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AUG 14 1958

MORR 476
OBSERVATION WELL #4
WATER WELL REPORT

MORR 476
11/27-24R
ddd
State Well No.

File Original and
First Copy with the
STATE ENGINEER,
SALEM, OREGON

STATE ENGINEER
SALEM, OREGON

STATE OF OREGON

G-784

State Permit No.

(1) OWNER:

Name A.J. VEY
Address ECHO OREGON

(2) LOCATION OF WELL:

County MORROW Owner's number, if any- #4
SE 1/4 SE 1/4 Section 24 T. 1N R. 27E W.M.
Bearing and distance from section or subdivision corner
200 FT. NORTH AND 100 FT. WEST
OF THE S.E. CORNER OF SEC 24

(3) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic Industrial Municipal Rotary Driven
Irrigation Test Well Other Cable Jetted
Dug Bored

(6) CASING INSTALLED:

Threaded Welded
12" Diam. from 0 ft. to 54.8 ft. Gage STD.
8" Diam. from 306 ft. to 500 ft. Gage STD.
" Diam. from ft. to ft. Gage

(7) 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.
..... perforations from ft. to ft.
..... perforations from ft. to ft.

(8) SCREENS:

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

(9) CONSTRUCTION:

Was well gravel packed? Yes No Size of gravel:
Gravel placed from ft. to ft.
Was a surface seal provided? Yes No To what depth? 54.8 ft.
Material used in seal- CEMENT 54 SACKS
Did any strata contain unusable water? Yes No
Type of water? Depth of strata
Method of sealing strata off

(10) WATER LEVELS:

Static level FLOW ft. below land surface Date
Artesian pressure 39 gals. lbs. per square inch Date 5/23/58
Log Accepted by:
[Signed] Date, 19.....
(Owner)

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom? -
Yield: gal./min. with ft. drawdown after hrs.
" " " " "
" " " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow APPROX 100 g.p.m. Date 5/23/58
Temperature of water 74 Was a chemical analysis made? Yes No

(12) WELL LOG:

Diameter of well 12 X 8 inches.
Depth drilled 777 ft. Depth of completed well 777 ft.
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

| MATERIAL | FROM | TO |
|----------------------------------|------|-----|
| CLAY & SAND | 0 | 27 |
| GRAVEL | 27 | 31 |
| BROKEN BASALT | 31 | 34 |
| BASALT HARD GRAY | 34 | 189 |
| " SOFT | 189 | 193 |
| " HARD GRAY | 193 | 256 |
| " SOFT | 256 | 262 |
| " HARD GRAY | 262 | 315 |
| " SOFT BROWN | 315 | 319 |
| " " BLACK | 319 | 326 |
| " HARD GRAY | 326 | 350 |
| " SOFT BROWN | 350 | 357 |
| " POROUS BLACK WATER BEG. | 357 | 390 |
| " HARD GRAY SWL-0- | 390 | 553 |
| " BLACK SOFT 8" HOLE | 553 | 562 |
| " RED SOFT (GAS) WELL FLOWING | 562 | 575 |
| " BLACK | 575 | 590 |
| " GRAY | 590 | 648 |
| " RED (MORE GAS) MORE FLOW | 648 | 652 |
| " BLACK | 652 | 699 |
| " BROWN (MORE GAS) INCREASE FLOW | 699 | 707 |
| " GRAY HARD | 707 | 722 |
| " BLACK | 722 | 747 |
| " HARD GRAY | 747 | 777 |
| GAS BURNS BLUE FLAME | | |

Work started 10/8 1957 Completed 5/23 1958

(13) PUMP:

Manufacturer's Name
Type: H.P.

Well Driller's Statement:

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

NAME YAGER DRILLING Co.
(Person, firm, or corporation) (Type or print)
Address RT. 3 Box 347-D Walla Walla Wn.
Driller's well number 58-6
[Signed] Harold Yager Owner.
(Well Driller)
License No. 155 Date 7/23, 1958

IN/27-24R
Morrow

Harold Yager
RT 3 Box 1347-D.
Halla Halla Inn.
Aug. 12, 1958.

Lewis A. Stanley,
State Engineer
Salem, Oregon.

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STATE ENGINEER
SALEM, OREGON

Dear Mr. Stanley,

Inclosed is a log of A.V. Key well #4. I wish to explain the log a little more in detail.

At 500' the well was caving and we set 193' of 8" standard pipe liner in at that depth. At this time the water was static at surface level. We pumped approx. 550 g.p.m. and lowered the static head 6 feet.

In the red rock from 562-575 we started to develop some gas and again 648-652 and 699-707. This well does not have a true artesian pressure but is being pumped at the rate of 700 g.p.m. by the discharge of the gas.

The gas is very combustible and burns a blue flame. The well when shut in builds up 39 lbs of gas pressure.

Sincerely yours,
Harold Yager.