

## TOWN OF CASTLE ROCK CONSTRUCTION CONTRACT

THIS CONSTRUCTION CONTRACT (Contract) is made at the Town of Castle Rock, Colorado, between the Town of Castle Rock, Colorado (Town), a municipal corporation, 100 N. Wilcox Street, Castle Rock, Colorado 80104 and Hydro Resources – Rocky Mountain Inc. (Contractor) a Delaware corporation, whose address is 13027 County Road 18, Unit C Fort Lupton, CO 80621.

In consideration of these mutual covenants and conditions, the Town and Contractor agree as follows:

**SCOPE OF WORK** The Contractor shall execute the entire Work described in the Contract.

**CONTRACT** The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, written or oral representations and agreements. The Contract incorporates the following Contract Documents. In resolving inconsistencies among two or more of the Contract Documents, precedence will be given in the same order as enumerated.

### LIST OF CONTRACT DOCUMENTS

The Contract Documents, except for Modifications issued after execution of this Contract, are:

1. Change Orders;
2. Notice to Proceed;
3. Construction Contract;
4. The following Addenda, if any:

<b>Number</b>	<b>1</b>	<b>Date</b>	<b>January 12, 2018</b>	<b>Pages</b>	<b>4</b>
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5. Special Conditions of the Contract:

<b>Document</b>	<b>Title</b>	<b>Pages</b>
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6. The following Specifications:  

**Town of Castle Rock Municipal Code**  
**Well Specifications**

7. The following Drawings:  

15R Preliminary Well Design  
16R Preliminary Well Design

8. Notice of Award;
  9. Invitation to Bid;
  10. Information and Instructions to Bidders;
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11. Notice of Substantial Completion;
12. Notice of Construction Completion;
13. Proposal Forms, including Bid Schedules;
14. Performance, and Labor and Material Payment Bonds;
15. Performance Guarantee; and
16. Insurance Certificates.

**CONTRACT PRICE.** The Town shall pay the Contractor for performing the Work and the completion of the Project according to the Contract, subject to Change Orders as approved in writing by the Town, under the guidelines in the General Conditions. The Town will pay \$(1,241,535) one million, two hundred forty-one thousand, five hundred and thirty-five and 00/100 DOLLARS, (Contract Price), to the Contractor, subject to full and satisfactory performance of the terms and conditions of the Contract. The Contract Price is provisional based on the quantities contained in the (Bid) attached as Exhibit 1. The final Contract Price shall be adjusted to reflect actual quantities incorporated into the Work at the specified unit prices. The Town has appropriated money equal or in excess of the Contract Price for this work.

**COMPLETION OF WORK.** The Contractor must begin work covered by the Contract within 14 calendar days, and must complete work within 131-working days from and including the date of Notice to Proceed, according to the General Conditions. The Work should be completed by July 2, 2018.

**LIQUIDATED DAMAGES.** If the Contractor fails to substantially complete the Work by the date set for substantial completion in the Contract, or if the completion date is extended by a Change Order, by the date set in the Change Order, the Town may permit the Contractor to proceed, and in such case, may deduct the sum of \$500 for each day that the Work shall remain uncompleted from monies due or that may become due the Contractor. This sum is not a penalty but is a reasonable estimate of liquidated damages.

The parties agree that, under all of the circumstances, the daily basis and the amount set for liquidated damages is a reasonable and equitable estimate of all the Town's actual damages for delay. The Town expends additional personnel effort in administering the Contract or portions of the Work that are not completed on time, and has the cost of field and office engineering, inspecting, and interest on financing and such efforts and the costs thereof are impossible to accurately compute. In addition, some, if not all, citizens of Castle Rock incur personal inconvenience and lose confidence in their government as a result of public projects or parts of them not being completed on time, and the impact and damages, certainly serious in monetary as well as other terms are impossible to measure.

**SERVICE OF NOTICES.** Notices to the Town are given if sent by registered or certified mail, postage prepaid, to the following address:

TOWN OF CASTLE ROCK  
Town Attorney  
100 N. Wilcox Street  
Castle Rock, CO 80104

**INSURANCE PROVISIONS.** The Contractor must not begin any work until the Contractor

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obtains, at the Contractor's own expense, all required insurance as specified in the General Conditions. Such insurance must have the approval of the Town of Castle Rock as to limits, form and amount.

**RESPONSIBILITY FOR DAMAGE CLAIMS.** The Contractor shall indemnify, save harmless, and defend the Town, its officers and employees, from and in all suits, actions or claims of any character brought because of: any injuries or damage received or sustained by any person, persons or property because of operations for the Town under the Contract; including but not limited to claims or amounts recovered from any infringements of patent, trademark, or copyright; or pollution or environmental liability. The Town may retain so much of the money due the Contractor under the Contract, as the Town considers necessary for such purpose. If no money is due, the Contractor's Surety may be held until such suits, actions, claims for injuries or damages have been settled. Money due the Contractor will not be withheld when the Contractor produces satisfactory evidence that the Contractor and the Town are adequately protected by public liability and property damage insurance.

The Contractor also agrees to pay the Town all expenses, including attorney's fees, incurred to enforce this Responsibility for Damage Claim clause.

Nothing in the **INSURANCE PROVISIONS of the General Conditions** shall limit the Contractor's responsibility for payment of claims, liabilities, damages, fines, penalties, and costs resulting from its performance or nonperformance under the Contract.

**STATUS OF CONTRACTOR.** The Contractor is performing all work under the Contract as an independent Contractor and not as an agent or employee of the Town. No employee or official of the Town will supervise the Contractor. The Contractor will not supervise any employee or official of the Town. The Contractor shall not represent that it is an employee or agent of the Town in any capacity. **The Contractor and its employees are not entitled to Town Workers' Compensation benefits and are solely responsible for federal and state income tax on money earned.** This is not an exclusive contract.

**THIRD PARTY BENEFICIARIES.** None of the terms or conditions in the Contract shall give or allow any claim, benefit, or right of action by any third person not a party to the Contract. Any person, except the Town or the Contractor, receiving services or benefits under the Contract is an incidental beneficiary only.

**INTEGRATION.** This contract integrates the entire understanding of the parties with respect to the matters set forth. No representations, agreements, covenants, warranties, or certifications, express or implied, shall exist as between the parties, except as specifically set forth in this Contract.

**DEFINITIONS.** The Definitions in the General Conditions apply to the entire Contract unless modified within a Contract Document.

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Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

ATTEST:

TOWN OF CASTLE ROCK

\_\_\_\_\_  
Lisa Anderson, Acting Town Clerk

\_\_\_\_\_  
Jennifer Green, Mayor

APPROVED AS TO FORM:

\_\_\_\_\_  
Robert J. Slentz, Town Attorney

CONTRACTOR:

**Contractor**

By: AMMcWalter

Title: VP Operations

*(Insert either the Corporate or Partnership Certificate, as appropriate)*

OFFICE OF THE SECRETARY OF STATE  
OF THE STATE OF COLORADO

CERTIFICATE OF FACT OF GOOD STANDING

I, Wayne W. Williams, as the Secretary of State of the State of Colorado, hereby certify that,  
according to the records of this office,

Hydro Resources - Rocky Mountain, Inc.

is an entity formed or registered under the law of Delaware has complied with all  
applicable requirements of this office, and is in good standing with this office. This entity has  
been assigned entity identification number 20031009865 .

This certificate reflects facts established or disclosed by documents delivered to this office on  
paper through 08/07/2017 that have been posted, and by documents delivered to this office  
electronically through 08/08/2017 @ 14:21:11 .

I have affixed hereto the Great Seal of the State of Colorado and duly generated, executed, and issued this  
official certificate at Denver, Colorado on 08/08/2017 @ 14:21:11 in accordance with applicable law.  
This certificate is assigned Confirmation Number 10383131 .



Secretary of State of the State of Colorado

\*\*\*\*\*End of Certificate\*\*\*\*\*

Notice: A certificate issued electronically from the Colorado Secretary of State's Web site is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Validate a Certificate page of the Secretary of State's Web site, <http://www.sos.state.co.us/biz/CertificateSearchCriteria.do> entering the certificate's confirmation number displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate. For more information, visit our Web site, <http://www.sos.state.co.us/> click "Businesses, trademarks, trade names" and select "Frequently Asked Questions."

**BID PROPOSAL**

**PROJECT:** Wells CR-15R and CR-16R Drilling, Completion and Equipping Project

1. In compliance with your Invitation to Bid, and subject to all conditions thereof, the undersigned:

Hydro Resources - Rocky Mountain, Inc.

a Corporation incorporated in the State of Delaware

-OR- \_\_\_\_\_, a partnership, / limited partnership, (select one), registered in the State of \_\_\_\_\_, whose general partner(s) is/are \_\_\_\_\_

-OR-

a sole proprietor, whose trade name is \_\_\_\_\_

in the Town of \_\_\_\_\_, State of \_\_\_\_\_, offers this Bid Proposal for the construction of all items listed at the prices shown on the following Bid Schedule. *(The attached Bid Schedule lists the various divisions of construction contemplated in the Plans and Specifications, together with an estimate of the units of each. With these units as the basis, extend each item, using the cost inserted in the unit column. Any total cost found inconsistent with the unit cost when the Bids are examined will be deemed in error and corrected to agree with the unit cost. Alternate Bids are optional.)*

2. The undersigned Bidder declares and stipulates that this Bid is made in good faith, without collusion or connection with any other person or persons bidding for the same Work, and that it is made subject to all the terms and conditions of the Invitation to Bids, Information and Instruction for Bidders, and Construction Contract General Conditions, the Agreement for a Construction Contract, the Technical Specifications, and the Plans pertaining to the Work to be done, all of which have been examined by the undersigned.

3. Accompanying this Bid is a Bid Guarantee for 5% of the total Bid amount according to the Invitation to Bids and Information and Instructions to Bidders.

4. The undersigned Bidder agrees to execute the Agreement for a Construction Contract, a Performance Bond and a Labor and Material Payment Bond within ten days from the date when the written Notice of Award is delivered at the address given on this Bid Proposal. The Performance Bond and Labor and Material Payment Bond shall each be for the amount of the total of this Bid and shall be from the same surety. The name and address of the corporate surety through which the Bidder proposes to furnish the specified Bonds is as follows: Arch Insurance, Bowen, Midette & Britt Agent - 1100 Poydras Street New Orleans, LA 70163

5. The submission of the Bid constitutes an agreement, and it shall not be withdrawn after the Bid Opening for a period of thirty days.

6. All the various phases of work enumerated in the Contract with individual jobs and overhead, whether specifically mentioned or not, are included by implication or appurtenance in the Contract. The Contractor shall perform all the various phases of work under one of the items listed in the Bid Schedule, irrespective of whether it is named in the Schedule.

7. Payment for the Work performed will be according to the Bid Schedule, subject to changes as provided in the Contract.

2017-09

8. The undersigned Bidder hereby acknowledges receipt of addenda numbers 1 through 1.

RETURN BID TO: TOWN OF CASTLE ROCK  
CASTLE ROCK WATER  
175 Kellogg Court  
Castle Rock, CO 80109

The undersigned, being familiar with the existing conditions on the project area affecting the cost of the Work and the Contract Documents, and having verified the quantities and the availability of materials and labor, hereby proposes to furnish all supervision, labor, materials, machinery, tools, appurtenances, equipment, supplies, and services, including utility and transportation service required to construct and complete the Project listed above, according to the Contract, within the time specified, and at the prices stated below. These prices are to cover all expenses incurred in performing the Work required under the Contract of which this Bid is a part.

*(The approximate quantities of Work to be completed in-place under the Contract are identified in the Bid Schedule and are for the purpose of comparing Bids. These quantities have been estimated and the quantities used are for the general information of the Bidder, representing the major items of the Work to be done. Minor details are not listed but shall be part of the complete Contract.)*

9. The undersigned agrees to hold firm the Bid for thirty days for the purpose of the Town reviewing the Bids and investigating the qualifications of the Bidders prior to award of Contract. Mutually agreed upon extensions of time may be made if necessary.

This proposal is submitted by:

CONTRACTOR: Hydro Resources Rocky Mountain, Inc.

BY: 

Jason Decker

ADDRESS: 13027 County road 18 Fort Lupton, CO 80621

TITLE: Drilling Manager

Attest:

SECRETARY: 

(if corporation)

DATE: January 18, 2018



# Hydro

resources

- Rocky Mountain, Inc.

January 17, 2018

To Whom It May Concern:

Jasen Decker in his capacity as Drilling Manager of Hydro Resources – Rocky Mountain, Inc. has authorization to sign bid documents as a representative of Hydro Resources Holdings, Inc. for the Castle Rock 15R & 16R project. Should you have any questions, please contact me at our corporate office.

Respectfully,

Mark McWatters  
Vice President of Operations  
2245 Texas Drive, Suite 250  
Sugar Land, TX 77479  
713-622-4033



2017-09

**BID SCHEDULE A**  
**CR-15R**  
**10-Inch Completion**

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>EXTENSION</u>
1.	Wellhead Completion	L.S.	1	\$ 650.00	\$ 650.00
2.	Mobilization and Cleanup	L.S.	1	\$ 86,910	\$ 86,910.00
3.	Drilling 16.0-inch Diameter	L.F.	1,380	\$60.00	\$ 82,800.00
4.	Casing			\$ -----	\$ -----
	a. 24-inch Diameter	L.F.	40	\$ 340.00	\$ 13,600.00
	b. 10-inch Diameter	L.F.	1,070	\$ 44.00	\$ 47,080.00
5.	Well Screen Assembly	L.F.	300	\$ 150.00	\$ 45,000.00
6.	Gravel Pack	L.F.	700	<del>\$ 36.00</del>	<del>\$ 25,200.00</del>
7.	Grout Seal	L.F.	680	\$ 43.00	\$ 29,240.00
8.	Well Development	HR.	52	\$ 450.00	\$ 23,400.00
9.	Geophysical Logging (resistivity, single point resistance, natural gamma, and caliper, at a minimum)	L.S.	1	\$ 9,340	\$ 9,340.00
10.	Well Pumping Test Tests Supply & Install Equipment	L.S.	1	\$ 17,995	\$ 17,995.00
	a. 8 - hour Step Test	L.S.	1	\$ 1,480	\$ 1,480.00
	b. 72- hour Pumping test	L.S.	1	\$ 13,320	\$ 13,320.00
11.	Disinfection	L.S.	1	\$ 1,015	\$ 1,015.00
12.	Video Survey	L.S.	1	\$ 1,425	\$ 1,425.00
13.	Video Survey - Additional Pass	L.S.	1	\$ 1,425	\$ 1,425.00
14.	Pitless Wellheads	L.S.	1	\$ 14,900	\$ 14,900.00
15.	Provide Submersible Pump & Equip (Include descript)	L.S.	1	\$ 76,140	\$ 76,140.00
16.	Nominal 4.5 inch Pump Column Drop Pipe	L.F.	1,200	\$ 9.18	\$ 11,016.00
17.	Install Submersible Pump & Equipment	L.S.	1	\$ 5,275	\$ 5,275.00
18.	Adjustable Frequency Drives Include description	L.S.	1	\$ 22,770	\$ 22,770.00
19.	Abandon Existing CR15	L.S.	1	\$ 10,900	\$ 10,900.00

Rev: 6-22-2010

MTT 1-25-18  
H&C

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BID SCHEDULE A- ContinuedCR-16R10-Inch Completion

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>EXTENSION</u>
1.	Wellhead Completion	L.S.	1	\$ 650	\$ 650.00
2.	Mobilization and Cleanup	L.S.	1	\$ 46,260	\$ 46,260.00
3.	Drilling 16-inch Diameter	L.F.	690	\$ 60.00	\$ 41,400.00
4.	Casing			\$ -----	\$ -----
	a. 24-inch Diameter	L.F.	40	\$ 340.00	\$ 13,600.00
	b. 10-inch Diameter	L.F.	450	\$ 44.00	\$ 19,800.00
5.	Well Screen Assembly	L.F.	230	\$ 115.00	\$ 26,450.00
6.	Gravel Pack	L.F.	465	\$ <del>36.00</del>	\$ <del>16,740.00</del>
7.	Grout Seal	L.F.	225	\$ 54.00	\$ 12,150.00
8.	Well Development	HR.	52	\$ 450.00	\$ 23,400.00
9.	Geophysical Logging (resistivity, single point resistance, natural gamma, and caliper, at a minimum)	L.S.	1	\$ 9,340	\$ 9,340.00
10.	Well Pumping Test Tests Supply & Install Equipment	L.S.	1	\$ 12,955	\$ 12,955.00
	a. 8 - hour Step Test	L.S.	1	\$ 1,200	\$ 1,200.00
	b. 72- hour Pumping test	L.S.	1	\$ 10,800	\$ 10,800.00
11.	Disinfection	L.S.	1	\$ 470	\$ 470.00
12.	Video Survey	L.S.	1	\$ 900	\$ 900.00
13.	Video Survey - Additional Pass	L.S.	1	\$ 900	\$ 900.00
14.	Pitless Wellheads	L.S.	1	\$ 14,600	\$ 14,600.00
15.	Provide Submersible Pump & Equip (Include descript)	L.S.	1	\$ 18,280	\$ 18,280.00
16.	Install Submersible Pump & Equipment	L.S.	1	\$ 3,735	\$ 3,735.00
17.	Nominal 3.0 inch Pump Column Drop Pipe	L.F.	600	\$ 11.64	\$ 6,984.00
18.	Adjustable Frequency Drives Include description	L.S.	1	\$ 17,785	\$ 17,785.00
19.	Abandon Existing CR16	L.S.	1	\$ 6,980	\$ 6,980.00

Rev: 6-22-2010

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2017-09

DRILLING TOTAL (IN WORDS) (~~\$846,260~~) Eight hundred, forty six thousand, two hundred and  
sixty dollars and 00/100 cents (\$804,320) Eight hundred and four thousand,  
two hundred and twenty dollars and 00/100 cents

MT  
1-25-18

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**MANDATORY ALTERNATE ITEMS (Must be bid)**

**REQUIRED ALTERNATE ITEMS**

<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>EXTENSION</u>
GESC Permitting and Implementation	L.S.	1	\$ 5,000	\$ 5,000.00
Drilling Cuttings Removal	L.S.	1	\$ 13,200	\$ 13,200.00
Drilling Hourly Rate (Lost Circulation and Low Penetration Rate)	HR.	1	\$ 650.00	\$ 650.00
Drilling Mud/Fluids Removal	L.S.	1	\$ 53,800	\$ 53,800.00
Road Maintenance	L.S.	1	\$ 5,000	\$ 5,000.00
Step up Transformer	L.S.	2	\$ 13,195	\$ 26,390.00
One hour coordination meetings	HR.	3	\$ 250.00	\$ 750.00
Water Supply provide backflow meter	Allowance	1	\$ 10,000	\$ 10,000
Startup for 15R and 16R at Facility Completion	L.S.	1	\$ 1,110	\$ 1,110.00
Sound Mitigation (460 linear feet of 16-foot high, and 220 linear feet of 24-foot high acoustical barrier)	L.S.	1	\$ 120,300	\$ 120,300.00*

MANDATORY REQUIRED ALTERNATE ITEMS  
TOTAL

\$ 236,200.00

Two hundred, thirty six thousand, two hundred and 00/100 cents

\* Sound Mitigation is based on 3 month rental

*MS 1-25-18*  
*JD*

2017-09

MANDATORY ALTERNATE ITEMS (Must be bid)

*OPTIONAL ALTERNATE ITEMS (Will be decided before contract award)*

Well CR-15R Filter Pack Alternatives

Alternative #1:

Sigmond Linder Glass Beads	M.T.	13	\$ 2,650	\$ 34,450.00
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Gravel Pack	L.F.	400	\$ 40.00	\$ 16,000.00
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Alternative #2:

Sigmond Linder Glass Beads	M.T.	28	<del>\$ 2,650</del>	<del>\$ 74,200.00</del>
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*Hff MTS 1-25-18*

Well CR-16R Filter Pack Alternatives

Alternative #1:

Sigmond Linder Glass Beads	M.T.	16	\$ 2,650	\$ 42,400.00
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Gravel Pack	L.F.	235	\$ 40.00	\$ 9,400.00
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Alternative #2:

Sigmond Linder Glass Beads	M.T.	29	<del>\$ 2,650</del>	<del>\$ 76,850.00</del>
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*Hff MTS 1-25-18*

Cleaning and Epoxy Coating (pump. discharge column pipes)	L.S.	1	\$ 28,765	\$ 28,765.00
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Nuclear Magnetic Resonance Logging	L.S.	2	\$ 35,000	\$ 70,000.00
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Gyroscopic Plumbness and Alignment Logging	L.S.	1	<del>\$ 5,000</del>	<del>\$ 5,000.00</del>
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*Hff MTS 1-25-18*

Zonal Water Sampling and Falling Head Tests	L.S.	7	<del>\$ 20,600</del>	<del>\$ 144,200.00</del>
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*Hff MTS 1-25-18*

MANDATORY OPTIONAL ALTERNATE ITEMS TOTAL

~~\$ 501,265.00~~

\$ 201,015

*Hff MTS 1-25-18*

MANDATORY REQUIRED AND MANDATORY OPTIONAL ALTERNATE ITEMS SUBTOTAL  
(IN WORDS)

~~(737,465) seven hundred, thirty seven thousand, four hundred and sixty five dollars and 00/100 cents~~

~~(437,215) four hundred and thirtyseven thousand, two hundred and fifteen dollars and 00/100 cents~~

*Hff MTS 1-25-18*

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**TOTAL PROJECT BID (IN WORDS)**

~~(\$1,583,725) one million, five hundred eighty three thousand, seven hundred and twenty five dollars and 00/100 cents~~

(\$1,241,535.00) one million, two hundred forty-one thousand, five hundred and thirty-five dollars and 00/100 cents

Notes:

L.S. Lump Sum

L.F. Linear Feet

H.R. Hours

M.T. Metric Tons

MT  
1-25-18

**BIDDER'S QUALIFICATIONS AND DATA**

All questions must be answered clearly and comprehensively. If necessary, separate sheets may be attached. The Bidder may submit additional information.

1. Name of Bidder: Hydro Resources Rocky Mountain, Inc.
2. Permanent main office address:  
13026 County Road 18  
Fort Lupton, CO 80621
3. Phone: 303.857.7540 Fax # 303.857.3826
4. Bidder's federal tax identification number 56-2306568
5. The Bidder is organized as a Corporation
6. The date the Bidder was organized in its current form: January 2010
7. If a corporation, the state where it is incorporated: Delaware
8. How many years have you been engaged in the contracting business under your present firm or trade name?
9. Contract(s) on hand: (Schedule these, showing amount of each contract and the appropriate anticipated dated of completion.)
 

Job: <u>Central Utah Water Conservancy District</u>	\$: <u>7,651,200.00</u>	Completion Date: <u>Fall 2018</u>
Job: <u>Cherokee Metro District</u>	\$: <u>838,930.00</u>	Completion Date: <u>Spring 2018</u>
Job: <u>Chapel Hill Cemetery</u>	\$: <u>276,027.00</u>	Completion Date: <u>Winter 2018</u>
Job: <u>Town of Castle Rock</u>	\$: <u>1,490,455.00</u>	Completion Date: <u>Spring 2018</u>
10. General character or work performed by your company:  
Well Drilling, Construction/Completion, Permanent Equipment Installation, Testing, Development, Controls Design & Installation
11. Have you ever been debarred or suspended by a government from consideration for the award of contracts? No If so, where and why?
12. Have you ever been charged liquidated damages on a contract? No If so, where and why?
13. List your major equipment AVAILABLE FOR THIS PROJECT: Please see attached documents
14. Experience in construction work similar in contract price to this project.
 

a.	Job/\$ <u>Central Utah Water Conservancy District 5 Well Project</u>	/ <u>\$8,642,300.00</u>
	Contact Name/Phone <u>Hansen Allen &amp; Luce William Bigelow 801.566.5599</u>	

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b. Job/\$ Milrace-Wirthlin, UT Production - Exploratory Wells (2) / \$1,299,500.00

Contact Name/Phone Caldwell Richard Sorenson Mark Chandler 801.359 5565

c. Job/\$ Sterling Ranch Water LLC / \$1,047,096.00

Contact Name/Phone JDS Hydro Consultants Mark Volles 719 227.0072

15. Background and experience of the principal members of your organization, including officers:

Alton Cherry, President & CEO  
Mark McWatters, Vice President/Operations  
Michael John Taylor, Region Manager - See attached CV  
Jasen Decker, Drilling/Project Manager - See attached CV  
Shelby Rader, Drilling Rig Supervisor - See attached CV

16. Bonding Limit: \$ 25,000,000.00

17. Bonding Company: Arch Insurance Company Phone # 504.599.8817

Address: 2711 North Haskell Avenue Ste. 500 Dallas, TX 75204  
Contact Rita Gulizo

18. Bank Reference(s):

Amegy Bank of Texas Contact: Brian Schexnader 713 232.1029  
P.O. Box 27459  
Houston, TX 77227

19. Will you, upon request, complete a detailed financial statement and furnish any other information that may be required by the Town of Castle Rock? Yes

20. The undersigned hereby authorizes and requests any person, firm or corporation to furnish any information requested by the Town of Castle Rock in verification of the recitals in this statement of Bidder's Qualifications and Data.

CONTRACTOR: Hydro Resources Rocky Mountain, Inc.

ADDRESS: 13026 County road 18 Fort Lupton, CO 80621

Attest:

SECRETARY: *Kim Lonas*  
(if corporation)

BY: *Jasen Decker*

ITS: Drilling Manager Jasen Decker  
Title

DATE: 01/18/2018



2017-09

**BIDDER'S OFFICIALS DATA**

Bidder's name Hydro Resources Rocky Mountain, Inc.

For each officer of a corporation, partner of a firm, or owner of a sole proprietorship, provide the following information: (Use additional sheets as necessary.)

Name Alton Cherry

Title CEO

Home address 22051 Rustic Canyon Lane

Town, State, Zip Richmond, TX 77469

Other companies with whom this person has been affiliated in last 10 years \_\_\_\_\_

Has that company ever been disbarred or suspended from participation in the award of contracts with a government? No

Name Albert Mark McWatters

Title Vice President of Operations

Home address 21527 Aurora Park Drive

Town, State, Zip Richmond, TX 77406

Other companies with whom this person has been affiliated in last 10 years \_\_\_\_\_

Has that company ever been disbarred or suspended from participation in the award of contracts with a government? No

Name Justin Trurig

Title Vice President of Finance

Home address 2706 Pecan Court

Town, State, Zip Missouri City, TX 77459

Other companies with whom this person has been affiliated in last 10 years \_\_\_\_\_

Has that company ever been disbarred or suspended from participation in the award of contracts with a government?

Name \_\_\_\_\_

Title \_\_\_\_\_

Home address \_\_\_\_\_

Town, State, Zip \_\_\_\_\_

Other companies with whom this person has been affiliated in last 10 years \_\_\_\_\_

Has that company ever been disbarred or suspended from participation in the award of contracts with a government?

2017-09

BID BOND

Hydro Resources - Rocky Mountain, Inc.  
(insert the full name and address or legal title of the Contractor) as Principal,  
and, Arch Insurance Company  
(insert the legal title of the Surety) as Surety, a corporation organized under the laws of the State of  
Missouri, and authorized to transact business in the State of Colorado, with a general  
office  
at Harborside 3, 210 Hudson St., Suite 300, Jersey City, NJ 07311-1107  
are hereby bound to the Town of Castle Rock, Colorado, (Town) as Obligee, in the amount of  
Five Per Cent of the Greatest Amount Bid - (\$5% G.A.B.) DOLLARS, in United States currency, for the payment of which  
amount the Contractor and Surety bind themselves, their heirs, executors, administrators, successors,  
and assigns, jointly and severally. The Principal has submitted the accompanying Bid dated January 18  
2018,  
For construction of the Wells CR-15R and CR-16R Drilling, Completion and Equipping Project contract.

The Town requires, as a condition for receiving the Bid, that the Principal deposit with the Town a Bid Guaranty, of at least five percent of the amount of the Bid, conditioned so that if the Principal fails to execute the Agreement for Construction Contract, and furnish the required Bonds if the Principal is awarded the Contract, that the sum be paid immediately to the Town, as liquidated damages and not as a penalty, for the Principal's failure to perform.

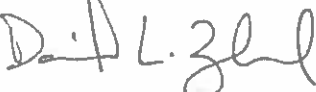
If the Principal, within the specified period, executes the Agreement for Construction Contract with the Town according to the Bid, as accepted, and furnishes a Performance Bond and a Labor and Material Payment Bond with good and sufficient Surety or Sureties, upon the forms prescribed by the Town for the faithful performance and proper fulfillment of the Contract, or pays to the Town the proper amount of liquidated damages, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

Executed this 17th day of January, 2018.

WITNESS



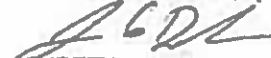
WITNESS



David L. Zabel, Witness

PRINCIPAL Hydro Resources - Rocky Mountain, Inc.

By its ~~President~~ Drilling manager



SURETY Arch Insurance Company

TITLE

BY:   
Its Attorney-in-fact, Richard Morgan

\*\*PLEASE SEE ATTACHED ACKNOWLEDGMENT\*\*

I, \_\_\_\_\_, certify that I  
am the \_\_\_\_\_ (title) of the Corporation named as Surety; that  
\_\_\_\_\_, Who signed the bond on behalf of the Principal, was  
then \_\_\_\_\_ (title) of the Corporation; that I know his or her signature, and the signature  
thereto is genuine; and that the bond was duly signed, sealed, and attested to for and on behalf of the  
Corporation by authority of this governing body.

(CORPORATE SEAL)

Signed: \_\_\_\_\_  
Title: \_\_\_\_\_

**THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON BLUE BACKGROUND.**

*This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated. Not valid for Mortgage, Note, Loan, Letter of Credit, Bank Deposit, Currency Rate, Interest Rate or Residential Value Guarantees.*

## POWER OF ATTORNEY

Know All Persons By These Presents:

That the Arch Insurance Company, a corporation organized and existing under the laws of the State of Missouri, having its principal administrative office in Jersey City, New Jersey (hereinafter referred to as the "Company") does hereby appoint:

Richard Morgan of Greenwood Village, CO

its true and lawful Attorney(s)-in-Fact, to make, execute, seal, and deliver from the date of issuance of this power for and on its behalf as surely, and as its act and deed:

Any and all bonds, undertakings, recognizances and other surety obligations, in the penal sum not exceeding Ninety Million Dollars (\$90,000,000.00).

This authority does not permit the same obligation to be split into two or more bonds in order to bring each such bond within the dollar limit of authority as set forth herein.

The execution of such bonds, undertakings, recognizances and other surety obligations in pursuance of these presents shall be as binding upon the said Company as fully and amply to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal administrative office in Jersey City, New Jersey.

This Power of Attorney is executed by authority of resolutions adopted by unanimous consent of the Board of Directors of the Company on September 15, 2011, true and accurate copies of which are hereinafter set forth and are hereby certified to by the undersigned Secretary as being in full force and effect:

"VOTED, That the Chairman of the Board, the President, or the Executive Vice President, or any Senior Vice President, of the Surety Business Division, or their appointees designated in writing and filed with the Secretary, or the Secretary shall have the power and authority to appoint agents and attorneys-in-fact, and to authorize them subject to the limitations set forth in their respective powers of attorney, to execute on behalf of the Company, and attach the seal of the Company thereto, bonds, undertakings, recognizances and other surety obligations obligatory in the nature thereof, and any such officers of the Company may appoint agents for acceptance of process."

This Power of Attorney is signed, sealed and certified by facsimile under and by authority of the following resolution adopted by the unanimous consent of the Board of Directors of the Company on September 15, 2011:

VOTED, That the signature of the Chairman of the Board, the President, or the Executive Vice President, or any Senior Vice President, of the Surety Business Division, or their appointees designated in writing and filed with the Secretary, and the signature of the Secretary, the seal of the Company, and certifications by the Secretary, may be affixed by facsimile on any power of attorney or bond executed pursuant to the resolution adopted by the Board of Directors on September 15, 2011, and any such power so executed, sealed and certified with respect to any bond or undertaking to which it is attached, shall continue to be valid and binding upon the Company.

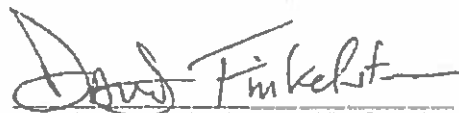
In Testimony Whereof, the Company has caused this instrument to be signed and its corporate seal to be affixed by their authorized officers, this 19<sup>th</sup> day of November, 2015.

Attested and Certified

Arch Insurance Company

  
Patrick K. Nails, Secretary

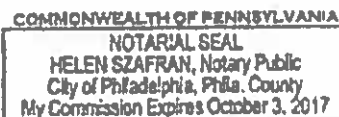


  
David M. Finkelstein, Executive Vice President

STATE OF PENNSYLVANIA SS

COUNTY OF PHILADELPHIA SS

I, Helen Szafran, a Notary Public, do hereby certify that Patrick K. Nails and David M. Finkelstein personally known to me to be the same persons whose names are respectively as Secretary and Executive Vice President of the Arch Insurance Company, a Corporation organized and existing under the laws of the State of Missouri, subscribed to the foregoing instrument, appeared before me this day in person and severally acknowledged that they being thereunto duly authorized signed, sealed with the corporate seal and delivered the said instrument as the free and voluntary act of said corporation and as their own free and voluntary acts for the uses and purposes therein set forth.

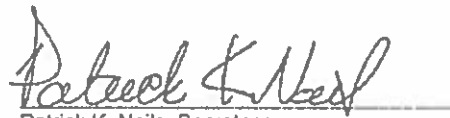


  
Helen Szafran, Notary Public  
My commission expires 10/03/2017

#### CERTIFICATION

I, Patrick K. Nails, Secretary of the Arch Insurance Company, do hereby certify that the attached Power of Attorney dated November 19, 2015 on behalf of the person(s) as listed above is a true and correct copy and that the same has been in full force and effect since the date thereof and is in full force and effect on the date of this certificate; and I do further certify that the said David M. Finkelstein, who executed the Power of Attorney as Executive Vice President, was on the date of execution of the attached Power of Attorney the duly elected Executive Vice President of the Arch Insurance Company.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the Arch Insurance Company on this 17<sup>th</sup> day of January, 2018.

  
Patrick K. Nails, Secretary

This Power of Attorney limits the acts of those named therein to the bonds and undertakings specifically named therein and they have no authority to bind the Company except in the manner and to the extent herein stated.

PLEASE SEND ALL CLAIM INQUIRIES RELATING TO THIS BOND TO THE FOLLOWING ADDRESS:

Arch Insurance – Surety Division  
3 Parkway, Suite 1500  
Philadelphia, PA 19102

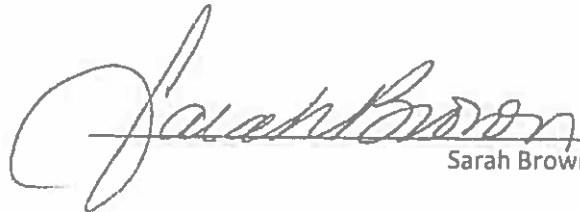
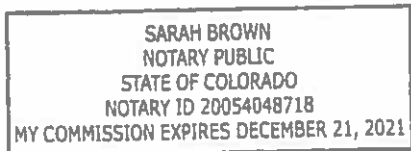


## Surety Acknowledgement

THE STATE OF COLORADO

COUNTY OF ARAPAHOE

This instrument was acknowledged before me on the 17<sup>th</sup> day of January, 2018  
by Richard Morgan as Attorney In Fact of Arch Insurance Company  
a Missouri corporation, in behalf of said corporation.



Sarah Brown

Notary Public – State of Colorado

Commission Expires: December 21, 2021

2017-09

NON-COLLUSION AFFIDAVIT OF PRIME BIDDER

State of Colorado )  
County of Weld ) ss

that: Jasen Decker  
(Insert name)

, Being duly sworn deposes and says

1. he/she is the Drilling Manager (Title) of Hydro Resources-Rky MTN  
the Bidder that has submitted the attached Bid;

2. He/She is fully informed respecting the preparation and content of the attached Bid and of all pertinent circumstances respecting such Bid;

3. Such Bid is genuine and is not a collusive or sham Bid;

4. Neither the Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, subcontractor, mechanic, materialman, suppliers, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted, or to refrain from bidding in connection with such Contract, or has in any manner, directly or indirectly, sought agreement, collusion, communication or conference in the attached Bid or any other Bidder, or to fix any overhead, profit or cost element of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the Town of Castle Rock or any person interested in the proposed Contract; and

5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees or parties in interest, subcontractor, mechanic, materialman, suppliers, including this affiant.

CONTRACTOR: Hydro Resources Rocky Mountain, Inc. BY: Jasen Decker

ADDRESS: 13027 CR 18 Fort Lupton, CO 80621

TITLE: Drilling Manager

Attest:

SECRETARY: [Signature]

(If corporation)

DATE: January 18, 2018

(SEAL)

BRITTNEY LEFFORGE  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID 20174041564  
MY COMMISSION EXPIRES OCTOBER 05, 2021

Brittney Lefforge

### SUBCONTRACTORS AND RELATED DATA

For each Subcontractor to be utilized please provide the following information (use additional sheets as necessary):

Firm Name: Beharens & Associates

Address: 9536 E. I-25 Frontage Road Longmont, CO 80504 970.535.9000

Proposed work and percentage of total work to be assigned: Conductor Drilling  
Percentage 5 %

Firm Name: Ludwig Drilling

Address: 704 Topeka Way Castle Rock, CO 80109 303.932.7500

Proposed work and percentage of total work to be assigned: Sound Wall Installation  
Percentage 1.5 %

Firm Name: Schlumberge

Address: 9251 E. 104th Avenue Henderson, CO 303.439.5500

Proposed work and percentage of total work to be assigned: NMR Logging  
Percentage 1 %

Firm Name: Basic Energy

Address: Fort Morgan, CO 720.937.3287

Proposed work and percentage of total work to be assigned: Cementing  
Percentage 5 %

Firm Name: COLOG

Address: 810 Quail Street Ste. E Lakewood, CO 80215 303.279.0171

Proposed work and percentage of total work to be assigned: Gyro Logging  
Percentage 1 %

Firm Name: PSI

Address: PioneerEnergy Service Hays, KS 785.625.3858

Proposed work and percentage of total work to be assigned: Standard Logging  
Percentage 1 %

Firm Name: O'Brien Pumping Company

Address: 4388 Windermere Street Englewood, CO 80110 303.778.7474

Proposed work and percentage of total work assigned: Cement pumping for well abandonment. Percentage 1 %

*Reviewed*  
*JD*  
*1-12-18*

**TOWN OF CASTLE ROCK  
RESPONSE TO  
REQUESTS FOR CLARIFICATION  
NUMBER 1  
FOR RFP NO. 2017-09  
February 12, 2018**

1. When can the project start and when is the final completion?

**Response:** The project will go to Council on February 6, 2018. Assuming Council approval, the project will be awarded on February 7, 2018. Construction can begin with the Notice to Proceed, likely to be February 21, 2018. The Contractor must begin work covered by the Contract within 14 calendar days, and must complete work within 131 days from the date of Notice to Proceed, according to the General Conditions. **The target date for completion of Work is July 2, 2018.** The Town will work with the Contractor to adjust the completion date based on reasonable conditions encountered. *JD*

2. Will additional site land be available for equipment/storage beyond what is designated in the sound wall configuration?

**Response:** There is some space to the east of the Miller Water Treatment plant than can be used for equipment storage and along the south of the access road by the generator and VFD enclosure. Castle Rock Water staff will work with the HOA on gaining a temporary easement for storage on their site to the south.

3. What special considerations will need to be taken to get the water from the fire hydrant that is in the residential neighborhood adjacent to the site?

**Response:** There is fire flow in the adjacent building that will be used for water instead of the fire hydrant in the residential neighborhood. (See Photo 1, below) The connection will need to have a backflow preventer and meter and will need layflat hose to the pit.

4. Will changes to the contract terms and conditions be allowed? If so, how will this be handled?

**Response:** All desired changes to the contract and conditions will need to be submitted to Castle Rock Water for consideration and review through the Town of Castle Rock's Legal Department.

5. Where will the test water be discharged to?

**Response:** The test water will be discharged into the golf course pond to the east or through a lay-flat hose into a stormwater outlet manhole west of the Miller Treatment Plant. Castle Rock Water staff will work with successful bidder and determine which of the two options will occur. At this time assume that we will need a discharge permit and staff will help with the mapping.

6. The bid documents state earthen and steel above grade pits for drilling operations. Are both allowed or not?

**Response:** Steel above grade pits will need to be used on this site.

7. Are there any driller's logs available?

**Response:** Please see the attached driller's logs and completion reports for 15, 16 and 14R.

8. What additional information is available for the 15 and 16 to be abandoned?



**Response:** Well 15 is lined and the inside diameter is reduced to seven inches near the screen section. Town staff suspect that the casing is also offset in the screen section. Well 16 is lined and the inside diameter is reduced to six inches. Both wells have filled in aquifer and filter pack material. For bidding purposes, assume that the wells are at original completion size.

9. What are the VFD requirements?

**Response:** Driller supplies the VFD and an electrician (under separate contract) will install during the next phase of the project.

10. When will decision to use glass beads be made?

**Response:** The decision will be made after the bids are in.

11. Can the existing wells be abandoned first?

**Response:** Yes.

12. What is the bedrock and type and is there hard rock anticipated during the surface casing drilling?

**Response:** Depth to bedrock is approximately 40 to 45 feet. Bedrock is Dawson Arkose (interbedded sandstones, siltstones and claystones). Please see attached drilling logs for more information.

13. Does the Contractor supply the VFDs?

**Response:** Yes, the drilling Contractor will supply the VFDs for each of the wells. There are two cabinets available inside the Miller treatment plant. Castle Rock water staff will demo/salvage the existing equipment in the two cabinets. The following table shows the dimensions of the two cabinets: (see Photo 2 and 3)

Height	Approximately 6 feet
Width	18 inches
Depth	14 inches

14. Will the project site need to be reseeded?

**Response:** No, reseeded will occur as part of the second phase of the project, under a separate contract.

15. Please clarify that the column pipe lengths can be in more than 20' in length?

**Response:** Yes

16. What are the revised pump requirements?

**Response:** The pump requirements below will allow water to be pumped to the Plum Creek Water Purification Facility.

	CR-15R	CR-16R
Flow (GPM)	200	100
Head (FT)	1530	835



**Photo 1** Connection to water supply from building



**Photos 2 and 3** Existing cabinets

**Attachments**

1. Revised Contract Documents
2. 14R Soil boring log
3. Well 15 Completion Report
4. Well 16 Completion Report

## SAMPLE CONTRACT FORMS

### INDEX

AGREEMENT FOR A CONSTRUCTION CONTRACT  
CHANGE ORDER  
CONTRACTOR'S CERTIFICATE AND RELEASE  
PERFORMANCE BOND  
LABOR AND MATERIAL PAYMENT BOND  
NOTICE OF AWARD  
NOTICE TO PROCEED  
NOTICE OF SUBSTANTIAL COMPLETION  
NOTICE OF CONSTRUCTION COMPLETION  
REQUEST FOR PAYMENT  
NOTICE OF FINAL ACCEPTANCE



# Hydro

resources - Rocky Mountain, Inc.

JASEN G. DECKER, Drilling Manager

Hydro Resources – Rocky Mountain, Inc. – Fort Lupton, Colorado

Education –

Mesa State College (1998-2003) Bachelor of Science Degree in Environmental Geology (Honors), focus on hydrogeology and environmental geology, minor in Geographic Information Systems/Global Positioning Systems.

New Mexico Institute of Mining and Technology – (Summer 2003) summer studies - Hydrology graduate program

Professional Summary

Mr. Decker has 19 years' experience in the water industry in domestic commercial and surface water. He has been involved in well design, construction and testing, data collection and data base establishment, field modeling, drill cutting sample sieve analyses for well designs. Drilling experience includes auger, air rotary, mud rotary, casing hammer, reverse rotary and soils drilling techniques, and is a qualified CDL Operator.

1996-1998 Beylik Drilling – Rio Rancho, New Mexico – Drilling rig hand, Driller – Drilling rig hand/helper on various drilling rigs, methods including conventional/reverse mud rotary, air, casing hammer, auger – Driller/operator casing hammer, auger and reverse circulation drilling rigs.

1998-2008 WestWater Associates, Inc. – Montrose, Colorado – Environmental Geologist – geologic/hydrogeologic mapping, water availability studies, contract/specification development and management, well drilling/construction/testing supervision, data collection, testing analysis, surface water studies, and reporting of findings

2008-2010 Tri County Water Conservancy District – Montrose, Colorado – Project Management – 14 mile Pipeline Replacement Project – design review and project design assistant, property easement negotiations and legal filing, GESC permitting and implementation, construction and testing supervision

2010-Current Hydro Resources – Rocky Mountain, Inc. – Fort Lupton, Colorado – Project Management, Drilling Manager – Commercial/Municipal Water Well Construction supervision – drilling project estimator, contract negotiations, project management, materials ordering and coordination, client relations, billing and contract closeout.

**Name:**

M. John Taylor

**Summary:**

Over ten years' experience in organization of employees and necessary duties to maintain customer relationship. Invoicing, payment collection, coordinating crews and reviewing necessary corporate reports while maintaining honesty and integrity and performing duties in a timely and efficient manner.

**Education/Training:**

WEST TEXAS A&M UNIVERSITY, *Bachelor of General Studies*

Class A Commercial Driver's License, State Drillers & Pump Installers License for Texas (56041KPT), Colorado (1472), Wyoming (COP1101) (COWD129), Utah (866), New Mexico (ES10-385467) and Nebraska (29433), Federal Explosives License holder Efficient in Microsoft Office Suite  
Trustworthy and Dependable to perform duties. Proficient in customer relations and employee relations

**Experience:****Hydro Resources-West, Inc. – Regional Manager**

2013– Present, Rocky Mountain

- Responsible for contract review and editing
- Review A/R and A/P
- Communicate and meet with customers in a cordial professional manner
- Communicate with subordinates and maintain cooperate policy
- Ensure that all jobs are done timely and efficiently

**Hydro Resources-West, Inc. – AG Manager**

2012-2013, Rocky Mountain

- Responsible for the formation and equipping of the new agriculture pump division for Rocky Mountain
- Review billing for jobs performed
- Issue purchase orders and communicate with vendors
- Order necessary inventory items
- Build customer base by communication and doing job in a timely and cost efficient manner

**Hydro Resources-West, Inc. – Branch Manager**

2003-2011, Rocky Mountain

- Led Hereford branch in showing a profit within one year of taking over duties.
- Fulfilled municipal contracts within time allowed while maintaining necessary paperwork.
- Organized field crews to perform daily tasks as quickly and efficiently as possible.



# Hydro

resources

Rocky Mountain, Inc. & West, Inc.

- Review the daily invoicing for jobs ensuring that all inventory used was accounted for and priced correctly.
- Order replacement materials from vendors at the best price and the best quality.

## **Public Water Jobs Completed:**

- Renew Strategies, Hudson CO, refurbished and installed pumping equipment in eight existing wells. G.C. Stan Javernick – Hydro Construction 310-225-2211
- City of Hereford, TX Drilled, tested and installed pumps in 10 new wells. Engineering firm: Parkhill, Smith and Cooper Engineer: Zane Edwards 806-473-2200
- City of Canyon, TX Drilled, tested and installed pumps in 7 new wells. Engineering firm: Brandt Engineers Engineer: Kyle Schneiderjan 806-353-7233
- City of Amarillo, TX Drilled, tested 17 new wells. Engineering firm: Daniel B. Stevens Engineer: Robert Gray 505-822-9400
- City of Dimmitt, TX Drilled, tested and installed pumps in 2 new wells. Engineering firm: Parkhill, Smith and Cooper Engineer: Eric Lopez 806-376-8600
- City of Vega, TX Drilled, tested and installed pump in new well. Engineering firm: Brandt Engineers Engineer: Kyle Schneiderjan 806-353-7233
- City of Amarillo, TX Drilled, tested and installed pumps in 6 new wells (Southwest Well Field) Engineering firm: Parkhill, Smith and Cooper Engineer: Scott Honeyfield 806-376-8600
- Cargill Meat Solutions Friona, TX Drilled, tested and installed pumps in 2 new wells. Engineering firm: Shaw Environmental Engineer: John Sullivan 432-681-2800

## **References:**

- Stan Javernick (Hydro Construction) 970-225-2211
- Courtney Hemenway (Hemenway Groundwater Engineering) 303-901-2287
- Theresa Jehn (Quantum Water) 720-626-7873
- Mario DiPasquale (JDS Hydro Consultants) 719-227-0072
- Dan Melcher (Melcher Farms) 307-331-0197
- Rich Cook (4D Farms) 307-331-2515
- Dave Dechant (Dechant Farms) 303-717-0060
- Grant Richie (Richie Land and Cattle) 970-799-7741
- Tracy Schmer (Commerce City) 303-944-7812
- David Richie (Bullz R Us) 970-302-9511
- Dave Dechant (Dechant Farms) 303-717-0060
- Frank Cnossen owner Cnossen Dairy 806-290-5111
- Scott Borman (JAM Farms and Mc6 Feedyard) 806-543-8038
- Cris Grotegut (Grotegut Farms) 806-344-5111
- Scott Hall (Circle 3 Feedyard & Century Feeders) 806-346-1007
- Bernie Huseman (Century Feeders) 806-344-4999
- Edwin Axe (Axe Farms) 806-335-0931
- Edward Allison (Allison Farms) 806-344-2176
- Tony Lawson (City of Canyon) 806-655-5011



# Hydro

resources - Rocky Mountain, Inc.

**SHELBY D. RADER**  
13256 DENEH DR.  
LITTLETON, CO 80124  
303-470-0478

## **EXPERIENCE**

### **Hydro Resources**

**Ft. Lupton**  
**8/2012 – Present**

- Rig Supervisor
- Supervising drilling operations and employees on 2 Challenger 320 rigs and a JED rig.
- Drilling wells in Colorado, Texas, Utah
- Responsible for time management and supply purchases
- Completed PEC Safety Awareness course 11/2013

### **Layne Christensen / Environmental**

**Denver CO**  
**7/2009 – 8/2012**

- Lead Driller
- Supervised 3 crews drilling water wells in Colorado, Texas, Utah, California, Nevada And New Mexico
- Received certifications for CPR, Safety, OSHA Training
- Attended Well Control School for oil field drilling

### **Hinkle Drilling**

**Ft. Lupton, CO**  
**5/2008 – 7/2009**

- Rig Supervisor
- Supervised drilling operations and daily work assignments of 9 employees on Challenger 320 rig
- Drilled wells in Utah, Texas and Colorado

### **Layne Christensen / Environmental**

**Woodland CA (and) Denver CO**  
**7/96 – 5/2008**

- Class R license
- 40 hours OSHA/MSHA Training
- Backhoe Operator
- Hydro Crane Operator
- Experienced with a variety of Hydraulic Power Tools
- Experienced in the use of Torque Tongs





# Hydro

resources - Rocky Mountain, Inc.

➤ Mechanically Inclined

Randy Smith Training Solutions- Qualification< Surface>  
Completion Date=15-Aug 2007 Expiration Date=15-Aug 2009  
Course level and Description-Drilling Supervisor

**INSTALLER & OPERATOR, Pump Department**

**1997 - 1999**

Set new pumps as well as pulling old pumps.

Equipment: Rocket-Franck's Explorer 3, 100 ton Work over rig.  
SEMCO 12 ton pump rig  
Smeal 5 ton pump rig  
Stinger Crain 5 ton  
ESP and Reda Electric Submersible Pump's down hole around 900' to 3000' for  
Water wells.

- Set and run test pumps using variable speed driven units with ESP. I have experience running pump test, step testing from the start to finish, used log plot to find average drawdown.

**DRILLING ASSISTANT, Drilling Operations**

**1999- 2005**

**DRILLER - OPERATOR**

**2005 -Present**

Equipment:	Challenger 320 75 ton Rig	Conventional & Air Assisted Reverse
	Challenger 360 - 100 ton Rigs	Conventional & Air Assisted Reverse
	Failing 2000 - 25 ton Rig	Conventional
	Denver Gardner 3000	Air Assisted Reverse
	Bucyrus Erie 58L	Cable Tool Rig
	CME	Auger rig

**George Dinsdale Construction Woodland CA**

**6/95 - 7/96**

- General Construction work including, but not limited to, metal and Wood siding, flooring, door hanging, window framing, roofing.

**Geise-Skipworth**

**Loveland CO**

**8/93 - 3/95**

- Post Frame Construction Buildings



# Hydro

*r e s o u r c e s* - Rocky Mountain, Inc.

- Red Iron Framing

**Rice Growers Associations**

**Woodland CA**

**8/90 – 8/93**

- Small bag line Operator
- Shipping and Receiving
- Fork Lift Operator

**Farmers Rice Co-Op**

**West Sacramento CA**

**9/89 – 9/90**

- Small bag line Operator

**Leer West**

**Woodland CA**

**8/88 – 8/89**

- Camper shell construction – assembly work and repair work

**REFERENCES**

Furnished upon request

**EDUCATION**

Woodland High, CA. High school diploma.



## Baker Hughes a GE Company

350 N. Cole Creek Dr. Evansville, WY 82636

Project: AutographPC example for gassy wells  
Customer: Unknown  
Well: Unknown  
Engineer: Unknown  
Country: USA  
State:  
County:  
Well API#:  
Reservoir Name:

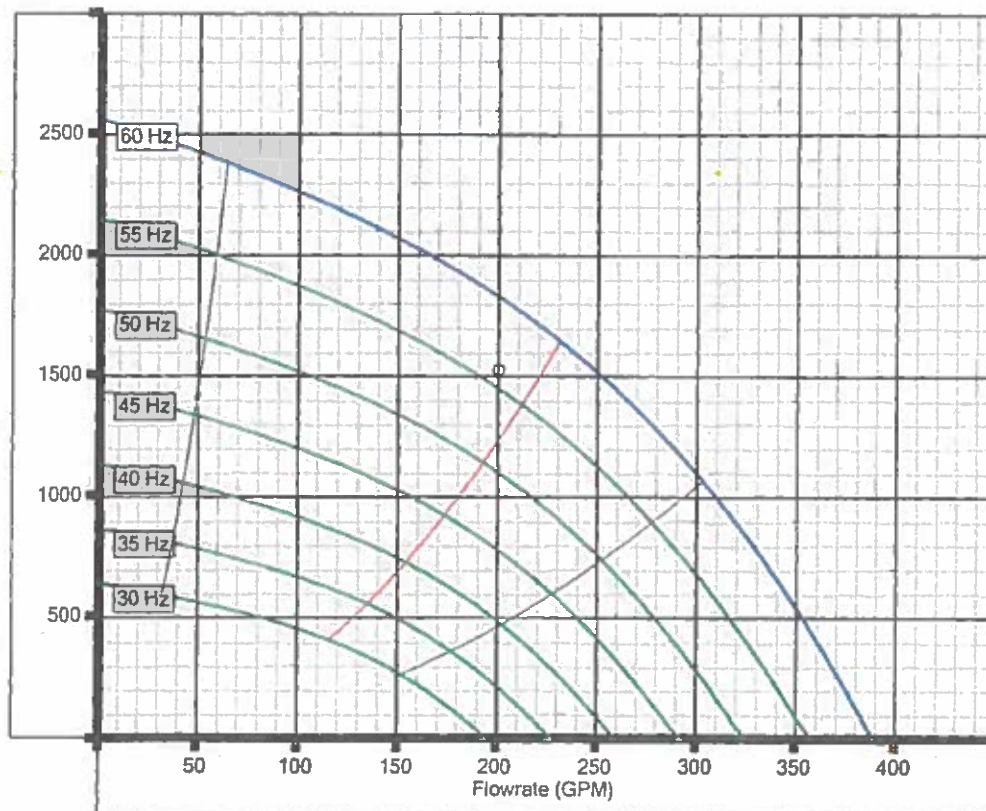
Pump: 34-538FLEX80SSD  
Seal: 513GSB3 DB  
Motor: 562XP\_ 100HP 1820V/ 34A (60 Hz)  
Cable: #4 CPNF 5kV ,8130ft  
MLE: #5 MLE-KLHT 5kV ,30 0ft  
Controller: VSD 2125-VT 130kVA 480V/ 167A  
Sensor: Centinel 3 STANDARD

### Comments:

This extra line only shows on reports

### 34-538FLEX80SSD

HEAD (ft)



AutographPC™ V9.5 File Applied\_Castle Rock.apcx  
©Copyright 2018 Baker Hughes a GE Company. All Rights Reserved



# Baker Hughes a GE Company

350 N. Cole Creek Dr. Evansville, WY 82636

## Input Parameters:

### Fluid Properties

Oil Gravity 35.0 °API  
Water Cut 99.5 %  
SG water 1.01 rel to H2O  
SG gas 0.65 rel to air  
Produced GOR 400.0 scf/STB  
Bot Hole Temp 150.0 °F  
Surf Fluid Temp 100.0 °F

### Gas Impurities

N2 = 0 %  
H2S = 0 %  
CO2 = 0 %

### Bubble Point Pressure

PB = 1854psia

### Inflow Performance

DatumVD 1600 ft  
PerfsVD 1990 ft  
Datum Static P 2000 psi  
Test Flow 200.0 GPM  
Test Pressure 1000 psi  
PI 0.224 GPM/psi  
IPR Method = Vogel IPR

### Target

Pump Intake Setting Depth  
(vertical) 1600 ft  
Desired Flow 200.0 GPM  
Gas Sep Eff 75.0 %  
Tbg Surf Press 100.0 psi  
Csg Surf Press 100.0 psi

### Casing & Tubing

Roughness = 0.0008 in

Casing ID (in) 9.95  
Tubing ID (in) 2.992  
Vertical Depth (ft) 2000  
Measured Depth (ft) 10200

### Correlations PVT

Dead Visc: Kartoamodjo	Saturated Visc: Kartoamodjo	UnderSaturated: Kartoamodjo	Gas Visc: Lee
Oil Compress: Kartoamodjo	Formation Vol: Standings	Z factor: Hall & Yarborough	Bubble Point P: Standings

### Correlations Multiphase

Tubing Flow: Hagedorn & Brown  
Casing Flow: Hagedorn & Brown

### Comments

No comments

### Application Severity

	Benign	Normal	High	Severe	Extreme
Temperature	=====				
Abrasives	=====				
Corrosion	=====				
Gas	=====				



## Baker Hughes a GE Company

350 N. Cole Creek Dr. Evansville, WY 82636

### Operating Parameters / Selection:

#### Design Point

Desired flow (total)	200.0 GPM	Frequency	56.1 Hz
% water	99.5 %	GOR into pump	400.0 scf/STB
% Gas into pump	0.0 %GIP / 0.0 %GIPbs	TDH	1530 ft
		Friction Losses	298.5 psi

#### Pump Selection

	<u>Intake</u>	<u>Discharge</u>
Pressure	897.8 psi	1428 psi
Flowrate	200.0 GPM	200.0 GPM
Specific Gravity	0.723 rel-H <sub>2</sub> O	0.809 rel-H <sub>2</sub> O
Viscosity	1.619Cp	1.618Cp

#### Pump Selected:

CENTURION 34-538FLEX80SSD  
Pshaft RPM = 3235  
Shaft HP @ 56.1 Hz = 81.62  
Shaft load =(Std 25%) / (HS 16%)  
Required Motor HP at 60.0 Hz = 88.45

#7 Housing 34 stg Flex 80

#### Seal Selection

Seal angle (set depth) = 78.69 Deg fm vert.  
No sand present  
Pump uses floater-type stages  
Motor/Seal Oil type = CL5  
Seal Selected : GSB3 DB [ 513 Series]  
Options : None  
SEAL GSB3 DB CUW HL CNSF5 NSF\_PNT PW VTPN:105150486-NSF01 LUBE OIL CNSF5 55GL DRUM  
Oil temperature at thrust chamber = 218°F  
Chamber Cap Used (Top to Bot)=  
21% 18% 200%  
Thrust bearing load =12 %  
Shaft load = 18 %

#### Motor Selection

Terminal Voltage	=1651.1 V	Fluid Speed	=13.95ft/s
Motor Current	=30.9 A	Eff/PF	=88.4% / 80.31%
Load acc to N.P.	=88.4 %	Internal Temp	=224.1°F
Shaft Load	=9.4 %	Motor Selected:	XP_ 100HP 1820V 34A [562Series]

MTR 562XP 100/2300/27 04R PW PN: 105151672-NSF01 \*NOTE: Motor ratings at 60Hz

#### Cable Selection

Surface Length	50.0ft	Wellhead Voltage	1783.9V
Tubing Length	8130ft	Wellhead kVA	95.5kVA
MLE length	30.0ft	Voltage Drop	132.8V
Surface Temp	100°F	Cond Temp (main)	155.1°F
		Temp Rating	205.0°F

#### Surface Cable

#4 CPNF5.0kV 50.0ft

#### Main Cable

#4 CPNF5.0kV 8130ft

#### MLE Cable

#5 MLE-KLHT5.0kV 30.0ft

CENTRILINK 20 055 4PHT 76381 400°F PW PN: C78718-055-NSF01 or CENTRILINK 20 040 4PHT 76381 400°F P

#### Controller Selection

Surface KW	78.0kW	Voltage Input	480.0V
Input kVA	90.6kVA	Max Well Head Volts	1784V
System kW	83.1kW	Target Frequency	56.1Hz (8.56V/Hz)
Max Ctrl Current	122.7A	Start Frequency	10.0Hz
Power Cost/kWH	0.05\$/kWH	Step-up Trafo	3.972 ratio
Total Power Cost	= \$2992/month	Selected: VSD 2125-VT	130kVA/ 480V/ 167A
No comments			



Baker Hughes a GE Company  
350 N. Cole Creek Dr. Evansville, WY 82636

Monitoring & Automation

Downhole Sensor Selected:

Centinel 3 STANDARD

P/N: C902634

Metallurgy: CARBON STEEL

Sampling: 17.0 sec/sample

Details:

Intake Pressure:

Range=15.0 to 5000 psia

Accuracy= +/- 25.0 psia

Resolution= +/- 0.1 psia

Limit=7500 psia

Motor Temperature:

Range=77.0 to 500.0 °F

Accuracy= +/- 1.8 °F

Resolution= +/- 0.18 °F

1000 OHM RTD

Intake Temperature:

Range=77.0 to 302.0 °F

Accuracy= +/- 1.8 °F

Resolution= +/- 0.18 °F



**Baker Hughes a GE Company**  
350 N. Cole Creek Dr. Evansville, WY 82636

**Project:** AutographPC example for gassy wells  
**Customer:** Unknown  
**Well:** Unknown  
**Engineer:** Unknown  
**Country:** USA  
**State:**  
**County:**  
**Well API#:**  
**Reservoir Name:**

**Pump:** 34-538FLEX80SSD  
**Seal:** 513GSB3 DB  
**Motor:** 562XP\_100HP 1820V/ 34A (60 Hz)  
**Cable:** #4 CPNF 5kV ,8130ft  
**MLE:** #5 MLE-KLHT 5kV ,30 0ft  
**Controller:** VSD 2125-VT 130kVA 480V/ 167A  
**Sensor:** Centinel 3 STANDARD

Comments:

This extra line only shows on reports

Well remarks:

No comments

Pump remarks:

#7 Housing 34 stg Flex 80

Motor remarks:

MTR 562XP 100/2300/27 04R PW PN: 105151672-NSF01

Seal remarks:

SEAL GSB3 DB CUW HL CNSF5 NSF\_PNT PW VTPN:105150486-NSF01  
LUBE OIL CNSF5 55GL DRUM PN:105109564

Cable remarks:

CENTRILINK 20 055 4PHT 76381 400°F PW PN: C78718-055-NSF01 or  
CENTRILINK 20 040 4PHT 76381 400°F PW PN: C78718-040-NSF01

Cable: 4SOLTC 5KV PP NIT 6GRD GAL F PW PN: C76933-NSF01

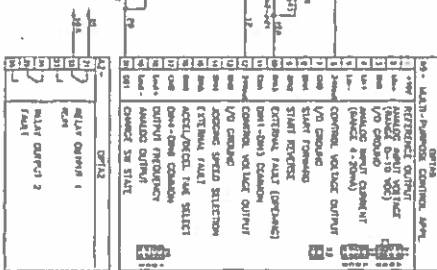
Controller remarks:

No comments

Monitoring and Automation remarks:





[illegible]

**A** **Prüfung:** 8. September 7-10h im 694-Geometrie-Tutor  
und 17.-Juni ab dem 10. Juli im Tutorium.

**A** **Funk:** ab dem 01.07. im Tutorium. Bitte mit dem  
1. Gang kontaktieren.

Position	Count	Description
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	1	
--	---	--

		85S300-25
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Product photo could vary from the actual product

Product No.: 12B60025

Multi-stage submersible pump for raw water supply, groundwater lowering and pressure boosting. The pump is suitable for pumping clean, thin, non-aggressive liquids without solid particles or fibers.

The pump is made entirely of Stainless steel DIN W.-Nr. EN 1.4301 and suitable for horizontal and vertical installation. The pump is fitted with a built-in non-return valve.

**Liquid:**

Pumped liquid: Water  
Maximum liquid temperature: 72 °F  
Liquid temperature during operation: 52 °F  
Density: 62.29 lb/ft³

**Technical:**

Speed for pump data: 3450 rpm  
Actual calculated flow: 99 US gpm  
Resulting head of the pump: 836.6 ft  
Curve tolerance: ISO9906:2012 3B

**Materials:**

Pump: Stainless steel  
EN 1.4301  
AISI 304  
Impeller: Stainless steel  
EN 1.4301  
AISI 304

**Installation:**

Pump outlet: 3"NPT  
Motor diameter: 6 inch

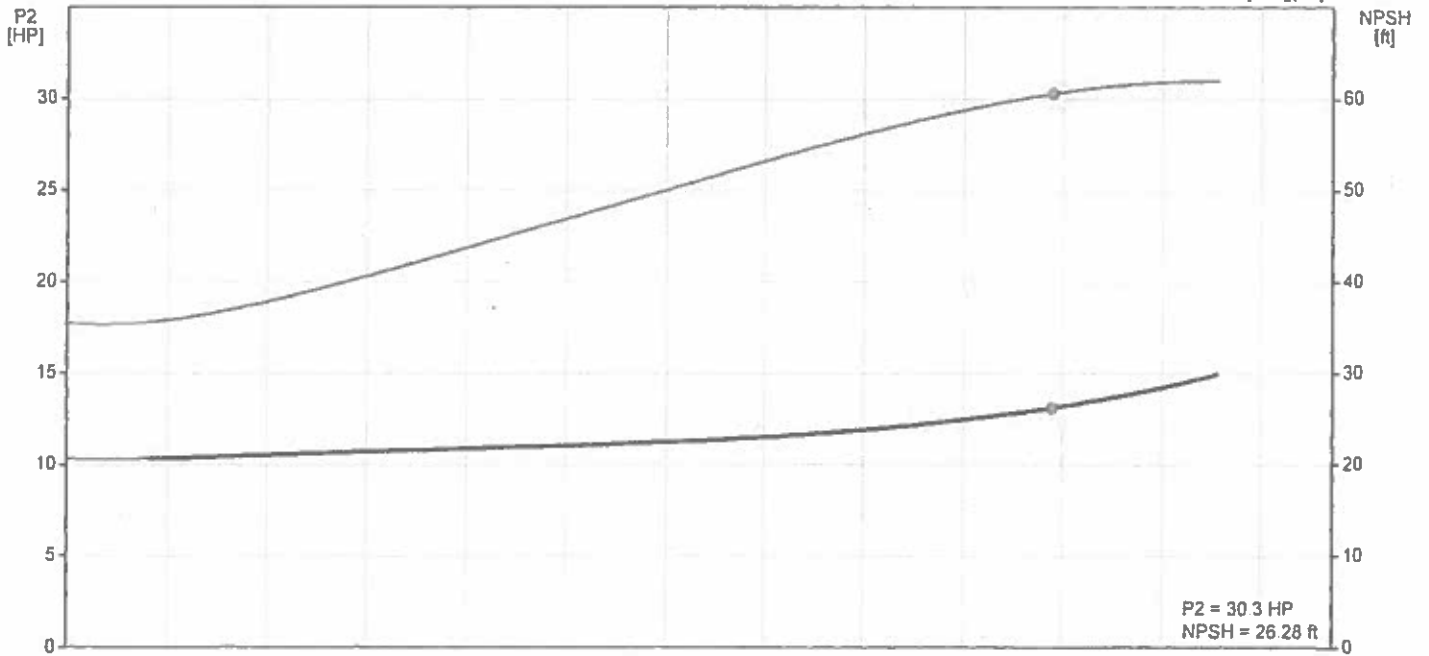
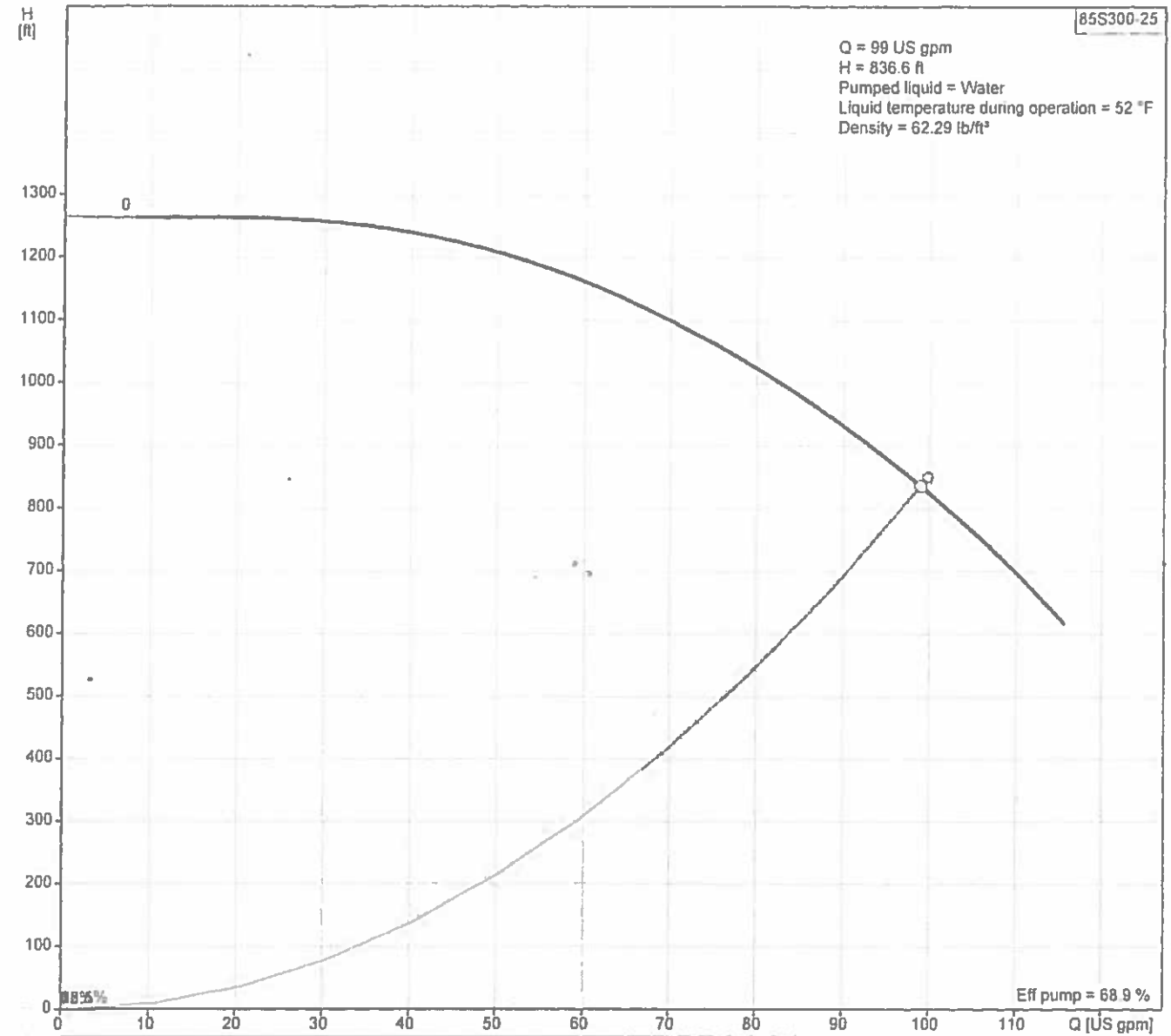
**Electrical data:**

Rated power - P2: 30 HP  
Power (P2) required by pump: 30 HP  
Start. method: direct-on-line

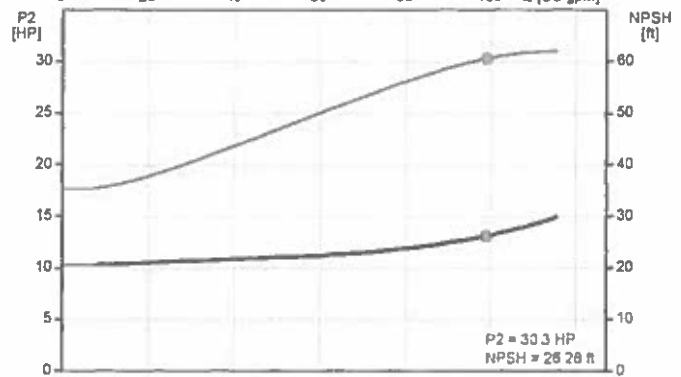
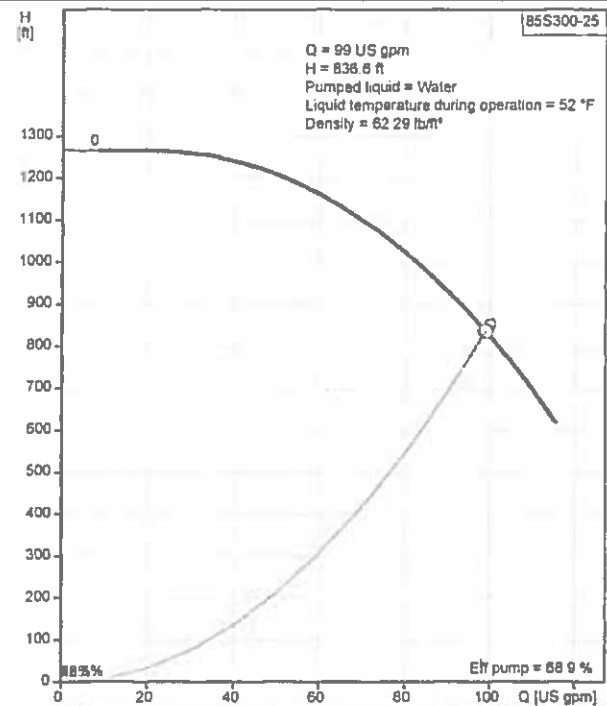
**Others:**

ErP status: EuP Standalone/Prod.  
Net weight: 85.1 lb  
Gross weight: 97 lb  
Shipping volume: 2.4 ft³

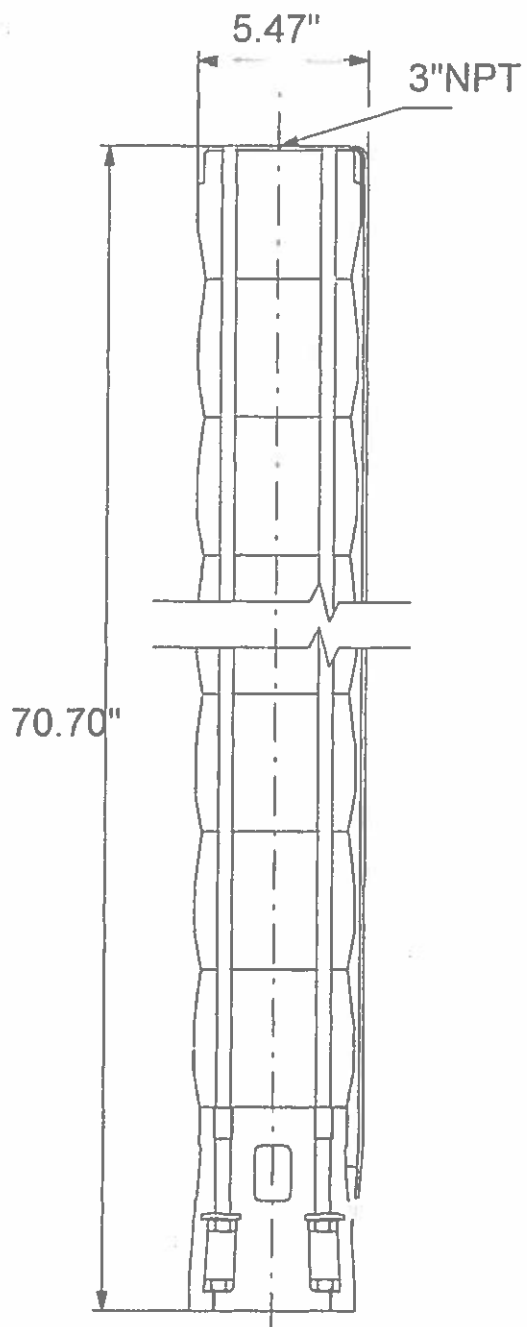
# 12B60025 85S300-25 60 Hz



Description	Value
<b>General information:</b>	
Product name:	85S300-25
Product No.:	12B60025
EAN:	5700391307065
<b>Technical:</b>	
Speed for pump data:	3450 rpm
Actual calculated flow:	99 US gpm
Resulting head of the pump:	836.6 ft
Stages:	25
Impeller reduc.:	NONE
Curve tolerance:	ISO9906 2012 3B
Model:	B
Valve:	YES
<b>Materials:</b>	
Pump:	Stainless steel EN 1.4301 AISI 304
Impeller:	Stainless steel EN 1.4301 AISI 304
<b>Installation:</b>	
Pump outlet:	3"NPT
Motor diameter:	6 inch
<b>Liquid:</b>	
Pumped liquid:	Water
Maximum liquid temperature:	72 °F
Liquid temperature during operation:	52 °F
Density:	62.29 lb/ft³
<b>Electrical data:</b>	
Applic. motor:	GRUNDFOS
Rated power - P2:	30 HP
Power (P2) required by pump:	30 HP
Start method:	direct-on-line
<b>Others:</b>	
ErP status:	EuP Standalone/Prod
Net weight:	85.1 lb
Gross weight:	97 lb
Shipping volume:	2.4 ft³
Sales region:	Namreg



12B60025 85S300-25 60 Hz



Note! All units are in [mm] unless otherwise stated  
Disclaimer: This simplified dimensional drawing does not show all details.





Job Name:	Castle Rock Wells
Designation:	WELL 16-R 40hp