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 STATE ENGINEER
 SALEM, OREGON

UMAT
 4808

CN/35-29D(1)
 UMATILLA

20 P State
 TO State
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Application No. U - 678
 Permit No. U - 611
 Well No. 2 (Irrigation)
 Former owner: Evert S. Miller

Edwin L. McEwen

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 January 25, 1955

1. Location of well: NW 1/4, NW 1/4 of Section 29 Twp. 6 N Rge. 35 E, W. M.
2. Name of nearest natural surface stream Johnson Creek, Tributary to Pine Creek
3. Distance from well to that stream: 572 feet. North
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: 7 feet.
5. Date of beginning drilling ~~recording~~: 1/14/1948 New well
6. Date well was completed 2/19/48

7. LOG OF MATERIALS ENCOUNTERED

Character of Material	Depth at which encountered		Thickness of stratum	
	At surface			
14" O. D. Casing	(Top soil & brown clay)			11 ft.
	(Coarse gravel (dry))	11' - 29'	ft.	ft.
	" " (first water)	29' - 57'	ft.	ft. aquifer
Open 13" I.D. hole	(Gravel cemented with clay)	57' - 252'	ft.	ft.
	(Coarse gravel)	252' - 270'	ft.	ft. aquifer
	(Gravel cemented with clay)	270' - 345'	ft.	ft.
			ft.	ft.
			ft.	ft.
			ft.	ft.

Remarks: All drilling, depths, casing, perforation, & testing done by well contractors at well owner's own ideas & specifications.

WELL INFORMATION

8. Diameter of well 14" O.D. x 13" I.D. inches. Depth of well 345 feet.
9. Depth at which water was ~~first~~ encountered 29' - 57' and 252' - 270' feet.
10. Water level when completed: 20' (2/19/48) feet below ground surface. 38' (11-11-50)
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.: Type of well: Open end with perforated casing.

Casing & open hole size schedule:

14" O. D. casing: from 0 - 57'

13" I. D. open hole: from 57' - 345'; all in sedimentary formation

Perforations @ 14" O. D. Casing: 23' - 54' and 28' - 50'. Method: Millknife.

All perforations at well owner's direction.

Final Well Test at completion of well depth 345' and perforations as shown before installation of owner's pump as follows: Test date 2/19/48

S. W. L. 20' G.P. M. 314 gal.

Drawdown: 108' Pumping water level 128' (stabilized)

Specific capacity: 2.9 gpm / ft / DD

Water Temp.: 57° F.

Note: This test made at the specification of well owner.

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PUMP INFORMATION

- 12. Manufacturer of pump: Peerless Pump
- 13. Address: 1. Wood Machy Corp. Fresno Calif
- 14. Data on name or base plate: Serial # 46391

- 15. Data on pump bowl assembly: # 10 LA Bowl 3 - 6 stages

- 16. Size of pump: 20 H.P. deep well turbine - 6" discharge
- 17. Rated capacity: 400 gallons per minute.
- 18. Rated speed: 1750 R.P.M revolutions per minute.
- 19. Number of stages: 6
- 20. Size of intake pipe: 5"
- 21. Size of discharge pipe: 5"
- 22. Length of intake pipe: 110'
- 23. Length of discharge pipe: 6'
- 24. Suction lift: (difference in elevation between water surface in well and pump) 128'
- 25. Discharge lift: (difference in elevation between pump and end of discharge line) 12'
- 26. Depth of pump intake below ground surface: _____ feet.
- 27. Remarks: _____

MOTOR OR ENGINE INFORMATION

- 28. Name of manufacturer: U.S.
- 29. Address: _____
- 30. Type of motor or engine: Electric

- 31. Data on name or base plate: 20 H.P., 220-440 Volt, CFIL-H Code E, frame 364-3, 3 phase, Serial # 1671124
1500 R.P.M. at 50-95 amps

- 32. Rated horsepower: 20
- 33. Rated speed of motor or engine: 1800 revolutions per minute.

34. Rated Capacity of Pump (with described motor)

<u>400</u>	g.p.m. at	<u>100</u>	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: _____

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CAPACITY TEST

- 36. Date of test: 2-19-48 37. Temperature of water 57°F. or ___°C.
- 38. Motor speed during test: 1800 R.P.M.
- 39. Test made by (weir, tank or other means): _____

40. Pounds pressure	TOTAL HEAD	*Total lift in feet	Gallons per min.	°Feet to water level	Draw-down	+Time
___ lbs.; Gauge at pump	Total	<u>12</u> ft. in.	<u>314</u>	<u>12</u> ft.	<u>10</u> 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.
___ lbs.; Gauge at pump	Total	___ ft. in.		___ ft.	___ ft.	M.
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___ 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.

* 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 _____ ft.
- 42. Water is discharged into: Sprinkler System
- 43. Was water lowered to pump intake by test? No
- 44. Remarks: _____

GENERAL INFORMATION

- 45. Name of contractor or other party who drilled or dug well: A. A. DURAND & SON
P. O. Box 437 Address: Walla Walla, Washington
- 46. Pump and motor were installed by: Anti-Irrigation Co. White Bros. Eq. Co.
Address: 1622 1/2 Ave. Walla Walla, Washington
- 47. Capacity test was made by: A. A. DURAND & SON (per well owner's specifications)
Address: P. O. Box 437, Walla Walla, Washington
- 48. General remarks: Well water was not sand or tumbled free at completion of well test 2/19/48