

WATER WELL REPORT
STATE OF OREGON

RECEIVED
DEC 28 1981
WATER RESOURCES DEPT
SALEM, OREGON

State Well No. 35/40E-22bc
State Permit No. _____

UW40
1364
Page # 1

(1) OWNER:
Name City of Cove
Address _____
City Cove State Oregon

(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
Bored

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

(5) CASING INSTALLED: Steel Plastic
Threaded Welded
12" Diam. from 71.9 ft. to 139.9 ft. Gauge 2.50

LINER INSTALLED:
0" Diam. from 0.0 ft. to 800.0 ft. Gauge 1.88

(6) PERFORATIONS: Perforated? Yes No
Type of perforator used Factory slots
Size of perforations 1/4" in. by 3" in.
perforations from 580.0 ft. to 670.0 ft.
perforations from 740.0 ft. to 800.0 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
Soon to be.
Was a pump test made? Yes No If yes, by whom?
Air test Approx. 900 gal./min. with drill stem at 965.0 ft. 4 hrs.
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow NONE g.p.m.
Temperature of water 50 Depth artesian flow encountered NONE

(9) CONSTRUCTION: Special standards: Yes No
Well seal—Material used Cement Grout
Well sealed from land surface to 139.9 ft.
Diameter of well bore to bottom of seal 1.5 1/4 in.
Diameter of well bore below seal 1.2 in. to 860.0 to 967.0
Number of sacks of cement used in well seal 354 sacks
How was cement grout placed? Pressure grouted from 139.9 up to ground level
Was pump installed? NO Type ✓ HP _____ Depth ✓ ft.
Was a drive shoe used? Yes No Plugs 2 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 Union Driller's well number 205
SW 1/4 NW 1/4 Section 22 T. 38 R. 40 E. W.M.
Tax Lot # _____ Lot _____ Blk _____ Subdivision _____
Address at well location: 740'E, 5'55"N. of SW. Cor. of N.W. 1/4. Cove, Oregon

(11) WATER LEVEL: Completed well.
Depth at which water was first found 452.0 ft.
Static level 94.0 ft. below land surface. Date Nov. 11/81
Artesian pressure NONE lbs. per square inch. Date Nov. 11/81

(12) WELL LOG: Diameter of well below casing _____
Depth drilled 967.0 ft. Depth of completed well 967.0
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
Clay, Boulders, Cabbles	0.0	70.0	
Hard Brown clay	71.0	112.0	
Fractured Andesite	112.0	117.0	
Med. Hard Andesite	117.0	171.0	
Raddish Brown Rock	171.0	210.0	
Med. Hard Andesite	210.0	225.0	
Black Basalt	225.0	258.0	
Brown Basalt	258.0	280.0	
Black Basalt	280.0	295.0	
viscular Basalt	295.0	309.0	
Black Basalt	309.0	322.0	
Brown Basalt	322.0	334.0	
Black Basalt	334.0	365.0	
Grey Basalt	365.0	373.0	
Brown viscular Basalt	373.0	393.0	
Black viscular Basalt	393.0	421.0	
Black Basalt	421.0	435.0	
Green Basalt	435.0	452.0	
Brown visc. lar Basalt	452.0	461.0	452.0
Green Basalt	461.0	501.0	
Grey Basalt	501.0	589.0	

Work started Aug. 5 19 81 Completed NOV. 11 19 81
Date well drilling machine moved off of well NOV. 11 19 81

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. L. Brown Date Nov. 11 1981
(Drilling Machine Operator)
Drilling Machine Operator's License No. 1153

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 Co.
(Person, firm or corporation) (Type or print)
Address P.O. Box 124, Hermiston, Ore.
(Signed) John L. Brown 97838
(Water Well Contractor)
Contractor's License No. 516 Date Nov. 18, 19 81

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State Well No. 35/40E-22BC

State Permit No. _____

WATER RESOURCES DEPT
OREGON

Page # 2 of 2

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Address _____
City Cove State Oregon

(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 Domestic Industrial Municipal
Rotary Mud Dug Irrigation Test Well Other
Bored Thermal: Withdrawal ReInjection

(4) PROPOSED USE (check):

Plastic Welded

(5) CASING INSTALLED:

Steel Plastic
Threaded Welded
12" Diam. from 7.1 ft. to 139 ft. Gauge 1.250

LINER INSTALLED:

0" Diam. from 0 ft. to 800 ft. Gauge 1.85

(6) PERFORATIONS:

Perforated? Yes No
Type of perforator used Factory slots
Size of perforations 1/4 in. by 3 in.
perforations from 580 ft. to 620 ft.
perforations from 740 ft. to 800 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? Soon to be
Air test Approx. 900 gal./min. with drill stem at 915 ft. 4 hrs.
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow NONE g.p.m.
Temperature of water 50 Depth artesian flow encountered NONE

(9) CONSTRUCTION:

Special standards: Yes No
Well seal—Material used Seal Explained on page one
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
How was cement grout placed? _____
Was pump installed? NO 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 Union Driller's well number 205
SW 1/4 NW 1/4 Section 22 T. 35 R. 40E W.M.
Tax Lot # _____ Lot _____ Blk _____ Subdivision _____
Address at well location: 740 E. & 55 N. of S.W. Corner of NW 1/4, Cove, Oregon

(11) WATER LEVEL: Completed well.

Depth at which water was first found 452 ft.
Static level 94 ft. below land surface. Date Nov 11/81
Artesian pressure NONE lbs. per square inch. Date Nov 11/81

(12) WELL LOG:

Diameter of well below casing _____
Depth drilled 967 ft. Depth of completed well 908 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.

Formation	Depth (ft.)	Static Water Level (ft.)
Green Basalt	585	607
Brown Basalt w/ claystone	607	618.9
Black Basalt	618	652.2
Brown Basalt	652	661
Grey Basalt	661	670
Brown Basalt	670	681
Grey Basalt	681	705
Brown Basalt	705	717
Black Basalt	717	734
Green Basalt	734	755
Black Basalt w/ clay stone	755	765
Black Basalt	765	790
U.S.C. Basalt w/ Green clay	790	818
Reddish Basalt	818	852
Black Basalt	852	885
Red. Bas. w/ Blue clay stone	885	885
Black Bas. w/ Blue clay stone	885	905
Red. Bas. w/ Blue clay stone	905	920
Black Bas. w/ Blue clay	920	
stone		967

Work started Aug. 5 1981 Completed Nov. 11 1981
Date well drilling machine moved off of well Nov. 11 1981

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. Brown Date Nov 18 1981
(Drilling Machine Operator)
Drilling Machine Operator's License No. 1153

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 Co.
(Person, firm or corporation) (Type or print)
Address P.O. Box 124, Hermiston, Oregon
[Signed] John J. Brown 97838
(Water Well Contractor)
Contractor's License No. 516 Date Nov. 18, 1981

Union 35/40E-22be
6"

Date December 16 & 17, 1981
Name Cove City
Well Number #1
Depth of Well 960'
Depth of Casing 800'
Size of Casing 10"
Static Water Level 91'

Size of Pump Bowls 6"
Size of Column 420' of 6" & 180' of 3"
Number of Stages 6
Depth of Setting 600'
Length of air line 600'
Size of Motor used B.H.P. 70 HP
Gear Head Ratio _____
Orifice Size 6" pipe with 5" orifice

TESTING

AM	PM	GPM	RPM	DRAW DOWN	REMARKS	
	2:00	614	25.5"	3550	126	dirty
	2:30	608	25		179	
	3:00	602	24.5"		219	clean
	3:30	614	25.5"		249	
	4:00	608	25"		265	
	4:30	596	24"		277	
	5:00	596	24"		277	water temp. 57 degrees
	5:30	590	23.5"		288	
	6:00	584	23"		288	
	6:30	581	22.75"		288	
	7:00	578	22.5"		293	
	7:30	578	22.5"		297	
	8:00	572	22"		302	
	8:30	572	22"		307	
	9:00	569	21.75"		309	

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WATER RESOURCES DEPT
SALEM, OREGON

Total hours Testing 24 hours
Maximum Capacity of this well with out breaking suction _____
Draw Down level of Maximum Pumping _____

Tester's Signature Bar Coubray

Union Co. 35/40e-22bc

Date _____ Size of Pump Bowls _____
 Name _____ Size of Column _____
 Well Number _____ Number of Stages _____
 Depth of Well _____ Depth of Setting _____
 Depth of Casing _____ Length of air line _____
 Size of Casing _____ Size of Motor used B.H.P. _____
 Static Water Level _____ Gear Head Ratio _____
 _____ Orifice Size _____

TESTING

AM	PM	GPM	RPM	DRAW DOWN	REMARKS
	9:30	566	21.5"	311	
	10:00	566	21.5"	314	
	10:30	566	21.5"	314	
down 1.5 hours - engine trouble					
	12:00	620	26"	253	brownish
12:30		590	23.5"	267	
1:00		581	22.75"	276	
1:30		578	22.5"	288	
2:00		572	22"	293	
2:30		569	21.75"	306	
3:00		569	21.75"	311	
3:30		569	21.75"	311	
4:00		566	21.5"	315	clear
4:30		566	21.5"	320	
5:00		566	21.5"	320	

Total hours Testing _____

Maximum Capacity of this well with out breaking suction _____

Draw Down level of Maximum Pumping _____

Tester's Signature _____

Union Co. 35/40e-22be

Date _____ Size of Pump Bowls _____
 Name _____ Size of Column _____
 Well Number _____ Number of Stages _____
 Depth of Well _____ Depth of Setting _____
 Depth of Casing _____ Length of air line _____
 Size of Casing _____ Size of Motor used B.H.P. _____
 Static Water Level _____ Gear Head Ratio _____
 _____ Orifice Size _____

TESTING

AM	PM	GPM	RPM	DRAW DOWN	REMARKS
5:30		560	21"	322	
6:00		554	20.5"	322	
6:30		554	20.5"	329	
7:00		554	20.5"	329	
7:30		554	20.5"	341	
8:00		548	20"	341	
8:30		548	20"	341	
9:00		548	20"	341	
9:30		548	20"	341	
10:00		554	20.5"	334	cloudy
10:30		554	20.5"	339	
11:00		548	20"	341	
11:30		548	20"	341	
12:00		548	20"	341	
	12:30	548	20"	346	

Total Hours Testing _____

Maximum Capacity of this well with out breaking suction _____

Draw Down level of Maximum Pumping _____

Tester's Signature _____

Union Co. 3s/40s-2

Date _____ Size of Pump Bowls _____
 Name _____ Size of Column _____
 Well Number _____ Number of Stages _____
 Depth of Well _____ Depth of Setting _____
 Depth of Casing _____ Length of air line _____
 Size of Casing _____ Size of Motor used B.H.P. _____
 Static Water Level _____ Gear Head Ratio _____
 _____ Orifice Size _____

TESTING

AM	PM	GPM	RPM	DRAW DOWN	REMARKS
	1:00	548	20"	348	
	1:30	545	19.75"	348	
	2:00	545	19.75"	351	
	2:30	545	19.75"	351	
	3:00	542	19.5"	351	
	3:30	542	19.5"	353	
	4:00	542	19.5"	353	cloudy

Total Hours Testing _____
 Maximum Capacity of this well with out breaking suction _____
 Draw Down level of Maximum Pumping _____

Tester's Signature _____