

OBSERVATION WELL

STATE ENGINEER  
Salem, Oregon

Well Record

STATE WELL NO. 10/3W-13F(1)  
COUNTY Marion  
APPLICATION NO. GR- 1717

MARI.....  
16271

OWNER: E. W. Hart

MAILING  
ADDRESS:

LOCATION OF WELL: Owner's No. 1

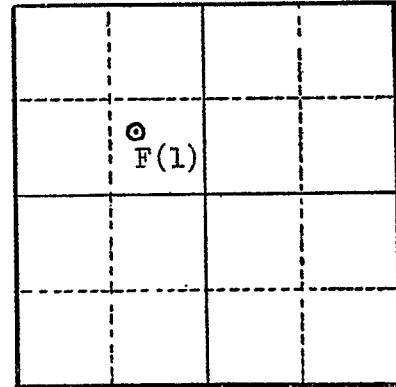
CITY AND  
STATE:

Jefferson, Oregon

SE 1/4 NW 1/4 Sec. 13 T. 10 S., R. 3 W., W.M.

Bearing and distance from section or subdivision

corner 1700' E. & 1750' S. from NW cor. of sec. 13



Section 13

Altitude at well

TYPE OF WELL: Drilled Date Constructed 1949

Depth drilled 21' Depth cased 21'

CASING RECORD:

8 inch

FINISH:

Perforated

AQUIFERS:

Sand & gravel

WATER LEVEL:

11 feet

11.11' (6-17-58) Ppg -

PUMPING EQUIPMENT: Type Pacific, 3"xl" centrifugal

H.P. 20

Capacity 500 G.P.M.

WELL TESTS:

Drawdown 0 ft. after 100 hours G.P.M.

Drawdown ft. after hours G.P.M.

USE OF WATER Irrigation (60 acres) Temp. °F., 19

SOURCE OF INFORMATION GR- 1666

DRILLER or DIGGER Marion West

ADDITIONAL DATA:

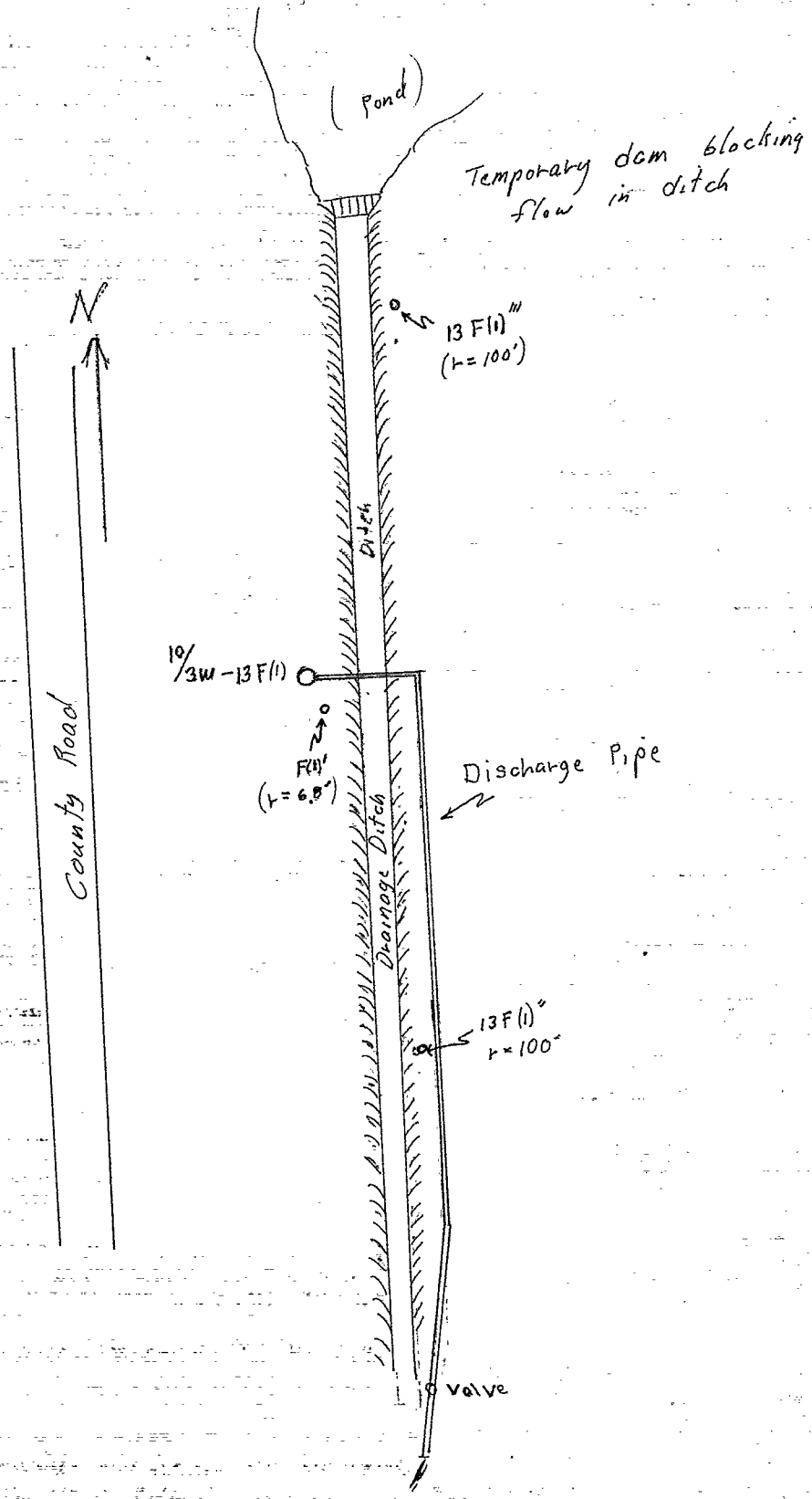
Log X Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

Sand & gravel

0 to 21

10/3w-13F(1)  
MARION CO.



STATE ENGINEER  
SALEM, OREGON

Well No. 10/3W-13F(1)  
County: MARION

AQUIFER TEST

Observation Well No. Pumped Well  $r =$  0 (ft)  $r^2 =$  \_\_\_\_\_

Date of test 11-28-58 11-29-58 Average  $Q =$  550 gpm S.W.L. 4.52

Pump on 8:59 AM 11-28-58 Pump off \_\_\_\_\_ Hours Pumped \_\_\_\_\_

Match Points:  $s =$  \_\_\_\_\_  $r^2/t$  \_\_\_\_\_  $Wu$  \_\_\_\_\_  $u =$  \_\_\_\_\_

Time	Time since pumping started $t_m$ (minutes)	Time since pumping started $t_d$ (days)	Water Level (feet)	Drawdown (feet) (s)	$r^2/t_d$
9:44 AM	45	.0313	5.70	1.18	
10:02	63	.0437	5.74	1.22	
10:37	98	.0680	5.79	1.27	
12:25 PM	206	.143	5.80	1.28	
1:10	251	.174	5.82	1.30	
2:00	301	.209	5.82	1.30	
2:33	334	.232	5.83	1.31	
3:02	363	.252	5.84	1.32	
3:32	393	.273	5.85	1.33	
4:02	423	.294	5.85	1.33	

Nonequilibrium formula:

$$T = \frac{114.6 Q W(u)}{s}$$

Modified nonequilibrium formula:

$$T = \frac{264 Q}{\Delta s}$$

$T =$  \_\_\_\_\_ gpd/ft

$$S = \frac{u T}{1.87 r^2/t}$$

$$S = \frac{0.3 T t_0}{r^2}$$

$$S =$$
 \_\_\_\_\_

STATE ENGINEER  
SALEM, OREGON

Well No. 10/3W-13 F(1)  
County: MARION

AQUIFER TEST

Observation Well No. 10/3W-13 F(1)  $r =$  6.8 (ft)  $r^2 =$  46

Date of test 11-28-58 11-29-58 Average Q = 550 gpm S.W.L. 4.34

Pump on 8:59 AM 11-28-58 Pump off \_\_\_\_\_ Hours Pumped \_\_\_\_\_

Match Points:  $s =$  \_\_\_\_\_  $r^2/t =$  \_\_\_\_\_  $Wu =$  \_\_\_\_\_  $u =$  \_\_\_\_\_

Time	Time since pumping started $t_m$ (minutes)	Time since pumping started $t_d$ (days)	Water Level (feet)	Drawdown (feet) (s)	$r^2/t_d$
9:00 AM	1	.000694	5.07	.73	
9:05	6	.00416	5.12	.78	
9:09	10	.00694	5.145	.805	
9:12	13	.00902	5.16	.82	
9:16	17	.0118	5.17	.83	
9:18	19	.0132	5.18	.84	
9:25	26	.0181	5.195	.855	
9:33	34	.0236	5.21	.87	
9:39	40	.0278	5.22	.88	
9:49	50	.0347	5.24	.90	
9:59	60	.0416	5.26	.92	
10:09	70	.0486	5.27	.93	
10:19	80	.0556	5.28	.94	
10:29	90	.0625	5.29	.95	
10:39	100	.0694	5.30	.96	
10:59	120	.0833	5.31	.97	
11:19	140	.0972	5.32	.98	

Nonequilibrium formula:

$$T = \frac{114.6 Q W(u)}{s}$$

Modified nonequilibrium formula:

$$T = \frac{264 Q}{\Delta s}$$

T = \_\_\_\_\_ gpd/ft

$$S = \frac{u T}{1.87 r^2/t}$$

$$S = \frac{0.3 T t_0}{r^2}$$

$$S = \frac{r^2}{u T t_0}$$



STATE ENGINEER  
SALEM, OREGON

Well No. 10/3W-13F(1)  
County: MARION

AQUIFER TEST

Observation Well No. 10/3W-13F(1)  $r =$  100 (ft)  $r^2 =$  10,000

Date of test 11-28-58 11-29-58 Average  $Q =$  550 gpm S.W.L. 4.58

Pump on 8:59 AM 11-28-58 Pump off \_\_\_\_\_ Hours Pumped \_\_\_\_\_

Match Points:  $s =$  \_\_\_\_\_  $r^2/t$  \_\_\_\_\_  $Wu$  \_\_\_\_\_  $u =$  \_\_\_\_\_

Time	Time since pumping started $t_m$ (minutes)	Time since pumping started $t_d$ (days)	Water Level (feet)	Drawdown (feet) (s)	$r^2/t_d$
9:04 AM	5	.00347	4.66	0.08	
9:08	9	.00625	4.66	.08	
9:12	13	.00902	4.67	.09	
9:16	17	.0118	4.67	.09	
9:20	21	.0146	4.68	.10	
9:25	26	.0181	4.68	.10	
9:35	36	.0250	4.69	.11	
9:45	46	.0319	4.69	.11	
9:56	57	.0396	4.70	.12	
10:05	66	.0457	4.70	.12	
10:15	76	.0528	4.71	.13	
10:25	86	.0596	4.72	.14	
10:35	96	.0666	4.72	.14	
10:45	106	.0736	4.73	.15	
10:55	116	.0806	4.73	.15	
11:05	126	.0876	4.74	.16	
11:15	136	.0945	4.74	.16	

Nonequilibrium formula:

$$T = \frac{114.6 Q W(u)}{s}$$

$$S = \frac{u T}{1.87 r^2/t}$$

Modified nonequilibrium formula:

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$$S = \frac{0.3 T t_0}{r^2}$$

$$T = \text{_____ gpd/ft}$$

$$S = \text{_____}$$



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Time	Time since pumping started $t_m$ (minutes)	Time since pumping started $t_d$ (days)	Water Level (feet)	Drawdown (feet) (s)	$r^2/t_d$
9:02 AM	3	.00208	3.35	0.22	
9:06	7	.00486	3.38	0.25	
9:10	11	.00763	3.39	0.26	
9:14	15	.0104	3.40	0.27	
9:19	20	.0139	3.41	0.28	
9:26	27	.0187	3.41	0.28	
9:29	30	.0208	3.43	0.30	
0 9:32	33	.0229	3.43	0.30	
9:38	39	.0271	3.46	0.33	
9:45	46	.0319	3.46	0.33	
9:55	56	.0389	3.47	0.34	
10:05	66	.0457	3.50	0.37	
10:15	76	.0528	3.51	0.38	
10:25	86	.0596	3.52	0.39	
10:35	96	.0666	3.51	0.38	
10:45	106	.0736	3.53	0.40	
10:55	116	.0806	3.52	0.39	

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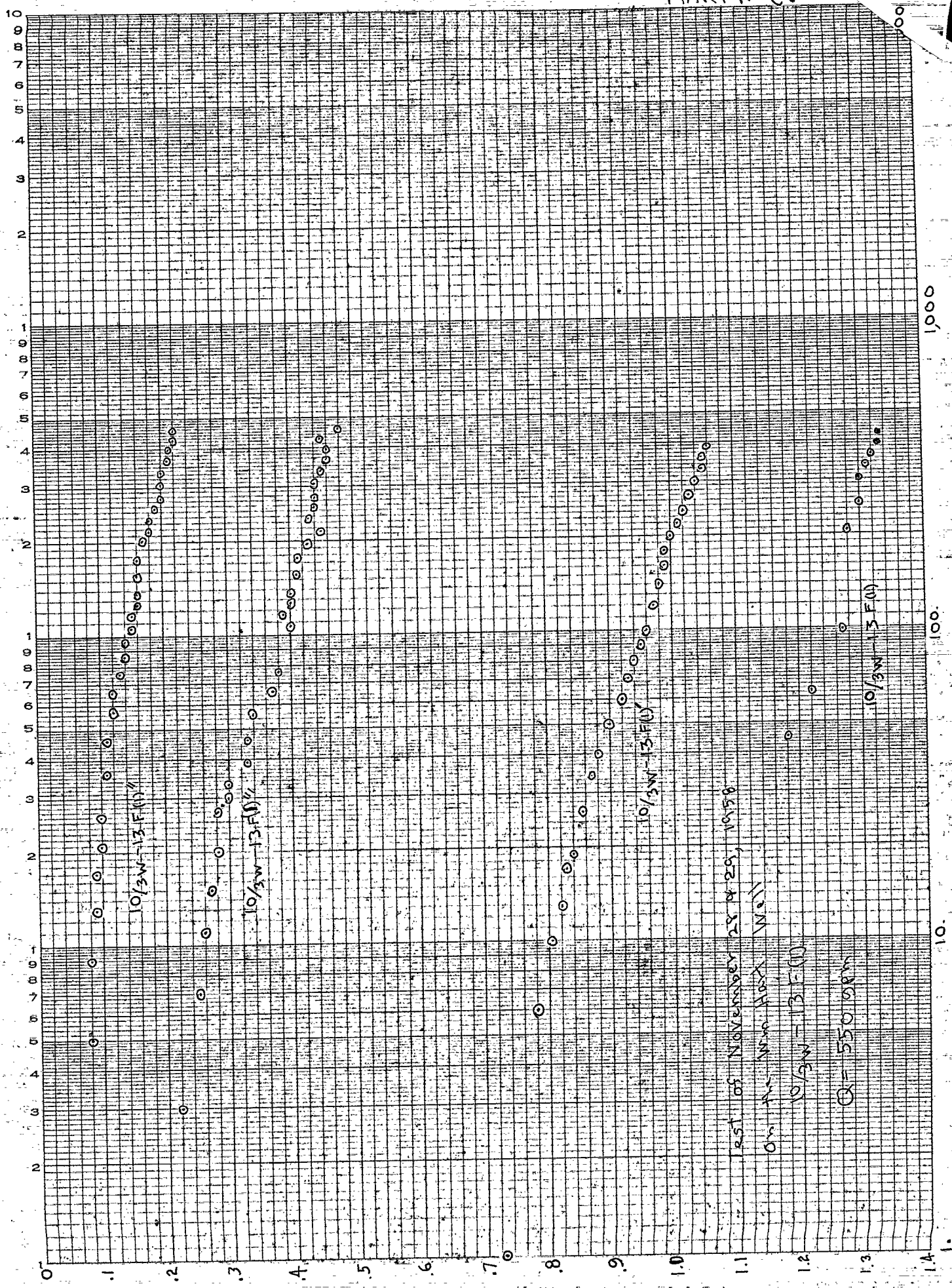




NO. 340-L410 DIETZGEN GRAPH PAPER  
SEMI-LOGARITHMIC  
4 CYCLES X 10 DIVISIONS PER INCH

ELIUME DIETZGEN  
MADE IN U.S.A.

10/3W-13F(1)  
MARION CO



LAST OF NOVEMBER 28 & 29, 1958

ON W - NEW YORK (W. 11)

$10/3W-13F(1)$

$\alpha = 550 \text{ GRM}$

10. 100. 1000