

WELL I.D. # L _____

(1) LAND OWNER Well Number #3
Name William Purchase
Address _____
City Pendleton 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 604 ft.
Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

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	Threads
Casing: <u>12"</u>	<u>0</u>	<u>64</u>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Drive Shoe used Inside Outside None
Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Lin
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min 650 gpm Drawdown 220 Drill stem at _____ Time 6.5 hr.

Temperature of water _____ 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 2N N Range 33 or WM.
Section 8 NW 1/4 SE 1/4
Tax Lot _____ Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) _____

(10) STATIC WATER LEVEL:
20 ft. below land surface. Date 1953
Artesian pressure _____ lb. per square inch Date _____

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

From	To	Estimated Flow Rate	SWL

BASIC DATA

115

TABLE 2.—Drillers' logs of representative wells—Continued

Materials	Thickness (feet)	Depth (feet)
Palouse formation:		
Soil	15	15
Fanglomerate:		
Gravel, cemented	2	17
Gravel, loose	2	19
Gravel, loosely cemented	6	25
Clay, brown	2	27
Gravel, cemented	3	30
Gravel and clay	11	41
Gravel, cemented, and sand	91	132
Columnis River basalt:		
Basalt, red	16	148
Basalt, brown	17	165
Basalt, black	25	190
Basalt, gray	12	202
Basalt, brown, broken	5	207
Basalt, brown	23	230
Basalt, black	10	240
Basalt, dark gray	15	255
Basalt, black	95	350
Clay, dark, sticky	6	356
Basalt, gray, hard, contains shale(?) seams	38	394
Basalt, brown, porous, water-bearing	16	410
Basalt, dark gray	48	458
Basalt, red	7	465
Basalt, brown	15	480
Basalt, gray	23	503
Crevice, muddy; decomposed tuff layer?	4	507
Basalt, gray, hard	38	545
Basalt, brown, water-bearing	15	560
Basalt, gray	19	579
Basalt, brown	6	585
Basalt, red, brown, and black, broken	5	590
Basalt, black	13	603
Basalt, gray	1	604

Date started _____ Completed 1953

SOURCE OF DATA/INFO
U.S.G.S Water Supply Paper 1620
Drilled by D. K. Smith Lic. #204
3/11/59

COMPILED BY: Marc Norton
9/24/2004

UMAT 55262
RECEIVED
 MAY 16 1955

2N/33-8K(1)
 Umatilla

STATE ENGINEER
 SALEM, OREGON

Application No. U-789
 Permit No. U- 699
 Well No. 3

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)

N66degrees35'E, 766' from the SW corner of the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$

Date of Report May 12, 1955

1. Location of well: _____ of Section 8 Twp. 2N Rge. 33E, W. M.
2. Name of nearest natural surface stream Umatilla river
3. Distance from well to that stream: 2260 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: _____ feet.
5. Date of beginning drilling or digging: February 5, 1953
6. Date well was completed May 20, 1953

LOG OF MATERIALS ENCOUNTERED

Character of Material	Depth at which encountered	Thickness of stratum
Soil	At surface	15 ft.
Cement Gravel	15 ft.	2 ft.
Loose Gravel	17 ft.	2 ft.
Cemented Gravel	19 ft.	6 ft.
Brown Clay	25 ft.	2 ft.
Cement Gravel	27 ft.	3 ft.
Clay & Gravel	30 ft.	11 ft.
Hardpan, gravel & sand	41 ft.	91 ft.
Red Rock	132 ft.	6 ft.

Remarks: Grey, Brown, & Black basalts encountered from 132' down to 604'

12" 394' WELL INFORMATION
 10" 210'

8. Diameter of well _____ inches. Depth of well 604 feet.
9. Depth at which water was first encountered 394 feet.
10. Water level when completed: 34 feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.:
66 feet of 12 inch casing
394 feet of 12 inch hole balance is 10 inches
Static before test 20 feet, after 34 feet

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PUMP INFORMATION

- 12. Manufacturer of pump: Jacuzzi Bros. Inc.
- 13. Address: Richmond, California
- 14. Data on name or base plate: Spec - T 131 A

- 15. Data on pump bowl assembly: HS 10A 8 - 8 Stage - 9 1/2" bowl - WDE 125
Spec - T - 121 A

- 16. Size of pump: 50 HP
- 17. Rated capacity: 500 gallons per minute. @ 320' TDH
- 18. Rated speed: 1750 revolutions per minute.
- 19. Number of stages: 8
- 20. Size of intake pipe: 6"
- 21. Size of discharge pipe: 6"
- 22. Length of intake pipe: 250'
- 23. Length of discharge pipe: 3340'
- 24. Suction lift: (difference in elevation between water surface in well and pump) 248'
- 25. Discharge lift: (difference in elevation between pump and end of discharge line) 14'
- 26. Depth of pump intake below ground surface: 266 feet.
- 27. Remarks: _____

MOTOR OR ENGINE INFORMATION

- 28. Name of manufacturer: U. S. Electric
- 29. Address: Los Angeles, California
- 30. Type of motor or engine: Vertical, hollow shaft, electric motor

- 31. Data on name or base plate: HP-50 PH-3 Serial-955 593
Volts -220-440 Cycles-60 RPM-1800 Amps- 61 Hi volts:122 Lovol
Type-CFU VG B.-Bearings Rating 40deg. C.: Code-F:Design-B
U-1-7320. L-1-6215
Frame-405-4
- 32. Rated horsepower: 50
- 33. Rated speed of motor or engine: 1750 revolutions per minute.

34. Rated Capacity of Pump (with described motor)	<u>500</u> g.p.m. at <u>320</u> ft. head
	<u>450</u> g.p.m. at <u>328</u> ft. head
	<u>400</u> g.p.m. at <u>340</u> ft. head
	<u>350</u> g.p.m. at <u>352</u> ft. head
	<u>300</u> g.p.m. at <u>360</u> ft. head

- 35. Remarks: _____

CAPACITY TEST

STATE ENGINEER
SALEM, OREGON

36. Date of tests: April 18, 1953 Temperature of water 60 °F. or °C.
 38. Motor speed during test: 1450 to 2100 RPM
 39. Test made by (weir, tank or other means): Circular orifice

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>20</u> ft. in.	<u>680</u>	<u>20</u> ft.	<u>118</u> ft.	<u>5:00</u> M. Star
___ lbs.	Gauge at pump	Total <u>41</u> ft. in.	<u>680</u>	<u>138</u> ft.	<u>155</u> ft.	<u>9:AM</u> . 3 ¹ / ₂ Hr
___ lbs.	Gauge at pump	Total <u>79</u> ft. in.	<u>670</u>	<u>175</u> ft.	<u>186</u> ft.	<u>9:45</u> M. 15mir
___ lbs.	Gauge at pump	Total <u>209</u> ft. in.	<u>615</u>	<u>206</u> ft.	<u>209</u> ft.	<u>2: P M.</u> 60mir
___ lbs.	Gauge at pump	Total <u>232</u> ft. in.	<u>615</u>	<u>229</u> ft.	<u>220</u> ft.	<u>3: P M.</u> 60mir
___ lbs.	Gauge at pump	Total <u>243</u> ft. in.	<u>530</u> <u>615</u>	<u>240</u> ft.	<u>209</u> ft.	<u>4: P M.</u> 60mir
___ lbs.	Gauge at pump	Total <u>232</u> ft. in.	<u>450</u> <u>530</u>	<u>229</u> ft.	<u>189</u> ft.	<u>6: P M.</u> 2 Hrs
___ lbs.	Gauge at pump	Total <u>212</u> ft. in.	<u>380</u> <u>450</u>	<u>209</u> ft.	<u>175</u> ft.	<u>7: P M.</u> 60mir
___ lbs.	Gauge at pump	Total <u>98</u> ft. in.	<u>380</u>	<u>195</u> ft.	___ ft.	<u>8: P M.</u> 60mir
___ 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.

* Difference in elevation between water level in well and outlet of pump test line.

° Distance from ground level to water surface in well.

Δ 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 290 ft.

42. Water is discharged into: circular orifice

43. Was water lowered to pump intake by test? yes

44. Remarks: Used direct reading depth gauge. Water cleared up about half way thru test and then became murky again at the last

Static level before test: 20 feet

After test-4 hours later: 37 feet

GENERAL INFORMATION

Test pump setting: 250 feet

Air line length: 242 feet

45. Name of contractor or other party who drilled or dug well: D. K. Don Smith

Address: 1013 N. Clinton Walla Walla, Washington

46. Pump and motor were installed by: C. E. Lassen, Pendleton Grain Growers, Inc.

Address: Pendleton, Oregon

47. Capacity test was made by: Larry Erickson, Pump, Pipe, and Power Co.

Address: Portland, Oregon 265 N. Hancock St.

48. General Remarks: Water discharged thru open circular orifice into di