UMAT 86

STATE ENGINEER
Salem, Oregon

(UMAT 86) U-732

Well Record

G-6430??

STATE WELL NO. 1/32-16L0?
COUNTY UMATILLA
APPLICATION NO. .....

OWNER: Wm. Etter

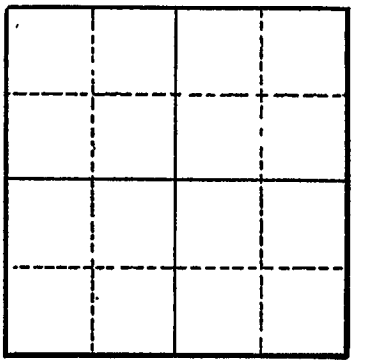
MAILING ADDRESS: .....

CITY AND STATE: .....

LOCATION OF WELL: Owner's No. .....

NE ¼ SW ¼ Sec. 16 T. 1 S., R. 32 E., W.M.

Bearing and distance from section or subdivision corner .....



Altitude at well .....

TYPE OF WELL: drilled Date Constructed .....

Depth drilled 265' Depth cased .....

Section .....

CASING RECORD:

6"

FINISH:

AQUIFERS:

Basalt

WATER LEVEL:

15' Reported

PUMPING EQUIPMENT: Type Turbine H.P. .....

Capacity 150 G.P.M.

WELL TESTS:

Drawdown ..... ft. after ..... hours ..... G.P.M.

Drawdown ..... ft. after ..... hours ..... G.P.M.

USE OF WATER Domestic, stock, irrigation Temp. ..... °F. ....., 19.....

SOURCE OF INFORMATION USGS Report Pg 64

DRILLER or DIGGER .....

ADDITIONAL DATA:

Log ✓ Water Level Measurements ..... Chemical Analysis ..... Aquifer Test .....

REMARKS:

Test pumped for 1hr at 130gpm with 101 ft of drawdown; supplies irrigation water for 30 acres; see table 2 for log.

State Printing 89316

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UMAT 86

STATE ENGINEER
Salem, Oregon

State Well No. 4/32-1620
County Umatilla
Application No. _____

Well Log

Owner: Wm. Etter Owner's No. _____

Driller: D. K. Smith Date Drilled —

CHARACTER OF MATERIAL	(Feet below land surface) From	To	Thickness (feet)
dug well no Record	0	31	31
gravel, cemented	31	45	14
basalt, brown, broken	45	78	33
basalt, gray, hard	78	89	11
basalt, brown, broken	89	106	17
basalt, brown, red	106	125	19
basalt, black	125	241	116
basalt, black, broken	241	265	24

Application No. U-732
Permit No. U-646
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 _____, 19___

1. Location of well: SW Quarter of Section 16 Twp. 1S Rge. 32E W. M.
2. Name of nearest natural surface stream East Birch Creek
3. Distance from well to that stream: 1420 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: April 21, 1951
6. Date well was completed May 12, 1951

7. LOG OF MATERIALS ENCOUNTERED

Character of Material	Depth at which encountered	Thickness of stratum
Dug Well	At surface	0-31 ft.
Cemented gravel & boulders	31 ft.	62 ft.
Broken brown basalt cemented	62 ft.	78 ft.
Hard grey basalt	78 ft.	89 ft.
Broken brown basalt	89 ft.	106 ft.
Brown & red basalt	106 ft.	125 ft.
Black basalt	125 ft.	185 ft.
Broken brown basalt	185 ft.	241 ft.
Broken black basalt	241 ft.	265 ft.

Remarks: _____

WELL INFORMATION

8. Diameter of well 6 inches. Depth of well 265 feet.
9. Depth at which water was first encountered 125 feet.
10. Water level when completed: 15 feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.: No large flow of water was encountered while drilling. Slight trace of Mercury in drillings.

PUMP INFORMATION

12. Manufacturer of pump: Bet Kaley Pump Co
13. Address:
14. Data on name or base plate:

15. Data on pump bowl assembly:
Un Known

16. Size of pump: 3"x3/4" Inter Column + Shaft.
17. Rated capacity: 150 gallons per minute.
18. Rated speed: 1750 revolutions per minute.
19. Number of stages: 13
20. Size of intake pipe: 3 inch
21. Size of discharge pipe: 2 1/2 inches
22. Length of intake pipe: 145 feet
23. Length of discharge pipe: 550 feet
24. Suction lift: (difference in elevation between water surface in well and pump) 19 feet (static level)
25. Discharge lift: (difference in elevation between pump and end of discharge line) 65 feet
26. Depth of pump intake below ground surface: 150 feet.
27. Remarks:

MOTOR OR ENGINE INFORMATION

28. Name of manufacturer: U. S. Electric
29. Address: Milford, Conn + Los Angeles, Calif
30. Type of motor or engine: 15 HP 1750 RPM 220/440 Volt 3φ VHS U S Motor ~~Los Angeles~~ Type SCU
31. Data on name or base plate:
20 Amps - 440V 40 Amps - 220V 15 HP 3φ

32. Rated horsepower: 15
33. Rated speed of motor or engine: ~~1750~~ 1800 revolutions per minute.

34. Rated Capacity of Pump (with described motor)

150	g.p.m. at	120	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: 10-28-53 & 10-29-1953 37. Temperature of water 50 °F. or ____ °C.
38. Motor speed during test: 700 RPM to 2800 RPM
39. Test made by (weir, tank or other means): Tank

40.

Pounds pressure	TOTAL HEAD	*Total lift in feet	Gallons per min.	°Feet to water level	¤Draw-down	+Time
____ lbs.,	Gauge at pump	Total 27 ft. ____ in.	30	27 ft.	8 ft.	5:10 PM.
____ lbs.,	Gauge at pump	Total 34 ft. ____ in.	45	34 ft.	15 ft.	5:20 PM.
____ lbs.,	Gauge at pump	Total 39 ft. ____ in.	60	39 ft.	20 ft.	5:50 PM.
____ lbs.,	Gauge at pump	Total 69 ft. ____ in.	75	69 ft.	50 ft.	8:50 AM.
____ lbs.,	Gauge at pump	Total 110 ft. ____ in.	90	110 ft.	89 ft.	11:45 AM.
____ lbs.,	Gauge at pump	Total 120 ft. ____ in.	120	120 ft.	101 ft.	12:45 AM.
____ lbs.,	Gauge at pump	Total 100 ft. ____ in.	~~100~~ 90	100 ft.	79 ft.	1:15 PM.
____ lbs.,	Gauge at pump	Total 80 ft. ____ in.	75	80 ft.	59 ft.	1:45 PM.
____ lbs.,	Gauge at pump	Total 75 ft. ____ in.	60	75 ft.	54 ft.	2:25 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.

No pressure gauge used.

* 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 120 ft.
42. Water is discharged into: Buried 4 inch steel line
43. Was water lowered to pump intake by test? No
44. Remarks: at 120 gpm wall hold steady at 120' pumping level

GENERAL INFORMATION

45. Name of contractor or other party who drilled or dug well: D.K. Smith
Address: 1013 N. Clinton, Walla Walla, Wash.
46. Pump and motor were installed by: Carroll Equipment Co
Address: Pendleton, Oregon
47. Capacity test was made by: Carroll Equipment Co.
Address: Pendleton Ore.
48. General remarks: