

RECEIVED

WATER WELL REPORT

WATER RESOURCES DEPARTMENT
SALEM, OREGON 97310
within 30 days from the date
of well completion

MAY 31 1979

STATE OF OREGON

(Please type or print)

WALL
252

State Well No. 15/45E-12CB

State Permit No.

SALEM, OREGON

(1) OWNER: ORVILLE MAKIN
Name MAKIN FARMS INC.
Address ENTERPRISE, OR.

(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 ☐

(5) CASING INSTALLED:

12" Diam. from 0 ft. to 24 ft. Gage 250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No.

Type of perforator used

Size of perforations in. by in.
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
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is
lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? LAYNE Pump Co.
Yield: 1200 gal./min. with 130 ft. drawdown after 4 hrs.

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used NEAT CEMENT
Well sealed from land surface to 24 ft.
Diameter of well bore to bottom of seal 16 in.
Diameter of well bore below seal 12 in.
Number of sacks of cement used in well seal 20 sacks
How was cement grout placed?

Was a drive shoe used? ☐ Yes ☒ No Plugs Size: location ft.

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.

(10) LOCATION OF WELL:

County WABLOWA Driller's well number 07-79
NW 1/4 SW 1/4 Section 12 T. 15. R. 45 E. W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 247 ft.
Static level 240 ft. below land surface. Date 4-13-79
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 8" BELOW

Depth drilled 1105 ft. Depth of completed well 1105 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 and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
SOIL CLAY	0	6	
CLAY GRAVEL	6	16	
GREY BASALT	16	45	
RED "	45	71	
MED. HARD GREY BASALT	71	206	
SOFT BRN. + RED "	206	248	WATER
MED. HARD GREY "	248	376	
HARD "	376	467	
SOFT BRN. + RED "	467	494	
MED. GREY "	494	710	
BROKEN BRN. "	710	716	WATER
HARD GREY "	716	804	
RED + BRN. "	804	829	WATER
HARD GREY "	829	894	
BROKEN BROWN "	894	905	
RED + BRN. CLAY	905	1073	
HARD GREY "	1073	1105	

Work started 3/29 1979 Completed 4-13 1979
Date well drilling machine moved off of well 4-15 1979

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] Wallace Date 5-15, 1979
(Drilling Machine Operator)

Drilling Machine Operator's License No. 886

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 WALLACE WELL DRILLING CO.
(Person, firm or corporation) (Type or print)

Address PENDELTON, OR.

[Signed] Wallace
(Water Well Contractor)

Contractor's License No. 583 Date 3-15, 1979

Jack Seva
1/45-20
RECEIVED
FEB 13 1963
STATE ENGINEER
TALAM, OREGON

GROUND WATER BRANCH
Box 3418
Portland 8, Oregon

February 11, 1963

Mr. Gregory J. Wieck

Enterprise, Oregon

Dear Mr. Wieck:

In reply to your January 28 letter, referred by Norman Wagner, inquiring for information about ground water for irrigation at your place 6 miles northeast of Enterprise:

As near as I can gage your location, from your description over the telephone today, the land you want to irrigate is in about sections 16, 20, and 21, T. 1 S., R. 45 E. It is valley land at an elevation of about 4,000 feet and lies on the divide between Swamp Creek to the north and Prairie Creek to the south.

Assuming this approximate location to be correct, the following generalizations can be made about the probable ground-water situation for irrigation:

1. The bedrock is the layered lava series known as the Columbia River Basalt, and it is about 2,000 feet thick.
2. The general ground-water movement in the bedrock is southward into the broad and gentle syncline (downwarp) which runs generally east-west through Enterprise and Joseph.
3. The drainage of ground water out of that syncline is sufficiently distant that it should not appreciably lower the water level at your place, and the water within the first 1,000 feet of the basalt should be less than 100 feet of the surface. *level from*
4. The north-south lineament along Swamp Creek and Prairie Creek may be a fault with downthrown side on the east. Thus the upland block east of the valley would be tilted to the west.
5. If (4) is correct, possibly fault-disturbed rock below part of the valley floor might be a less desirable place to drill than unshattered rock just to the east. The evaluation of these factors of the geology would probably require study on the ground.

Enclosed is a reprint of an article on ground water in the Columbia River Basalt. It describes average yields and common well characteristics.

Aside from the possibility of ground water in the bedrock basalt, there may be some overlying gravels or valley fill that would afford some water to wells. At least in exploring a new area like that, the unconsolidated valley fill might be worth testing even though the possibility of large yields to wells may lie in the basalt.

Also enclosed is a copy of the Joseph Quadrangle map, which includes the area around your place.

Sincerely yours,

R. C. Newcomb
Research Geologist

Enclosures

cc: Hollis Dole
N. S. Wagner
Jack Seave ✓
B. L. Foxworthy