

2019 HOUSE INDUSTRY, BUSINESS AND LABOR

HB 1377

2019 HOUSE STANDING COMMITTEE MINUTES

Industry, Business and Labor Committee Peace Garden Room, State Capitol

HB 1377
1/21/2019
31140

- ☐ Subcommittee
☐ Conference Committee

Committee Clerk: Ellen LeTang

Explanation or reason for introduction of bill/resolution:

State board of water well contractors & continuing education requirements for water well pump & pitless unit installers.

Minutes:

Attachment 1

Chairman Keiser: Opens the hearing on HB 1377.

Rep Magrum~District 28: Attachment 1.

3:30

Rep Adams: If we pass this bill, will I still be able to still drill my own well?

Rep Magrum: No, we will not be taking it away. We are reducing the continuing ed for the pump & pitless drilling, it doesn't affect the well drillers at all.

Rep Magrum: Continues with his testimony.

7:50

Rep Ruby: Could you explain a little more what a monitoring well contractor is.

Rep Magrum: A monitoring well contractor, that's a category in the state licensing division. They check the water table & water quality.

Rep Ruby: I just want to know the difference?

Rep Magrum: I don't know when they divided that up or why.

Loren DeWitz~Chairman of the Water Well Contractors: We asked Rep Magrum to submit this change to add monitoring well contractors to the geothermal part of it. Contractors can hold more than one certificate & because of no activity in the geothermal, their dropping their certificates.

The board feels that ongoing training is worthwhile but the pump & pitless people don't have much technology or change. They don't need 6 hours but 2 hours is sufficient. We support this bill.

Rep M Nelson: Are you actually changing the continuing education?

Loren DeWitz: On page 2, line 19-20, that category only needs two but the other categories still needs six hours.

14:00

Jon Patch~Director of the Water Appropriation for ND Water Commission & serve as Executive Officer for the Board of Water Well Contractors:

Rep Ruby: What is the difference of a monitoring well contractors compared to water driller?

Jon Patch: We have various categories. Monitoring well contractor is specifically for monitoring. Water well contractor & you have that certification, you can drill everything. Other categories are limited to that specific type.

16:48

Chairman Keiser: Anyone else here to testify in support, opposition, neutral position? Closes the hearing. What are the wishes of the committee?

Vice Chairman Lefor: Moves a Do Pass.

Rep Bosch: Second.

Chairman Keiser: Further questions?

Roll call was taken on HB 1377 for a Do Pass with 12 yes, 0 no, 2 absent & Rep M Nelson is the carrier.

Date: Jan 21, 2019

Roll Call Vote #: 1

2019 HOUSE STANDING COMMITTEE
ROLL CALL VOTES

BILL/RESOLUTION NO. 1377

House _____ Industry, Business and Labor _____ Committee

☐ Subcommittee

Amendment LC# or
Description: _____

Recommendation

- ☐ Adopt Amendment
☒ Do Pass ☐ Do Not Pass ☐ Without Committee Recommendation
☐ As Amended ☐ Rerefer to Appropriations
☐ Place on Consent Calendar

Other Actions

- ☐ Reconsider ☐ _____

Motion Made by Rep Lefor Seconded By Rep Bosch

Representatives	Yes	No	Representatives	Yes	No
Chairman Keiser	<u>X</u>		Rep O'Brien	<u>X</u>	
Vice Chairman Lefor	<u>X</u>		Rep Richter	<u>X</u>	
Rep Bosch	<u>X</u>		Rep Ruby	<u>X</u>	
Rep C Johnson	<u>X</u>		Rep Schauer	<u>Ab</u>	
Rep Kasper	<u>X</u>		Rep Adams	<u>X</u>	
Rep Laning	<u>X</u>		Rep P Anderson	<u>X</u>	
Rep Louser	<u>Ab</u>		Rep M Nelson	<u>X</u>	

Total (Yes) 12 No 0

Absent 2

Floor
Assignment Rep Nelson

REPORT OF STANDING COMMITTEE

HB 1377: Industry, Business and Labor Committee (Rep. Keiser, Chairman)
recommends **DO PASS** (12 YEAS, 0 NAYS, 2 ABSENT AND NOT VOTING).
HB 1377 was placed on the Eleventh order on the calendar.

2019 SENATE POLITICAL SUBDIVISIONS

HB 1377

2019 SENATE STANDING COMMITTEE MINUTES

Political Subdivisions Committee Red River Room, State Capitol

HB1377
3/21/2019
Job # 34069

- ☐ Subcommittee
☐ Conference Committee

Committee Clerk: Mary Jo Wocken

Explanation or reason for introduction of bill/resolution:

Relating to state board of water well contractors; and continuing education requirements for water well pump; and pitless unit installers.

Minutes:

Written attachment#1,2, Representative Magrum pgs. 1-10

Chairman Burckhard opened the hearing on HB1377. All senators are present.

Representative Jeff Magrum. District 28. Sponsor and introduced HB1377. He is in support of HB1377. **Written attachment 1, 2** pages 1-10.

Senator Anderson: Is the reason that we don't have many geo-thermal installers in North Dakota is because it is too darn cold to make them efficient here or why?

Representative Jeff Magrum: No they are really efficient but I do believe the cost of installation is getting to be so high that the natural gas is more reasonably priced, so I think they are really getting pushed out of the market right now because of the competitiveness of the natural gas.

Senator D. Larson: I am curious about the geo-thermal 2 because we have one of those systems and they didn't call it geo-thermal, they called it ground source heating. So I am wonder if there is a different name being used in the industry and if that's part of the problem that there aren't as many people with that geo-thermal title as they used to have.

Representative Magrum: The geo-thermal, Loren DeWitts is the Chairman of the Water Well Board, and he could probably speak on that more than I can. What geo-thermal is ground source, it is the same thing.

Senator D. Larson: When we installed it they specifically told us they don't call it geo-thermal anymore. I don't know if it is a particular brand or what, but. So that's why I was curious about if there are fewer just because of the title.

Senator J. Lee: I have two different ones. I am just looking at with no objection to what you're saying. I am just trying to have it clear for me. The certificates of continuing education are only good for one year. But it appears to me to be a two- year renewal period. So do you renew your license every two years?

Representative Magrum: Yes, we renew yearly. The continuing education requirement is for a two- year period but we renew yearly.

Senator J. Lee: So, I was concerned because I didn't want you to be taking a continuing education class one year if it didn't count for you to renew the next year. You already got that covered. I have a more basic question. Where would pump and pitless units be used, since I don't have one. I don't know a lot about why, I am familiar with some of the others, but not with this one?

Representative Magrum: The pump and pitless unit is a four inch or larger well. It also could be a three inch. I don't know what kind of well you may have had a pump jack, because the newer wells came out in the 1960's and 1970's and there still some pump jacks in use today, but they resemble the old oil well. It's rod that goes up and down, and its' got a cylinder down there that holds about one pint of water, every time it pumps but those were replaced with the submersible pumps that the pump goes down in the well and pushes the water up and then to access that pump, being the frost goes so deep in this country, you have a pitless unit so you can access that pump so it hooks to the water line and then if you go that (attachment #2, Pg7) it kind of shows its spool and there's an O ring, so when you hook your pump to that spool and you put that down the well, that spool has two O rings that drop into a chamber and they seal that off so the water goes to the water line instead of coming out the top of the well. Then when you have to pull that pump, you just hook that rod on to that spool and you pull the whole works up. It is pretty simple but the reason for the pitless is because it's frost proof. There is many different sizes of pitlessness to keep it frost free. There are huge ones, 8 inch, 10 inch, for city wells and irrigation wells. But they all serve the same purpose.

Senator Dotzenrod: What would be the biggest difference between the well you have shown here on the last page (**written attachment #2, pg 10,**) and an irrigation well?

Representative Magrum: They are pretty well the same thing. It would just be in the construction of the well and the perforations in the pipe down below and the aquafir further in and the rock they call it buckshot. The size of the rock to use around the casing. Things like that.

Senator Dotzenrod: I am asking that question because on line 11, page one your adding as an alternative to the geothermal, your saying "or" one monitoring well contractor, and then on line 10, there are two water well contractors. So, what is the difference between a person who would be on line 11, that is a monitoring well contractor and the two people on line 10, who are water well contractors. What is the difference between those people?

Representative Magrum: A well monitoring well contractor, I do believe the gentleman behind me can speak better on that as well, but as far as I know the monitoring well contractor that's all they do. If you want to check your water quality and the quantity around a lake or a

maybe it's a dump ground you want to check you water quality, that is where the monitoring well is for. They have them along the state highways you will see a pipe sticking up that's painted yellow, that's a monitoring well. They go out and they take a sample of that water every year, test the quality and then they measure if the water table is dropped or not. That's what those are for. The water well contractors can do everything. They can do monitoring wells, geothermal, pump and pitless units. They are qualified to do the whole thing. That's part of the reason for the reduction in credits, continuing ed credits for pump and pitless units. We don't do it all but yet we're required to go to the training that the water well contractors go to. It is more than what we need.

Senator Dotzenrod: On page 2, line 5-7 you've overstruck this language, so you've crossed 2 years and 6 years of continuing education during the 2year cycle. Then down on line 16 you've added back 6 hours of Board approved continuing education, 2 year reporting cycle. I am really looking through here trying to understand what has changed? Maybe you can explain it, what you overstruck and what you added appear to be the same. Evidently they are not. I must be missing something here.

Representative Magrum: Yes, we overstruck the language that would keep us altogether in one group. Then on section 2 and 3 we separated the pump and pitless unit contractors, installers from the water well contractors.

Senator Dotzenrod: Where is that split at?

Representative Magrum: Section 2 would cover the water well contractors.

Senator Dotzenrod: That's on line 16.

Representative Magrum: Then we added Section 3 on line 19. So Section 2 would basically be talking about what the rest of the current statute is, the requirements for the water well contractors. Then we added section 3 which would separate us out from the group.

Senator Dotzenrod: So, ever though on line 16 that section 2 there, there is no reference there or mention of water well contractors. We can just assume that that's what they are talking about because that's the subject of that chapter.

Representative Magrum: If you go back to beginning of the bill where they talk about the water well contractors. It talks about continuing education for everyone in the group.

Chairman Burckhard: Can you refer to the page and the line numbers when you are citing?

Representative Magrum: You have to go clear to the beginning of the bill, it is just relating to Water Well Contractors and continuing education requirements for water well pump and pitless unit installers. So, if you're talking about the group but then in Section 3, we separate the pump and pitless unit installers out of the group. It indicates that we need two hours of Board approved continuing education. Everyone else would need the six hours yet. This was done by Legislative Council.

Chairman Burckhard: So, your customers are rural water users and these are the ones that don't have rural water to their properties?

Representative Magrum: They may have a well now, one or two or three, whatever the case. Then when rural water came through, a lot of them did have that added on to their property and installed on their property, but they still are using their wells for their cattle and local watering and things like that.

Loren DeWitt: Chairman Board of Water Well Contractors. We ask Representative Magrum to include that first change where we add 'a monitor well contractor with the geothermal person'. We don't have many people who are continuing their certificate as geothermal installers or drillers. So we are down to a very, very small group, and we had to pick someone and we just couldn't someone so we asked to add this other category in there. The other change going to 2 hours of continuing education for pump and pitless installers. Representative Magrum met twice with our board and we discussed the continuing education. The Board is in favor of continuing education but he convinced us that there are very few new things in pump and pitless units. Two hours would be sufficient. We agree and support this change. Some of the folks as we were discussing we thought it was very simple. We hoped it would be a one- page thing and when it came back from Legislative Council, it wasn't simple. We do support this.

Chairman Burckhard: So, basically the geothermal thing is less and less because of the price of natural gas, is so inexpensive, is that true?

Mr. Loren DeWitt: That is my feeling. Yes. When you can heat with natural gas for what it costs today, it's not cost effective to go to geothermal. 20 years down the road, who knows.

Chairman Burckhard closed the hearing on HB1377.

Senator J. Lee moved a do pass on HB1377.

Senator Kannianen 2nd the motion

Roll call votes: 6 Yea, 0 No, 0 Absent

Carrier: Senator Dotzenrod

Date: 3.21.2019
Roll Call Vote #: 1

**2019 SENATE STANDING COMMITTEE
ROLL CALL VOTES
BILL/RESOLUTION NO. 1377**

Senate Political Subdivisions Committee

☐ Subcommittee

Amendment LC# or Description: _____

Recommendation: ☐ Adopt Amendment
☒ Do Pass ☐ Do Not Pass ☐ Without Committee Recommendation
☐ As Amended ☐ Rerefer to Appropriations
☐ Place on Consent Calendar

Other Actions: ☐ Reconsider ☐ _____

Motion Made By Sen. Judy Lee Seconded By Sen. Kannianen

Senators	Yes	No	Senators	Yes	No
Chair Randy Burkhard	X		Sen. Jim Dotzenrod	X	
Vice chair Howard Anderson	X				
Sen. Diane Larson	X				
Sen. Judy Lee	X				
Sen. Jordan Kannianen	X				

Total (Yes) 6 No 0

Absent 0

Floor Assignment Senator Dotzenrod

If the vote is on an amendment, briefly indicate intent:

REPORT OF STANDING COMMITTEE

HB 1377: Political Subdivisions Committee (Sen. Burckhard, Chairman) recommends **DO PASS** (6 YEAS, 0 NAYS, 0 ABSENT AND NOT VOTING). HB 1377 was placed on the Fourteenth order on the calendar.

2019 TESTIMONY

HB 1377

NORTH DAKOTA HOUSE OF REPRESENTATIVES



STATE CAPITOL
600 EAST BOULEVARD
BISMARCK, ND 58505-0360



Representative Jeffery J. Magrum

District 28
P.O. Box 467
Hazelton, ND 58544-0467
C: 701-321-2224
jmagrum@nd.gov

COMMITTEES:

Judiciary
Political Subdivisions

HB 1377
Jan 21, 2019

Page 1

"Click here to type date"

Good afternoon Chairman Keiser and committee members.
For the record I am Jeff Magrum representing district 28,
south central ND east of the Missouri River.

I stand before you to introduce HB1377.

HB1377 is a bill to change 2 things in current statute.

#1 is in lines 11 and 18 of the bill before you. This change will
allow the Governor to appoint a Geothermal System Driller (or
one monitoring well contractor).

The reason for the change is the ND State Board of Water
Well Contractors is having a difficult time getting Geothermal
System Drillers to serve on the board. This change will create
opportunity for more individuals to be eligible to serve on the
board.

#2 is the continuing education requirements for Pump and Pitless Unit Installers will be separated from the well drillers requirements and reduced to 2 CE credits. The reason for the change is that Pump and Pitless Unit Installers do not drill wells and the changes in the industry are very minimal from year to year. Pump and Pitless Contractors work initially as an apprentice and then after one year become eligible to take the written test to become a certified installer. Certified Pump and Pitless Installers are required to provide a bond to protect well owners. This is a job that is legal to do on an individuals own property.

The Pump and Pitless Unit Installers as well as the ND State Board of Water Well Contractors agree that this change would be good for the water well industry and we respectfully ask for a do pass recommendation on HB1377.

Thank you Chairman Keiser and committee members for your service to our state and I stand for any questions of me.

HB 1377

Attachment 1

**NORTH DAKOTA
BOARD OF WATER WELL CONTRACTORS**

STATE OFFICE BUILDING 900 EAST BOULEVARD AVENUE
BISMARCK, NORTH DAKOTA 58505-0850
PHONE 701-328-2754 - FAX 701-328-3696

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LOREN DEWITZ
BISMARCK
CHAIRMAN

JON PATCH
EX-OFFICIO, STATE ENGINEER DESIGNEE
SECRETARY-TREASURER
EXECUTIVE OFFICER

DAVE GLATT
EX-OFFICIO, STATE HEALTH OFFICER DESIGNEE



JOHN MOHL
BEULAH
VICE CHAIRMAN
WATER WELL

ROBERT OPP
GLEN ULLIN
WATER WELL

TERRY HEICK
BOWMAN
PUMP AND PITLESS

DAN LAHAISE
GRAFTON
GEOTHERMAL

North Dakota Board of Water Well Contractors
2018 Membership

Certification Type	Number of members
Geothermal	4
Monitoring Well	32
Monitoring Well - inactive	7
Pump and Pitless unit installers	24
Water Well	107
Water Well - inactive	12
Total	186

Active	167
Inactive	19

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Attachment 1

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**NORTH DAKOTA
BOARD OF WATER WELL CONTRACTORS**

STATE OFFICE BUILDING 900 EAST BOULEVARD AVENUE
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PHONE 701-328-2754 - FAX 701-328-3696



JOREN DEWITZ
BISMARCK
CHAIRPERSON

JON PATCH
STATE WATER COMMISSION
SECRETARY-TREASURER
BISMARCK

DAVE GLATT
ND STATE HEALTH DEPT

JOHN MOHL
BEULAH
VICE CHAIRMAN
WATER WELL

ROGER SCHMID
BISMARCK
WATER WELL

MARVIN MANN
DICKINSON
PUMP AND PITLESS

DAN LAHAISE
GRAFTON
GEOTHERMAL

**Continuing Education Credits
For 2012-2013 Reporting Period**

Jeff Magrum
Magrum Excavating & Plumbing
Box 467
Hazelton, ND 58544
CN = 544

2012

Event: Goulds Meeting
Sponsor: Western Steel & Plumbing, Inc.
Date: March 15 2012
Topic: Goulds Pumps (2.0)
Total Hours = 2.0
Two hours were transferred to 2010-2011 for your 2012 renewal
Total = 0

Event: NDSD Drillers Convention
Date: March 5 & 6, 2012
Location: Bismarck, ND
Topics: Geology of ND & SD (1.0), Sampling Techniques (1.0), Gen-Pro (1.0), DOT (0), Certaineed Presentation (1.0), Franklin Electric (1.0), CETCO Presentation (1.0), Burk & Assoc. (1.0).
Total 7.0

2013

Event: Goulds Pump Meeting
Sponsor: Western Steel & Plumbing, Inc.
Date: February 21st 2013
Location: Bismarck, ND
Topic: Goulds Pumps (2.0)
Total Hours = 2.0

A handwritten signature in black ink, appearing to read "D. Larson".

43-35-13. Certificate - How obtained - Fee - Bond.

1. Any person who takes the examination to become a certified water well contractor must first complete a minimum of one-year apprenticeship or experience in water well drilling and construction under the direct supervision of a certified water well contractor or have completed a career and technical education program of at least one year in water well construction and shall make application to the board.
2. Any person who takes the examination to become a certified water well pump and pitless unit installer must first complete a minimum of one-year apprenticeship or experience in water well pump and pitless unit installation under the direct supervision of a certified water well pump and pitless unit installer or have completed a career and technical education program of at least one year in water well pump and pitless unit installation.
3. Any person who takes the examination to become a certified monitoring well contractor must first complete a minimum of one-year apprenticeship or experience in monitoring well construction under the direct supervision of a certified water well contractor or a certified monitoring well contractor or have completed a career and technical education program of at least one year in water well construction or hold a bachelor's degree in engineering or geology from an approved school and shall make application to the board.
4. Any person who takes the examination to become a certified geothermal system driller must first complete either a minimum of one year of apprenticeship under the direct supervision of a certified geothermal system driller or have a minimum of two thousand forty installation hours of experience in geothermal system drilling working under the direct supervision of a certified geothermal system driller, or, in the alternative, must first complete career and technical education relating to geothermal system drilling lasting at least one school year.
5. A person applying to take a certification examination shall pay to the board treasurer a nonrefundable examination fee in the amount of one hundred dollars. If upon examination the applicant is found to be qualified as a water well contractor, a water well pump and pitless unit installer, a monitoring well contractor, or a geothermal system driller, the board shall issue to that person an appropriate certificate upon the applicant's executing and filing with the board a bond as required in this chapter. The board may offer a combined examination for certification of a person as a water well contractor and a water well pump and pitless unit installer and may issue a single certificate for successful completion of the combined examination. Certificates issued under this chapter are not transferable.

43-35-14. Bond required.

Before receiving a certificate under this chapter, a qualified applicant shall execute and deposit with the board a surety bond conditioned for the faithful performance of all water well, monitoring well, pump and pitless unit, or geothermal system installation contracts undertaken by the applicant and the strict compliance with this chapter. The required amount of a surety bond is fifteen thousand dollars for a water well contractor and is two thousand dollars for a monitoring well, pump and pitless unit, or geothermal system installation contractor.

43-35-15. Certification of persons previously engaged in contracting.

Repealed by S.L. 2011, ch. 325, § 3.

43-35-15.1. Certification of persons engaged in installation of water well pumps and pitless units prior to certification requirement.

Repealed by S.L. 2011, ch. 325, § 3.

43-35-15.2. Certification of persons engaged in monitoring well contracting prior to certification requirement.

Repealed by S.L. 2011, ch. 325, § 3.

43-35-15.3. Certification of persons engaged in drilling of geothermal systems before certification requirement.

Repealed by S.L. 2011, ch. 325, § 3.

pg 6

43-35-16. Display of certification.

The board shall furnish each certified water well contractor a decal for each drill rig the contractor owns or leases. Such decal must be displayed in a conspicuous place on the drill rig.

43-35-17. Renewal of certificate - Continuing education.

A certificate issued under this chapter is valid for up to one year and expires on the thirty-first day of December in the year of issuance. The certificate may be renewed by the board upon application. Every two years the application must include reporting information that the applicant completed six hours of continuing education during the two-year reporting cycle which meets continuing education standards adopted by the board. The application must be made before April first in the year following the certificate's expiration, must be accompanied by a fee in an amount set by the board not to exceed two hundred dollars, and must be accompanied by a bond as provided in section 43-35-14.

43-35-18. Firm engaged in water well work to employ certified water well contractor - Exception.

No person, partnership, association, corporation, or limited liability company shall engage in the business of constructing a water well in this state unless at all times a certified water well contractor, who is responsible for the proper construction or alteration thereof, is in charge; provided, however, that nothing in this chapter shall be construed so as to prohibit any person, partnership, association, corporation, or limited liability company from constructing any water well on the person's or entity's own premises for the person's or entity's own use.

43-35-18.1. Firm engaged in installation of water well pump and pitless units to employ certified installer - Exception.

No person may engage in the business of installing water well pumps and pitless units in the state after July 1, 1986, unless a certified installer, who is responsible for the proper installation of the pump and pitless unit, is in charge of the installation. This chapter does not prohibit any person from installing water well pumps and pitless units on that person's own premises for that person's own use.

43-35-18.2. Firm engaged in monitoring well work to employ certified monitoring well contractor - Exception.

No person may engage in the business of constructing a monitoring well in this state unless at all times a certified monitoring well contractor, who is responsible for the proper construction or alteration thereof, is in charge. This section does not prohibit any person from installing monitoring wells on that person's own premises for that person's own use.

43-35-18.3. Firm engaged in drilling of geothermal systems to employ certified driller - Exception.

A person may not engage in the business of drilling geothermal systems in the state after July 1, 2008, unless a certified driller, who is responsible for the proper drilling of the geothermal system, is in charge of the drilling. This chapter does not prohibit a person from drilling geothermal systems on that person's own premises for that person's own use.

43-35-19. Standards for well drilling - Reports required.

All construction of water wells must comply with the rules adopted by the state department of health. Within thirty days after the completion of each well, each water well contractor shall furnish to the board on forms provided by the board such information as the state department of health shall require, including a log of formations penetrated, well depth, and casing size and

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Jan 21, 2019

Attachment 1

pg 7



2018 PUMP AND PITLESS UNIT CERTIFICATION RENEWAL
NORTH DAKOTA BOARD OF WATER WELL CONTRACTORS
STATE OF NORTH DAKOTA
SFN 60271 (10/2017)

Certificate Number

ND Board of Water Well Contractors
900 E. Boulevard Ave.
Bismarck, ND 58505-0850
e-mail: jschacher@nd.gov

The undersigned makes application to renew a North Dakota Pump and Pitless Unit Contractor's Certificate under provisions of Chapter 43-35 of the North Dakota Century Code.

Renewal Forms are also on the web at www.bwwc.nd.gov (ND Water Well Contractors).

ACTIVE = \$100.00 (license to drill) ☐INACTIVE = \$50.00 (hold license only) ☐

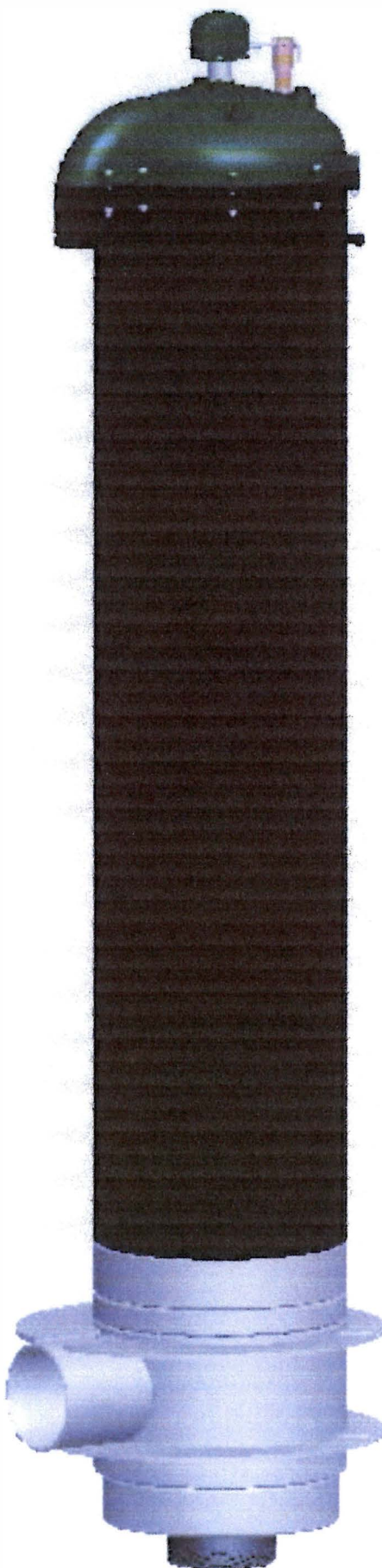
Name of Applicant		
Name of Company		
Address		
City	State	ZIP Code
Telephone Number	Cell Number	
Email Address		
How many <u>new</u> pumps or pitless units did you install in North Dakota in 2017?		
Continuing Education Credits earned in 2017.		
How many (small) 2018 decal stickers do you need?		
Large decals are available upon request. If you acquire new equipment, etc., send us an email or call to request a new one. Please limit decals to ONE per rig, etc.		
Payment Included	<input type="checkbox"/> Check No. <input type="checkbox"/> Money Order <input type="checkbox"/> Cash	Amount
Signature		Date

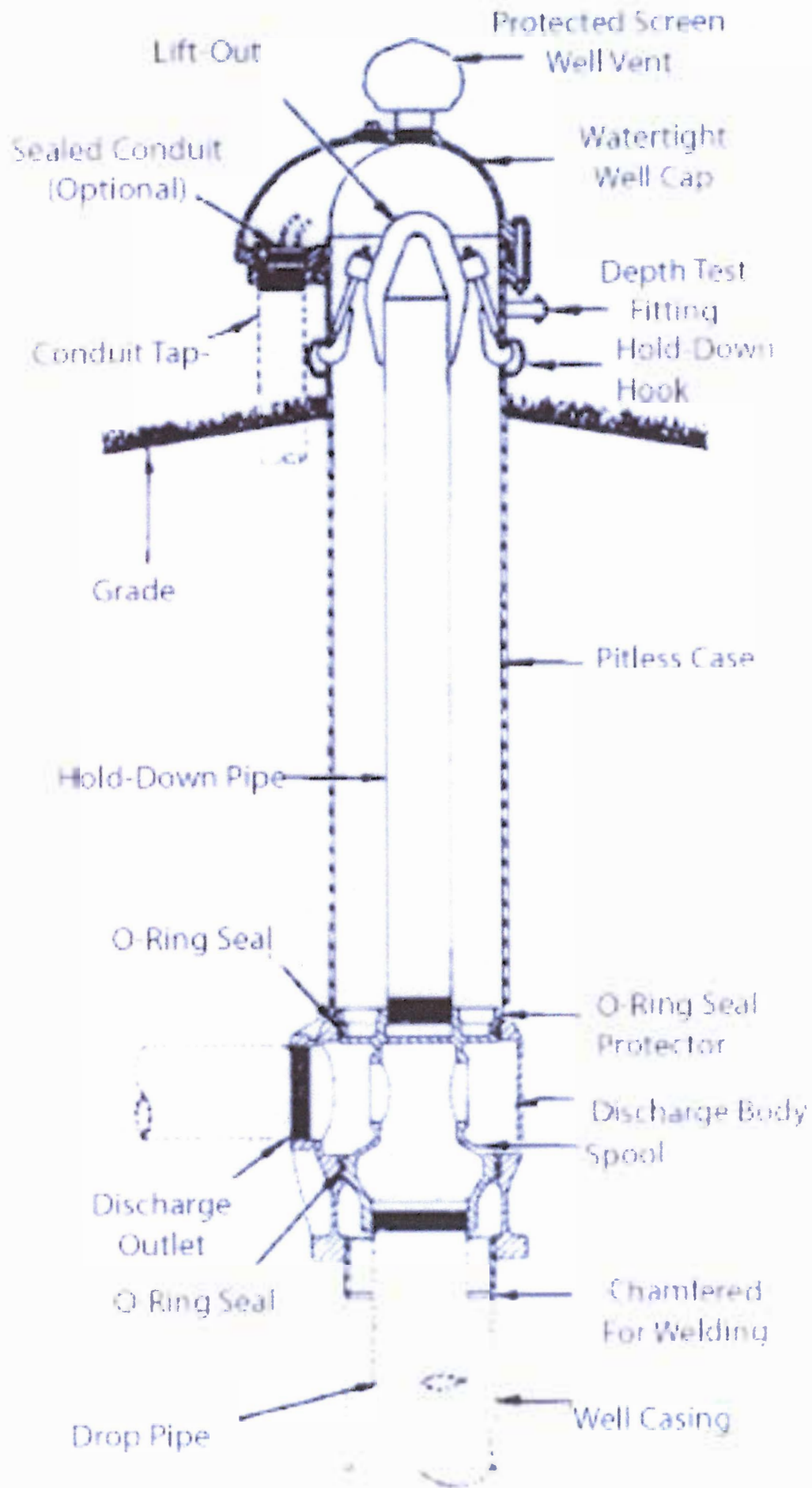
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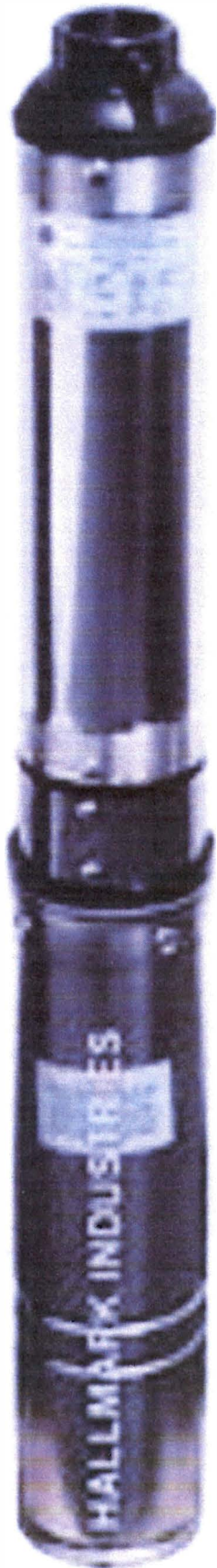
Jan 21, 2019

Attachment 1

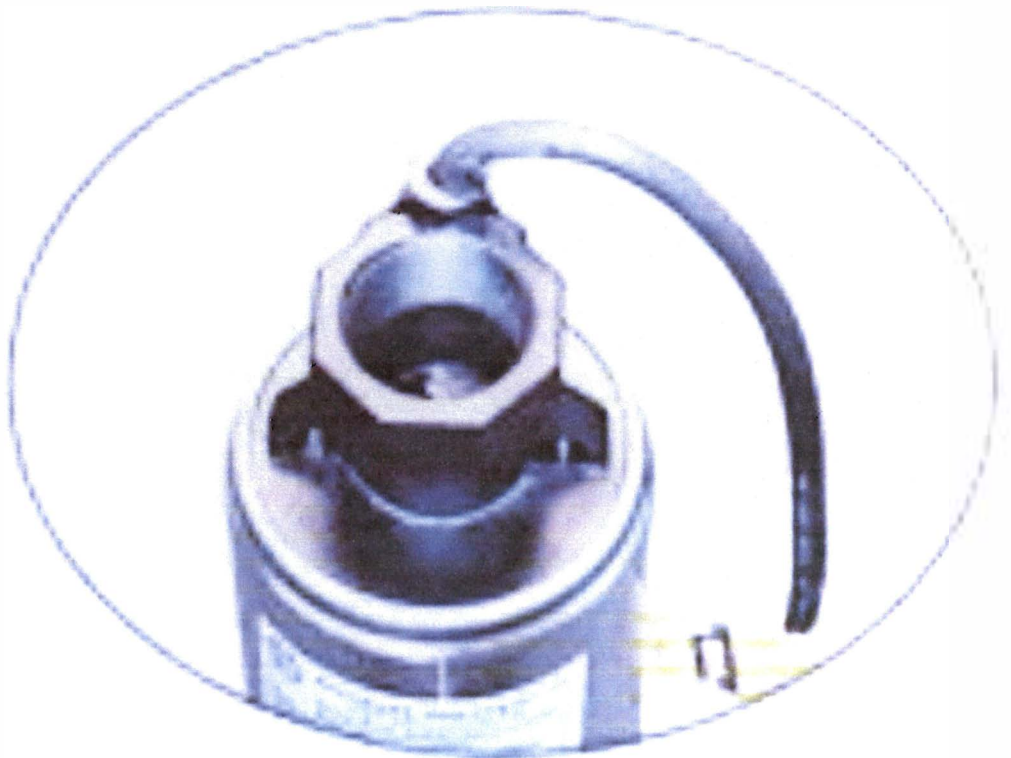
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Electric Cable



1-1/4" NPT

Monitor AW

INSTRUCTION MANUAL AT-THE-WELL PLUG-IN CONTROL KITS FOR SUBMERSIBLE PUMPS

GENERAL

This Manual applies to Control Kits with the following Ordering Numbers:

(2-8) OAWSP

(2-8) OAWS

Follow the instructions for installing the Monitor Pitless Unit to the point where the spool or Drop-Pipe Fitting Assembly is attached to the Drop-Pipe, then proceed with the following, (numbers in "()" refer to Figure 3):

1. Remove 3/8" Pipe Plug from Spool or Drop-Pipe Fitting.
2. Dope threads of female plug-in fitting (10) and screw into spool or drop-pipe fitting.
3. Pull pump cable up through spool or drop-pipe fitting assembly and then lower complete assembly into pitless case.
4. Bolt lift-out bar (3) to mounting block (6) and if a motor control box is installed at the well, bolt it to the lift-out bar. Note: If pressure switch is not supplied with control kit, it should be installed before attaching lift-out bar.

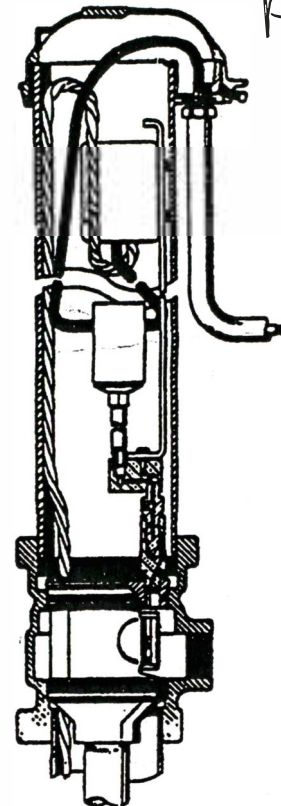


FIGURE 1 MONITOR PS UNIT CUTAWAY TO SHOW OAWSP CONTROL KIT INSTALLED IN OPERATING POSITION.

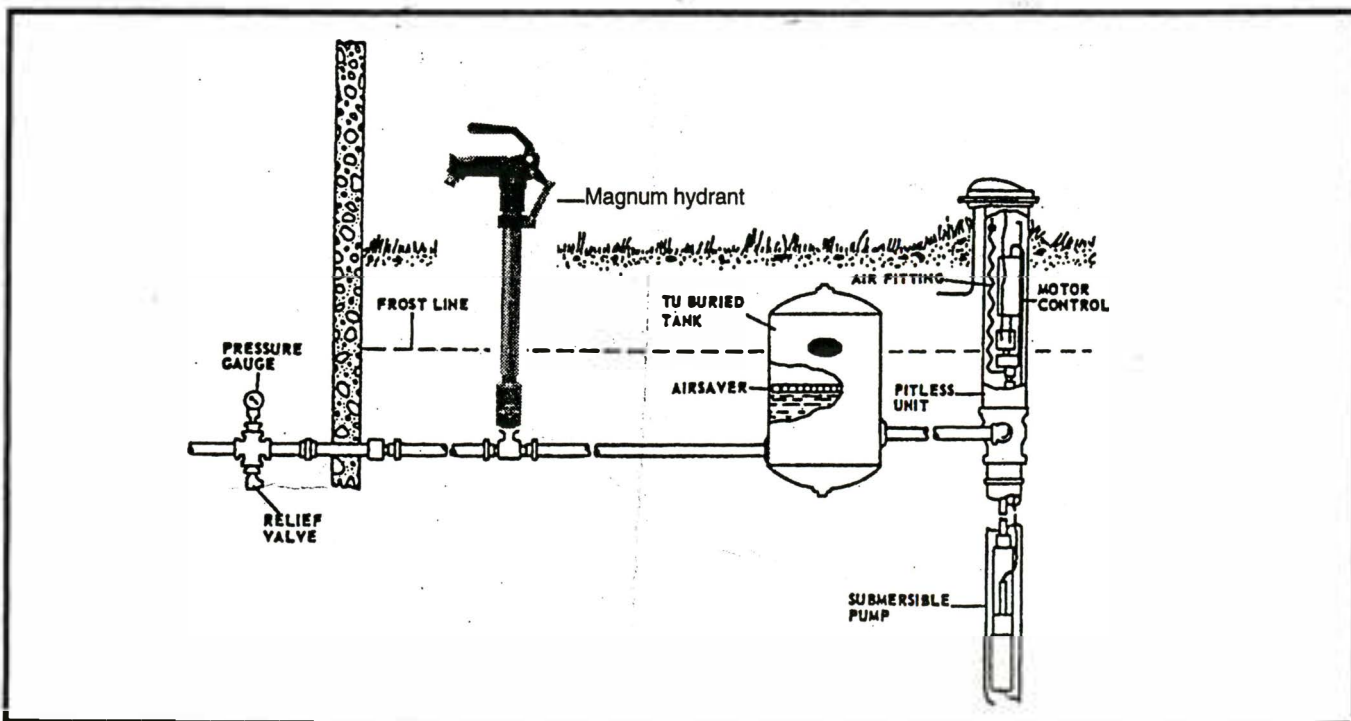


FIGURE 2 TYPICAL AT-THE-WELL SUBMERSIBLE PUMP INSTALLATION SHOWING OAWSP CONTROL KIT, 8AWC AIR FITTING AND TU AIR SAVER UNDERGROUND TANK.

5. Cut off the pump cable; 3 ft. above the top of the pitless case.
6. Connect pump cable to control box and/or make connection between control box and pressure switch. Run power line through conduit opening in pitless cap and attach to pressure switch.
7. Lubricate "O" rings (8) with Vaseline.
8. Lower complete control assembly into the pitless unit until the plug-in connection is engaged.
9. Start the submersible pump according to pump manufacturer's instructions.
10. Check pressure switch setting and complete installation by securing pitless unit cap.

TROUBLE-SHOOTING

Cycling of Pressure Switch may be caused by:

- A. Water-logged System.
Remedy: Replace mechanical air volume control with Float and/or drain or pressure-charge tank.
- B. Inadequate differential setting of pressure switch.
Remedy: Increase setting until cycling stops.
- C. Too small a discharge line.
Remedy: Replace line or install Monitor Buried Tank adjacent to pitless unit.

NOTE: If tank is installed beyond 15' of control, use at your own risk.

NOTE: Pressure relief valve is recommended on all installations - 120 PSI maximum.

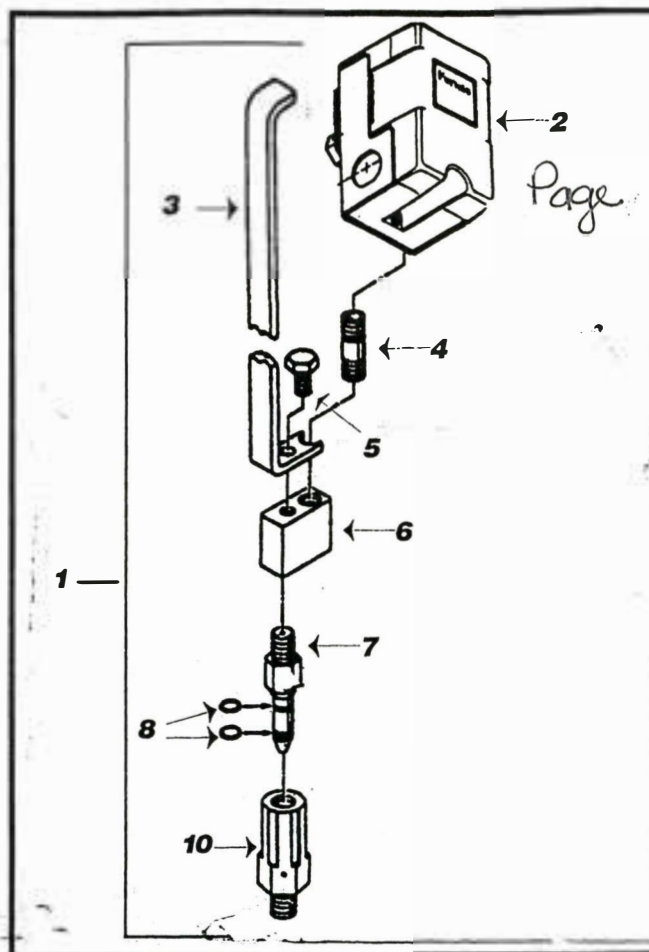


FIGURE-3 EXPLODED-VIEW OF 0AWSP CONTROL KIT

Model No.			0AWSP
Item	Qty	Description	Ord. No.
1	1	Plug-in Control Kit with pressure switch PS Units	0AWSP
1	1	Same as above, w/o pressure switch	0AWS
2	1	Pressure switch set 30-50 PSI.	334PC
3	1	Lift-out Bar - 2'	2PS
		Lift-out Bar - 3'	3PS
		Lift-out Bar - 4'	4PS
		Lift-out Bar - 5'	5PS
		Lift-out Bar - 6'	6PS
		Lift-out Bar - 7'	7PS
		Lift-out Bar - 8'	8PS
4	1	Galv. Pipe Nipple 1/4"-1-1/2"	PC332
5	1	Hex Head Cap Screw 5/16"-18NC x 1/2"	PS29
6	1	Mounting block	PS282
7	1	Male Plug-in Fitting	PR1A
8	2	"O" Rings	PS27
10	1	Female plug-in fitting	PS44

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BAKER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES OF ANY KIND WITH RESPECT TO THE GOODS, PARTS AND MATERIALS, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY AS TO MERCHANTABILITY OR AS TO THE FITNESS OF THE MERCHANDISE FOR A PARTICULAR USE AND SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECTLY OR INDIRECTLY, ARISING FROM THE USE OF SUCH MERCHANDISE OR FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.



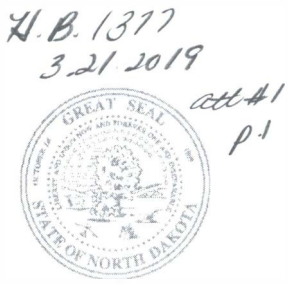


NORTH DAKOTA HOUSE OF REPRESENTATIVES

STATE CAPITOL
600 EAST BOULEVARD
BISMARCK, ND 58505-0360

Representative Jeffery J. Magrum

District 28
P.O. Box 467
Hazelton, ND 58544-0467
C: 701-321-2224
jmagrum@nd.gov



COMMITTEES:

Judiciary
Political Subdivisions

"Click here to type date"

Good afternoon Chairman Burckhard and committee members.

For the record I am Jeff Magrum representing district 28, south central ND east of the Missouri River.

I stand before you to introduce HB1377.

HB1377 is a bill to change 2 things in current statute.

#1 is in lines 11 and 18 of the bill before you. This change will allow the Governor to appoint a Geothermal System Driller (or one monitoring well contractor).

The reason for the change is the ND State Board of Water Well Contractors is having a difficult time getting Geothermal System Drillers to serve on the board. This change will create opportunity for more individuals to be eligible to serve on the board.

#2 is the continuing education requirements for Pump and Pitless Unit Installers will be separated from the well drillers requirements and reduced to 2 CE credits. The reason for the change is that Pump and Pitless Unit Installers do not drill wells and the changes in the industry are very minimal from year to year. Pump and Pitless Contractors work initially as an apprentice and then after one year become eligible to take the written test to become a certified installer. Certified Pump and Pitless Installers are required to provide a bond to protect well owners. This is a job that is legal to do on an individuals own property.

The Pump and Pitless Unit Installers as well as the ND State Board of Water Well Contractors agree that this change would be good for the water well industry and we respectfully ask for a do pass recommendation on HB1377.

Thank you Chairman Burckhard and committee members for your service to our state and I stand for any questions .

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3.21.2019
att #2 p.1

**NORTH DAKOTA
BOARD OF WATER WELL CONTRACTORS**

STATE OFFICE BUILDING 900 EAST BOULEVARD AVENUE
BISMARCK, NORTH DAKOTA 58505-0850
PHONE 701-328-2754 - FAX 701-328-3696

LOREN DEWITZ
BISMARCK
CHAIRMAN

JON PATCH
EX-OFFICIO, STATE ENGINEER DESIGNEE
SECRETARY-TREASURER
EXECUTIVE OFFICER

DAVE GLATT
EX-OFFICIO, STATE HEALTH OFFICER DESIGNEE



JOHN MOHL
BEULAH
VICE CHAIRMAN
WATER WELL

ROBERT OPP
GLEN ULLIN
WATER WELL

TERRY HEICK
BOWMAN
PUMP AND PITLESS

DAN LAHAISE
GRAFTON
GEOTHERMAL

North Dakota Board of Water Well Contractors
2018 Membership

Certification Type	Number of members
Geothermal	4
Monitoring Well	32
Monitoring Well - inactive	7
Pump and Pitless unit installers	24
Water Well	107
Water Well - inactive	12
Total	186
Active	167
Inactive	19

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3.21.2019
att H2 p.2

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DAVE GLATT
ND STATE HEALTH DEPT



JOHN MOHL
BEULAH
VICE CHAIRMAN
WATER WELL

ROGER SCHMID
BISMARCK
WATER WELL

MARVIN MANN
DICKINSON
PUMP AND PITLESS

DAN LAHAISE
GRAFTON
GEOTHERMAL

**Continuing Education Credits
For 2012-2013 Reporting Period**

Jeff Magrum
Magrum Excavating & Plumbing
Box 467
Hazelton, ND 58544
CN = 544

2012

Event: Goulds Meeting
Sponsor: Western Steel & Plumbing, Inc.
Date: March 15 2012
Topic: Goulds Pumps (2.0)
Total Hours = 2.0
Two hours were transferred to 2010-2011 for your 2012 renewal
Total = 0

Event: NDSD Drillers Convention
Date: March 5 & 6, 2012
Location: Bismarck, ND
Topics: Geology of ND & SD (1.0), Sampling Techniques (1.0), Gen-Pro (1.0), DOT (0), Certaineed Presentation (1.0), Franklin Electric (1.0), CETCO Presentation (1.0), Burk & Assoc. (1.0).
Total 7.0

2013

Event: Goulds Pump Meeting
Sponsor: Western Steel & Plumbing, Inc.
Date: February 21st 2013
Location: Bismarck, ND
Topic: Goulds Pumps (2.0)
Total Hours = 2.0

R. Harrison

43-35-13. Certificate - How obtained - Fee - Bond.

1. Any person who takes the examination to become a certified water well contractor must first complete a minimum of one-year apprenticeship or experience in water well drilling and construction under the direct supervision of a certified water well contractor or have completed a career and technical education program of at least one year in water well construction and shall make application to the board.
2. Any person who takes the examination to become a certified water well pump and pitless unit installer must first complete a minimum of one-year apprenticeship or experience in water well pump and pitless unit installation under the direct supervision of a certified water well pump and pitless unit installer or have completed a career and technical education program of at least one year in water well pump and pitless unit installation.
3. Any person who takes the examination to become a certified monitoring well contractor must first complete a minimum of one-year apprenticeship or experience in monitoring well construction under the direct supervision of a certified water well contractor or a certified monitoring well contractor or have completed a career and technical education program of at least one year in water well construction or hold a bachelor's degree in engineering or geology from an approved school and shall make application to the board.
4. Any person who takes the examination to become a certified geothermal system driller must first complete either a minimum of one year of apprenticeship under the direct supervision of a certified geothermal system driller or have a minimum of two thousand forty installation hours of experience in geothermal system drilling working under the direct supervision of a certified geothermal system driller, or, in the alternative, must first complete career and technical education relating to geothermal system drilling lasting at least one school year.
5. A person applying to take a certification examination shall pay to the board treasurer a nonrefundable examination fee in the amount of one hundred dollars. If upon examination the applicant is found to be qualified as a water well contractor, a water well pump and pitless unit installer, a monitoring well contractor, or a geothermal system driller, the board shall issue to that person an appropriate certificate upon the applicant's executing and filing with the board a bond as required in this chapter. The board may offer a combined examination for certification of a person as a water well contractor and a water well pump and pitless unit installer and may issue a single certificate for successful completion of the combined examination. Certificates issued under this chapter are not transferable.

43-35-14. Bond required.

Before receiving a certificate under this chapter, a qualified applicant shall execute and deposit with the board a surety bond conditioned for the faithful performance of all water well, monitoring well, pump and pitless unit, or geothermal system installation contracts undertaken by the applicant and the strict compliance with this chapter. The required amount of a surety bond is fifteen thousand dollars for a water well contractor and is two thousand dollars for a monitoring well, pump and pitless unit, or geothermal system installation contractor.

43-35-15. Certification of persons previously engaged in contracting.

Repealed by S.L. 2011, ch. 325, § 3.

43-35-15.1. Certification of persons engaged in installation of water well pumps and pitless units prior to certification requirement.

Repealed by S.L. 2011, ch. 325, § 3.

43-35-15.2. Certification of persons engaged in monitoring well contracting prior to certification requirement.

Repealed by S.L. 2011, ch. 325, § 3.

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43-35-15.3. Certification of persons engaged in drilling of geothermal systems before certification requirement.

Repealed by S.L. 2011, ch. 325, § 3.

43-35-16. Display of certification.

The board shall furnish each certified water well contractor a decal for each drill rig the contractor owns or leases. Such decal must be displayed in a conspicuous place on the drill rig.

43-35-17. Renewal of certificate - Continuing education.

A certificate issued under this chapter is valid for up to one year and expires on the thirty-first day of December in the year of issuance. The certificate may be renewed by the board upon application. Every two years the application must include reporting information that the applicant completed six hours of continuing education during the two-year reporting cycle which meets continuing education standards adopted by the board. The application must be made before April first in the year following the certificate's expiration, must be accompanied by a fee in an amount set by the board not to exceed two hundred dollars, and must be accompanied by a bond as provided in section 43-35-14.

43-35-18. Firm engaged in water well work to employ certified water well contractor - Exception.

No person, partnership, association, corporation, or limited liability company shall engage in the business of constructing a water well in this state unless at all times a certified water well contractor, who is responsible for the proper construction or alteration thereof, is in charge; provided, however, that nothing in this chapter shall be construed so as to prohibit any person, partnership, association, corporation, or limited liability company from constructing any water well on the person's or entity's own premises for the person's or entity's own use.

43-35-18.1. Firm engaged in installation of water well pump and pitless units to employ certified installer - Exception.

No person may engage in the business of installing water well pumps and pitless units in the state after July 1, 1986, unless a certified installer, who is responsible for the proper installation of the pump and pitless unit, is in charge of the installation. This chapter does not prohibit any person from installing water well pumps and pitless units on that person's own premises for that person's own use.

43-35-18.2. Firm engaged in monitoring well work to employ certified monitoring well contractor - Exception.

No person may engage in the business of constructing a monitoring well in this state unless at all times a certified monitoring well contractor, who is responsible for the proper construction or alteration thereof, is in charge. This section does not prohibit any person from installing monitoring wells on that person's own premises for that person's own use.

43-35-18.3. Firm engaged in drilling of geothermal systems to employ certified driller - Exception.

A person may not engage in the business of drilling geothermal systems in the state after July 1, 2008, unless a certified driller, who is responsible for the proper drilling of the geothermal system, is in charge of the drilling. This chapter does not prohibit a person from drilling geothermal systems on that person's own premises for that person's own use.

43-35-19. Standards for well drilling - Reports required.

All construction of water wells must comply with the rules adopted by the state department of health. Within thirty days after the completion of each well, each water well contractor shall furnish to the board on forms provided by the board such information as the state department of health shall require, including a log of formations penetrated, well depth, and casing size and

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2018 PUMP AND PITLESS UNIT CERTIFICATION RENEWAL
NORTH DAKOTA BOARD OF WATER WELL CONTRACTORS
STATE OF NORTH DAKOTA
SFN 60271 (10/2017)

Certificate Number

ND Board of Water Well Contractors
900 E. Boulevard Ave.
Bismarck, ND 58505-0850
e-mail: jschacher@nd.gov

The undersigned makes application to renew a North Dakota Pump and Pitless Unit Contractor's Certificate under provisions of Chapter 43-35 of the North Dakota Century Code.

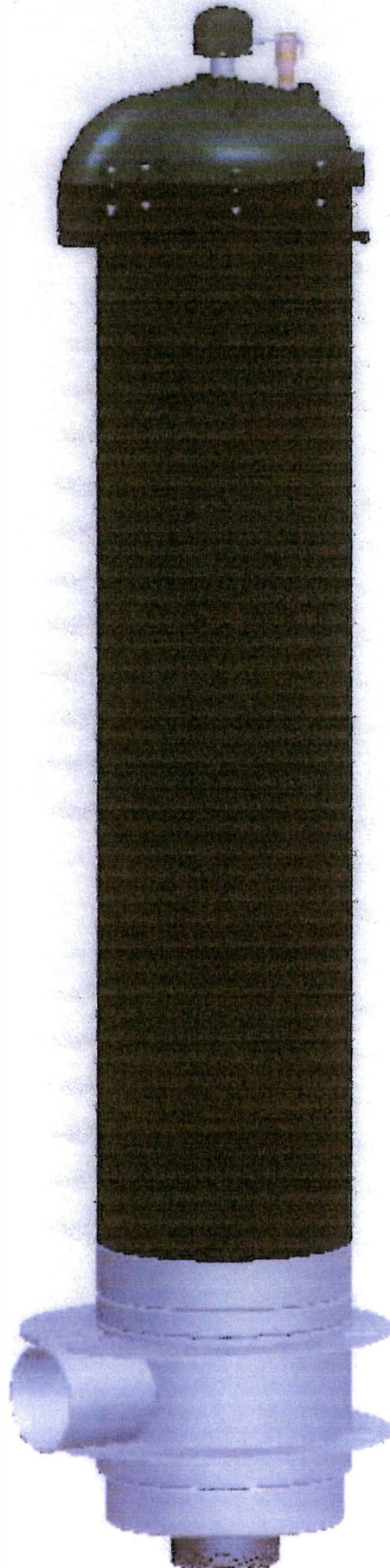
Renewal Forms are also on the web at www.bwwc.nd.gov (ND Water Well Contractors).

ACTIVE = \$100.00 (license to drill) ☐

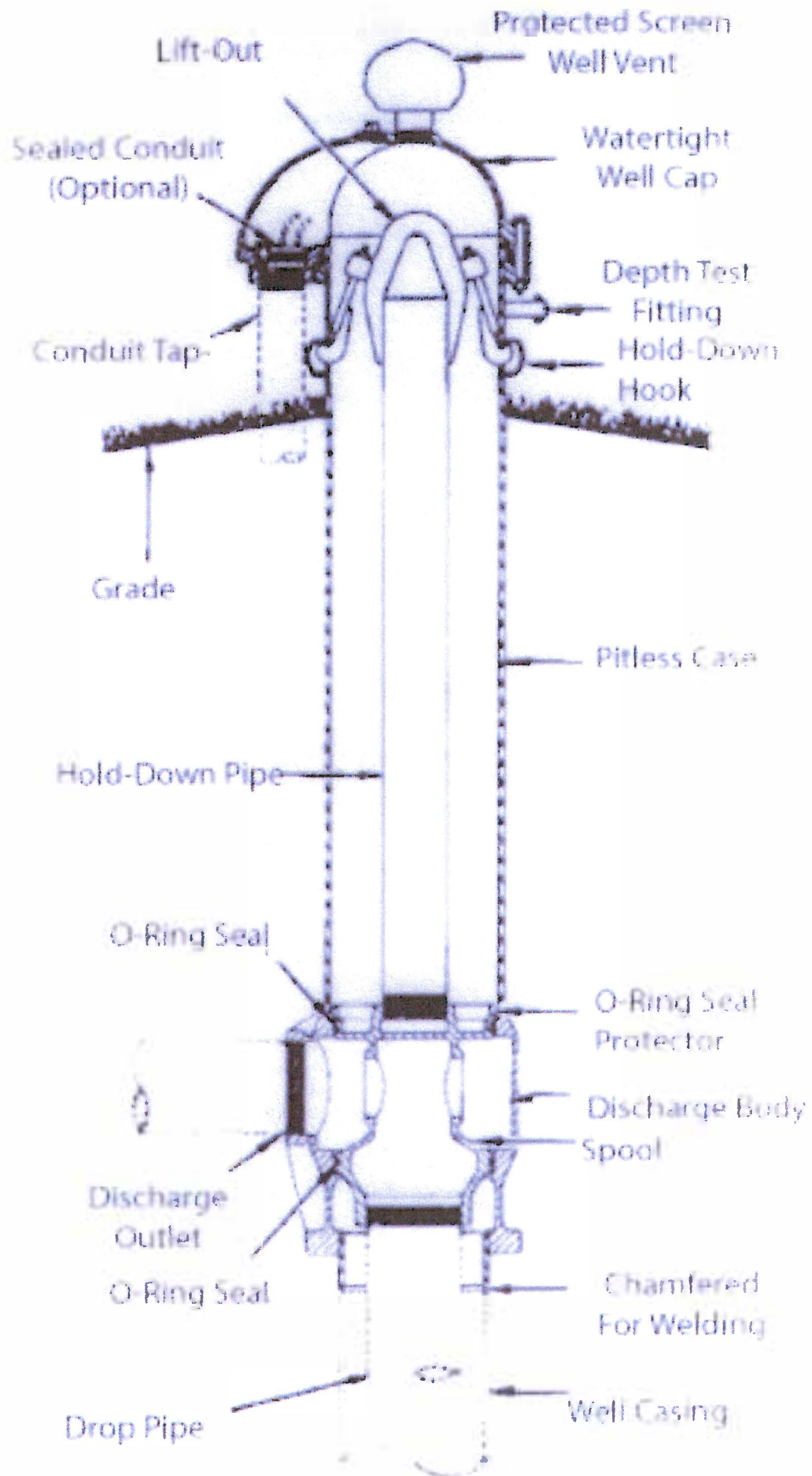
INACTIVE = \$50.00 (hold license only) ☐

Name of Applicant		
Name of Company		
Address		
City	State	ZIP Code
Telephone Number	Cell Number	
Email Address		
How many <u>new</u> pumps or pitless units did you install in North Dakota in 2017?		
Continuing Education Credits earned in 2017.		
How many (small) 2018 decal stickers do you need?		
Large decals are available upon request. If you acquire new equipment, etc., send us an email or call to request a new one. Please limit decals to ONE per rig, etc.		
Payment Included	<input type="checkbox"/> Check No. <input type="checkbox"/> Money Order <input type="checkbox"/> Cash	Amount
Signature	Date	

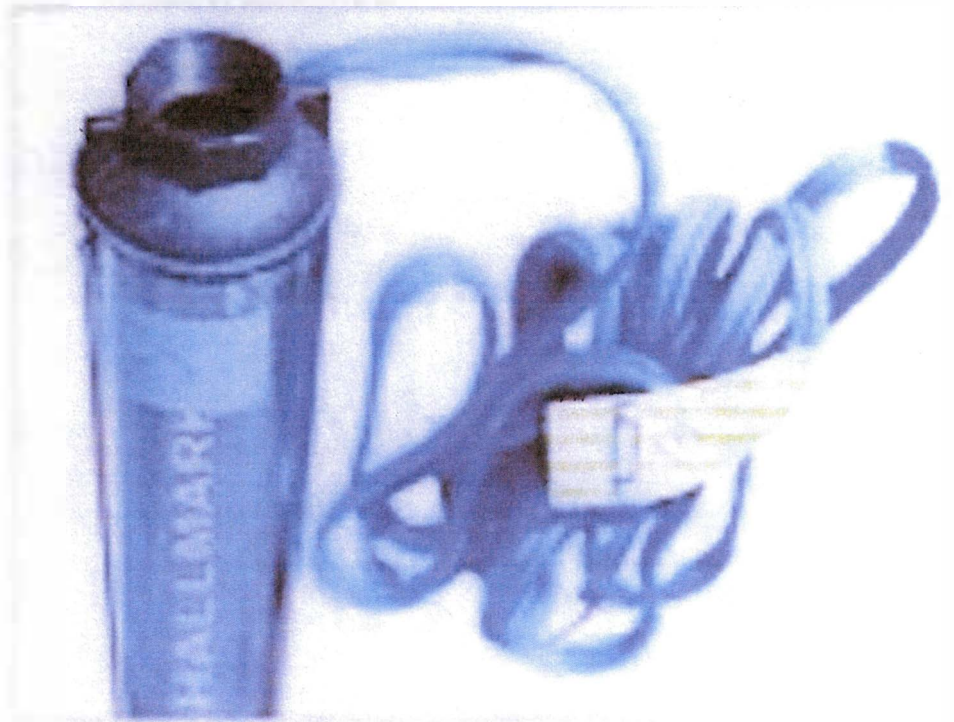
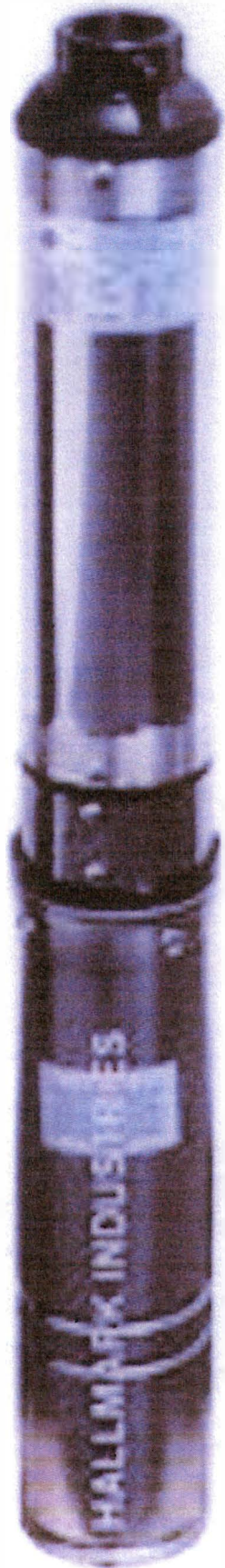
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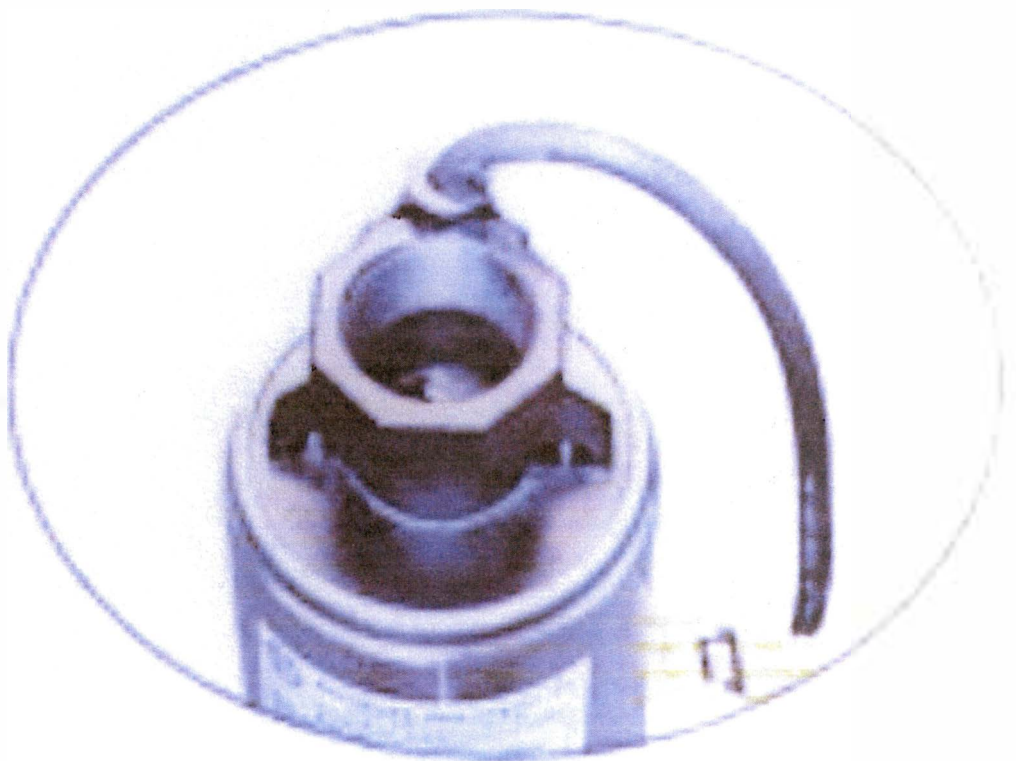
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Electric Cable



1-1/4" NPT

Monitor AW

INSTRUCTION MANUAL AT-THE-WELL PLUG-IN CONTROL KITS FOR SUBMERSIBLE PUMPS

GENERAL

This Manual applies to Control Kits with the following Ordering Numbers:

- (2-8) OAWSP
- (2-8) OAWS

Follow the instructions for installing the Monitor Pitless Unit to the point where the spool or Drop-Pipe Fitting Assembly is attached to the Drop-Pipe, then proceed with the following, (numbers in "()" refer to Figure 3):

1. Remove 3/8" Pipe Plug from Spool or Drop-Pipe Fitting.
2. Dope threads of female plug-in fitting (10) and screw into spool or drop-pipe fitting.
3. Pull pump cable up through spool or drop-pipe fitting assembly and then lower complete assembly into pitless case.
4. Bolt lift-out bar (3) to mounting block (6) and if a motor control box is installed at the well, bolt it to the lift-out bar. Note: If pressure switch is not supplied with control kit, it should be installed before attaching lift-out bar.

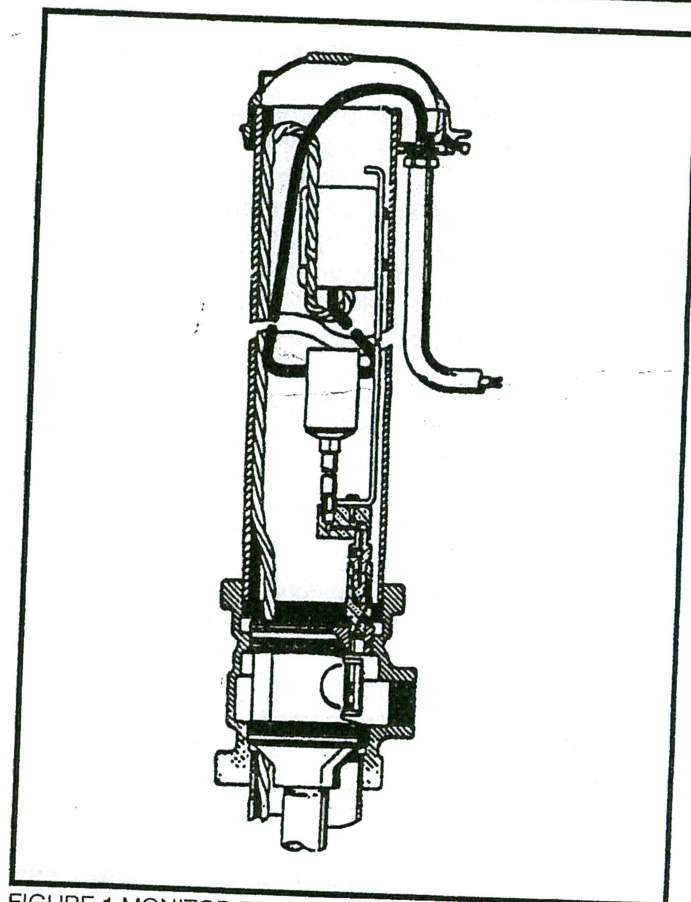


FIGURE 1 MONITOR PS UNIT CUTAWAY TO SHOW OAWSP CONTROL KIT INSTALLED IN OPERATING POSITION.

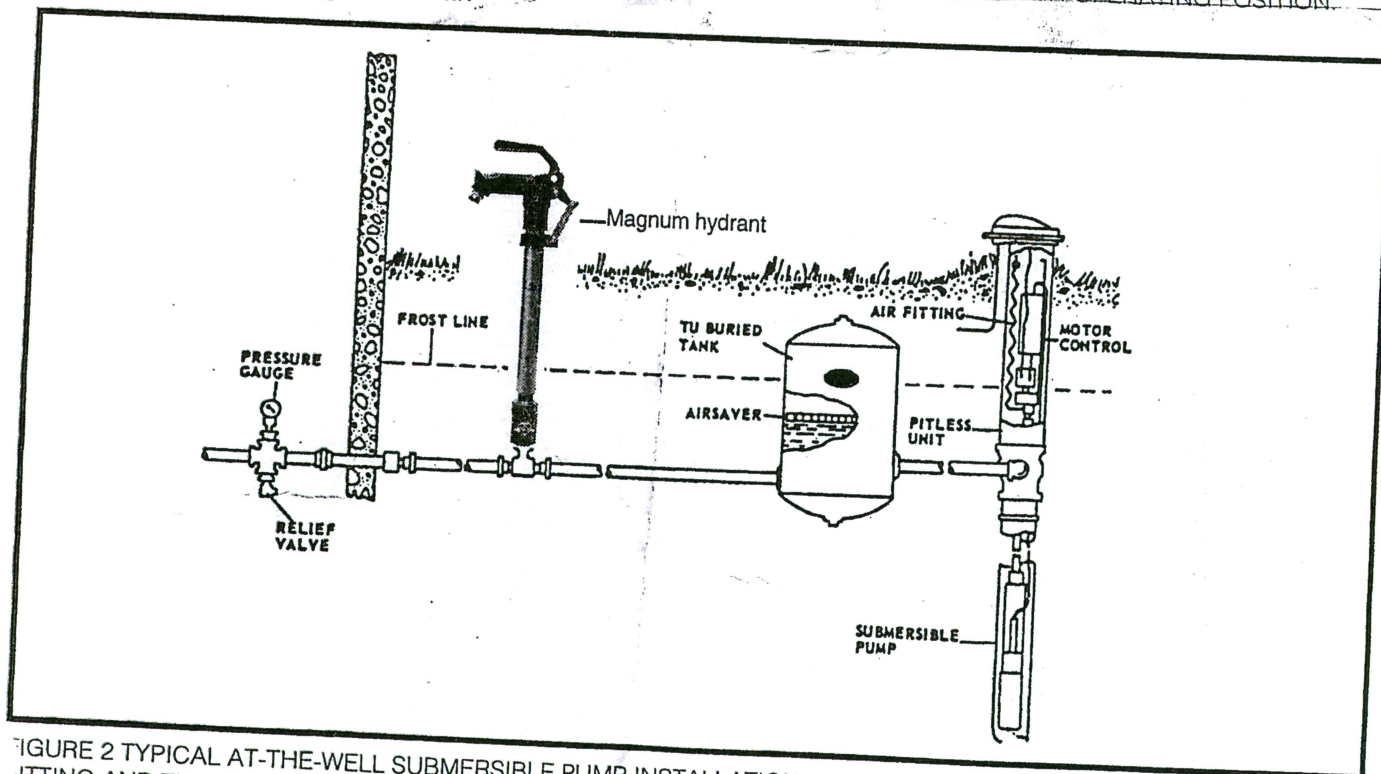


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8. Lower complete control assembly into the pitless unit until the plug-in connection is engaged.
9. Start the submersible pump according to pump manufacturer's instructions.
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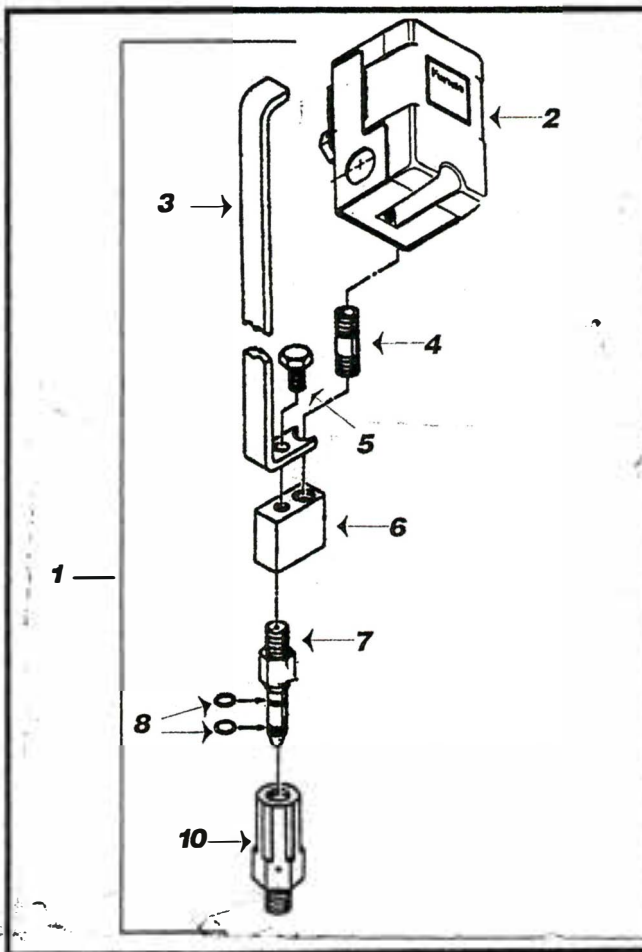


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