threads
Surf	17-1/2"	0	787	787	13-3/8"	54.5	J-55	ST&C
Int_1	12-1/4"	0	3,402	3,392	9-5/8"	40.0	J-55	LT&C
Int_2	8-3/4"	0	11,189	10,895	7"	29.0	HCP-110	BT&C
Prod	6-1/8"	10,439	15,747	10,895	4-1/2"	13.5	HCP-110	CDC-HTC

Safety Factors						
Collapse	1.125					
Burst	1.000					
Tension	1.600					

Design Factors								
Section Collapse Burst Tension								
Surf	3.26	15.77	11.98					
Int_1	1.72	5.29	3.82					
Int_2	1.92	4.68	2.94					
Prod	2.23	5.18	2.08					

Centralizers will be run as follows:

- One (1) centralizer on each of the bottom three jts of casing beginning with the shoe jt;
- One (1) centralizer every third jt from above bottom three jts to planned top of cement (TOC).

5) Cement Program:

Section	Hole Size	Casing OD	Cap _{Ann} (cuft/ft)					
Surf	17.50	13.375	0.6946					
Type	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
Lead	530	0	368	1.74	50%	317	13.5	Class C + 4% Gel + 2% CaCl + 0.4 pps Defoamer + 0.125 pps CelloFlake
Tail	787	530	134	1.34	50%	200	14.8	Class C + 2% Calcium

Section	Hole Size	Casing OD	Cap _{Ann} (cuft/ft)	Prev Csg ID	Cap _{Csg-Csg} (cuft/ft)			
int_1	12.25	9.625	0.3132	12.615	0.3627			
Туре	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
Lead	787	0	285	1.92	0%	- 529	29 12.9	Class C/Poz 35/65 + 5% Salt + 6% Gel + 0.5% Retarder + 3 pps LCM +
Leau	2728	787	608	1.92	20%			0.4 pps Defoamer + 0.125 pps CelloFlake
Tail	3402	2728	211	1.32	20%	200	14.8	Class C

Section	Hole Size	Casing OD	Cap _{Ann} (cuft/ft)	Prev Csg ID	Cap _{Csg-Csg} (cuft/ft)			
Int_2	8.75	7.00	0.1503	8.835	0.1585			
Type	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
Lead	3402	2902	79	2.67	0%	ENE	505 11.2	TXI Lightweight + 10% Gel + 8% Plex Crete + 0.9% Retarder + 0.7 ops
Leau	10439	3402	1058	2.07	20%	303		FL + 3 pps LCM + 0.4 pps Defoamer + 0.125 pps CelloFlake
Tail	11189	10439	113	1.18	20%	115	15.6	Class H + 0.3% Retarder

Section	Hole Size	Casing OD	Cap _{Ann} (cuft/ft)	Prev Csg ID	Cap _{Csg-Csg} (cuft/ft)					
Prod	6.125	4.50	0.0942	6.184	0.0981					
Туре	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives		
Tail	11189	10439	74	1.89	1 80	1.80	0%	311	13.0	Acid Soluble TXI + 1.3% Salt + 30% CaCl + 5% Plexaid + 0.7% FL +
1 011	15747	11189	429	1.09	20%	311	15.0	0.3% Retarder + 0.1% Antisettling + 0.4 pps Defoamer		

6) Drilling Fluids Program:

An electronic mud monitoring system satisfying the requirements of Onshore Order 1 will be used. All necessary mud products for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Section	Hole Size	TMD	Mud Wt.	Vis	PV	ΥP	Fluid Loss	Туре
Surf	17-1/2"	787	8.5 to 8.9	32 to 36	1 - 6	1 - 6	NC	Fresh Wtr
int_1	12-1/4"	3,402	9.8 to 10.0	28 to 30	1 - 3	1 - 3	NC	Brine
int_2	8-3/4"	11,189	8.9 to 9.4	28 to 36	1 - 3	1 - 3	NC	Cut Brine
Prod	6-1/8"	15,747	10.5 to 12.5	50 to 55	20-22	8 - 10	8 - 10	ОВМ

Mud checks will be performed every 24 hours.

The following mud system monitoring equipment will be in place during drilling:

- · Visual pit markers
- Pit volume totalizer (PVT)
- Stroke counter
- Gas detection
- Mud-gas separator (gas buster)
- Flow sensor

A closed-loop system will be in place during all phases of drilling. Cuttings disposal will be at an off-site disposal facility.

7) Formation Evaluation Program:

No core or drill stem test is planned.

A 2-person mud-logging program will be used from Int_1 9-5/8" casing point to TD.

No electronic logs are planned.

8) Abnormal Conditions:

No abnormal pressure or temperature is expected.

Maximum expected bottom hole pressure is 7082 psi at 10895' TVD. Expected bottom hole temperature is $<200^{\circ}F$.

In accordance with Onshore Order 6, RKI Exploration & Production, LLC does not anticipate that there will be enough H2S to meet the BLM's minimum requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. However, since RKI Exploration & Production, LLC has an H2S safety package on all wells, an "H2S Drilling Operations Plan" is attached.

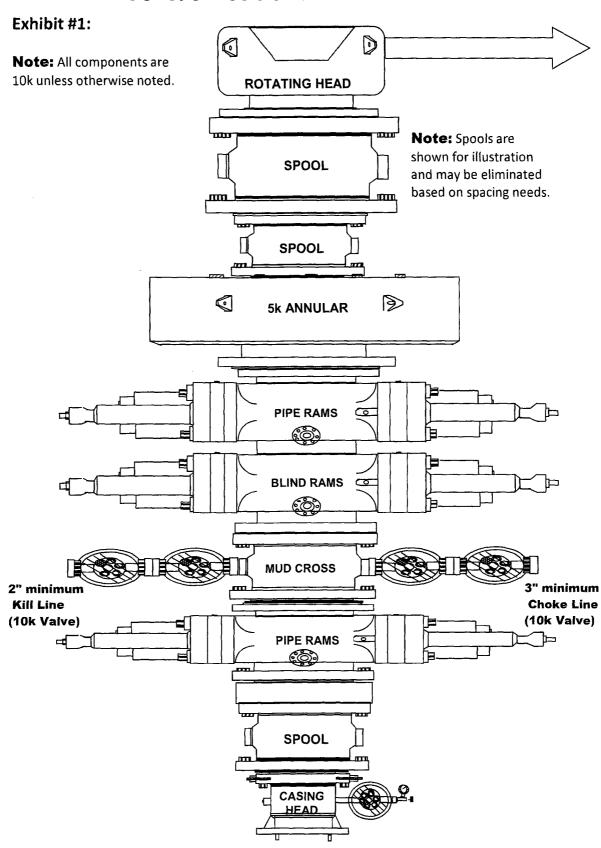
Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

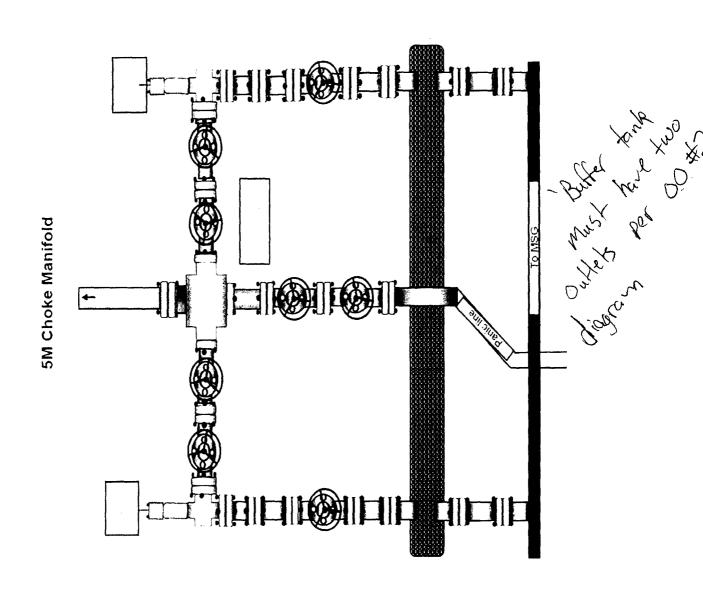
All personnel will be familiar with all aspects of safe operation of equipment being used.

9) Other Information

The anticipated spud date is upon approval. Expected duration is 30 days to drill the well.

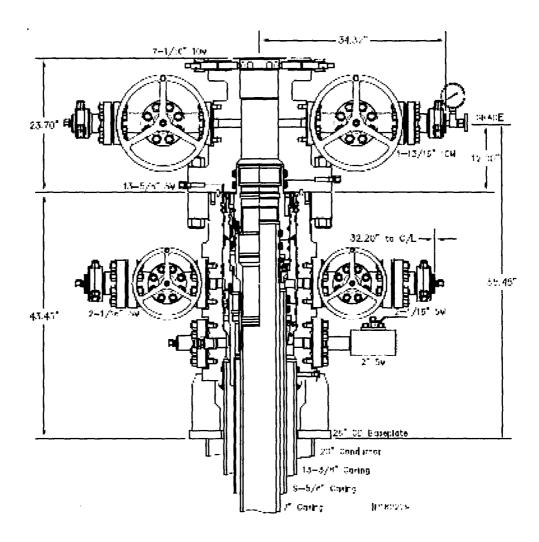
13-5/8" 5M BOP Schematic





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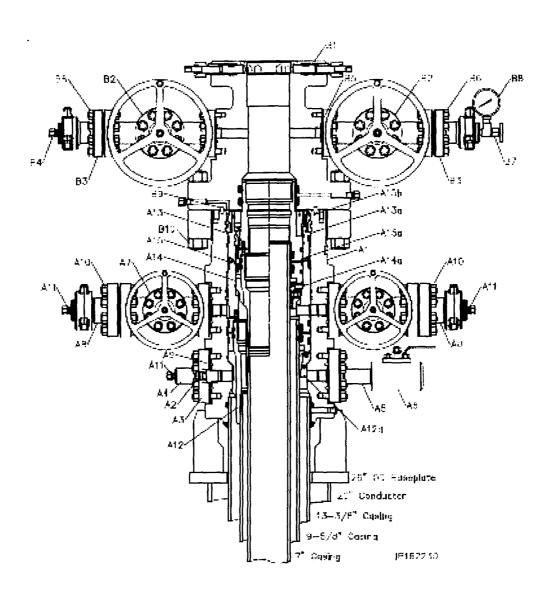
System Drawing





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Bill of Materials



IP 6487 Page 2 VPX Energy 20" x 13-5/8" x 9-5/8" x 7" 10M MBU-3T Welinead With 7" Mandrei Hanger & CTH-DBLHPS Tubing Head



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WPX Energy 20" x 13-3/8" x 5-5/6" x 7" 10M MBU-3T Wellhead With 7" Mangrei Hanger & CTH-DBLHP\$ Tubing Head



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WPX Energy 201 x 13-3/81 x 3-5/81 x 7" 10M MBU-3T Wellhead With 7" Mandrel Hanger & CTH-DBLHP\$ Tubing Head

IP 0487 Page 5

Closed Loop System

RKI Exploration & Production, LLC. RDX Federal Com 17-36H Eddy, NM

Fresh/ Brine Water and OBM Storage (5-10 Frac Tanks)

Mud Mixing Tanks, Pumps, and Solids Control Equipment
(up to 2 centrifuges and up to 3 shakers)

Well

Cuttings Collection and Haul-Off Bins

Operating and Maintenance Plan:

During drilling operations, third party services companies will utilize solids control euipment to remove cuttings from drilling fluids and collect it in haul-off bins. Euipment will be closely monitored at all times while drilling by the derrick man and the service company empolyees.

Closure Plan:

During the drilling operations, third party service companies will haul off drill solids and fluids to an approved disposal facility. At the end of the well, all closed loop equipment will be removed from the location.



GATES E & S NORTH AMERICA, INC

OU-TEX

134 44TH STREET

CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807 FAX: 361-887-0812

EMAIL:

WEB: www.gates.com

10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

Customer: CRION DRILLING COMPANY		Test Date:	9/2/2014 0-090714-4	
Customer Ref.	slomer Ref. PENDUAG			
Invoice No.	203508	Created By:	JUSTIN CRÓPPER	
Product Described:		10K3 025-0CK4.1/16)0KFLGE	Æ	
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	4 1/36 (DK FLG 4772-4291 16,000 PS)	: :		

Gates F. & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Flose burst pressure 9.6.7.2 exceeds the minimum of 2.5 tenes the working pressure per Table 9.

Quality Ha ager Date:

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QUALITY 9/2/2014

Technical Supervice Date

Signal... 3

PRODUCTION 20/2/2014

Fr. in P1C | 01 Rev. 0.2



Gates E&5 North America 134 - 44th St.

CORPUS CHRISTI, TEXAS 78405 PHONE: (361) 887-9807 FAX: (361) 887-0812

CERTIFICATE OF CONFORMANCE

This is to verify that all Parts and/or Materials included in this shipment have been manufactured and/or processed in Conformance with applicable drawings and specifications, and that Records of Required Tests are on file and subject to examination. The following items were assembled at Gates E. & S. Inc. (formerly Outex, Inc.), facilities in Corpus Christi, TX, USA. This hore assembly was designed and manufactured to meet all the requirements of API Spec 7K.

CUSTOMER: ORION DRILLING COMPANY

CUSTOMERS P.O.R: PENDING

PART DESCRIPTION: 1043.025.0CK4 1/1610KFLGE/E

SALES ORDER #: 203508 QUANTITY: 1

SERIAL #; D-090214-4

SIGNATURE:

TITLE:

DATE:

9/2/2014



(BSS) of St. Steel Table of Problems

4 1/2 13:50 to 0:29 F1:0 H1

USS COCHTQ"

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	MECHANII AL FROM RES			
	Minimum Yield Strength	110,000		2021
	Maximum Y old Strength	140,006		gu:
	Meximora Tenels, Strength	125,000		497
	DIMENSIONS			
	Outside Urameter	\$.500	5.25 (មា
	As Inchness	0.290		165
•	ere ab to amoree	927	± 901	H ²
	Britt API	* 795	3 735	1ts
	Nominal Uniter Weight, TAC	13.50		Qrs./jr
	e on End We dig	13.05		55.76
	SECTION AREA			
	Cross valorional Area - Ontical Area	3 R34	3 836	13 (0
	Let FIP		1-3.5 g	c ,
Į	PERFORMANCE			
ì	Minum an Coloper Arest, in	11 610	11 413	,03
	External Pressure and Rendance		# 4 50	μi.
	M. A. or historical Middle Pre-	17.427	12,420	
	Mountain Pipe Body Yield Strength	12.000		ws
	dent Strongth		1 - 2-1	i <u>bs</u>
	Camp yes on Harrie		2046-200E	iss
	Reference Jengha		71 877	÷
	Mary Active Marketine		= 7. #	n , 10°
* .	MAKE-UP DATA			
	Make Up Loss		4,44	in.
	Missiam Make Up Torque		7,000	. 5. 165
	the some water up Taken		10.000	it ies
	on rect . Foold Tengue		1, 470	Jn 308
	2 F 1	$s = -(d + \delta) \cdot c \cdot C$	(a,b) = (a,b) = (a,b)	

Material Control of the Control of t

(FS) Blood Tuescer Products (FST-241-44-3) 19349 Sam Housens Park Dr. #120 connection@uss.com 455-450-7577654 www.n.-connection.com