

**Questions Received for Well 9 Hydrogeologic Assessment:**

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**Q – Do you have a relatively recent well evaluation report with pumping test and water quality data?**

**A – No recent info. The last time the well was really looked at was when the City built a new well house which would have been 20+ years ago. (water level data attached to end of addendum).**

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**Q – Do you have time series of pumped volumes on the same graph as a time series of static and pumping water levels?**

**A – We haven't pumped the well since our new SCADA system was installed so I don't have this info either**

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**Q – Do you have a timeline of the odor occurrence (e.g. multi-year trend or seasonal trend?)**

**A – Our water staff are new enough that most of them haven't run the well, so I don't know if it is year-round or seasonal.**

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**Q – Is it acceptable to submit our PDF proposal via email given current COVID-related statewide restrictions (in lieu of submitting a hard copy).**

**A – Yes, an email copy will be sufficient.**

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**Q – Are you able to provide documents (such as comprehensive plan or water system master plan) for the City.**

**A – The City is not sharing these documents at this time. We will share documents with the selected consulting firm as needed for the project.**

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**Q – Does the 10 page limit mean we can print double-sided on 10 pieces of paper, meaning we would be providing 20 pages of content?**

**A – Yes, 10 pages double sided or 20 pages of content total.**

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**Q – Do you have a well driller's report for the well?**

**A – The well was originally drilled for a cannery in the 50s and the City took ownership in the late 1990s. I can't find any driller's report for the well. I do have the original well log and the alteration well log for installing a liner (UMAT 3965 & 51825).**

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**Q – The RFQ describes the well as having an odor issue. Is the odor hydrogen sulfide (rotten egg smell)? Has the well had this problem for a long time or is it a recent problem? Does the City have other wells that do not have this problem and if so can driller’s logs be provided for those wells?**

**A - Yes, my understanding is that it is a hydrogen sulfide smell. This is the only City well that has then problem. The City hasn’t used the well in almost five years due to these issues - so I am not sure how long the problem has been occurring. I’ve attached well logs for the wells to the north (Well 1 UMAT-3960,3961 & 5999 and Well 2 UMAT-3962) and south (Well 8 UMAT-4005 & 4010).**

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**Q - The RFQ describes the well as having excessive pumping drawdown. Is this a recent problem? Is there water level data available to support the statement, is there information available on the pump setting depth? What is the current yield versus historical yield?**

**A - I do not know how long the excessive drawdown has been happening since the well hasn’t been in use and all of our old-timer staff retired before I started. We have some water level info, but not a lot. I’ve attached what we have. I will have to pull the old files for the well to see if there has been a change in yield. I’ve also attached the info I have for pump setting depth.**

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# City of Milton-Freewater

Well 9 Hydrogeologic Assessment - Contract 296

## Proposal Scoring Record

Name of Proposing Firm: \_\_\_\_\_

**Preliminary Scoring Instructions:** Answer by circling a **YES** if the requirement was met or a **NO** meaning the requirement was not met:

- Proposal is within the allowed 14 pages in length: **YES** **NO**

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### Scoring Instructions:

For each criterion below circle the best score as determined for the proposal with 1 being the lowest score and 5 being the highest score.

1. Demonstrates and outlines previous related experience and performance on similar planning projects (i.e. previous well assessments).

**1 LOW                      2                      3                      4                      5 HIGH**

2. Demonstrates the ability to commit qualified staff and resources to the project. (i.e. employs or has access to adequate staff and the ability to begin and complete such project in a timely and workmanlike manner based on workload and ability/qualifications.)

**1 LOW                      2                      3                      4                      5 HIGH**

3. Previous work shows ability to satisfactorily perform and complete project. (i.e. on meeting deadlines, quality of work and budget.)

**1 LOW                      2                      3                      4                      5 HIGH**

4. Demonstrates their proximity and familiarity with the location of the project. (i.e. response time to project, availability, familiar with location, weather conditions and any other factors that may or may not contribute to potential setbacks or delay of the completion of such work).

**1 LOW                      2                      3                      4                      5 HIGH**

5. Proposed pricing, policies and applicability to project are within scope of budget and range for similar services and/or projects. (i.e. pricing is clearly outlined as well as policies for payment, responses, etc. as applicable with a project of such size and requirements).

**1 LOW                      2                      3                      4                      5 HIGH**

TOTAL SCORE: \_\_\_\_\_/25 TOTAL

Scored by: \_\_\_\_\_

Date: \_\_\_\_\_

City of Milton-Freewater  
Public Works Department

**Well #** 9  
**Location:** S. Main Street  
**Well Depth:** 913' deep

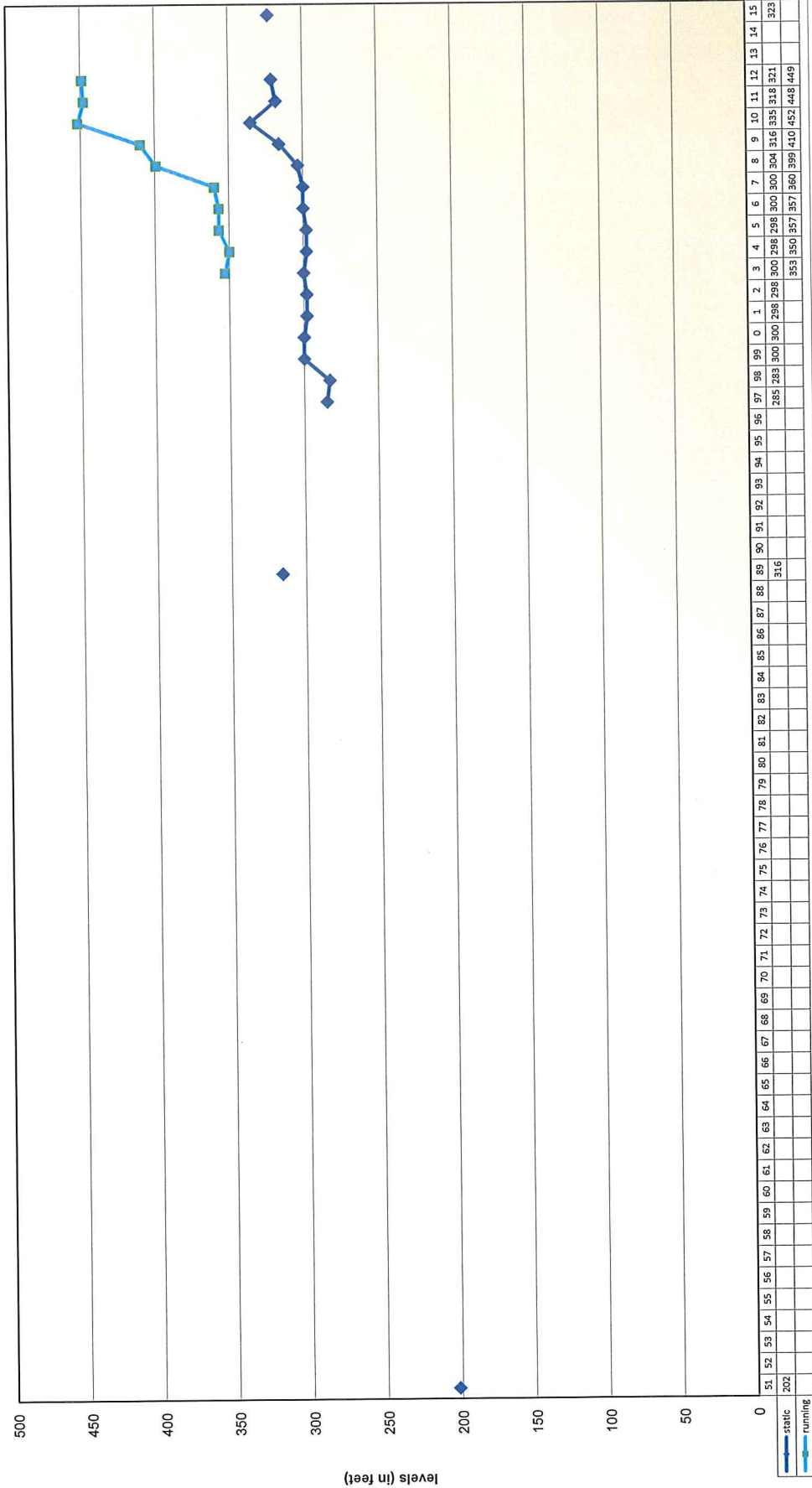
**Pump Depth:** N/A

| Year | Static | Running |
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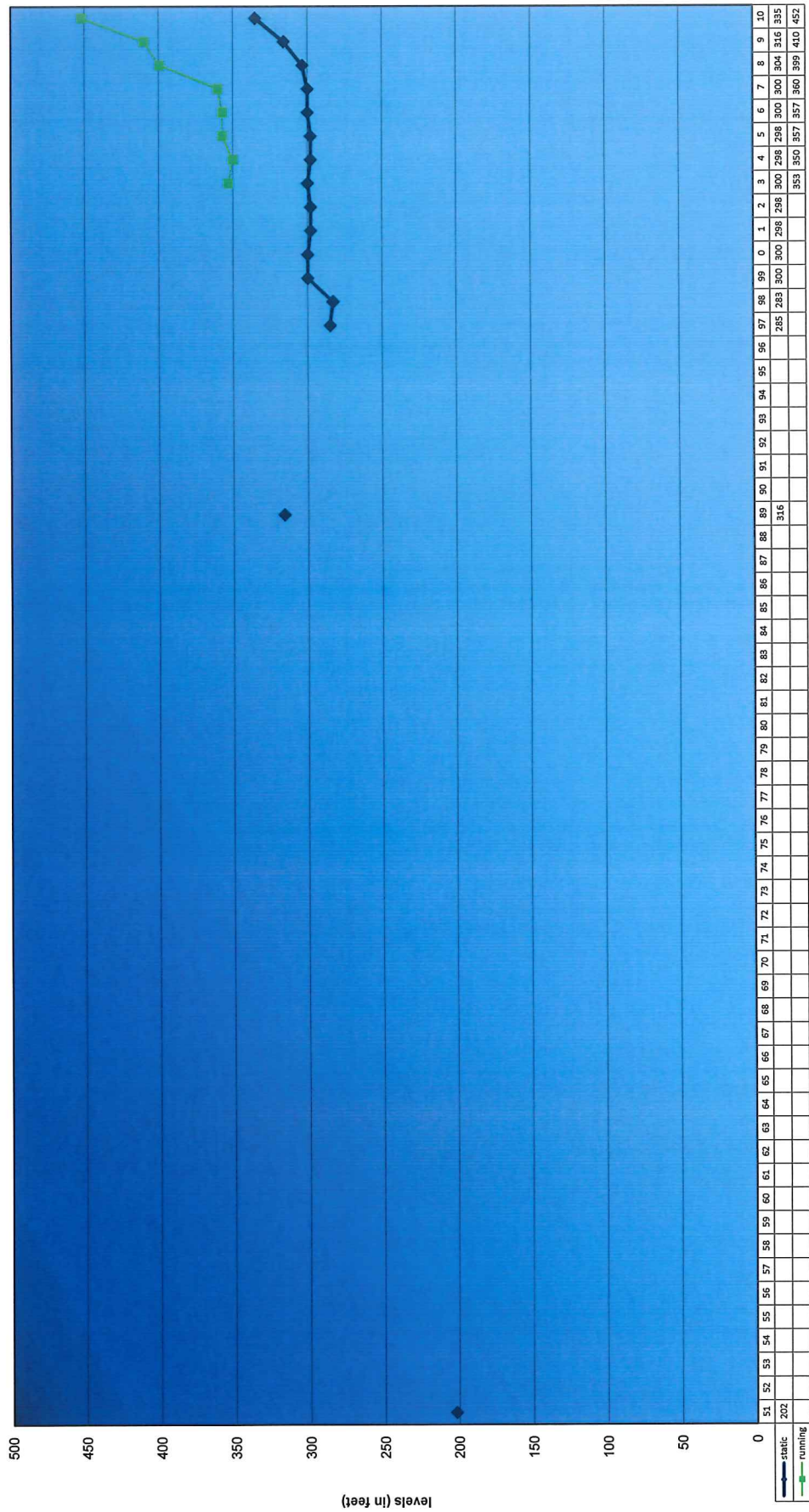
| Year | Static | Running |
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| 1996 |        |         |
| 1997 | 285    |         |
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| 2005 | 298    | 357     |
| 2006 | 300    | 357     |
| 2007 | 300    | 360     |
| 2008 | 303.51 | 399.37  |
| 2009 | 316    | 410     |
| 2010 | 335    | 452     |
| 2011 | 318    | 448     |
| 2012 | 321    | 449     |
| 2013 |        |         |
| 2014 |        |         |
| 2015 | 323    |         |

# Well #9

913' deep



# Well #9 913' deep



City of Milton-Freewater  
Public Works Department

Well # 9

Location: S. Main Street

Well Depth: 913' deep

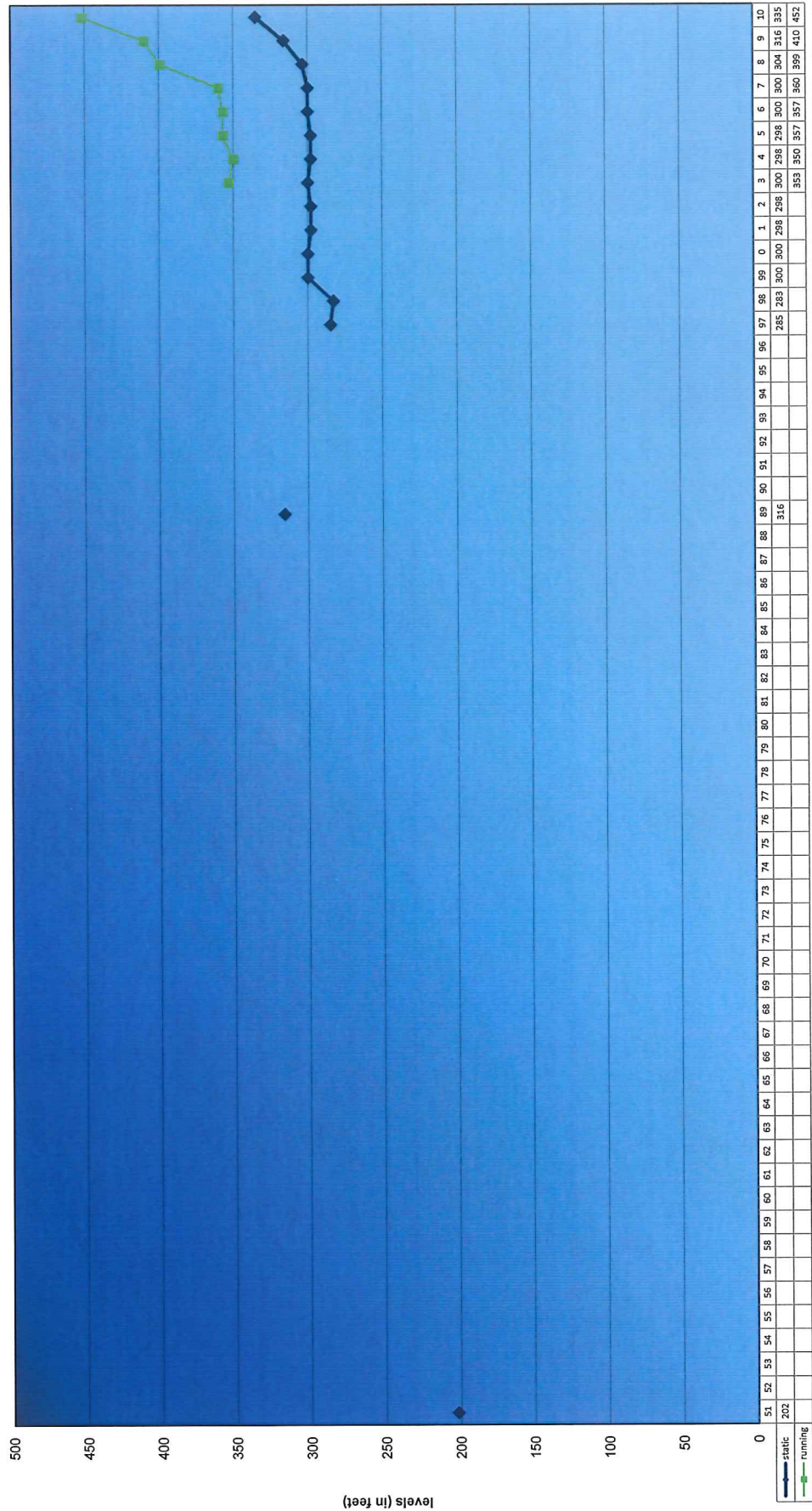
| Year | Static | Running |
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Pump Depth: N/A

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| 1997 | 285    |         |
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2015      323      N/A

# Well #9 913' deep





City of Milton-Freewater  
Public Works Department

**Well #** 9

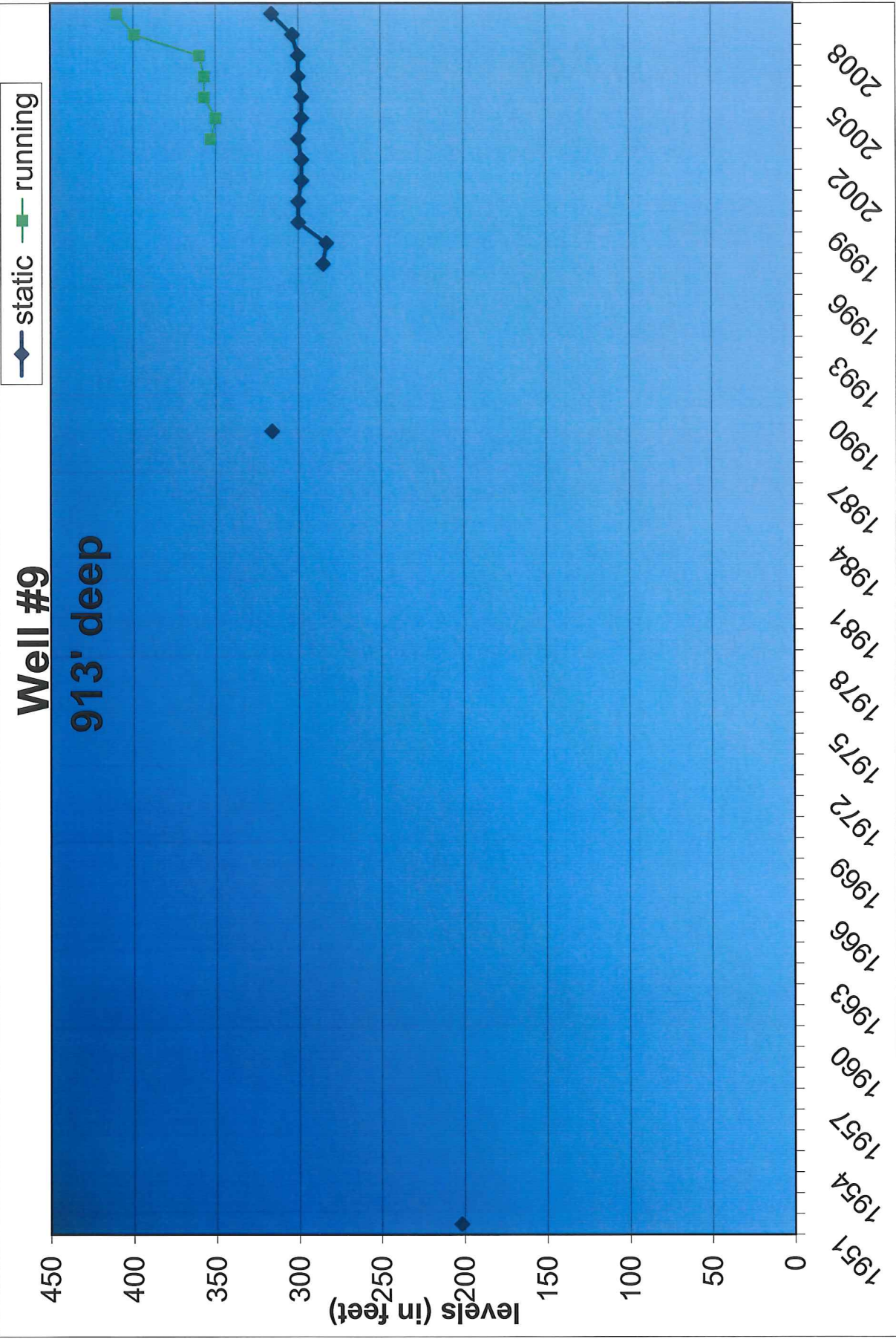
**Location:** S. Main Street

**Well Depth:** 913' deep

**Pump Depth:** N/A

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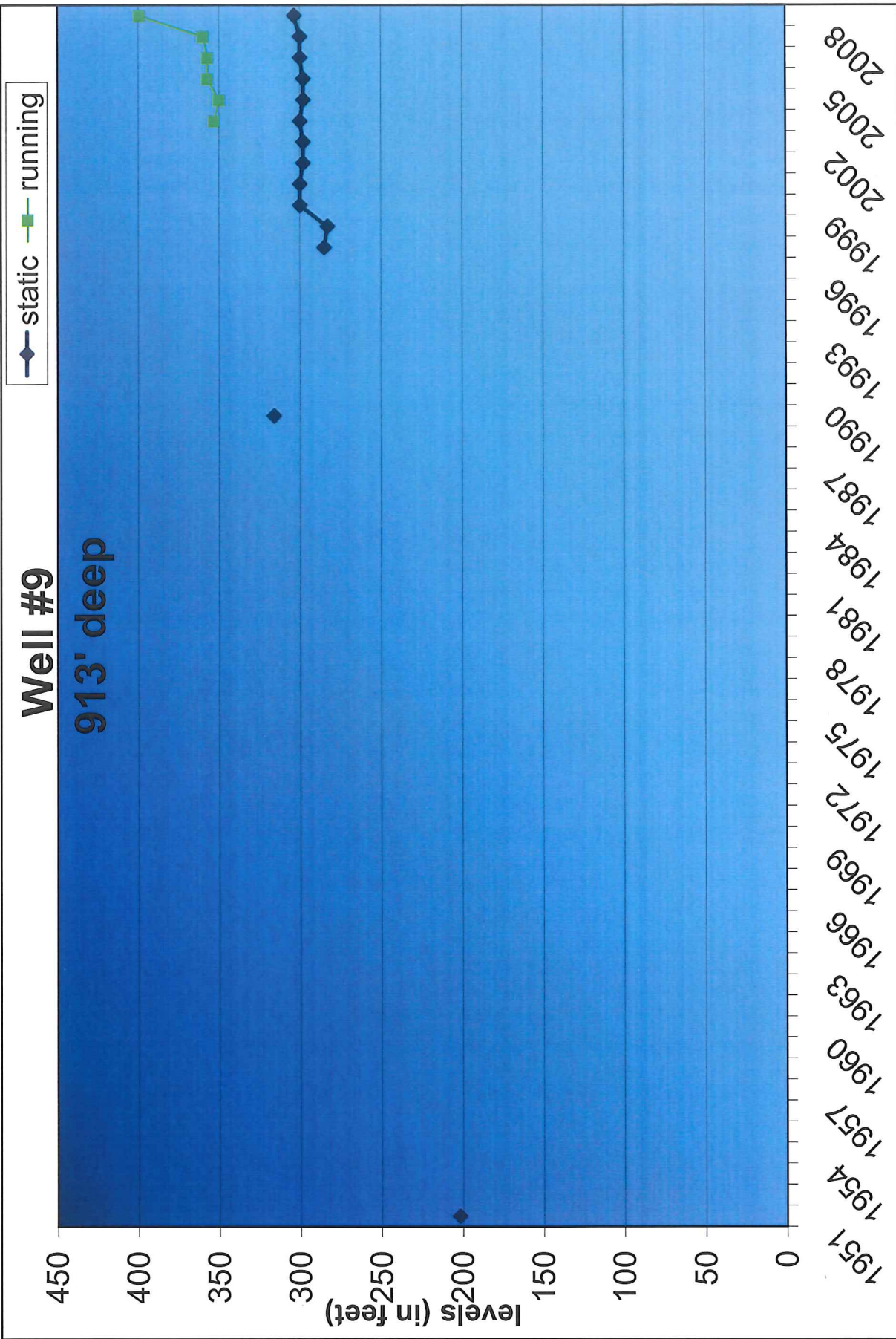
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| 1997 | 285    |         |
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913 feet deep

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| 2008 | 303.51 | 399.37  |

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Well # 9  
913 feet deep

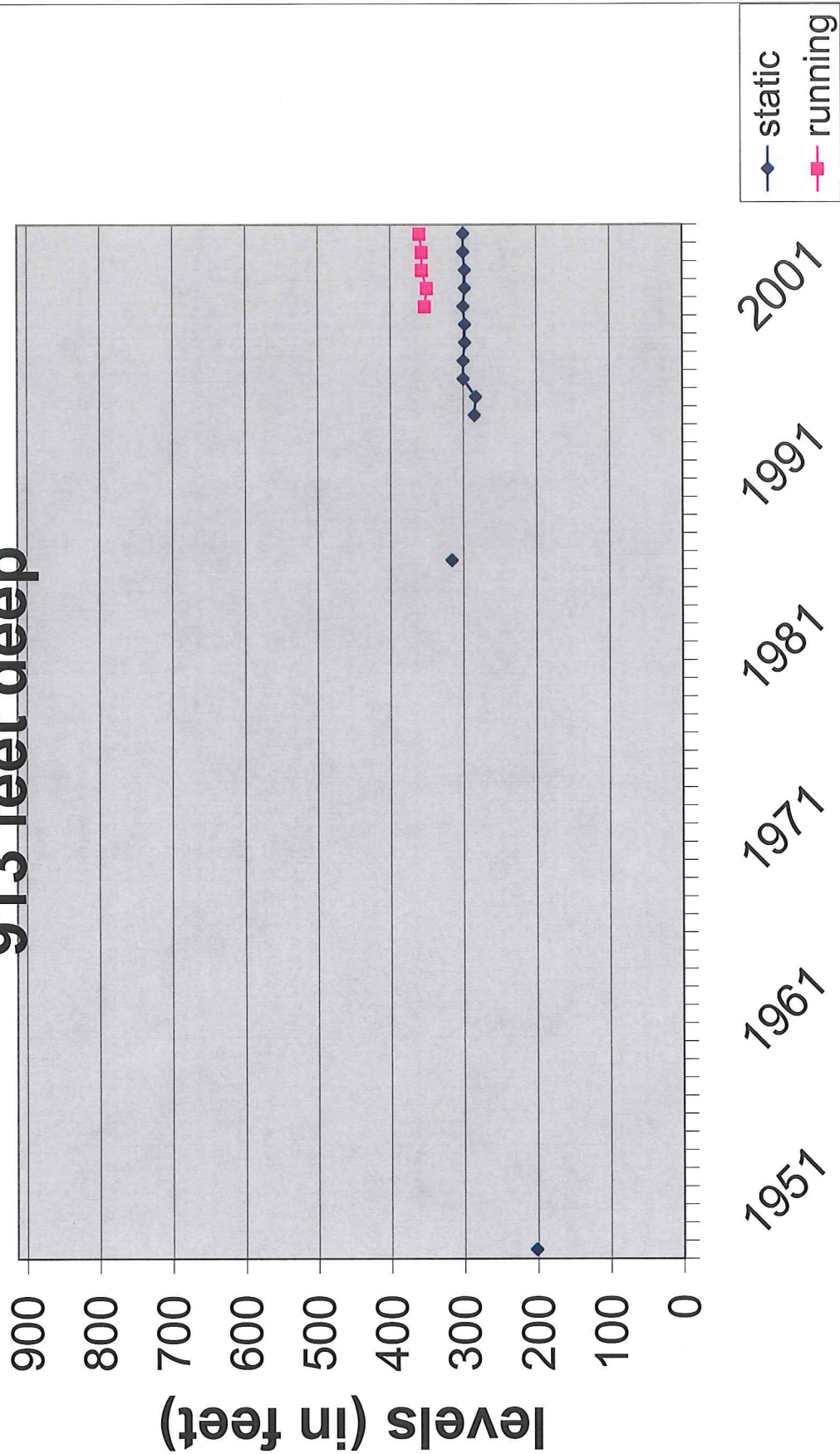
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| Year | Static | Running |
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| 2006 | 300    | 357     |
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# Well #9

## 913 feet deep



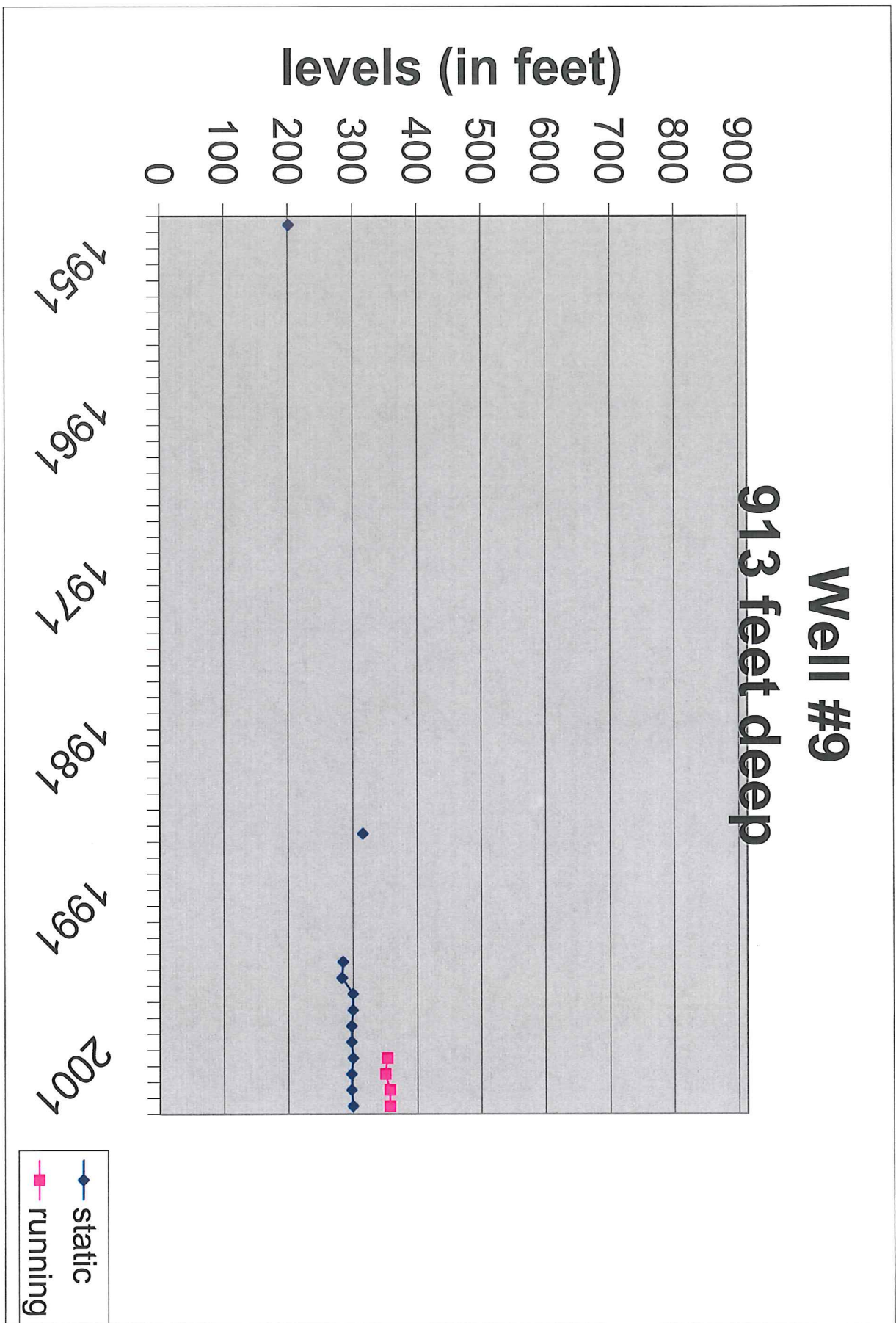
Well # 9  
913 feet deep

| Year | Static | Running |
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2007 300 360



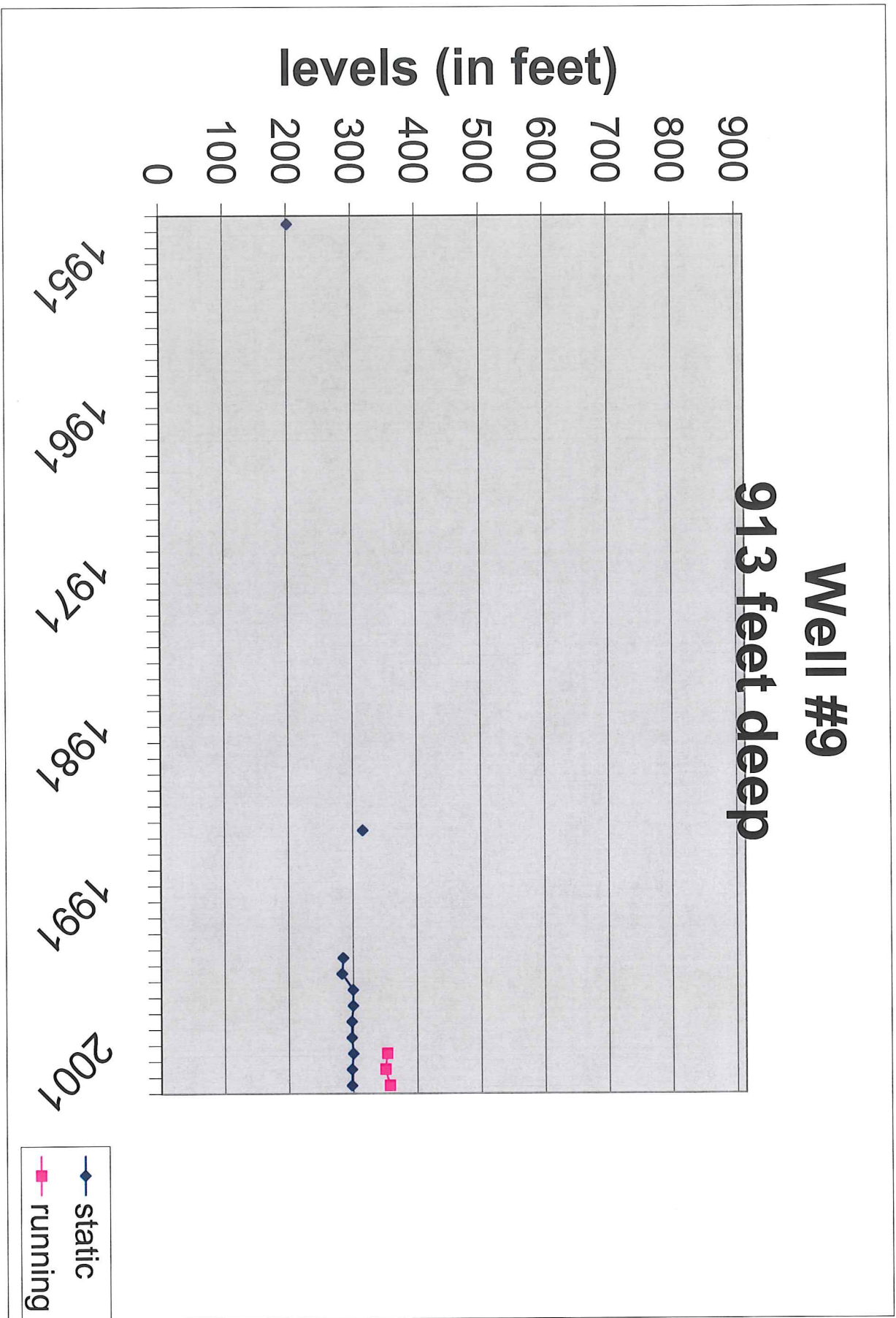


Well # 9  
913 feet deep

| Year | Static | Running |
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| Year | Static | Running |
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| 1998 | 283    |         |
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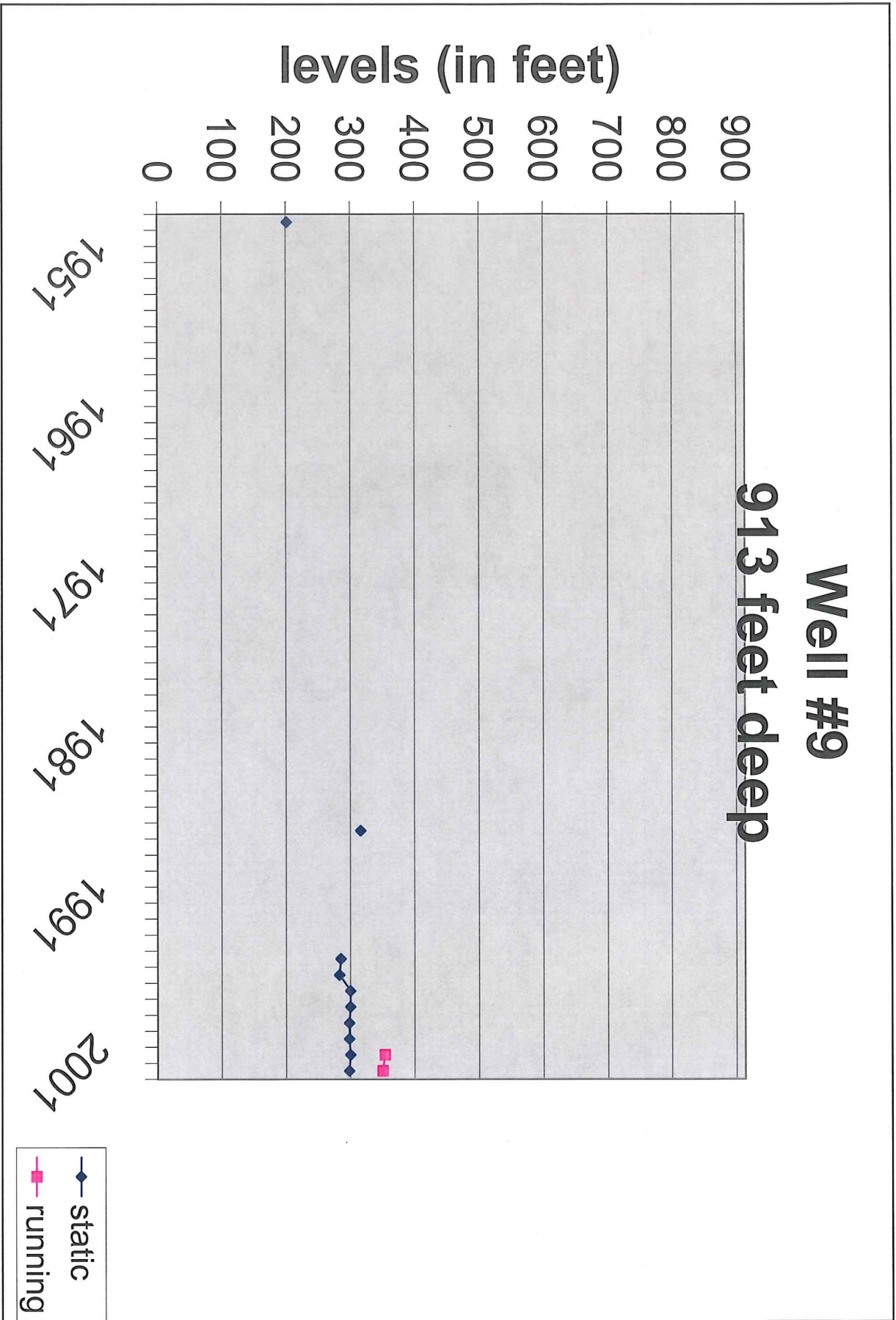


Well # 9  
913 feet deep

| Year | Static | Running |
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| Year | Static | Running |
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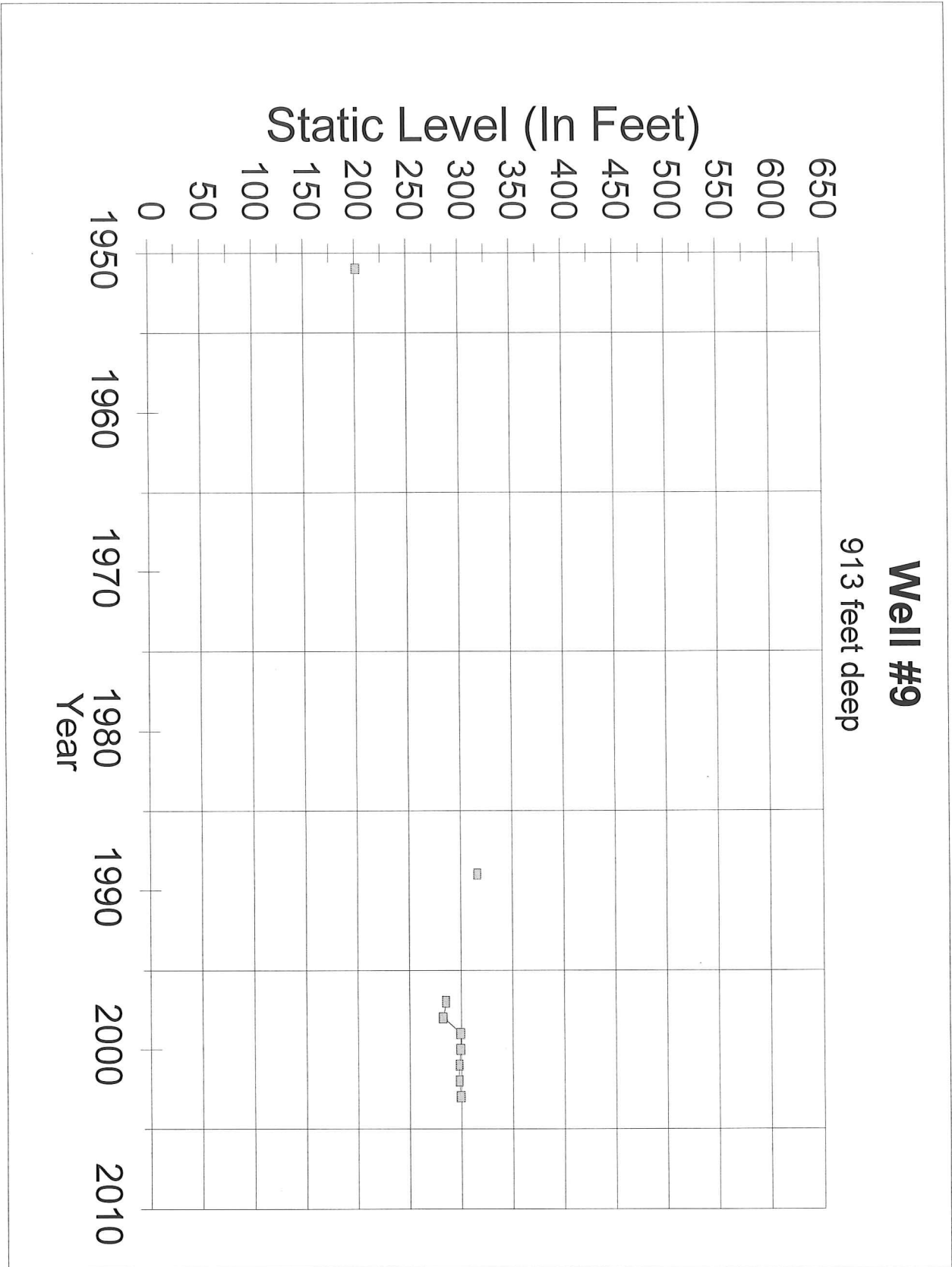


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913 feet deep

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| 1992 |        |         |
| 1993 |        |         |
| 1994 |        |         |
| 1995 |        |         |
| 1996 |        |         |
| 1997 | 285    |         |

| Year | Static | Running |
|------|--------|---------|
| 1998 | 283    |         |
| 1999 | 300    |         |
| 2000 | 300    |         |
| 2001 | 298    |         |
| 2002 | 298    |         |
| 2003 | 300    | 353     |



8/20/03

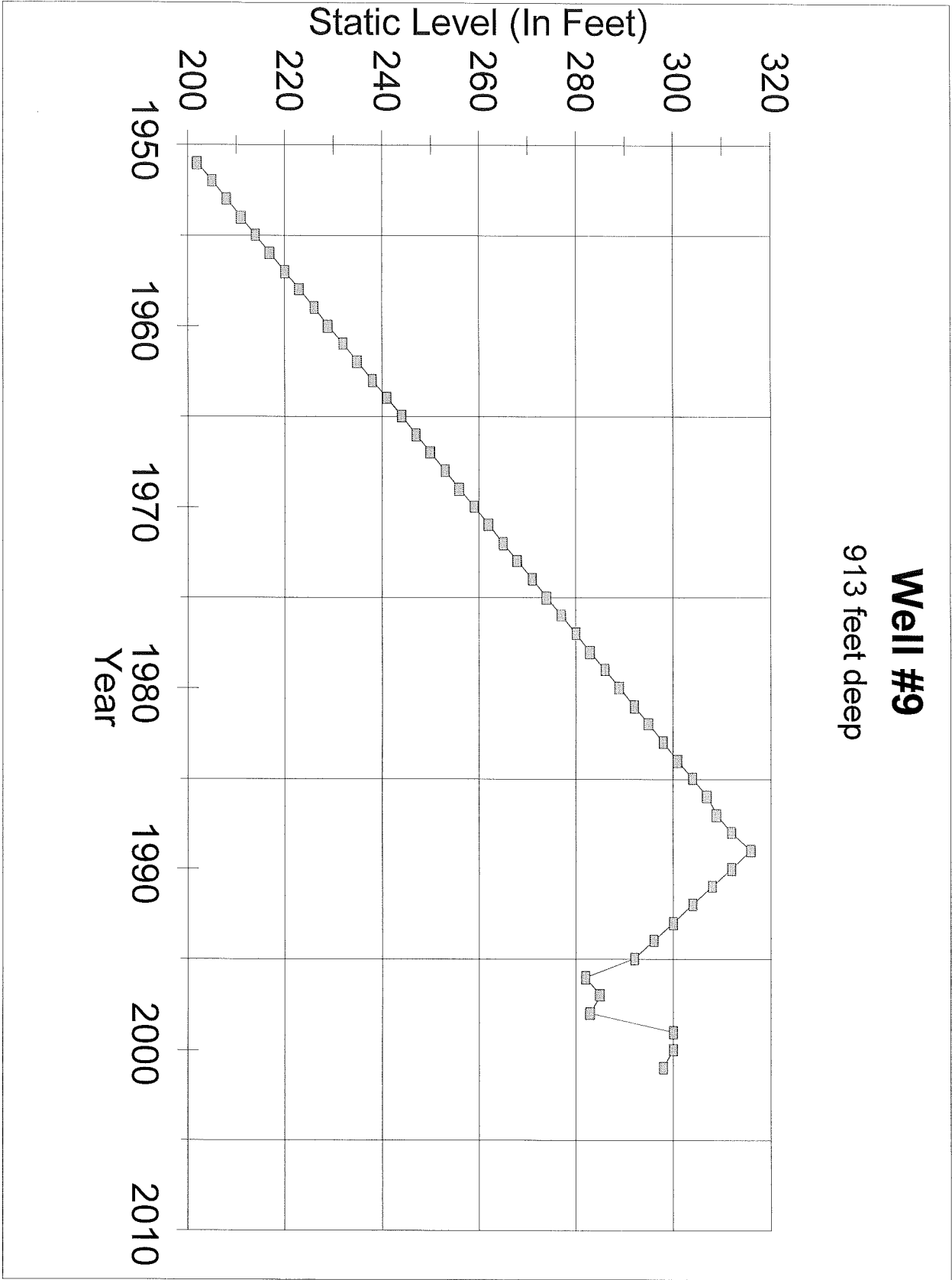
# Well # 9

913 feet deep

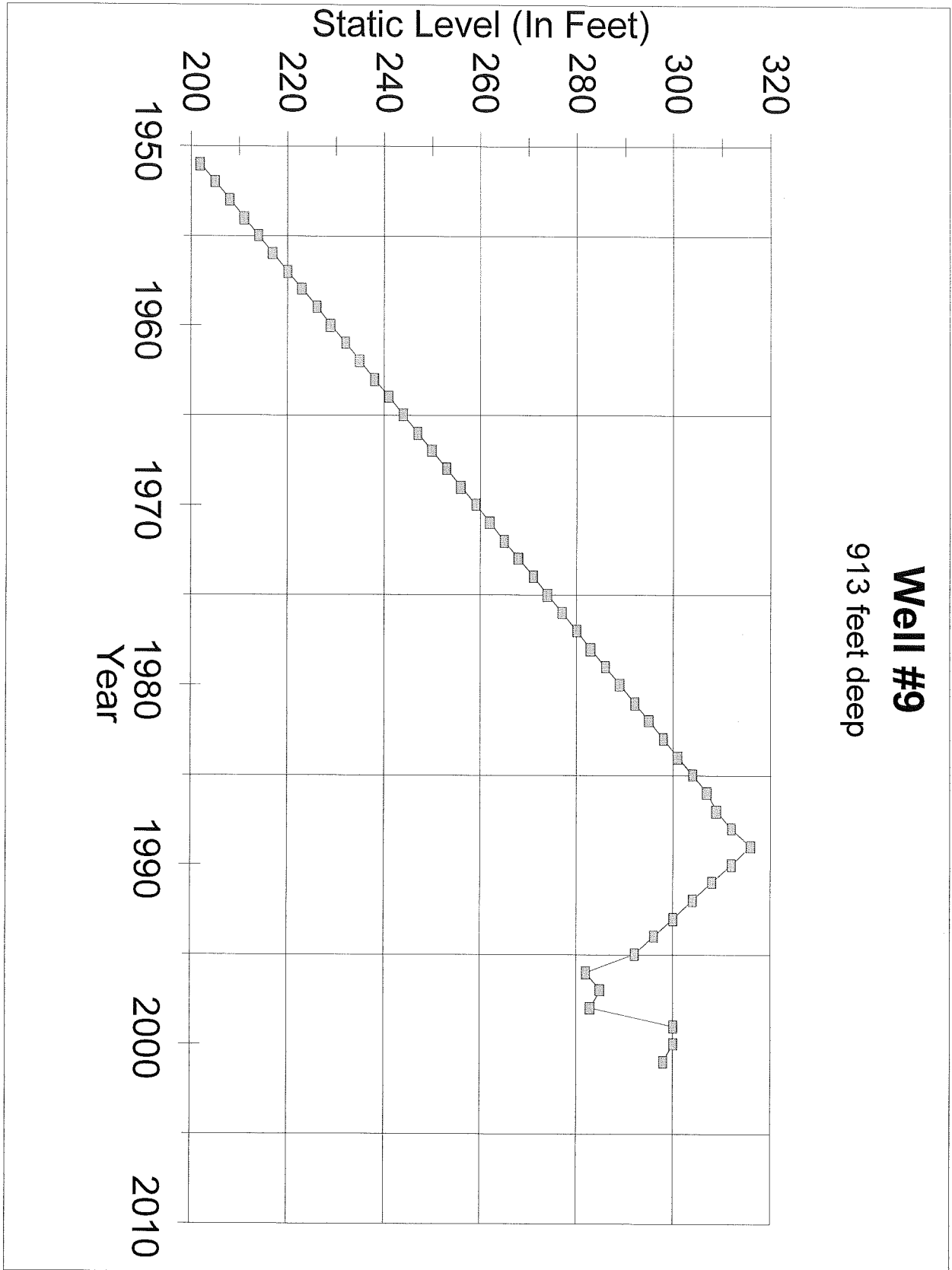
| Year | Static | Running |
|------|--------|---------|
| 1951 | 202    |         |
| 1952 |        |         |
| 1953 |        |         |
| 1954 |        |         |
| 1955 |        |         |
| 1956 |        |         |
| 1957 |        |         |
| 1958 |        |         |
| 1959 |        |         |
| 1960 |        |         |
| 1961 |        |         |
| 1962 |        |         |
| 1963 |        |         |
| 1964 |        |         |
| 1965 |        |         |
| 1966 |        |         |
| 1967 |        |         |
| 1968 |        |         |
| 1969 |        |         |
| 1970 |        |         |
| 1971 |        |         |
| 1972 |        |         |
| 1973 |        |         |
| 1974 |        |         |
| 1975 |        |         |
| 1976 |        |         |
| 1977 |        |         |
| 1978 |        |         |
| 1979 |        |         |
| 1980 |        |         |
| 1981 |        |         |
| 1982 |        |         |
| 1983 |        |         |
| 1984 |        |         |
| 1985 |        |         |
| 1986 |        |         |
| 1987 |        |         |
| 1988 |        |         |
| 1989 | 316    |         |
| 1990 |        |         |
| 1991 |        |         |
| 1992 |        |         |
| 1993 |        |         |
| 1994 |        |         |
| 1995 |        |         |
| 1996 |        |         |
| 1997 | 285    |         |

| Year | Static | Running |
|------|--------|---------|
| 1998 | 283    |         |
| 1999 | 300    |         |
| 2000 | 300    |         |
| 2001 | 298    |         |
| 2002 | 298    |         |



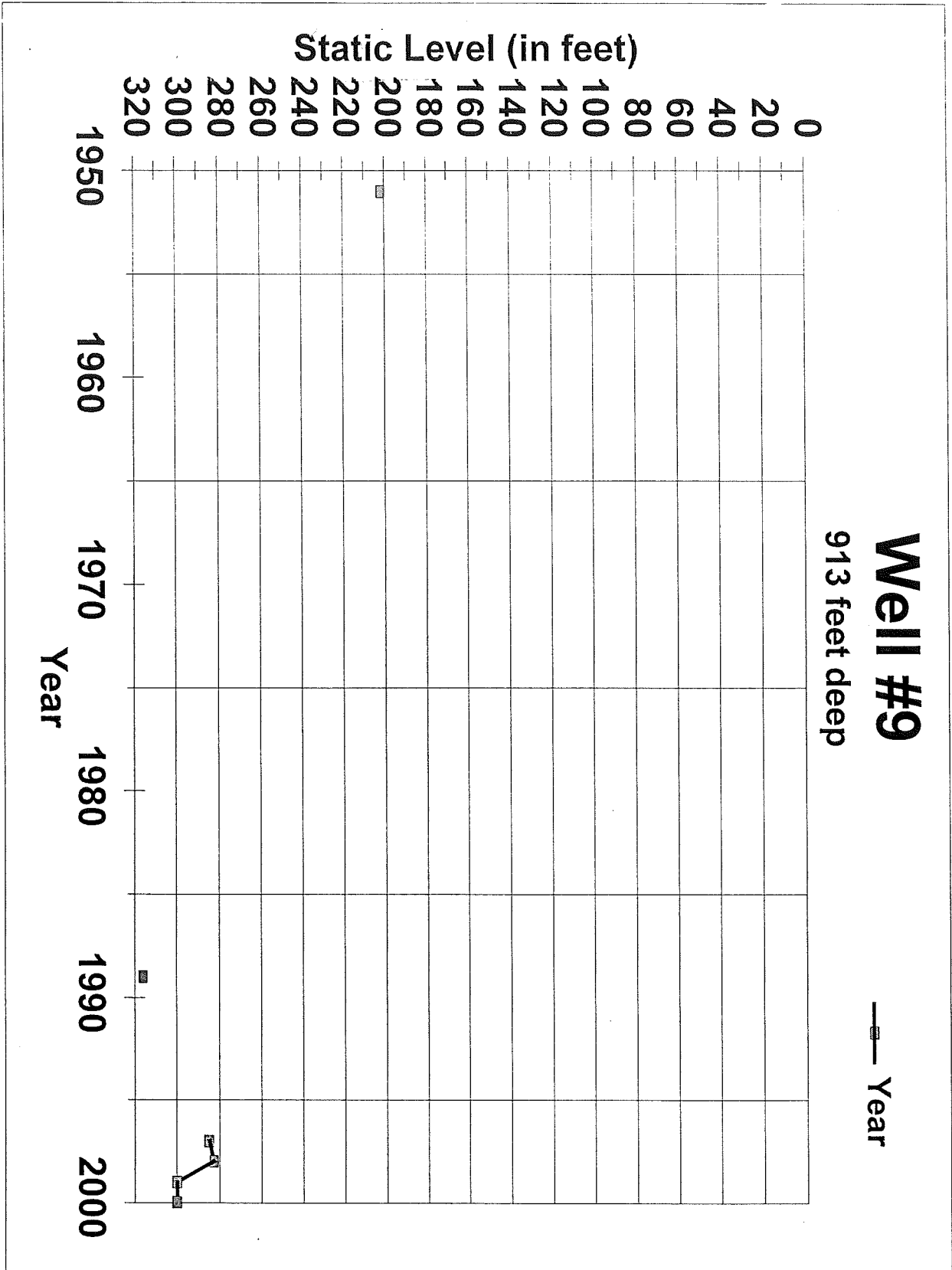


2001



2001

2000



NOTICE TO WATER WELL CONTRACTOR:  
 The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

**RECEIVED** UMAT 3960  
 WATER WELL REPORT  
 MAY 10 1971  
 STATE OF OREGON  
 STATE ENGINEER  
 SALEM, OR.

UMAT 3960  
 State Well No. 5N/35-12  
 State Permit No. U-109

at  
 bd  
 de

**(1) OWNER:**

Name CITY OF MILTON-FREE WATER ORE  
 Address M-F ORE.

**(2) TYPE OF WORK (check):**

New Well  Deepening  Reconditioning  Abandon   
 If abandonment, describe material and procedure in Item 12.

**(3) TYPE OF WELL:**

Rotary  Driven   
 Cable  Jetted   
 Dug  Bored

**(4) PROPOSED USE (check):**

Domestic  Industrial  Municipal   
 Irrigation  Test Well  Other

**CASING INSTALLED:**

Threaded  Welded   
12" Diam. from 0 ft. to 84 ft. Gage ?  
~~PREVIOUSLY INSTALLED~~  
 Diam. from 0 ft. to 0 ft. Gage ?

**PERFORATIONS:**

Perforated?  Yes  No.  
 Type of perforator used SEE LOG  
 Size of perforations in. by in.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(7) SCREENS:**

Well screen installed?  Yes  No  
 Manufacturer's Name \_\_\_\_\_ Model No. \_\_\_\_\_  
 Type \_\_\_\_\_ Diam. Slot size Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Diam. Slot size Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(8) WATER LEVEL: Completed well.**

Static level 202 ft. below land surface Date 3-15-71  
 Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_

**(9) WELL TESTS:**

Drawdown is amount water level is lowered below static level  
 Was a pump test made?  Yes  No If yes, by whom? CONTRACTOR  
 Yield: 1484 gal./min. with 182 ft. drawdown after 24 hrs.  
 " " " "  
 " " " "  
 Bailer test gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
 Artesian flow g.p.m. Date \_\_\_\_\_  
 Temperature of water 62 Was a chemical analysis made?  Yes  No

**(10) CONSTRUCTION:**

Well seal—Material used CEMENT  
 Depth of seal 84 ft.  
 Diameter of well bore to bottom of seal 12 in.  
 Were any loose strata cemented off?  Yes  No Depth \_\_\_\_\_  
 Was a drive shoe used?  Yes  No  
 Did any strata contain unusable water?  Yes  No  
 Type of water? \_\_\_\_\_ depth of strata \_\_\_\_\_  
 Method of sealing strata off \_\_\_\_\_  
 Was well gravel packed?  Yes  No Size of gravel: \_\_\_\_\_  
 Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(11) LOCATION OF WELL:**

County MMATILLA Driller's well number \_\_\_\_\_  
SE 1/4 NE 1/4 Section 12 T. 5N R. 35 E. W.M.  
 Bearing and distance from section or subdivision corner Beginning @ the center of section 12, N. 850' Thence N. 250' to well #1

**(12) WELL LOG:**

Diameter of well below casing 12"  
 Depth drilled 656 ft. Depth of completed well 656 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level as drilling proceeds. Note drilling rates.

| MATERIAL   | From | To  | SWL |
|--|------|-----|-----|
| WEHh WAS ORIGINALLY DRILLED IN 1930S, REPORTED TO HAVE BEEN 651' ACTUAL ACTUAL DEPTH WAS 636'  |      |     |     |
| CASING HAD BEEN PERFORATED WE PRESSURE BROUGHT THROUGH PERFORATIONS SHUT OFF SURFACE WATER ENTERING PERFORATIONS, MADE TEST NO LOSS OF WATER WITH HOSE FIRED TO TOP UNDER 50 PSI AFTER CEMENTING |      |     |     |
| GREY BASALT  | 636  | 642 | 202 |
| BLACK BASALT   | 642  | 656 | 202 |

Work started 1-21 1971 Completed 3-17 1971

Date well drilling machine moved off of well 3-16 1971

**Drilling Machine Operator's Certification:**

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] \_\_\_\_\_ Date 3-31, 1971  
 (Drilling Machine Operator)

Drilling Machine Operator's License No. 361

**Water Well Contractor's Certification:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME CHARLES JUNGMAAN DRILLING CO.  
 (Person, firm or corporation) (Type or print)

Address 15 REES AVE W. W. WASH.

[Signed] \_\_\_\_\_  
 (Water Well Contractor)

Contractor's License No. 386 Date 3-31, 1971

IVED

3961 UMAT 3961 OBSERVATION WELL

5N/35-12-771 F(1) UMATILLA

1938 STATE ENGINEER SALEM, OREGON

Milton Freewater \* 1

Application No. U 109 Permit No. U 102 Well No. #1

G 5389

REPORT ON COMPLETION OF WELL

(Note: This report should be submitted to the State Engineer, Salem, Oregon, as soon as possible after the well is completed. If more than one well is covered by this permit, a separate report shall be filed for each)

Date of Report \_\_\_\_\_, 193\_\_

- #. 40' of Lot 5, Block 7, McCoy's Addition to Milton City, Oregon. 1. Location of well: S. W. 1/4 of Section 12 Twp. 5 NBge. 35 E. W. M. 2. Name of nearest natural surface stream Walla Walla River 3. Distance from well to that stream: 1000 feet. 4. If the well is less than 1300 feet from a natural surface stream, give the difference in elevation between the ground surface at the well and the lowest point in stream channel: 9.5 feet. 5. Date of beginning drilling or digging January 2, 1937 6. Date well was completed March 1, 1938

LOG OF MATERIALS ENCOUNTERED

Table with 3 columns: Character of Material, Depth at which encountered, Thickness of stratum. Includes entry '(SEE SHEET ATTACHED)' and multiple rows of 'ft.' measurements.

Remarks: \_\_\_\_\_

WELL INFORMATION

- 8. Diameter of well 12" inches. Depth of well 652 feet. 9. Depth at which water was first encountered 90' feet. 10. Water level when completed: 87' feet below ground surface. 11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.: See log attached. This well for "standby" service only.

**RECEIVED**  
 1938  
 STATE ENGINEER  
 SALLIE C. COOK

**UMAT 3961**

F11)  
 5N/35-12 (#7)  
 UMATILLA

**PUMP INFORMATION**

- 12. Manufacturer of pump: Fairbanks-Morse & Company
- 13. Address: 1220 First Avenue South, Seattle, Washington
- 14. Data on name or base plate: #32523 - Seattle No. 7310  
o Stage 12" Imp. 7472, Figure 0920, 1750 R.P.M.  
Outside column 9" O. D., Length 150', Shaft 1 5/8" Dia.
- 15. Data on pump bowl assembly: \_\_\_\_\_
- 16. Size of pump: 12"
- 17. Rated capacity: 1000 gallons per minute. 80 pounds pressure
- 18. Rated speed: 1800 revolutions per minute. water to water hd.
- 19. Number of stages: 0
- 20. Size of intake pipe: 9"
- 21. Size of discharge pipe: 12"
- 22. Length of intake pipe: 150'
- 23. Length of discharge pipe: Direct into 12" city main
- 24. Suction lift: (difference in elevation between water surface in well and pump)
- 25. Discharge lift: (difference in elevation between pump and end of discharge line)
- 26. Depth of pump intake below ground surface: 187' feet.
- 27. Remarks: 187' to bottom of intake pipe

**MOTOR OR ENGINE INFORMATION**

- 28. Name of manufacturer: Fairbanks-Morse & Co.
- 29. Address: 1220 First Avenue South, Seattle, Washington
- 30. Type of motor or engine: 100 H.P., Morse Type, 1750 R.P.M., 3 phase,  
0 cy., 440 volts, vertical ball bearing, hollow shaft squirrel cage.
- 31. Data on name or base plate: \_\_\_\_\_
- 32. Rated horsepower: 100
- 33. Rated speed of motor or engine: 1750 revolutions per minute.

|  |      |           |     |          |
|--|------|-----------|-----|----------|
| 34. Rated Capacity of Pump<br>(with described motor) | 1000 | g.p.m. at | 305 | ft. head |
|  | 1200 | g.p.m. at | 250 | ft. head |
|  | 1250 | g.p.m. at | 240 | ft. head |
|  |      | g.p.m. at |     | ft. head |
|  |      | g.p.m. at |     | ft. head |

35. Remarks: \_\_\_\_\_



U-102 F(1)  
 5N/35 - (2 ~~11~~)  
 UMATILLA CO

LOG OF MILTON WELL - UMATILLA COUNTY

From 1 to 30 ft. gravel  
 30 to 37 " Cement & Gravel  
 37 to 40 " Gravel & Clay  
 40 to 60 " Black Rock  
 60 to 98 " Rock & Clay  
 98 to 115 " Black Rock  
 115 to 122 " Hard Black Rock  
 122 to 140 " Medium Rock  
 140 to 145 " " " Soft Red Brown  
 145 to 180 " " " Black  
 180 to 186 " Hard Black Rock  
 186 to 202 " Medium Grey Rock  
 202 to 212 " Soft " "  
 212 to 249 " Medium Brown Rock  
 249 to 256 " Hard Brown "  
 256 to 280 " Soft Brown Rock  
 280 to 367 " Medium Grey Rock  
 367 to 416 " " Black Rock  
 416 to 440 " " Grey "  
 440 to 450 " " Black "  
 450 to 651 " " Grey "

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 STATE ENGINEER  
 S.F. PAGE 32-1071



# UMAT 3961

SN/35-12-~~111~~ F111  
UMATILLA

MILTON CITY, OREGON

APRIL 22, 1938

Test made Fairbanks, Morse Turbine Pump

Pump #32523, Seattle No. 7316

6 Stage 12" Imp. -747-E Fig 6920 - 1750 R.P.M.

Outside column 9" O.D. Length 150 ft. shaft 1-5/8" Dia.

Capacity 1000 G.P.M. at Water to Water head 300 Ft.

Motor Fairbanks, Morse 100 H.P. Type HSZU - 1800 R.P.M.

Motor No.324047 - Fr.JL163B - 3 ph. 60 cycle 440 Volt.

118 Amps. F.Load Speed 1755 R.P.M.

Test Data:-Pump Started at 2:55 P.M.; Stopped at 5:30 P.M.

Length of air line below pump floor level 177' + 5'7" =182'7"

Draw down gauge before pumping = 37 lbs. = 85.5 ft.

Pumping at no pressure on discharge.

Draw gauge 10# = 23.1 Ft.

Pumping level 140 Ft.

Capacity thru 9.5" orifice in 12" O.D. Pipe 10" = 1400 G.P.M.

K. W. demand at power 1 mile distance 90 K.W. X 1.34 = 1201 H.P.

Discharge pressure 30# = 69.3 Ft.

Draw down gauge reading 14# = 32.25 Ft.

Capacity thru 9.5" orifice 8" = 1200 G.P.M.

Discharge pressure 50# = 115.5 Ft.

Draw down gauge 16 lbs = 36.98 Ft.

Discharge thru 9.5" orifice 7" = 1150 G. P. M.

Motor Speed 1762 - 1775 - 1760 R.P.M.

Motor In Put 127 Amps - 121 - 125 - P.Factor 90%

Discharge pressure 80 lbs. = 184.8 Ft.

Draw down gauge = 21 lbs. = 48.5 Ft.

Discharge thru 9.5" orifice 5-1/4" = 1000 G.P.M.

Motor Speed 1752 - 1754 - 1760 R. P. M.

Motor In Put 125 Amps - 124 - 122. P. Factor 88%

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JUN 4 1938  
STATE ENGINEER  
SALMON

Umatilla

Oregon State Board of Health 215

SANITARY ENGINEERING LABORATORY

REPORT OF MINERAL ANALYSIS OF WATER

Location of source Mill Creek Reservoir Description of source W

Analysis by MP Date 11/19/53 Collected by \_\_\_\_\_ Date 6/25/51

RESULTS

|  | Parts per million |
|--|-------------------|
| Turbidity                                      | 5                 |
| Color: Apparent                                | 3                 |
| Odor: Hot                                      | Cold              |
| Total Solids                                   | 178               |
| Loss on Ignition                               | 62                |
| Silicon (SiO <sub>2</sub> )                    | 19                |
| Chloride (Cl)                                  | 4.8               |
| Sulfate (SO <sub>4</sub> )                     | 5.4               |
| Calcium (Ca)                                   | 34                |
| Magnesium (Mg)                                 | 2.3               |
| Aluminum (Al)                                  | 0                 |
| Orthophosphates (PO <sub>4</sub> )             | .10               |
| Metaphosphates (PO <sub>3</sub> ) <sub>6</sub> |                   |
| Alkalinity (as CaCO <sub>3</sub> ): Carbonate  | 0                 |
| Bicarbonate                                    | 78                |
| Hardness (as CaCO <sub>3</sub> )               | 78                |
| Sodium and Potassium (as Na)                   | 25                |
| Iron (Fe)                                      | 0                 |
| Manganese (Mn)                                 | 0                 |
| Fluoride (F)                                   | .1                |
| Carbon Dioxide (CO <sub>2</sub> )              | 2.5               |
| pH   | 7.9               |
| Remarks  |                   |

# UMAT 3961

STATE ENGINEER  
Salem, Oregon

State Well No. 5N/35-12F(1)

County UMATILLA

Application No. \_\_\_\_\_

## Water Level Record

OWNER: MILTON FREEWATER OWNER'S NO. # 1

Description of measuring point: \_\_\_\_\_

| Date    | Water Level<br>Feet (above)<br>(below)<br>Land Surface | Remarks |                | Date | Water Level<br>Feet (above)<br>(below)<br>Land Surface | Remarks |                |
|---------|--|---------|----------------|------|--|---------|----------------|
|         |  | DATE    | WATER<br>LEVEL |      |  | DATE    | WATER<br>LEVEL |
| 5-28-37 | 85.5   | 6-55    | 145            | 4-57 | 140  | 10-59   | 173            |
| 7-45    | 107  | 8       | 149            | 8    | 160  | 11      | 164            |
| 5-52    | 136  | 9       | 140            | 9    | 165  | 12      | 165            |
| 2-15-54 | 137  | 10      | 139            | 10   | 160  | 1-60    | 168            |
| 2-30    | 136  | 11      | 142            | 11   | 156  | 2       | 174            |
| 4       | 138  | 12      | 140            | 12   | 158  | 3       | 186            |
| 5       | 135  | 2-56    | 140            | 1-58 | 155  | 4       | 165            |
| 6       | 145  | 3       | 138            | 3    | 155  | 5       | 170            |
| 7       | 147  | 4       | 145            | 4    | 153  | 6       | 175            |
| 9       | 136  | 5       | 142            | 5    | 155  | 7       | 183            |
| 10      | 132  | 7       | 151            | 8    | 165  | 8       | 180            |
| 11      | 125  | 8       | 154            | 10   | 150  | 9       | 176            |
| 12      | 132  | 9       | 155            | 11   | 157  | 10      | 174            |
| 1-55    | 135  | 10      | 150            | 12   | 150  | 11      | 173            |
| 2       | 132  | 11      | 148            | 3-59 | 145  | 1-61    | 169            |
| 3       | 134  | 12      | 145            | 4    | 150  | 2       | 182            |
| 4       | 130  | 1-57    | 148            | 8    | 164  | 4       | 195            |
| 5       | 134  | 2       | 147            | 9    | 173  | 5       | 190            |

REMARKS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# UMAT 3961

**STATE ENGINEER**  
Salem, Oregon

State Well No. 5N/35-12F(1)

County UMATILLA

Application No. \_\_\_\_\_

## Water Level Record

OWNER: MILTON FREEWATER OWNER'S NO. #1

Description of measuring point: \_\_\_\_\_

| Date    | Water Level Feet (above) (below) Land Surface | Remarks | Date    | Water Level Feet (above) (below) Land Surface | Remarks |
|---------|---|---------|---------|---|---------|
| 6-61    | 182   |         | 4-20-64 | 181   |         |
| 7       | 180   |         | 5-18    | 183   |         |
| 11      | 170   |         | 6-15    | 196   |         |
| 12      | 172   |         | 7-13    | 205   |         |
| 11-62   | 190   |         | 8-24    | 204   |         |
| 12      | 188   |         | 9-21    | 205   |         |
| 1-63    | 200   |         | 10-26   | 202   |         |
| 2       | 200   |         | 12-28   | 193   |         |
| 3       | 200   |         |         |   |         |
| 4       | 204   |         |         |   |         |
| 5       | 195   |         |         |   |         |
| 6       | 207   |         |         |   |         |
| 10-28   | 200   |         |         |   |         |
| 11-20   | 193   |         |         |   |         |
| 12-2    | 194   |         |         |   |         |
| 1-13-64 | 188   |         |         |   |         |
| 2-24    | 185   |         |         |   |         |
| 3-17    | 210   |         |         |   |         |

REMARKS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

UMAT  
3965

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AUG 24 1951

STATE ENGINEER  
SALEM, OREGON

REPORT ON COMPLETION OF WELL

5/35 - 120(A)

Application No. U -403

Permit No. U -373

Well No. 1, Umatilla Canning Co.

UMATILLA CO

(Note: This report should be submitted to the State Engineer, Salem, Oregon, as soon as possible after the well is completed. If more than one well is covered by this permit, a separate report shall be filed for each)

Date of Report August 22, 1951

1. Location of well: SW  $\frac{1}{4}$  of SE  $\frac{1}{4}$  of Section 12 Twp. 5N Rge. 35 E. W. M.
2. Name of nearest natural surface stream Walla Walla River
3. Distance from well to that stream: Approx. 4000 feet.
4. If the well is less than 1300 feet from a natural surface stream, give the difference in elevation between the ground surface at the well and the lowest point in stream channel: \_\_\_\_\_ feet.
5. Date of beginning drilling or digging. January 11, 1951
6. Date well was completed June 22, 1951

LOG OF MATERIALS ENCOUNTERED

| Character of Material                                     | Depth at which encountered | Thickness of stratum |
|---|----------------------------|----------------------|
| Yellow cement gravel                                      | At surface 0 ft.           | 41 ft.               |
| Broken Basalt & Blue Clay                                 | 41 ft.                     | 285 ft.              |
| Medium gray basalt & alternate clay & mud                 | 285 ft.                    | 421 ft.              |
| Broken gray basalt  | 421 ft.                    | 562 ft.              |
| Black basalt & gray basalt                                | 562 ft.                    | 751 ft.              |
| Medium black basalt - (2ft. Hard black basalt 816-818 ft) | 751 ft.                    | 878 ft.              |
| Gray hard basalt  | 878 ft.                    | 881 ft.              |
| Medium black basalt                                       | 881 ft.                    | 894 ft.              |
| Hard black basalt   | 894 ft.                    | 913 ft.              |
| Remarks: Medium black basalt                              | 913 ft.                    | 918 ft.              |

WELL INFORMATION

8. Diameter of well see below inches. Depth of well 918 feet.
9. Depth at which water was first encountered 90 feet.
10. Water level when completed: 205 feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.: Some caving - 321 ft to 500 ft.

8. 24" from 0 to 104 ft.
- 20" from 104 to 321 ft.
- 16" from 321 to 690 ft.
- 12" from 690 to 918 ft.

5N/35-12QA)  
UMATILLA Co

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AUG 24 1951

STATE ENGINEER  
SALEM, OREGON

PUMP INFORMATION

- 12. Manufacturer of pump: A. D. Cook, Inc.
- 13. Address: Lawrenceburg, Indiana
- 14. Data on name or base plate: Serial No. 13254  
Cook Rotation Pump
- 15. Data on pump bowl assembly: TR 5107 12 TR 527  
26 12 TR 5280
- 16. Size of pump: 8" Turbine
- 17. Rated capacity: 950 gallons per minute.
- 18. Rated speed: 1765 revolutions per minute.
- 19. Number of stages: 8
- 20. Size of intake pipe: 8"
- 21. Size of discharge pipe: 8"
- 22. Length of intake pipe: 290 feet column, 25 feet bowl assembly, suction and strainer
- 23. Length of discharge pipe: 161.65 ft.
- 24. Suction lift: (difference in elevation between water surface in well and pump) 205 feet
- 25. Discharge lift: (difference in elevation between pump and end of discharge line) Hardly any -- pipe runs slightly downhill
- 26. Depth of pump intake below ground surface: 310 feet.
- 27. Remarks: This pump will be exchanged or worked over to that we can pump between 1400 and 1500 g.p.m. next season.

MOTOR OR ENGINE INFORMATION

- 28. Name of manufacturer: General Electric
- 29. Address: ~~Schenectady~~ Schenectady, N. Y.
- 30. Type of motor or engine: Electric Induction Motor
- 31. Data on name or base plate: Model 5K445A1A Service Factor 1.15 at Rated Volts 60 cycles 220/440 volts Type K Code F Frame 445 3 phase 60 cy  
FL AMP 181/90.5 FL Speed 1765 No. WGJ6873648 TRYCLAD INDUCTION MOTOR
- 32. Rated horsepower: 75 H.P.
- 33. Rated speed of motor or engine: 1765 revolutions per minute.
- 34. Rated Capacity of Pump (with described motor)
 

|            |                  |            |                 |
|------------|------------------|------------|-----------------|
| <u>950</u> | <u>g.p.m. at</u> | <u>205</u> | <u>ft. head</u> |
| <u>800</u> | <u>g.p.m. at</u> | <u>300</u> | <u>ft. head</u> |
| <u>700</u> | <u>g.p.m. at</u> | <u>350</u> | <u>ft. head</u> |
|            | <u>g.p.m. at</u> |            | <u>ft. head</u> |
|            | <u>g.p.m. at</u> |            | <u>ft. head</u> |
- 35. Remarks: We intend to trade this pump and motor or have it worked over next year (before June 1952) so that we can pump 1400-1500 g.p.m.

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AUG 24 1951

STATE ENGINEER  
SALEM, OREGON

54/35-120A

### CAPACITY TEST

36. Date of test: 8/16 & 8/17, 1951. Temperature of water 60 °F. or      °C.  
 38. Motor speed during test: From 1250 - 1800 R.P.M.  
 39. Test made by (weir, tank or other means): Weir

| READING GAUGE | PUMPS               | TOTAL HEAD | *Total lift<br>in feet | Gallons<br>per min. | °Feet to<br>water level | Draw-<br>down | +Time  |       |             |
|---------------|---------------------|------------|------------------------|---------------------|-------------------------|---------------|--------|-------|-------------|
| 205           | lbs.; Gauge at pump | Total      | 205 ft. in.            | Static              | water level             | ft.           |        | M.    | 8/16        |
| 215           | lbs.; Gauge at pump | Total      | 215 ft. in.            | 336                 | 215                     | ft.           | 10 ft. | 7:15  | A.M.        |
| 244           | lbs.; Gauge at pump | Total      | 244 ft. in.            | 795                 | 244                     | ft.           | 39 ft. | 8:30  | A.M.        |
| 266           | lbs.; Gauge at pump | Total      | 266 ft. in.            | 1220                | 266                     | ft.           | 61 ft. | 10:30 | A.M.        |
| 287           | lbs.; Gauge at pump | Total      | 287 ft. in.            | 1407                | 287                     | ft.           | 82 ft. | 12:30 | P.M.        |
| 287           | lbs.; Gauge at pump | Total      | 287 ft. in.            | 1407                | 287                     | ft.           | 82 ft. | 5:30  | P.M.        |
| 270           | lbs.; Gauge at pump | Total      | 270 ft. in.            | 1220                | 270                     | ft.           | 65 ft. | 7:30  | P.M.        |
| 285           | lbs.; Gauge at pump | Total      | 285 ft. in.            | 1407                | 285                     | ft.           | 80 ft. | 9:00  | P.M.        |
| 285           | lbs.; Gauge at pump | Total      | 285 ft. in.            | 1407                | 285                     | ft.           | 80 ft. | 12:00 | M. Midnight |
| 285           | lbs.; Gauge at pump | Total      | 285 ft. in.            | 1407                | 285                     | ft.           | 80 ft. | 4:00  | A.M. 8/17   |
| 270           | lbs.; Gauge at pump | Total      | 270 ft. in.            | 1312                | 270                     | ft.           | 65 ft. | 4:10  | A.M.        |
| 263           | lbs.; Gauge at pump | Total      | 263 ft. in.            | 1220                | 263                     | ft.           | 58 ft. | 4:20  | A.M.        |
| 264           | lbs.; Gauge at pump | Total      | 264 ft. in.            | 1220                | 264                     | ft.           | 59 ft. | 6:00  | A.M.        |
| 295           | lbs.; Gauge at pump | Total      | 295 ft. in.            | 1501                | 295                     | ft.           | 90 ft. | 6:10  | A.M.        |
| 295           | lbs.; Gauge at pump | Total      | 295 ft. in.            | 1501                | 295                     | ft.           | 90 ft. | 6:18  | A.M.        |
| 209           | lbs.; Gauge at pump | Total      | ft. in.                | (RECOVERY)          | ft.                     | ft.           | ft.    | 6:23  | a.m.        |
|               | lbs.; Gauge at pump | Total      | ft. in.                |                     | ft.                     | ft.           | ft.    |       | M.          |

\* Difference in elevation between water level in well and outlet of pump test line.

- ° Distance from ground level to water surface in well.
- ▣ Distance water level is lowered during time interval.
- + Hour and minute at which observation was made.

41. Installation will work efficiently under normal head of 325 ft.  
 42. Water is discharged into: Main lines, Umatilla Canning Company Plant.  
 43. Was water lowered to pump intake by test? Yes - deliberately.  
 44. Remarks: Didn't have enough column on to go beyond 1501 G.P.M. on test.  
Had only 90 feet of column beyond static water level of 205 feet.  
Well recovered to static water level from 6:18 a.m. to 6:23 a.m. 8/17/51.  
Recovery rate of 5 minutes.

#### GENERAL INFORMATION

45. Name of contractor or other party who drilled or dug well: A. A. Durand & Son  
 Address: 115 Rees Avenue, Walla Walla, Washington  
 46. Pump and motor were installed by: Pump, Pipe, & Power Co., Portland, Oregon  
 Address: \_\_\_\_\_  
 47. Capacity test was made by: A. A. Durand & Son, Walla Walla, Washington  
 Address: \_\_\_\_\_  
 48. General remarks: \_\_\_\_\_







## Well Log

Owner: City of Milton-Freewater Owner's No. #8

Driller: R. J. Strasser, Portland, Oregon Date Drilled April 14, 1965

| CHARACTER OF MATERIAL        | (Feet below and surface) |     | Thickness (feet) |
|------------------------------|--------------------------|-----|------------------|
|                              | From                     | To  |                  |
| Fill                         | 0                        | 9   | 9                |
| Gravel and boulders          | 9                        | 31  | 22               |
| Weathered rock               | 31                       | 38  | 7                |
| Medium hard black rock       | 38                       | 47  | 9                |
| Broken rock                  | 47                       | 50  | 3                |
| Hard black basalt            | 50                       | 81  | 31               |
| Medium hard basalt           | 81                       | 83  | 2                |
| Hard black basalt            | 83                       | 96  | 13               |
| Broken black rock            | 96                       | 105 | 9                |
| Hard black basalt            | 105                      | 112 | 7                |
| Broken gray basalt           | 112                      | 121 | 9                |
| Porous black rock            | 121                      | 144 | 23               |
| Porous dark brown rock       | 144                      | 163 | 19               |
| Broken black rock            | 163                      | 180 | 17               |
| Medium hard gray basalt      | 180                      | 201 | 21               |
| Black and reddish brown rock | 201                      | 209 | 8                |
| Porous black basalt          | 209                      | 316 | 7                |
| Hard gray basalt             | 316                      | 341 | 25               |
| Medium hard dark gray basalt | 341                      | 352 | 11               |
| Hard gray basalt             | 352                      | 358 | 6                |
| Porous black basalt          | 358                      | 386 | 28               |
| Medium hard gray basalt      | 386                      | 398 | 12               |
| Medium soft black basalt     | 398                      | 437 | 39               |
| Medium hard gray basalt      | 437                      | 447 | 10               |

# Well Log

Owner: City of Milton-Freewater Owner's No. #8

Driller: R. J. Strasser, Portland, Oregon Date Drilled April 14, 1965

| CHARACTER OF MATERIAL                          | (Feet below land surface) |            | Thickness (feet) |
|--|---------------------------|------------|------------------|
|  | From                      | To         |                  |
| <u>Black basalt with layers of black clay</u>  | <u>447</u>                | <u>463</u> | <u>26</u>        |
| <u>Medium hard gray basalt</u>                 | <u>463</u>                | <u>566</u> | <u>103</u>       |
| <u>Porous black basalt with black clay</u>     | <u>566</u>                | <u>613</u> | <u>47</u>        |
| <u>Medium hard gray basalt</u>                 | <u>613</u>                | <u>679</u> | <u>59</u>        |
| <u>Medium hard black basalt</u>                | <u>679</u>                | <u>723</u> | <u>44</u>        |
| <u>Medium hard gray basalt</u>                 | <u>723</u>                | <u>779</u> | <u>56</u>        |
| <u>Hard gray basalt</u>                        | <u>779</u>                | <u>787</u> | <u>8</u>         |
| <u>Medium hard gray basalt with black clay</u> | <u>787</u>                | <u>811</u> | <u>24</u>        |
| <u>Medium hard black basalt</u>                | <u>811</u>                | <u>825</u> | <u>14</u>        |
| <u>Medium hard gray basalt</u>                 | <u>825</u>                | <u>827</u> | <u>2</u>         |
| <u>Hard gray basalt</u>                        | <u>827</u>                | <u>830</u> | <u>3</u>         |
| <u>Medium hard gray basalt</u>                 | <u>830</u>                | <u>836</u> | <u>6</u>         |
| <u>Black and red basalt</u>                    | <u>836</u>                | <u>841</u> | <u>5</u>         |
| <u>Broken porous black and brown basalt</u>    | <u>841</u>                | <u>864</u> | <u>23</u>        |
| <u>Porous black basalt</u>                     | <u>864</u>                | <u>869</u> | <u>5</u>         |
| <u>Porous black and brown basalt</u>           | <u>869</u>                | <u>883</u> | <u>14</u>        |
| <u>Medium soft black basalt</u>                | <u>883</u>                | <u>888</u> | <u>5</u>         |
|  |                           |            |                  |
|  |                           |            |                  |
|  |                           |            |                  |
|  |                           |            |                  |
|  |                           |            |                  |
|  |                           |            |                  |
|  |                           |            |                  |

### Water Level Record

OWNER: MILTON-FREEWATER OWNER'S NO. #8

Description of measuring point: \_\_\_\_\_

| Date    | Water Level<br>Feet (above<br>(below)<br>Land Surface | Remarks | Date | Water Level<br>Feet (above<br>(below)<br>Land Surface | Remarks |
|---------|---|---------|------|---|---------|
| 3-19-64 | 239   |         |      |   |         |
| 4-13    | 141.5   |         |      |   |         |
| 6-15    | 193.5   |         |      |   |         |
| 7-13    | 243   |         |      |   |         |
| 8-24    | 245   |         |      |   |         |
| 9-22    | 245.10  |         |      |   |         |
| 10-26   | 245.40  |         |      |   |         |
| 11-23   | 245   |         |      |   |         |
| 12-24   | 245.50  |         |      |   |         |
|         |   |         |      |   |         |
|         |   |         |      |   |         |
|         |   |         |      |   |         |
|         |   |         |      |   |         |
|         |   |         |      |   |         |
|         |   |         |      |   |         |
|         |   |         |      |   |         |
|         |   |         |      |   |         |
|         |   |         |      |   |         |
|         |   |         |      |   |         |
|         |   |         |      |   |         |

REMARKS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

STATE OF OREGON  
**WATER WELL REPORT**  
 (as required by ORS 537.765)

*Umat*  
*5999*

**RECEIVED**

APR 11 1994

*5N/35E/1266*  
*5333.8*

WATER RESOURCES DEPT.

(START CARD) #

(1) OWNER: Well Number *#1*  
 Name *City of Milton Freewater*  
 Address *PO Box 6*  
 City *Milton Freewater* State *OR* Zip *97062*

(9) LOCATION OF WELL by legal description:  
 County *Umatilla* Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township *5* N or S. Range *35* E or W. WM. \_\_\_\_\_  
 Section *12* NW 1/4 NW 1/4 \_\_\_\_\_  
 Tax Lot *06509* Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) *SE 9th*  
*of Mill St.*

(2) TYPE OF WORK:  
 New Well  Deepen  Recondition  Abandon

(3) DRILL METHOD:  
 Rotary Air  Rotary Mud  Cable  
 Other \_\_\_\_\_

(4) PROPOSED USE:  
 Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Other *Municipal*

(5) BORE HOLE CONSTRUCTION:  
 Special Construction approval  Yes  No Depth of Completed Well *584* ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

| HOLE      |          |            | SEAL      |      |    | Amount |
|-----------|----------|------------|-----------|------|----|--------|
| Diameter  | From     | To         | Material  | From | To |        |
| <i>12</i> | <i>0</i> | <i>584</i> | <i>NA</i> |      |    |        |

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_

Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
 Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

(6) CASING/LINER:

| Diameter | From | To | Gauge |                          |                          |                          |                          |
|----------|------|----|-------|--------------------------|--------------------------|--------------------------|--------------------------|
|          |      |    |       | Steel                    | Plastic                  | Welded                   | Threaded                 |
| Casing:  |      |    |       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|          |      |    |       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Liner:   |      |    |       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|          |      |    |       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS:  
 Perforations Method \_\_\_\_\_  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

| From | To | Slot size | Number    | Diameter | Tele/pipe size | Casing                   | Liner                    |
|------|----|-----------|-----------|----------|----------------|--------------------------|--------------------------|
|      |    |           | <i>NA</i> |          |                | <input type="checkbox"/> | <input type="checkbox"/> |

(8) WELL TESTS: Minimum testing time is 1 hour

| Yield gal/min | Drawdown  | Drill stem at | Time  |
|---------------|-----------|---------------|-------|
|               | <i>NA</i> |               | 1 hr. |

Temperature of Water \_\_\_\_\_ Depth Artesian Flow Found \_\_\_\_\_  
 Was a water analysis done?  Yes By whom \_\_\_\_\_  
 Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
 Depth of strata: \_\_\_\_\_

(10) STATIC WATER LEVEL:  
*228* ft. below land surface. Date *3-29-94*  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
 Depth at which water was first found *228*

| From | To | Estimated Flow Rate | SWL |
|------|----|---------------------|-----|
|      |    |                     |     |

(12) WELL LOG: Ground elevation \_\_\_\_\_

| Material  | From | To | SWL |
|---|------|----|-----|
| <i>Ran 12" stabilizers down well to straighten for lowering of turbine pump</i> |      |    |     |
| <i>Cleaned well out to 584 ft.</i>  |      |    |     |
| <i>Stabilizers reamed off side of well 584 ft is starting new hole</i>          |      |    |     |

Date started *3-8-94* Completed *3-29-94*

(unbonded) Water Well Constructor Certification:  
 I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WVC Number \_\_\_\_\_  
 Signed \_\_\_\_\_ Date \_\_\_\_\_

(bonded) Water Well Constructor Certification:  
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WVC Number *759*  
 Signed *[Signature]* Date *3-31-94*



WMA  
51825

AUG 07 1998

STATE OF OREGON  
WATER SUPPLY WELL REPORT  
(as required by ORS 537.765)

WATER RESOURCES DEPT.  
SALEM, OREGON

(START CARD) # 092107

Instructions for completing this report are on the last page of this form

(1) OWNER: Well Number #9  
Name City Milton-Free water  
Address P.O. Box 6 722 S. Main  
City Milton-Free water State Ore. Zip 97162

(9) LOCATION OF WELL by legal description:  
County Umatilla Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township 5 N or S Range 35 E or W WM.  
Section 12 SW 1/4 SE 1/4  
Tax Lot 1104 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) Hwy 11

(2) TYPE OF WORK  
 New Well  Deepening  Alteration (repair/recondition)  Abandonment

(10) STATIC WATER LEVEL:  
292 ft. below land surface. Date 7-16-98  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(3) DRILL METHOD:  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other Reverse Rotary

(11) WATER BEARING ZONES:  
Depth at which water was first found \_\_\_\_\_

(4) PROPOSED USE:  
 Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Livestock  Other \_\_\_\_\_

(5) BORE HOLE CONSTRUCTION:  
Special Construction approval  Yes  No Depth of Completed Well 820'  
Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

| From               | To | Estimated Flow Rate | SWL |
|--------------------|----|---------------------|-----|
| <u>No Drilling</u> |    |                     |     |
|                    |    |                     |     |
|                    |    |                     |     |

HOLE SEAL  
Diameter From To Material From To Sacks or pounds  
18" +2 290 grout 72 290 2 yds  
Packer set at 290' to  
18" x 12"  
How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_  
Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

(12) WELL LOG:  
Ground Elevation \_\_\_\_\_

| Material                 | From | To | SWL |
|--------------------------|------|----|-----|
| <u>Did NO</u>            |      |    |     |
| <u>Drilling</u>          |      |    |     |
| <u>just installed</u>    |      |    |     |
| <u>liner in existing</u> |      |    |     |
| <u>well.</u>             |      |    |     |
|                          |      |    |     |
|                          |      |    |     |

(6) CASING/LINER:  
Liner Casing: Diameter From To Gauge Steel Plastic Welded Threaded  
12" +2 462 .375      
10" 462 692 .365      
Liner: \_\_\_\_\_  
Final location of shoe(s) \_\_\_\_\_

Date started 7-10-98 Completed 7-28-98

(7) PERFORATIONS/SCREENS:  
 Perforations Method Factory cut  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_  
From To Slot size Number Diameter Tele pipe size Casing Liner  
462 692 4 1/2" 40/4 10"    
40 slots per foot

(unbonded) Water Well Constructor Certification:  
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.  
Signed \_\_\_\_\_ WWC Number \_\_\_\_\_  
Date \_\_\_\_\_

(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Bailer  Air  Flowing Artesian  
Yield gal/min Drawdown Drill stem at Time  
None Done \_\_\_\_\_ 1 hr.

(bonded) Water Well Constructor Certification:  
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.  
Signed [Signature] WWC Number 1506  
Date 8-5-98

# Milton Freewater Well & Pump Dimensions

