



WATER WELL RECORD

Date 04/08/05

NTS MAP, WELL No., ELEV, Location Accuracy, Date 19, Well Type

Owners Name & Address MAYHEW FARMS, Legal Description & Address 5575 MOORE RD

Descriptive Location

1. TYPE OF WORK: 1 New Well, 2 Reconditioned, 3 Deepened, 4 Abandoned

2. WORK METHOD: 1 Cable tool, 2 Bored, 3 Jetted, 4 Rotary, a mud, b air, c reverse, Other

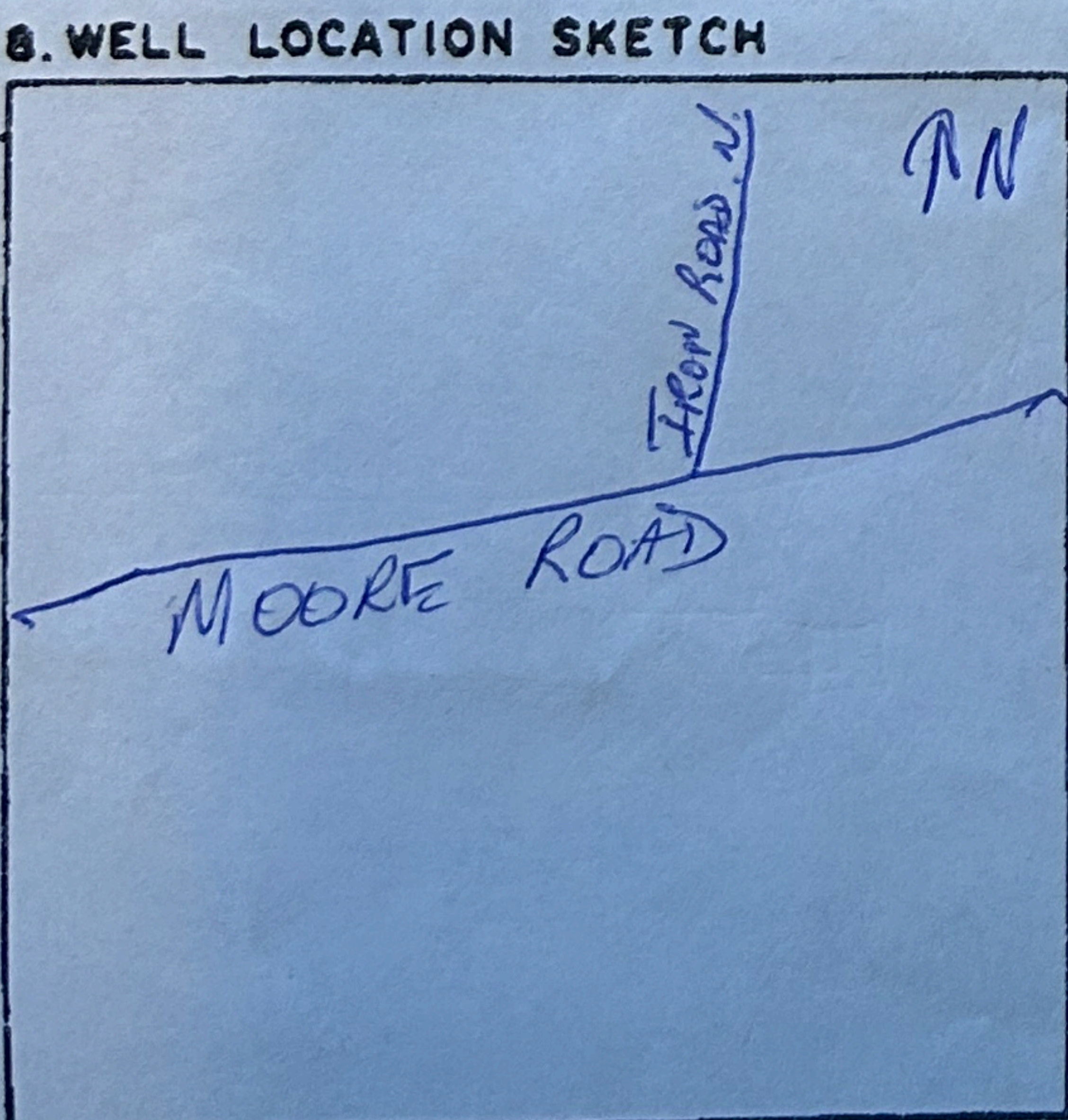
3. WATER WELL USE: 1 Domestic, 2 Municipal, 3 Irrigation, 4 Comm. & Ind, Other

4. DRILLING ADDITIVES NONE

5. MEASUREMENTS from 1 ground level, 2 top of casing, casing height above ground level

6. WELL LOG DESCRIPTION table with columns FROM, TO, SWL and log description: 0-12 Brown Clay, 12-15 Brown HARD PAN, 15-82 GREY HARD PAN, 82-90 GRAVEL + WATER

7. CONSULTANT Address



9. CASING Materials: 1 Steel, 2 Galvanized, 3 Wood, 4 Plastic, 5 Concrete, Other

Table for casing materials with columns: Hole Diameter, Diameter, from, to, Thickness, Weight, units

Pitless unit: 1 above, 2 below ground level

1 Welded, 2 Cemented, 3 Threaded, 1 New, 2 Used

Perforations, Shoe(s): 1 1/2", Open hole, from, to, Diameter, Grout

10. SCREEN: 1 Nominal (Telescope), 2 Pipe Size, Type: 1 Continuous Slot, 2 Perforated, 3 Louvre, Other, Material: 1 Stainless Steel, 2 Plastic, Other, Set from, to

RISER, SCREEN & BLANKS table with columns: Length, Diam. I.D., Slot Size, from, to, units

Fittings, top, bottom, Gravel Pack

11. DEVELOPED BY: 1 Surging, 2 Jetting, 3 Air, 4 Bailing, 5 Pumping, Other

12. TEST: 1 Pump, 2 Bail, 3 Air, Date, Rate USgpm, Temp, SWL before test, Water Level after test of

Table for drawdown and recovery with columns: mins, WL, mins, WL, mins, WL, mins, WL

13. RECOMMENDED PUMP TYPE, RECOMMENDED PUMP SETTINGS, RECOMMENDED PUMP RATE

14. WATER TYPE: 1 fresh, 2 salty, 3 clear, 4 cloudy, colour, smell, gas: 1 yes, 2 no

15. WATER ANALYSIS: 1 Hardness, 2 Iron, 3 Chloride, 4 pH, Field Date, Lab Date

SITE I.D. No, Lab Date

16. FINAL WELL COMPLETION DATA: Well Depth 910 ft, Well Yield 210 US gpm, Static Water Level 510 ft, Back filled, Well Head Completion

17. DRILLER: BEAMAKID, Signature: Jane Beamakid

18. CONTRACTOR: WATERFALL DRILLING, Address: 7000 Beaver Rd., Prince George, B.C. V2N 6E6, (250) 963-3406, Member, BCWVOA

7000 Beaver Road
Prince George, B.C. V2N 6E6
(250)963-3406

INVOICE
0143

G.S.T. #140309550

Name MAYHEW FARMS
Address 5575 MOORE ROAD

LOCATION	PROV. TAX No.	ESTIMATED YIELD		
DATE COMPLETED <u>Aug 12/04</u>	DEPTH	STATIC LEVEL	HOLE SIZE	TERMS
DATE	DESCRIPTION			AMOUNT
	1-3/4 Hp pump 1-PTLESS ADAPTER			
	1- WELL CAP 1- CONTROL BOX			
	100 feet poly B plastic 1 inch pipe.			
	85 feet Twos 1/2 WIRE			
	25 feet 1/2 TECK WIRE			
	5 yr WARRANTY			
	<u>HABOUR</u>			1,731.00
	7% G.S.T			121.10
	PAID IN Fuel			1
	Aug 12/04 <i>June Bernard</i>			
	TOTAL			1,851.10

Spee-Dee Printers

WATERFALL DRILLING
7000 Beaver Road
Prince George, B.C. V2N 6E6
(250)963-3406

INVOICE
0141

G.S.T. #140309550

Name MAYHEW FARMS
Address 5575 MOORE RD

LOCATION	PROV. TAX No.	ESTIMATED YIELD		
DATE COMPLETED <u>Aug 5/04</u>	DEPTH <u>90 feet</u>	STATIC LEVEL <u>50 feet</u>	HOLE SIZE <u>20 gal per min</u> <u>6"</u>	TERMS
DATE	DESCRIPTION			AMOUNT
	90 feet at \$28 per foot			2,520.00
	7% G.S.T			176.40
	TOTAL			2,696.40

Spee-Dee Printers



Installation Instructions McDonald Submersible Pumps

INSTALLATION RECORD

Date of Installation April 9/22

Model Number _____ Serial Number 23975K

Depth of Well (Feet) _____ Depth to Water (Feet) _____

Pump Setting (Feet) 90 ft Riser Pipe Size _____

Wire Size (From Pump to Control Box) _____

Wire Size (From Control to Power) _____

Motor _____ Amps _____ H.P. _____ Volts _____

Control Box _____ Amps _____ H.P. _____ Volts _____

IMPORTANT

While this pump will handle moderate amounts of sand and abrasive materials, it must be understood that the life of the pump will be shortened. Therefore, do not install this pump in wells which continue to produce sand. The motor has been completely pre-filled at the factory and requires no further attention.

1. INSPECT THE EQUIPMENT

Before going on the job, open all packages and check all equipment to be certain everything is included and that no parts have been damaged during shipment. The pump should be checked for free rotation, and the motor and name plate inspected to be sure they are the correct horsepower, voltage and phase.

FOR TWO-WIRE MOTORS: A separate fused disconnect switch with properly sized fuses must be provided between the power supply and the pressure switch.

Always run a separate circuit from the entrance panel to a fused disconnect switch. NEVER connect a submersible to a plug outlet.

Select the correct size cable from the cable selection chart.

2. EXTREME TEMPERATURES

The submersible motors on all McDonald units are constructed so that they will not be damaged by exposure to temperatures below freezing. It may be that in some cases the solution in the motor may be frozen in transit to the installation site. If so, the motor should be warmed sufficiently to thaw it before installing in the well.

These motors may be installed in wells where the water temperature is as high as 95°F. For higher temperature installation, consult the factory.

5. GROUNDING

WARNING: Failure to ground electrically operated equipment may result in serious electric shock. Refer to local code requirements.

A. Y. McDonald Mfg. Co. provides submersible motors with ground wires. This ground wire has green insulation (for color coding). Some two and three wire pumps with ground have the ground-wire as part of the lead assembly, and green/ground wire should be attached to the drop-cable, ground wire similar to the power-wire splice connections.

For two-wire and three-wire pumps without the ground wire in the lead assembly, the green/ground wire should be attached to the most convenient motor stud. With the appropriate length of insulation removed, make a complete loop which fits securely around the motor stud and fasten firmly in place with the first jam nut. Then, lock the assembly in place by tightening the second jam nut against the first jam nut. If stranded ground wire is used in-lieu-of the McDonald-supplied solid copper wire, a ring terminal must be crimped on the wire before attachment to the two-wire motor stud.

3. WATER SUPPLY

The well casing must be 4" inside diameter or larger to accept the submersible pump and motor. Do not install the pump closer than 10 feet to bottom of well as warranty applies only when pumping clean well water.

A common method to prevent over-pumping wells is to leave the gate valve (see testing pump before connecting to tank), partly closed in the line. Another method is to use liquid level controls tied in with the pump pressure switch. These liquid level control devices provide automatic protection and should be installed according to manufacturers' recommendations.

6. NUMBER OF STARTS

An excessive number of starts will lead to difficulties with pump motors and their associated controls. For maximum pump-motor life and minimum troubles, installations should be sized so that:

Motor Rating HP	Maximum # starts per 24hr day	
	SINGLE-PHASE	THREE-PHASE
1/2 - 1	300	300
1 1/2 - 5	100	300
7 1/2 - 10	-	200

4. MOTOR PROTECTION

The normal thermal overload relays or heaters used for standard motors will not trip fast enough to protect a submersible motor, and special extra quick-trip protection must be used.

For single-phase motors, this protection is provided by the specially designed and selected protection in the control box.

For three-phase submersible motors, protection must be provided by the thermal overload relays in the magnetic motor starter.

WARRANTY OF THREE-PHASE SUBMERSIBLE MOTORS IS VOID IF PROPER QUICK-TRIP PROTECTORS ARE NOT USED ON ALL THREE LINES.



WARNING: It is unlawful in CALIFORNIA & VERMONT (effective 1/1/2010); MARYLAND (effective 1/1/2012); LOUISIANA (effective 1/1/2013) and the UNITED STATES OF AMERICA (effective 1/4/2014) to use any product in the installation or repair of any public water system or any plumbing in a facility or system that provides water for human consumption if the wetted surface area of the product has a weighted average lead content greater than 0.25%. This prohibition does not extend to service saddles used in California, Louisiana or under USA Public Law 111-380.