RA

Oregon

Theodore R. Kulongoski, Governor

Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900
FAX 503-986-0904

INTEROFFICE MEMO

FORWARD TO: ☞ Sarah Henderson DATE: 7-13-07
FIELD ~~PROCESSOR~~ WORKING ON THIS TRANSFER

FROM: _____ WATERMASTER, DISTRICT # _____
X GROUNDWATER SECTION

(SIGNATURE) Dana Miller date signed 8/15/07
signed by injury reviewer

SUBJECT: **WATER RIGHT TRANSFER #** 10427

A change in: (**POU**) **POD** (**POA**) (**USE**) of water.

In the name(s) of Craig Coleman

In my opinion (assuming the right is valid), the proposed change

(MAY BE MADE WITHOUT INJURY) WOULD RESULT IN INJURY* to an existing water right. Dwr

*The approval of this transfer application would result in injury to other water rights because

_____

_____

_____

_____

The existing right may not be valid because _____

_____

_____

Headgate notices HAVE HAVE NOT Been issued for diversion from the source(s)which serve(s) this right.

If for change in point of diversion, is there any intervening point(s) for diversion between the authorized and proposed points of diversion? (Yes or No) _____

In my opinion, the order approving the subject transfer application should include the following in regard to the appropriator installing suitable measuring devices in the diversion works:

_____ (1) PRIOR to the diverting of water at the new point of diversion . . .

_____ (2) WHEN IN the judgement of the watermaster it becomes necessary . . .

The enclosed copy of the transfer application and map(s) is for your records.

STATE OF OREGON
Water Resources Department
725 Summer St. N.E., Ste. A
Salem, OR 97301

MEMORANDUM

DATE: 8/15/07

TO: File T-10427
FROM: Donn Miller, Hydrogeologist (503.986.0845)

SUBJECT: File T-10427, Coleman

The transfer seeks to change the POA and the character of use for a portion of Certificate 80913.

The setting is the Ordnance Basalt Critical Ground Water Area of Umatilla County. Well #9 (T4N/R27E-S36) is identified as a shallow basalt aquifer well in the critical area order and OWRD Ground Water Report #23. The proposed well (T4N/R27E-S25) would need to draw from the same source.

The shallow basalt aquifer is discussed in the report. It says that the shallow zones in the basalt formation above a general depth of 400 feet are hydraulically separated from the deep basalt zones but are at least partly hydraulically connected to the shallow gravel aquifer system. The application supposes that a well at the proposed location will intercept the shallow basalt aquifer. The proposed well construction will be 300 feet total depth and cased/sealed to 150 feet. That construction looks appropriate to develop the shallow basalt aquifer.

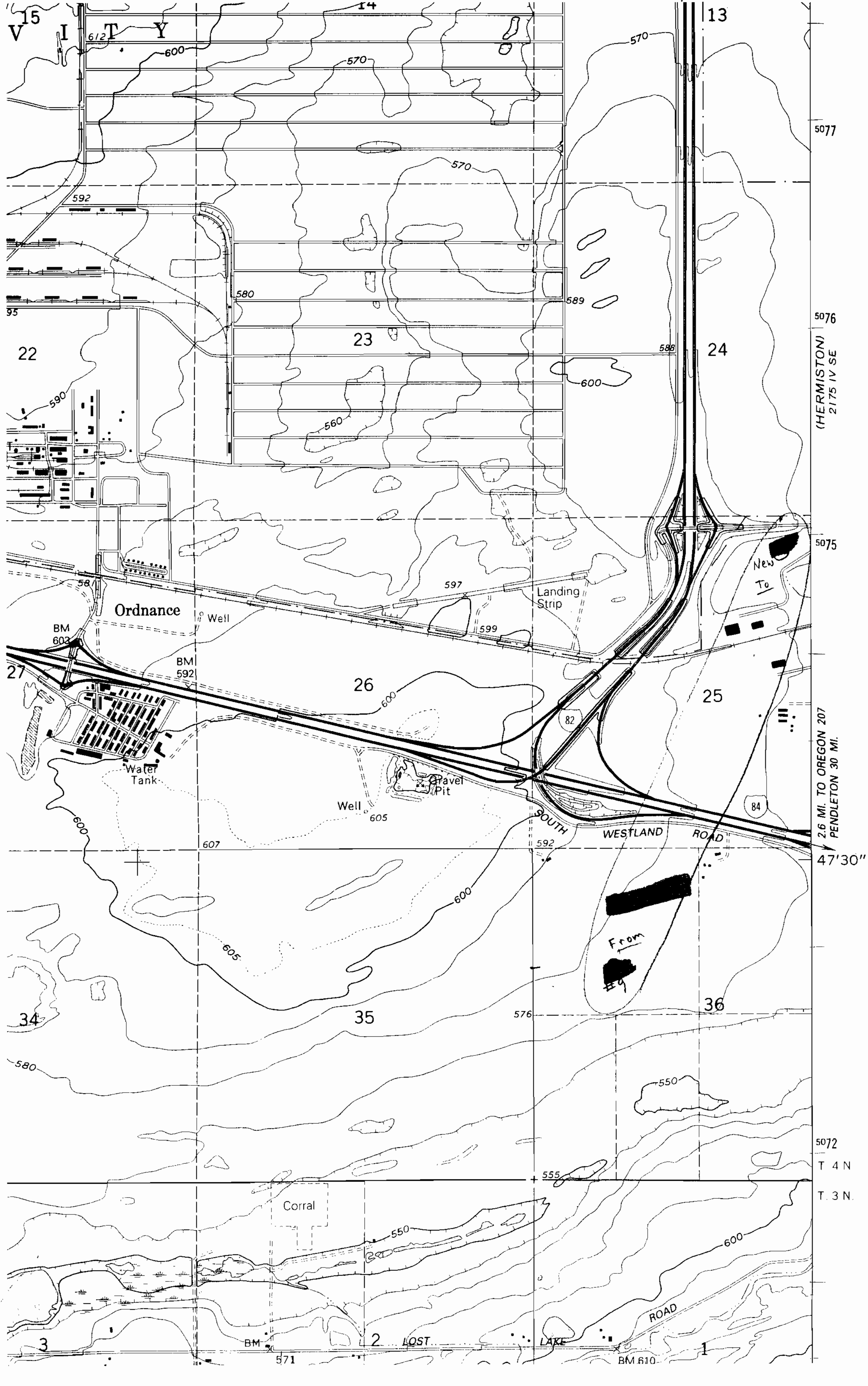
Well #9 was built in 1952 and is poorly documented by UMAT 1806. The casing depth, sealing depth, and perforation intervals are all missing. Data is file U-736 says that the casing is 12 inch diameter to 105 feet. There is nothing to say that the casing is perforated. OWRD has presumed that the well develops water from the basalt aquifer in the interval from 105 to 135 feet and not the sand and gravel aquifer from 0 to 95 feet. The static water level was originally 55 feet below land surface. The land surface elevation at the well is 575 feet amsl. The head was 520 feet above msl. Measurements in the 80's and 90's have been about 58 feet below land surface with a head of about 517 feet above msl.

A number of wells in this area develop a/the shallow basalt aquifer. The use is typically exempt from permitting and the heads are similar to that of well #9. The stated connection to the shallow gravel aquifer system is reasonable as the deep basalt aquifer in Ordnance has a head of about 300 feet above msl and the gravel aquifer has a head of about 500 feet above msl. The strength of connection among shallow basalt wells is not clear.

My critical area monitoring at this well has been weak. I am not able to confirm the breadth of use from the well over the last 15 years.

It appears from the information that the proposed well will be several hundred feet from offsite wells. This spacing will help to reduce any hydraulic interference.

It appears that the layered coverage of the "from" acreage by C82596 (supplemental irrigation with artificial recharge water) is unresolved by this application.



V I T Y
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1
Ordnance
Well
Landing
Strip
Water
Tank
Gravel
Pit
Well
Corral
SOUTH WESTLAND ROAD
LOST LAKE ROAD
BM 603
BM 592
BM 571
BM 610
82
84
New
To
From
#9
(HERMISTON)
2175 IV SE
2.6 MI. TO OREGON 207
PENDLETON 30 MI.
47'30"
5077
5076
5075
5072
T. 4 N.
T. 3 N.
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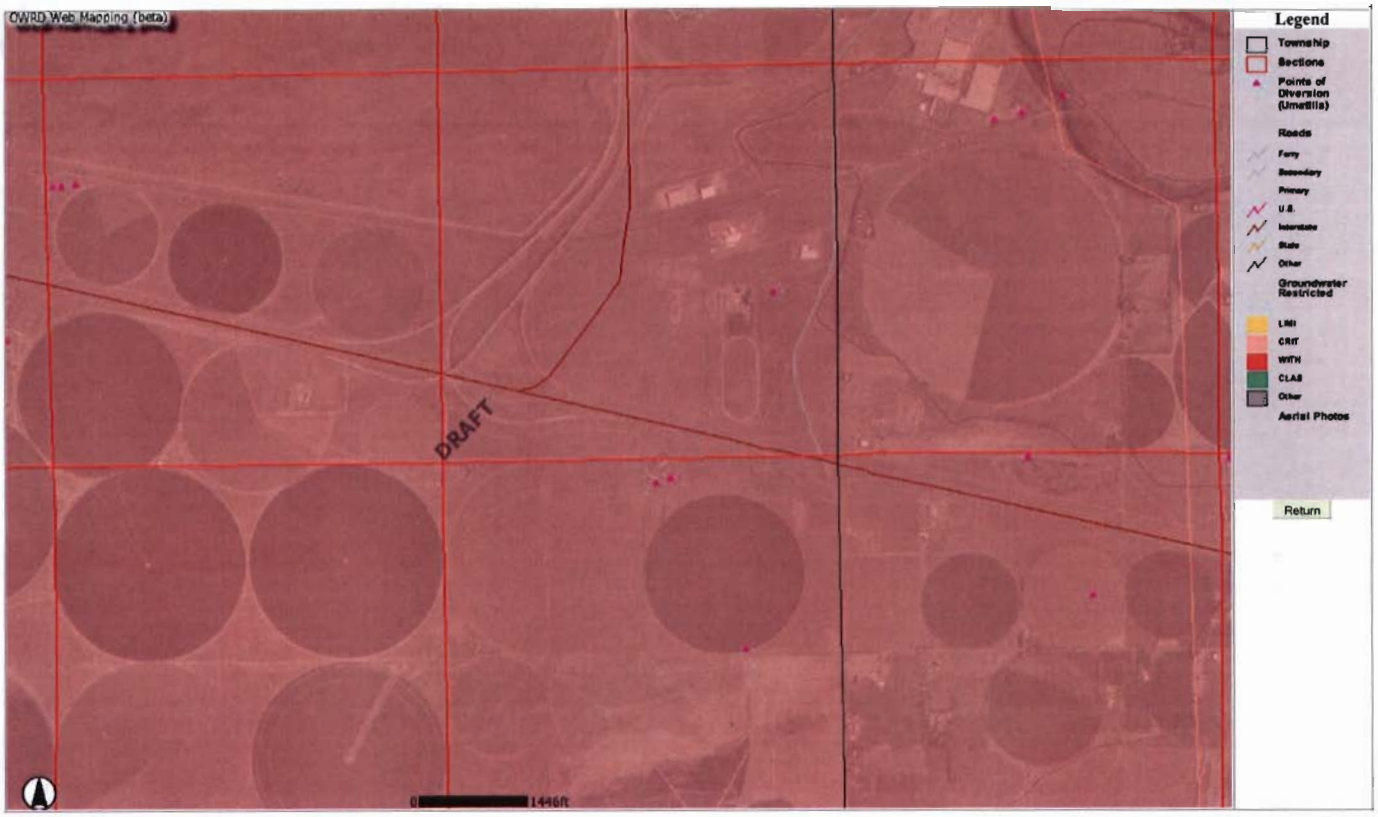
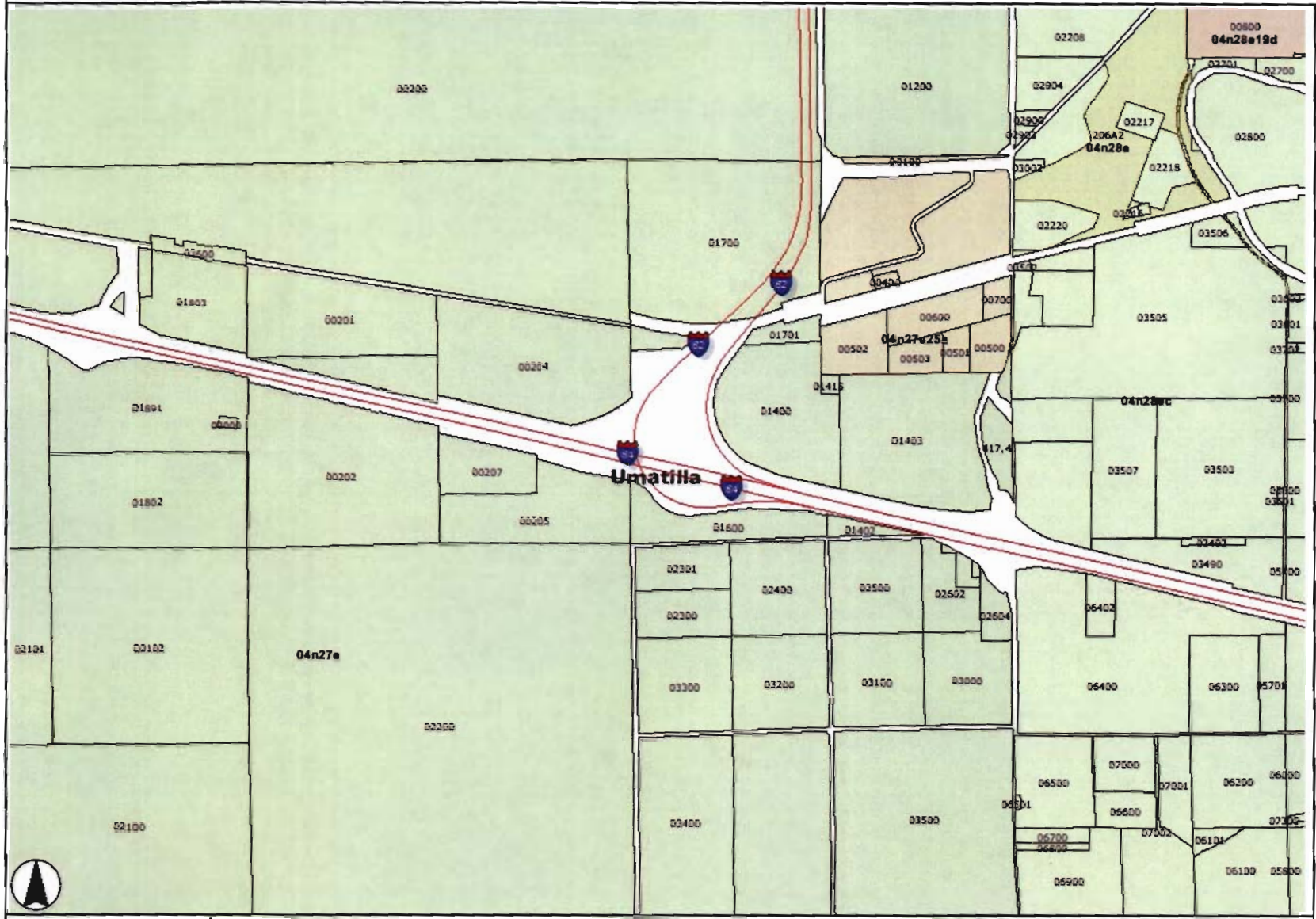

OWRD Web Mapping (beta)
DRAFT
0
1446ft
Legend
Township
Sections
Points of Diversion (Umatilla)
Roads
Ferry
Secondary
Primary
U.S.
Interstate
State
Other
Groundwater Restricted
LMI
CRIT
WITH
CLAS
Other
Aerial Photos
Return

ORMAP



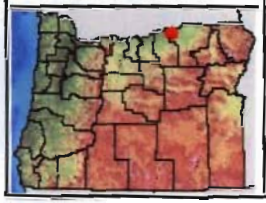
Legend

- Counties
- Taxlots
- Highways

Maps

- 03n28e
- 04n27e
- 04n27e25a
- 04n28e
- 04n28e19d
- 04n28ec

Overview



Disclaimer

FOR ASSESSMENT PURPOSES ONLY.
DO NOT RELY ON FOR ANY OTHER USE.

RECEIVED
JAN 24 1955
STATE ENGINEER
SALEM, OREGON

UMAT 1806

4N/27-36E(1)
Umatilla

G.W. Redwine

Application No. U 736
Permit No. U 649
Well No. 1

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 JAN. 21, 1955

1. Location of well: SW¼ of NW¼ of Section 36 Twp. 4N Rge. 27E W. M.
2. Name of nearest natural surface stream Umatilla River
3. Distance from well to that stream: Apprx 3 Miles ~~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: Apprx 3 Miles ~~feet~~.
5. Date of beginning drilling or digging: August 16, 1952
6. Date well was completed September 8, 1952

7. LOG OF MATERIALS ENCOUNTERED

Character of Material	Depth at which encountered	Thickness of stratum
Sandy loam Topsoil	At surface	20 ft.
Sand & Gravel	20 ft.	80 ft.
Gravel	80 ft.	65 ft.
Gray Clay	95 ft.	10 ft.
Gray Rock	105 ft.	30 ft.
Blue Clay & Shale	135 ft.	59 ft.
	ft.	ft.
	ft.	ft.
	ft.	ft.

Remarks:

WELL INFORMATION

8. Diameter of well 12 inches. Depth of well 194 feet.
9. Depth at which water was first encountered 55 feet.
10. Water level when completed: [redacted] feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.: Gravel had tendency to Cave From 60' to 95' where Gray Clay was First Found

based on this, the well is likely cased to at least 95'

RECEIVED
JUL 02 2007
WATER RESOURCES DEPT
SALEM, OREGON

→ Inspection Info: 105' of 12" casing in file
SWL 70' on 3/1/56

STATE ENGINEER
Salem, Oregon

State Well No. 4N/27-36D(1)

County Umatilla

Application No. CANCEL

Water Level Record

OWNER: G.W. Redwine   OWNER'S NO.

Description of measuring point: Owner's Airline of Gauge at LSD.
Airline (165 feet Deep)

Date	Water Level Feet (above) (below) Land Surface	Remarks	Date	Water Level Feet (above) (below) Land Surface	Remarks
		212 feet Deep			
1-26-61	110.90	WSB			
5-25-61	123.	WSB (18# or 42')			
5-25-61	18# - 123.42	WSB Pumping			
8-24-61	13# - 136.00	WSB "			
11-8-61	120.14	RD & WSB			
11-8-61	21# - 116.5	RD & WSB - Airline ?			

T. 4N., R. 27E.

Swl measured July 8, 1957 was 77.64 below top of 12" casing ~~which~~ was 1.0 ft above L.S.

PUMP INFORMATION

12. Manufacturer of pump: Berkeley Pump Co
13. Address: Berkeley, California.
14. Data on name or base plate: Model 803L-9 Serial # 5H10113
1750 RPM - 15 H.P.
15. Data on pump bowl assembly: 803-L - Cap Diameter 6 7/16 x 6"
9 Stages -
16. Size of pump: 15 H.P.
17. Rated capacity: 225 gpm gallons per minute.
18. Rated speed: 1750 RPM revolutions per minute.
19. Number of stages: 9
20. Size of intake pipe: 5"
21. Size of discharge pipe: 5"
22. Length of intake pipe: 5'5"
23. Length of discharge pipe: 160'
24. Suction lift: (difference in elevation between water surface in well and pump) Static Well Curtain - P.L. 140'
25. Discharge lift: (difference in elevation between pump and end of discharge line) 140'
26. Depth of pump intake below ground surface: 170' feet.
27. Remarks:

MOTOR OR ENGINE INFORMATION

28. Name of manufacturer: U.S. Motors
29. Address: Los Angeles Calif
30. Type of motor or engine: Electrical
31. Data on name or base plate: 15 H.P. - 3 Ph. - 220-440 volts - Frame 326-3 - Serial # 961412 - 60 cy cl. 1800 RPM - 20-40 Amps. 40° C Rating F Code # Design.
32. Rated horsepower: 15
33. Rated speed of motor or engine: 1800 revolutions per minute.
34. Rated Capacity of Pump (with described motor)

225	g.p.m. at	320	ft. head
	g.p.m. at		ft. head
	g.p.m. at		ft. head
	g.p.m. at		ft. head
	g.p.m. at		ft. head

35. Remarks:

CAPACITY TEST

36. Date of test: 12/12/53 37. Temperature of water ___°F. or ___°C.
38. Motor speed during test: Varied
39. Test made by (weir, tank or other means): Deep Well Turbine w/gas motor

40.

Pounds pressure	TOTAL HEAD	*Total lift in feet	Gallons per min.	°Feet to water level	¤Draw-down	+Time
___lbs.,	Gauge at pump	Total___ft.___in.	187	50 ft.	125 ft.	2 PM.
___lbs.,	Gauge at pump	Total___ft.___in.	240	125 ft.	175 ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.	230	170 ft.	[illegible] ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.	225	160 ft.	no ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.	225	150 ft.	no ft.	8 PM.
___lbs.,	Gauge at pump	Total___ft.___in.		ft.	ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.		ft.	ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.		ft.	ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.		ft.	ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.		ft.	ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.		ft.	ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.		ft.	ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.		ft.	ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.		ft.	ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.		ft.	ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.		ft.	ft.	___M.
___lbs.,	Gauge at pump	Total___ft.___in.		ft.	ft.	___M.

6 hrs Test.

Used Drive the Direct Reading Depth Gauge — in ft.

* 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 320 ft.
42. Water is discharged into: 6" Steel Main Line Pipe
43. Was water lowered to pump intake by test? Yes — from 50' to 150'
44. Remarks: Well capacity water getting better

GENERAL INFORMATION

45. Name of contractor or other party who drilled or dug well:
B + G Drilling Co. Address: Pendleton, Oregon.
46. Pump and motor were installed by: Carrell Equipment Co
Address: Pendleton, Oregon
47. Capacity test was made by: Carrell Equip. Co
Address: Pendleton, Oregon
48. General remarks:

RECEIVED
MAR 3 1966
STATE ENGINEER

UMAT 1558

Present Interchange Location 4N/27-25N

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON, within 30 days from the date of well completion.

WATER WELL REPORT
STATE OF OREGON
(Please type or print)

State Well No. 4N/27-25N

State Permit No.

(1) OWNER:
Name Mrs. Lyle Miller
Address 31185 Tualatin Valley Highway
Hillsboro, Oregon

(2) LOCATION OF WELL:
County Umatilla Driller's well number
¼ ¼ Section 25 T. 4 N R. 27E W.M.
Bearing and distance from section or subdivision corner

[redacted] Rt. 1, Box 134, Hermiston, Oregon

(3) TYPE OF WORK (check):
[redacted]y Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
[redacted]ndonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED:
Threaded ☐ Welded ☒
12 " Diam. from 0 ft. to 121 ft. Gage standard
" Diam. from ft. to ft. Gage
" 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.
[redacted] perforations from ft. to ft.
perforations from ft. to ft.

(8) SCREENS:
Well screen installed ☐ Yes ☒ No
Manufacturer's Name
[redacted] Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:
Well seal—Material used in seal Bentonite&puddled clay
Depth of seal 25 ft. Was a packer used? no
Diameter of well bore to bottom of seal 16 in.
Were any loose strata cemented off? ☐ Yes ☐ No Depth
Was a drive shoe used? ☒ Yes ☐ No
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? Depth of strata
Method of sealing strata off

(10) WATER LEVELS:
Static level 62 ft. below land surface Date 2/10/66
Artesian pressure lbs. per square inch Date

LSE ~ 590'

(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 30 gal./min. with 33 ft. drawdown after 2 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? ☐ Yes ☒ No

(12) WELL LOG:
Diameter of well below casing 12
Depth drilled 145 ft. Depth of completed well 145 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
Sandy soil	0	3
Sand gravel & boulders	3	5
Sand gravel & hard clay	5	20
Sand gravel some clay, cavey	20	65
Grey clay & silt	65	80
Sandy silt (some Water)	80	110
Brown clay	110	115
Broken brown rock some clay	115	125
Black basalt (water bearing)	125	143
Grey basalt	143	145

Work started 1/10/66 19 . Completed 2/10/66 19
Date well drilling machine moved off of well 2/12/66 19

(13) PUMP:
Manufacturer's Name
Type: H.P.

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 D. K. Smith (Person, firm or corporation) (Type or print)
Address P.O. Box 179
Drilling Machine Operator's License No. 121
[Signed] D K Smith (Water Well Contractor)
Contractor's License No. ~~104~~ 204 Date 3/3/66, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

RECEIVED
MAY 27 1968
STATE ENGINEER
SALEM, OREGON

OLD #37

Elev ~565'

UMAT 1557

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.

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

State Well No. 4N/27-25J

State Permit No. G-4427

(1) OWNER:
Name E.D. Johnson 648 West
Address Hermiston ORE Highland

(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:
Threaded ☐ Welded ☐
16" Diam. from 0 ft. to 20 ft. Gage .....
12" Diam. from 0 ft. to 96 ft. Gage .250
10" Diam. from 157 ft. to 187 ft. Gage .250

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.

(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) WATER LEVEL: Completed well.
Static level 98 ft. below land surface Date
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? P.E.G.I.
..... gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 46 gal./min. with NO ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? ☐ Yes ☑ No

(10) CONSTRUCTION:
Well seal—Material used Bentonite
Depth of seal 27 ft.
Diameter of well bore to bottom of seal 16 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 Umatilla Driller's well number
¼ NE ¼ Section 25 T. 4N R. 27 W.M.
Bearing and distance from section or subdivision corner
App. 1000' from NE Corner and 37' South

(12) WELL LOG:
Diameter of well below casing 12"
Depth drilled 191.5 ft. Depth of completed well 196.5 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
Sand	0	6	0
Cemented Sand & Gravel	6	40	0
Sandy Clay	40	65	65
Clay w Sand	65	90	65
Broken Basalt	90	137	65
Clay & Gravel	137	165	65
Blue Clay	165	175	65
Vesicular Basalt & Water Bearing	175	196.5	98

Work started 4-1- 1968 Completed 4-23 1968
Date well drilling machine moved off of well 4-25 1968

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] S.R. Glee Date 5-24, 1968
(Drilling Machine Operator)
Drilling Machine Operator's License No. 299

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 S.R. Glee Drilling Co
(Person, firm or corporation) (Type or print)
Address 2731 NE 132 ave Portland
[Signed] S.R. Glee
(Water Well Contractor)
Contractor's License No. 405 Date 5-24, 1968

(USE ADDITIONAL SHEETS IF NECESSARY)

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 JAN 13 1972 STATE ENGINEER SALEM, OREGON

RECEIVED MAR 2 - 1972 STATE ENGINEER SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON (Please type or print) (Do not write above this line)

State Well No. 4N/27-25

State Permit No. UMAT 1554

(1) OWNER:
Name Lamb Weston Well Box 408
Address Port of Umatilla Mc Nary
John N. Bishop manager

(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 ☒
18 " Diam. from 0 ft. to 88 ft. Gage .375
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

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?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 20 gal./min. with 67 ft. drawdown after 16 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite
Well sealed from land surface to 18 ft.
Diameter of well bore to bottom of seal 24 in.
Diameter of well bore below seal 18 in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal 4 sacks
Brand name of bentonite National
Number of pounds of bentonite per 100 gallons of water 2.5 lbs./100 gals.
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 Umatilla Driller's well number
¼ ¼ Section 25 T. 4N R. 27 E W.M.
Bearing and distance from section or subdivision corner
LSE : Est 575

(11) WATER LEVEL: Completed well.
Depth at which water was first found 70 ft.
Static level 40 ft. below land surface. Date 12-22-71
Artesian pressure head N 575' lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 15 ½
Depth drilled 102 ft. Depth of completed well 117 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
Boulders & gravel with clay	15	50	
Clay yellow	50	70	
sand & gravel	70	74	
clay yellow	74	87	
brkn. rock black	87	112	
rock hard grey	112	117	

See UMAT 1553 Sub proposed

Work started 12 - 10 19 71 Completed 12 - 22 19 71
Date well drilling machine moved off of well 12-23 19 71

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] R. L. Allison (Drilling Machine Operator) Date 1-11 19 72
Drilling Machine Operator's License No. 300

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 Allison Drlg Co. 77838 (Person, firm or corporation) (Type or print)
Address R2 Box 309C Hermiston ore
[Signed] R. L. Allison (Water Well Contractor)
Contractor's License No. 419 Date 1-11 19 72

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

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 JAN 4 - 1972 STATE ENGINEER SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

UMAT 1555

N 700' NW of Proposed POA

State Well No. 4N/27-25ab

State Permit No. LSE-580

(1) OWNER:

Name Lamb Weston Inc

Address 6600 S. W. Hampton Street
P.O. Box 23507, Portland, Ore. 97223

(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: Threaded ☐ Welded ☒

18" Diam. from 0.0 ft. to 104 ft. Gage 500 wall
18" Diam. pulled back from Gage 104.0 ft
to " Diam. from 92.0 with 20' 16" x 250 wall installed
Before hand.

(6) PERFORATIONS: Perforated? ☒ Yes ☐ No.

Type of perforator used Pre perforated By steel Supply
Size of perforations 3/8" in. by 3" in.
960 perforations from 20 - ft length 16" x
250 wall perforations installed from to 84.0 ft.
to 104.0 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? Maddox

Yield: NONE gal./min. with ft. drawdown after hrs.
Pump Test, "Drew down to Bowls"
No water out put. Dry Hole "

Bailer test NONE gal./min. with ft. drawdown after hrs.

Artesian flow NONE g.p.m.

Temperature of water 55 Depth artesian flow encountered NONE ft.

(9) CONSTRUCTION:

Well seal—Material used 18" Casing 500 wall
Well sealed from land surface to Set Inside of ft.
Diameter of well bore to bottom of seal 24" Casing 250 wall
Diameter of well bore below seal 24" Casing Grouted
Number of sacks of cement used in well seal from Bottom of sacks
Number of sacks of bentonite used in well seal 55' to Surface sacks
Brand name of bentonite
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs None 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 119.0 ft. to 104.0 ft. Backfill.

(10) LOCATION OF WELL:

County Umatilla Driller's well number 31

NW ¼ NE ¼ Section 25 T. 4N R. 27E. W.M.

Bearing and distance from section or subdivision corner
775' East & 100' South of NW. Corner
of N.E. ¼ of Sec. 25.

(11) WATER LEVEL: Completed well.

Depth at which water was first found 65.0 ft.
Static level 63.0 ft. below land surface. Date 11/29/71
Artesian pressure NONE lbs. per square inch. Date 11/29/71

(12) WELL LOG: Diameter of well below casing 18"

Depth drilled 64.0 ft. Depth of completed well 119.0 ft.
½" Gravel backfilled to 104.0

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
Boulder & Cemented	55.0	58.0	
gravels.			
Yellow Clay & gravel	58.0	85.0	65.0
Mixed			
Yellow Clay	85.0	100.0	63.0
Sand & Gravel	100.0	104.0	63.0
Broken, Black course	104.0	119.0	63.0
basalt rock.			
Note.			
After Drilling to 119.0 hole was			
backfilled back to 104.0 ½ - gravels.			
20' length 16" x 250 wall pre - perforated			
Casing was installed, pulled 18"			
Casing back from 104.0 to 92.0			
Glen Maddox performed pump Test			
No water production.			
Water Tight ¼" plate welded			
on Top of 18" Casing.			
Temporary Abandoned.			

Work started Nov. 24 1971 Completed Dec. 9 1971

Date well drilling machine moved off of well Dec. 10 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] R. K. Collins (Drilling Machine Operator) Date 12-29, 1971

Drilling Machine Operator's License No. 300

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 B. & B. Drilling Co. Glen Maddox agent. (Person, firm or corporation) (Type or print)

Address 1316 Grape Street, Sweet Home, Ore. 97386

[Signed] John L. Brown (Water Well Contractor)

Contractor's License No. 516 Date Dec. 29, 1971

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

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
MAY 4 - 1972
STATE ENGINEER
SALEM OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

UMAT 1553

State Well No. 4N/27-25

State Permit No.

(1) OWNER:
Name Eastern Oregon Farming co Inc'
Address 920 Crown Plaza
Portland 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 ☐
" Diam. from ft. to ft. Gage
" Diam. from None ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS: Perforated? ☒ Yes ☐ No.
Type of perforator used Mills knife
Size of perforations 1/2 in. by 3 in.
120 perforations from 70 ft. to 80 ft.
perforations from ft. to ft.
perforations from ft. to ft.

S+G aquifer

(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?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "
Bailer test 100 gal./min. with 10 ft. drawdown after 24 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

CONSTRUCTION:
Well seal—Material used None
Well sealed from land surface to ft.
Diameter of well bore to bottom of seal in.
Diameter of well bore below seal in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal sacks
Brand name of bentonite
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
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 Umatilla Driller's well number
¼ ¼ Section 25 T. 4N R. 27E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found ft.
Static level 34 ft. below land surface. Date 4-25
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing
Depth drilled ft. Depth of completed well 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
This is a well we Deepened for Lamb-Weston from 15ft to 117 - Dec 10-71 Dec 21-71 all I done on it now was perferated it - surged it & cleaned it up.			

SEE UMAT 1554

Work started 4-25 1972 Completed 5-1 1972
Date well drilling machine moved off of well 5-2 1972

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] R.L. Allison Date 5-2, 1972
(Drilling Machine Operator)
Drilling Machine Operator's License No. 300

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 Allison Drlg. Co.
(Person, firm or corporation) (Type or print)
Address R2 Box 309-C Hermiston ore
[Signed] R.L. Allison
(Water Well Contractor)
Contractor's License No. 419 Date 5-2, 1972

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

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.

UMAT 1552

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
MAR 18 1974
STATE ENGINEER
SALEM, OREGON

State Well No. 4N/27E-25 d
State Permit No. G-4427

(1) OWNER:
Name E.T. Johnson
Address R.T.1 Box 232 Hermiston

(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: Threaded ☐ Welded ☒
16" Diam. from 0 ft. to 52 ft. Gage .250
10" Diam. from 0 ft. to 58 ft. Gage
" Diam. from ft. to 58'10" 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 Johnson
Type Low Carbon Steel Model No.
Diam. 10 Slot size 50 Set from 58'10" ft. to 88'10" 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?
Yield: 300 gal./min. with 60 ft. drawdown after 60 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 Cement
Well sealed from land surface to 20' ft.
Diameter of well bore to bottom of seal 14 in.
Diameter of well bore below seal 16 in.
Number of sacks of cement used in well seal 8 sacks
Number of sacks of bentonite used in well seal sacks
Brand name of bentonite
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? Good depth of strata 30'
Method of sealing strata off
Was well gravel packed? ☒ Yes ☐ No Size of gravel: 1/4 to 1/16
Gravel placed from 52 ft. to 88'10" ft.

(10) LOCATION OF WELL:
County Uma Driller's well number
SE ¼ ¼ Section 25 T. 4N R. 27 W.M.
Bearing and distance from section or subdivision corner 12' From old Well
LSE ~ 560'

(11) WATER LEVEL: Completed well.
Depth at which water was first found 6 ft.
Static level 30 ft. below land surface. Date June 28
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing 10
Depth drilled 16 ft. Depth of completed well 88'10" 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
~~[illegible]~~ Sand	0	8	
Cemented Gr	8	12	
Sand & Gravel	12	30	
Brown Clay	30	40	
Yellow Clay	40	60	
~~[illegible]~~	~~[illegible]~~		
Yellow Sand & Little Clay	60	76	30
Yellow White Clay Sand	76	88'10"	30
Rock Hard	88'10"		30

Work started June 25 73 Completed Aug 30 1973
Date well drilling machine moved off of well Sept 10 1973

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] J. B. Frederick (Drilling Machine Operator) Date Sept 5 1973
Drilling Machine Operator's License No. 352

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 JOHN R EDWARDS (Person, firm or corporation) (Type or print)
Address LEXINGTON ORE
[Signed] John R Edwards (Water Well Contractor)
Contractor's License No. 479 Date 3-12, 1974

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

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.

UMAT 1551

WATER WELL REPORT

STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
MAY 29 1975
STATE ENGINEER
SALEM, OREGON

State Well No. 4N/27E-25
State Permit No.

(1) OWNER:
Name Eastern Oregon Farming Co.
Address P. O. Box A Irrigan, 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 ☒
6 " Diam. from 0 ft. to 90 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

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?
Yield: gal./min. with ft. drawdown after hrs.
" " "
air " " "
Bailer test 30 gal./min. with 100 ft. drawdown after 2 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used cement
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 3 sacks
Number of sacks of bentonite used in well seal sacks
Brand name of bentonite
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
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 Umatilla Driller's well number
¼ ¼ Section 25 T. 4N R. 27E W.M.
Bearing and distance from section or subdivision corner
LSE ~ 570'

(11) WATER LEVEL: Completed well.
Depth at which water was first found 150 ft.
Static level 60 ft. below land surface. Date 5-10-75
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 212 ft. Depth of completed well 212 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
surface sand brown	0	5	
bolders & gravel	5	15	
bolders with gravel & clay	15	50	
clay yellow	50	70	
sand & gravel	70	74	
clay yellow	74	86	
rock black med.	86	112	
rock grey hard	112	130	
rock soft with clay	130	170	60
rock grey hard	170	212	60

Work started 5-6 19 75 Completed 5-10 19 75
Date well drilling machine moved off of well 5-10 19 75

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] R. L. Allison (Drilling Machine Operator) Date 5-12, 1975
Drilling Machine Operator's License No. 300

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 Allison Drilling Co. (Person, firm or corporation) (Type or print)
Address R. 2 Box 309-C Hermiston, Ore. 97838
[Signed] R. L. Allison (Water Well Contractor)
Contractor's License No. 419 Date 5-12, 1975

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

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

9

JUL 24 1978

UMAT 1550

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
JUN 5 1978
WATER RESOURCES DEPT.
SALEM, OREGON

State Well No. 4N/28E-25ad

State Permit No.

(1) OWNER:
Name Rogers Bounds
Address P.O. Box 148
Hermiston Oregon 97838

(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 ☒
6" Diam. from 0 ft. to 97 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

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?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 30 gal./min. with 40 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Cement
Well sealed from land surface to 97 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 10 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:
Placed from ft. to ft.

(10) LOCATION OF WELL:
County Umatilla Driller's well number
SE ¼ NE ¼ Section 25 T. 4N R. 28E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 37 ft.
Static level 85 ft. below land surface. Date 5-31-78
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 150 ft. Depth of completed well 150 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
Topsoil	0	3	
Sand, gray	3	9	
Gravel	9	24	
Gravel & clayston	24	37	
Clayston, yellow	37	63	
Sand, yellow, water bearing	63	87	
Rock, light brown	87	115	W.B.
Rock, med. black & clayston	115	150	W.B.

Work started 5-30 1978 Completed 5-31 1978
Date well drilling machine moved off of well 5.31 1978

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] James T. Leitch (Drilling Machine Operator) Date 5-31, 1978
Drilling Machine Operator's License No. 665

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 TROY GRIFFIN (Person, firm or corporation) (Type or print)
Address 900 HERMISTON AVE. HERMISTON ORE
[Signed] Troy Griffin (Water Well Contractor)
Contractor's License No. 65 Date 5-31, 1978

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

WATER WELL REPORT
STATE OF OREGON

UMAT 1549

RECEIVED
JUL 30 1984
WATER RESOURCES DEPT
SALEM, OREGON

State Well No. 4N/27E-25da

State Permit No.

(1) OWNER:
Name MT Tahoma Leasing
Address PO Box 99307
City Tacoma State Wa

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary Air ☒ Driven ☐
Rotary Mud ☐ Dug ☐
Cable ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☒ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐
Thermal: Withdrawal ☐ Reinjection ☐

(5) CASING INSTALLED:
Steel ☒ Plastic ☐
Threaded ☐ Welded ☒
6" Diam. from +1 ft. to -101 ft. Gauge 250
" Diam. from ft. to ft. Gauge

LINER INSTALLED:
4" Diam. from -3 ft. to 443 ft. Gauge Sch 40

(6) PERFORATIONS:
Perforated? ☒ Yes ☐ No
Type of perforator used Skil Saw
Size of perforations 1/8 in. by 7 in.
80 perforations from 323 ft. to 343 ft.
80 perforations from 403 ft. to 423 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?
gal./min. with ft. drawdown after hrs.
" " "
Air test 55 gal./min. with drill stem at 443 ft. 2 hrs.
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water 57° Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Special standards: Yes ☐ No ☒
Well seal—Material used Cement
Well sealed from land surface to 21 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 13 sacks
How was cement grout placed? Tremied
Was pump installed? Type HP Depth ft.
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 Umatilla Driller's well number
NE ¼ SE ¼ Section 25 T. 4N R. 27E W.M.
Tax Lot # Lot Blk Subdivision
Address at well location:
LSE ~ 570'

(11) WATER LEVEL: Completed well.
Depth at which water was first found 95 ft. ? seasonal low
Static level 85 ft. below land surface. Date 7-25-84
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 443 ft. Depth of completed well 443 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
Silt	0	4	
Grey Sand & Boulders	4	36	
Tan Clay	36	47	
Blue Clay	47	85	
Black Basalt	85	112	85
Brown Basalt	112	121	
Black Basalt	121	135	
Tan Clay	135	188	
Black Basalt	188	265	
Grey Basalt	265	281	
Visicular Basalt	281	285	WB
Black Basalt	285	330	
Grey Basalt	330	345	
Blue Clay	345	388	
Black Basalt	388	425	
Brown Basalt	425	438	WB
Black Basalt	438	443	

Work started 7-20 19 84 Completed 7-25 19 84
Date well drilling machine moved off of well 7-25 19 84

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] E E Brown (Drilling Machine Operator) Date 7-25, 19 84
Drilling Machine Operator's License No.

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 Brown & Brown Drilling Inc (Person, firm or corporation) (Type or print)
Address PO Box 124 Hermiston, Or
[Signed] E E Brown (Water Well Contractor)
Contractor's License No. Date 7-25, 19 84

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

SP*12658-690

UMAT 53591

WELL I.D.# 27918

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

(START CARD) # 119939

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

(1) OWNER: Well Number

Name Hammell Transport Services, Inc.

Address 29522 Bridge Rd.

City Hermiston State OR Zip 97838

(2) TYPE OF WORK

☑ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:

☑ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger

☐ Other

(4) PROPOSED USE:

☑ Domestic ☐ Community ☐ Industrial ☐ Irrigation

☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☑ No Depth of Completed Well 119 ft.

Explosives used ☐ Yes ☑ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
10"	0	25	Bentonite	0	25	13 sacks
6"	25	119				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☑ Other Poured ⅜" bentonite

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:	6"	+1	79	250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 79

(7) PERFORATIONS/SCREENS:

☐ Perforations Method

☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
35		119	1 hr.

Temperature of water 63° 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:

(9) LOCATION OF WELL by legal description:

County Umatilla Latitude Longitude

Township 4N N or S Range 27E E or W. WM.

Section 23 SE NE 1/4 NE 1/4

Tax Lot 501 Lot Block Subdivision

Street Address of Well (or nearest address) 78010 Westland Rd. Hermiston, OR 97838

(10) STATIC WATER LEVEL:

35 ft. below land surface. Date 8-3-99

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 72

From	To	Estimated Flow Rate	SWL
72	96	35	35

(12) WELL LOG:

Ground Elevation ~565'

Material	From	To	SWL
Sand	0	12	
Cemented gravel	12	34	
Brown sandy clay	34	72	
Brown & gray basalt, fractured	72	96	WB
Black basalt with clay	96	119	

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OCT 20 1999
WATER RESOURCES DEPT.
SALEM, OREGON

Date started 8-3-99 Completed 8-3-99

(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 Judy Hagen WWC Number 1669 Date 8-3-99

(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 Patrick Wallace WWC Number 1218 Date 8-15-99

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

UMAT 55974

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

WELL I.D. # L 68805
START CARD # 158656

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

(1) LAND OWNER Well Number
Name Hammel Transport
Address 78010 West Lane Rd
City Hermiston State OR. Zip 97838

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

(3) DRILL METHOD
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger ☐ Cable Mud
☐ Other

(4) PROPOSED USE
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION Special Construction: ☐ Yes ☒ No
Depth of Completed Well 140 ft.
Explosives used: ☐ Yes ☒ No Type Amount

BORE HOLE Diameter	From	To	SEAL Material	From	To	Sacks or Pounds
10" or 6"	0	18'	Bentonite	0	99	30 Sacks
	18'	140				

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:	6"	+1	99	1250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Drive Shoe used ☐ Inside ☒ Outside ☐ None
Final location of shoe(s) 99'

(7) PERFORATIONS/SCREENS
☐ Perforations Method
☐ Screens Type Material

From	To	Slot Size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
25 GPM		140	1 Hr

Temperature of water 58° 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:

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(9) LOCATION OF WELL (legal description)
County Umatilla
Tax Lot 501 Lot
Township 4 ☐ N or ☒ S Range 27 ☐ E or ☒ W WM
Section 25 NE 1/4 NE 1/4
Lat ° ' " or (degrees or decimal)
Long ° ' " or (degrees or decimal)
Street Address of Well (or nearest address)

(10) STATIC WATER LEVEL
63° ft. below land surface. Date 7-16-07
ft. below land surface. Date
Artesian pressure lb. per square inch Date

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

From	To	Estimated Flow Rate	SWL
112	118	10 GPM	63
132	140	15 GPM	

(12) WELL LOG Ground Elevation

Material	From	To	SWL
Sand	0	5	
Sand & Gravel	5	37	
Sand Stone	37	94	
Broken Basalt	94	96	
Soft Black Basalt	96	112	
Broken Brown Basalt	112	118	63
Soft Black Basalt	118	132	
Broken Brown Basalt	132	140	

Date Started 7-16-07 Completed 7-16-07

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, 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.

WWC Number Date

Signed

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, 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.

WWC Number 1766 Date 7-17-07

Signed

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STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)
Instructions for completing this report are on the last page of this form.

Unmet 100

WELL I.D. # L 26560
START CARD # W 116082

(1) OWNER: Well Number 1
Name Medeiros Trucking LLC
Address 30522 Old Field Rd
City Hermiston State OR Zip

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

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

(4) PROPOSED USE:
☑ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☑ No Depth of Completed Well 125 ft.
Explosives used ☐ Yes ☑ No Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12"	0	22	3/8 Plug			700 LBS
8"	22	125				

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:	8"	+2	78	.250	☑	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	6"	65	125		☐	☑	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 78'

(7) PERFORATIONS/SCREENS:
☑ Perforations Method ½" Drill Holes
☐ Screens Type ____ Material ____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
85	125		160	½"		☐	☑
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
50		105	1 hr.

Temperature of water 56° 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: ____

(9) LOCATION OF WELL by legal description:
County Umatilla Latitude ____ Longitude ____
Township 4 N or S Range 27 E or W. WM.
Section 25 NW 1/4 SE 1/4
Tax Lot ____ Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) Westland E
T. 84

(10) STATIC WATER LEVEL:
45 ft. below land surface. Date 4-10-2000
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found 70'

From	To	Estimated Flow Rate	SWL
70	105	25	45
105	125	25	45

(12) WELL LOG:
Ground Elevation ~525'

Material	From	To	SWL
Sandy Topsoil	0	5	
Sand Gravel & Boulders	5	32	
Brown clay	32	64	
Brown clay & Sand Stone	64	75	
Sandstone	75	105	
Porus Basalt & Clay	105	120	
Black Basalt	120	125	

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APR 02 2001
WATER RESOURCES DEPT
SALEM, OREGON

Date started 4-10-2000 Completed 4-10-2000

(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.
WWC Number 1747
Signed ____ Date 4-10-2000

(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.
WWC Number 1747
Signed ____ Date 4-10-2000

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