STATE ENGINEER
Salem, Oregon

UMAT 3082 2707

Well Record

STATE WELL NO. N/4/35-15P2
COUNTY . UMATILLA
APPLICATION NO. .....

OWNER: Eastern Oregon Food Coop
MAILING ADDRESS: .....
CITY AND STATE: .....

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

..... ¼ ..... ¼ Sec. ..... T. ..... N. S., R. ..... E. W., W.M.

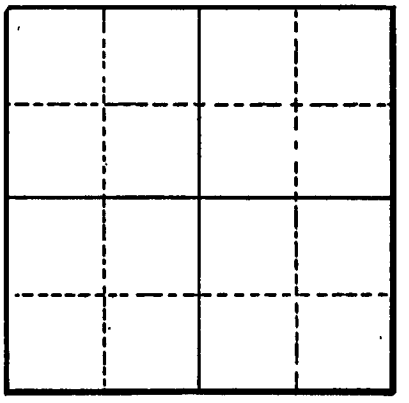
Bearing and distance from section or subdivision corner .....

.....

.....

.....

Altitude at well 1,775



Section .....

TYPE OF WELL: Drilled Date Constructed .....

Depth drilled 1,200 Depth cased .....

CASING RECORD:

FINISH:

AQUIFERS:

Basalt

WATER LEVEL:

11 at 20' 64' at 1200'

PUMPING EQUIPMENT: Type Turbine H.P. .....
Capacity 1,200 G.P.M.

WELL TESTS:
Drawdown ..... ft. after ..... hours ..... G.P.M.
Drawdown ..... ft. after ..... hours ..... G.P.M.

USE OF WATER Industrial Temp. ..... °F. ....., 19.....
SOURCE OF INFORMATION USGS
DRILLER or DIGGER .....
ADDITIONAL DATA:
Log X Water Level Measurements ..... Chemical Analysis ..... Aquifer Test .....

REMARKS:

State Printing 89316

STATE ENGINEER
Salem, Oregon

State Well No. 4/35-15P2
County UMATILLA
Application No.

Well Log

Owner: Eastern Oregon Food Cooperative Owner's No.

Driller: A. A. Durand and Son Date Drilled 1946

CHARACTER OF MATERIAL	(Feet below land surface) From	To	Thickness (feet)
Recent alluvium:			
Soil	0	18	18
Gravel	18	21	3
Columbia River basalt:			
"Rock, brown"	21	26	5
Basalt, dark, hard	26	71	45
Basalt, porous	71	85	14
Basalt, medium hard, and hard	85	120	35
Basalt, porous, with green clay	120	130	10
Basalt, soft, gray	130	143	13
Basalt, hard, black	143	147	4
Basalt, porous	147	158	11
Basalt, hard, gray and black, static water level at 208 feet is 11 feet	158	225	67
Basalt, porous	225	244	19
Basalt, porous, gray	244	270	26
Basalt, hard, gray and black	270	301	31
Basalt, porous, black	301	321	20
Basalt, hard	321	351	30
Basalt, porous	351	356	5
Shale, brown and blue	356	372	16
Basalt, alternating porous and hard	372	492	120
Basalt, porous, waterbearing	492	527	35
Basalt, hard, black	527	539	12
Basalt (no record of details)	539	1,200	661

UMAT

4N/35-15P(2)

Application No. U 213
Permit No. U 193
Well No. 2

Umatilla

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: SE¼ of Section 15 Twp. 4N Rge. 35 E, W. M.
2. Name of nearest natural surface stream Pine Creek
3. Distance from well to that stream: 35 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: 15 feet.
5. Date of beginning drilling or digging. For Eastern Ore. Seed Co. – May [illegible], 1946
6. Date well was completed For E. O. Seed Co. [illegible] For [illegible] – [illegible]/52 re-work

[illegible]

Character of Material	[illegible] encountered	[illegible] strata
	At surface	ft.
	ft.	ft.
	ft.	ft.
	ft.	ft.
	ft.	ft.
	ft.	ft.
	ft.	ft.
	ft.	ft.
	ft.	ft.

Remarks:

WELL INFORMATION

8. Diameter of well 15 x 12 x 8 inches. Depth of well 1218 feet.
9. Depth at which water was first encountered 21 feet.
10. Water level when completed: 64 feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.:
Surface water at 21' – see log

4M/35-15P2

Character of Material		Depth at which encountered At Surface	Thickness of stratum
[illegible]		0	18
[illegible], surface water		18	3
[illegible]		21	5
[illegible]		26	27
[illegible] gray basalt		53	18
[illegible] basalt		71	14
[illegible]		85	26
[illegible] gray basalt		111	110
[illegible] black basalt		221	4
[illegible] black basalt		225	20
[illegible] gray basalt		245	25
[illegible] gray basalt		270	2
[illegible] black basalt		272	16
[illegible] gray basalt		288	13
[illegible] porous basalt		301	20
[illegible] gray basalt	- caving some	321	14
[illegible] black basalt	" "	335	16
[illegible], black basalt	" "	351	5
[illegible] and blue shale	" "	356	16
[illegible] basalt	" "	372	63
[illegible] black basalt	" "	435	4
[illegible] basalt	" / quite a lot	439	2
[illegible] black basalt	" " " "	441	39
[illegible] gray basalt	" " " "	480	12
[illegible] basalt (Indications of water)	hole caving	492	23
[illegible] gray basalt	" "	515	92
[illegible] black basalt	" "	607	41
[illegible], brown basalt, more water	" "	648	6
[illegible] black basalt	" " bad	654	98
[illegible] gray basalt	" " "	752	8
[illegible] black basalt	" " "	760	25
[illegible] gray basalt	" " "	785	10
[illegible] black basalt	" " "	795	65
[illegible] blue basalt		860	20
[illegible] blue basalt	very cavey	880	10
[illegible] blue basalt	hole caving bad	890	245
[illegible], blue basalt	very cavey	1135	6
[illegible] blue basalt	hole caving some	1141	74
[illegible] formation - no samples		1215	3
	Total depth		1218

Per. # U 193

PUMP INFORMATION

19. Manufacturer of pump: Fairbanks Morse & Co. - Pomona
20. Address: Pomona, California
21. Data on name or base plate: [illegible]
#F.F. 1087
22. Data on pump bowl assembly: 14 Stage 10" M.C.
23. Size of pump: 8" std. column x 2-1/2" shaft, Water Lube
24. Rated capacity: 1000 GPM @ 260 ft. head gallons per minute.
25. Rated speed: 1760 revolutions per minute.
26. Number of stages: 14
27. Size of intake pipe: 8"
28. Size of discharge pipe: 8"
29. Length of intake pipe: 5' plus screen
30. Length of discharge pipe: 15'
31. Suction lift: (difference in elevation between water surface in well and pump) 62'
32. Discharge lift: (difference in elevation between pump and end of discharge line) 21'
33. Depth of pump intake below ground surface: 345 feet.
34. Remarks:

MOTOR OR ENGINE INFORMATION

35. Name of manufacturer: General Electric
36. Address:
37. Type of motor or engine: Vertical hollow shaft squirrel cage induction motor, drip proof design
38. Data on name or base plate: G.E. Induction Motor Model 1[illegible]787V
Frame M-6311-Type KF 44V.
Full load Amp 175 3 Phase 60 cycle
Full speed load 1775 RPM 150 HP
39. Rated horsepower: 150
40. Rated speed of motor or engine: 1760 revolutions per minute.

41. Rated Capacity of Pump (with described motor)

1100	g.p.m. at	220	ft. head	All discharge pressure 70 lbs.
1000	g.p.m. at	260	ft. head	
900	g.p.m. at	295	ft. head	
800	g.p.m. at	330	ft. head	
700	g.p.m. at	355	ft. head	

42. Remarks:

CAPACITY TEST

[illegible] Date of test: 2/16/52 37. Temperature of water 70 °F. or ____ °C.
[illegible] Motor speed during test: 1760
[illegible] Test made by (weir, tank or other means): 8" dia. & 6" orifice

[illegible] Pump pressure*	TOTAL HEAD	#Total lift in feet	Gallons per min.	*Feet to water level	=Draw-down	+Time
[illegible] lbs.,	Gauge at pump	Total [illegible] ft. __ in.	[illegible]	[illegible] ft.	[illegible] ft.	[illegible] M.
[illegible] lbs.,	Gauge at pump	Total [illegible] ft. __ in.	[illegible]	[illegible] ft.	[illegible] ft.	[illegible] M.
[illegible] lbs.,	Gauge at pump	Total [illegible] ft. __ in.	[illegible]	[illegible] ft.	[illegible] ft.	[illegible] M. P
[illegible] lbs.,	Gauge at pump	Total [illegible] ft. __ in.	[illegible]	[illegible] ft.	[illegible] ft.	[illegible] M.
[illegible] lbs.,	Gauge at pump	Total [illegible] ft. __ in.	[illegible]	[illegible] ft.	[illegible] ft.	[illegible] M. P
[illegible] lbs.,	Gauge at pump	Total [illegible] ft. __ in.	[illegible]	[illegible] ft.	[illegible] ft.	[illegible] 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.

Difference in elevation between water level in well and outlet of pump test line. 2 feet
* Distance from ground level to water surface in well. 64'
= Distance water level is lowered during time interval. 325 Max.
+ Hour and minute at which observation was made. 12:15 PM

41. Installation will work efficiently under normal head of [illegible] ft.
42. Water is discharged into: Cannery
43. Was water lowered to pump intake by test? Yes
44. Remarks: Recovery 138' in 120 seconds

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: Same
Address:
47. Capacity test was made by: Same
Address:
48. General remarks: