

COUNTY

JEFFERSON

LOCATION

9-17E-25 (DAQ)?

DATE

2-12-66

PERFORMED BY LAYNE-WESTERN FOR CITY OF NEW OZARK

DISCHARGE

50 gpm

LENGTH OF TEST 1440 min, - 25 min recovery

OF OBSERVATION WELLS none

DISTANCE(S) TO PUMPING WELL .34'

WATER LEVEL = 35' 2"

AQUIFER TYPE Alluvial - (Along Delaware River)

DEPTH OF TEST WELL 54'

SCREEN 10' of screen, probably in medium to coarse sand and gravel

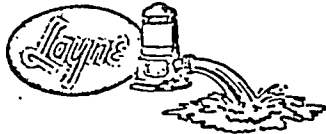
COMMENTS The test seems to give reasonable results.
The RMS error is acceptable for the 'D-R' method of analysis.

COMPUTER ANALYSIS

METHOD	T (gpd/ft)	S	RMS error	r
D-R	18,043	1.21×10^{-2}	.16	.34

1088# 11

WELL INFORMATION



Layne-Western Company 9-17E-25-DAC

1. CONTRACT CITY OF
NEW OZAWKIE

2. City, State OZAWKIE
KANSAS

3. Well No. TWO at Test Hole No. 20'S. OF 3-65

4. Well Location (attach map) 400' N. OF
WELL No. 1

5. Driller R.L. SANSBURY

6. DATE FEB 12, 1966

7. Date Started FEB 7, 1966
Completed FEB 11, 1966

8. Drill Crew Man Hrs. 174

9. Working Days
Drilling ONE
Other FOUR

10. MATERIAL IN WELL			GAGE NO.	WALL THICK-NESS IN.	MATERIAL	TYPE	NO.
	LENGTH FT. IN.	DIA. IN.					
Screen	10' 0"	8"	—	—	STAINLESS STEEL	SHUTTER Shutter Keyhole	Openings
Inner Casing	44' 4"	8"	—	—	GENUINE WROUGHT IRON	WELDED Welded Screwed	
Outer Casing	—	—	—	—		Welded Screwed	

11. GRAVEL
Size #3 & #4 MIX
Tons 12

12. SEALING CASING
Puddled Clay ☒ Yes ☐ No
With 4 Bags Bentonite Added
or
With 3 Bags Cement
Seal Material Placed in
Well 2' CONCRETE PLUG
FROM 18' TO 20'
Bottom of Well Screen
Sealed With STEEL PLATE

13. WELL DIMENSIONS

A. Total Depth 54' 4"
(From Top of Inner Casing to Bottom of Well)

B. Height of Inner Casing ONE FT.
(Above Ground Level)

C. Distance to Top of Gravel 20'
(From Ground Level)

D. Diameter of Drill Hole 30"

Comments _____

9-17E 25 DAC

[illegible]

14. PUMPING TEST

A.

Test pump 4 in. 6 Bowl 6 Stages

Permanent pump

Length of column 40 Ft.

Length of Bowl 5 Ft.

Length of suction 6 Ft.

$v = .34$

B. Measured water level 35' 2" Ft. from top of 8 In.

dia. casing which is ONE Ft. above ground.

ORIFICE

4 x 2

C. Length of airline _____ Ft. from top of casing.

2-8-66 TIME	INCHES ORIFICE MANOMETER	GPM	ALT. GAGE READING	WATER LEVEL	DRAW DOWN
4:00 PM		0		35' 2"	0
4:01	1	50 $\approx 6.68 \frac{ft^3}{min}$		38' 0"	2' 10" 2.97
5:00 60	60	50		38' 11 1/2"	3' 9 1/2" 3.79
8:00 240	240	50		39' 2 1/2"	4' 1/2" 4.24
12:00 480	480	50		39' 5"	4' 3" 4.25
4:00 AM 720 720	720 720	50		39' 8"	4' 6" 4.5
8:00	960	50		39' 10 1/2"	4' 8 1/2" 4.70
12:00	1200	50		40' 0"	4' 10" 4.83
4:00 PM 1440	1440	50		40' 1"	4' 11" 4.91
4:01	RECOVERY			36' 7 1/2"	1' 5 1/2" 1.46
4:05 2	721			36' 11"	1' 9" 1.75
4:15 15	97			36' 9"	1' 7" 1.58
4:30 30	49			36' 8"	1' 6" 1.5
5:00 60	25			36' 3 1/2"	1' 1 1/2" 1.12

15. Permanent _____ Pump No. _____ installed by _____

Layne

Permanent air line length _____ Ft. Date _____

Month

Day

Year

COUNTY JEFFERSON

LOCATION 9-17E-25 DBD

DATE 2-10-66

PERFORMED BY Layne-Western For City of New Ozarkie

DISCHARGE 50 gpm

LENGTH OF TEST 1410 min Recovery for 120 min

OF OBSERVATION WELLS none

DISTANCE(S) TO PUMPING WELL .34'

WATER LEVEL = 35' 4"

AQUIFER TYPE Alluvial (delaware river)

DEPTH OF TEST WELL 56'

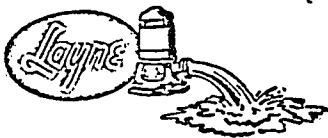
SCREEN 10' of screen probably in AC Sand & Gravel

COMMENTS The Storage value is too high indicating that there are problems in analysing this data. The RM's errors are a little high also.

COMPUTER ANALYSIS

METHOD	T (gpd/ft)	S	RMS error	r	
D-R	12,148	.12	.45	.34'	(add data to 240 min)
Rec	—	does not converge		.34'	
THIS	12,456	.147	.394	.34'	

10557713



WELL INFORMATION
Layne-Western Company

Layne #1

DBD 1
9-17E-25 DBA1

1. CONTRACT CITY OF
NEW OZAWKIE
2. City, State OZAWKIE
KANSAS
3. Well No. ONE at Test Hole No. 20' N. OF 13-65
4. Well Location (attach map) 1500' NE.
OF WATER TOWER IN
NEW OZAWKIE, KAN.

5. Driller R. L. SANSBURY
6. DATE FEB 10, 1966
7. Date Started JAN 26, 1966
Completed FEB 4, 1966
8. Drill Crew Man Hrs. 170
9. Working Days
Drilling ONE
Other FOUR

10. MATERIAL IN WELL			GAGE NO.	WALL THICK- NESS IN.	MATERIAL	TYPE	NO.
	LENGTH FT. IN.	DIA. IN.					
Screen	<u>10' 0"</u>	<u>8"</u>	<u>—</u>	<u>—</u>	<u>STAINLESS STEEL</u>	<u>SHUTTER</u> Shutter Keystone	Openings
Inner Casing	<u>46' 2"</u>	<u>8"</u>	<u>—</u>	<u>—</u>	<u>GENUINE WROUGHT IRON</u>	<u>WELDED</u> Welded Screwed	
Outer Casing	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	Welded Screwed	

11. GRAVEL
Size #3 & #4 MIX
Tons 12

12. SEALING CASING
Puddled Clay ☒ Yes ☐ No
With 4 Bags Bentonite Added
or
With — Bags Cement
Seal Material Placed in
Well 2' CONCRETE PLUG
FROM 18' TO 20'
Bottom of Well Screen
Sealed With STEEL PLATE

13. WELL DIMENSIONS
- A. Total Depth 56' 2"
(From Top of Inner Casing to Bottom of Well)
- B. Height of Inner Casing ONE FT
(Above Ground Level)
- C. Distance to Top of Gravel 20'
(From Ground Level)
- D. Diameter of Drill Hole 30"

Comments —

LOG OF WELL

[illegible]

14. PUMPING TEST

A.

Test pump

Permanent pump

Length of column

Length of Bowl

Length of suction

B. Measured water level

dia. casing which is

C. Length of airline

ORIFICE

2-2-66 TIME	INCHES ORIFICE MANOMETER	GPM	ALT. GAGE READING	WATER LEVEL	DRAW DOWN
10:30 AM		0		35' 4"	0
1 10:31		50 = 6.68 ^{ft} / _m		38' 6"	3' 2"
60 11:30		50		39' 7"	4' 3"
240 2:30 PM		50		39' 9 1/2"	4' 5 1/2"
450 6:00		50		40' 1"	4' 9"
690 10:00		50		40' 6 1/2"	5' 2 1/2"
930 2:00		50		40' 8 1/2"	5' 4 1/2"
1170 6:00		50		40' 11"	5' 7"
1410 10:00		50		40' 11"	5' 7"
1 10:01	RECOVERY		37.62	37' 7 1/2"	3' 3 1/2"
5 10:05	283		37.95	37' 11 1/2"	2' 7 1/2"
15 10:15	95		37.79	37' 9 1/2"	2' 5 1/2"
30 10:30	44		37.62	37' 7 1/2"	2' 3 1/2"
120 12:00	12.7		37.17	37' 2"	1' 10"

15. Permanent Pump No. installed by

Permanent air line length

Month

Day

Year

COUNTY

JEFFERSON

LOCATION

9-18E31 BDA

DATE

MAY 11, 1967

PERFORMED BY

Layne-Western for S.W. Oskaloosa R.W.D.

DISCHARGE 30 gpm

LENGTH OF TEST 360 min. , 420 min, recovery

OF OBSERVATION WELLS 2

DISTANCE(S) TO PUMPING WELL .5', 30', 300'

WATER LEVEL = 13.2'

AQUIFER TYPE Alluvial (Delaware River)

DEPTH OF TEST WELL 50'

SCREEN probably in VM sand & gravel 33'-46'
coarse to medium

COMMENTS The plots show a very good fit here.

COMPUTER ANALYSIS

METHOD	T (gpd/ft)	S	RMS error	r
Therim	6,786	1.74×10^{-3}	.12	.5', 30' (for all data times)
Thois	8,240	4.1×10^{-4}	.02	300'



TEST HOLE REPORT

Layne-Western Company

Contract Name S. W. Oskaloosa R. W. D.

Job No. KC 38

Date 5-10-67

City Oskaloosa

State Kansas

Driller O. J. Harper

TEST HOLE

No. 8-67

U.S.G.S. 9-15-67 3:10

Test Hole Location 300'0" West of #5-67

Distance and Direction from Permanent Landmark or Previous Test Hole

TEST LOG

FROM	TO	MARSH FUNNEL VISCOSITY SECONDS	MUD PIT LOSS INCHES	Static Water Level <u>15</u> Mo
				Hours After Completion
				FORMATION
0'0"	10'0"			Dark gray clay, stiff
10'0"	17'0"			Gray clay, stiff
17'0"	22'0"			Brown silty clay, soft
22'0"	31'0"			Gray clayey silt, soft
31'0"	33'0"	Water	)	Gray fine to med. sand
33'0"	35'0"	Water	) 6"	Gray coarse to med. sand and gravel
35'0"	40'0"	Water	8"	Gray coarse to med. sand and gravel
40'0"	45'0"	40	5"	Gray coarse to med. sand & gravel few c
45'0"	46'0"	40	2"	Gray coarse to med. sand & gravel trace and boulder
46'0"	50'0"			Gray shale, hard
50'0"	Total Depth			

NOTES: Size of Pit 3'6" X 3'0" X 2'6"

DEEP

Set 47' of 2" pipe (10' slotted on bottom)

30 gpm = 4.01 ft³/m

AQUIFER TEST
S. W. OSKALOOSA RURAL WATER DISTRICT

Made on May 11, 1967, located near the center of the North half (N½),
Sec. 31, Twp 9S, Rge. 18E.

PUMPED WELL

30' PIEZOMETER

300' PIEZOMETER

ELAPSED TIME	DEPTH TO WATER	DRAW- DOWN	DEPTH TO WATER	DRAW- DOWN	DEPTH TO WATER	DRAW- DOWN
Static	13.20	0	15.35	0	16.90	0
0 Min. 30"	17.30	4.10	--	--	--	--
1 Min.	17.51	4.31	15.70	0.35	--	--
2	17.69	4.49	15.90	0.55	--	--
3	17.80	4.60	16.01	0.66	--	--
4	17.85	4.65	16.08	0.73	--	--
5	17.97	4.77	16.17	0.82	--	--
6	18.01	4.81	16.23	0.88	--	--
8	18.16	4.96	16.39	1.04	--	--
10	18.32	5.12	16.46	1.11	--	--
13	18.41	5.21	16.58	1.23	--	--
16	18.50	5.30	16.68	1.33	--	--
20	18.62	5.42	16.79	1.44	--	--
25	18.76	5.56	16.91	1.56	--	--
30	18.96	5.76	17.00	1.65	17.22	0.32
40	19.25	6.05	17.17	1.82	--	--
50	19.40	6.20	17.29	1.94	--	--
60	19.51	6.31	17.39	2.04	17.41	0.51
70	19.61	6.41	17.47	2.12	--	--
80	19.70	6.50	17.53	2.18	--	--
90	19.75	6.55	17.60	2.25	--	--
100	19.81	6.61	17.65	2.30	17.57	0.67
120	19.87	6.67	17.75	2.40	17.61	0.71
150	20.00	6.80	17.88	2.53	17.76	0.86
210	20.05	6.85	18.02	2.67	17.89	0.99
250	20.07	6.87	18.09	2.74	17.95	1.05
300	20.12	6.92	18.18	2.83	18.02	1.12
360	20.05	6.85	18.26	2.91	18.09	1.19
375	--	--	--	--	--	--

Submersible motor shorted out - unable to continue pumping

Discharge rate at constant 30 gpm - measured

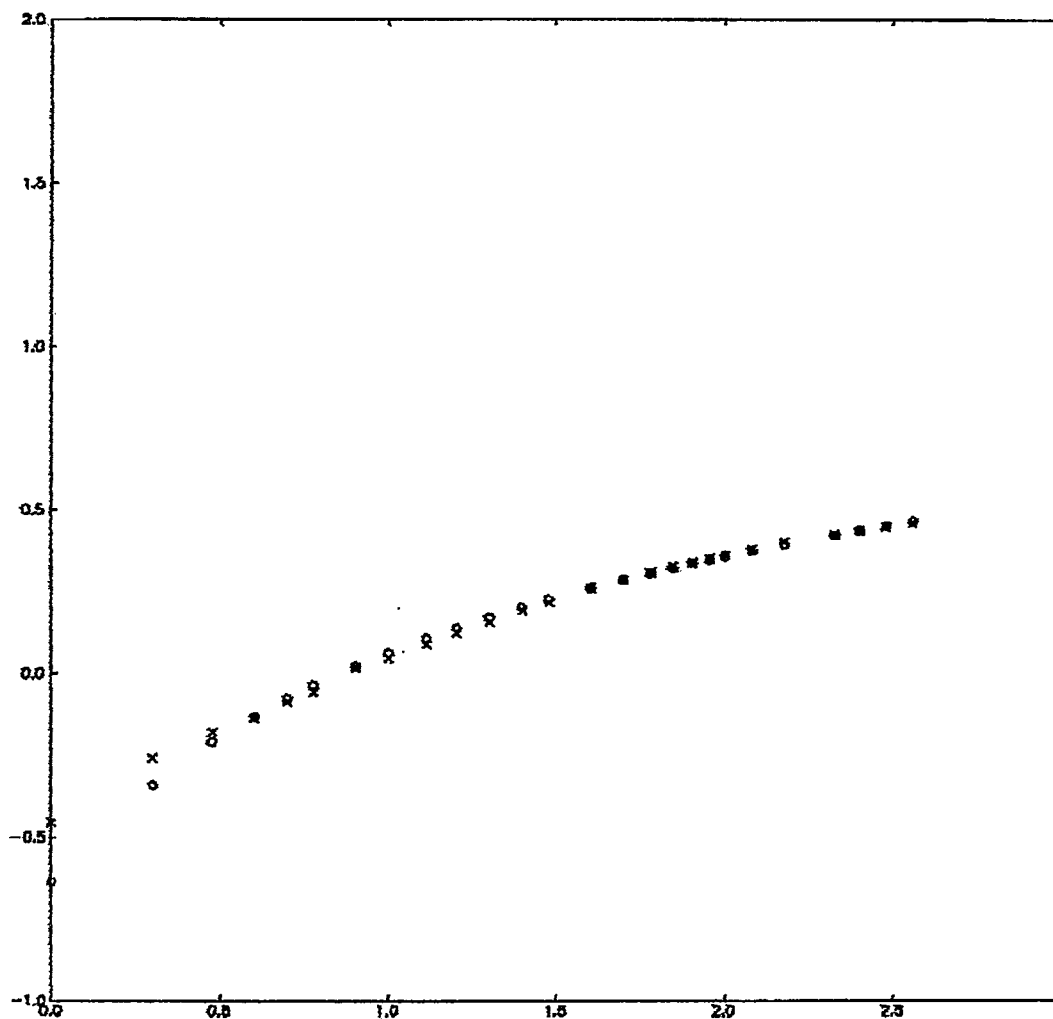
60	16.38	17.71
120	16.10	17.53
180	15.97	17.41
360	15.76	17.24
420	15.73	17.21

Estimated elevation of meas. pt. of pumped well is 870' msl

PUMPED WELL			30' PIEZOMETERS		300' PIEZOMETERS	
ELAPSED TIME	DEPTH TO WATER	DRAW- DOWN	DEPTH TO WATER	DRAW- DOWN	DEPTH TO WATER	DRAW- DOWN
5/12/67	13.43		15.59		17.07	
5/13/67	--		--		17.03	
5/14/67	--		--		17.01	
5/15/67	--		--		17.08	
5/16/67	13.46		15.64		17.08	

DATE 05/21/85 TIME 13:17:22 PLOT# 1 PATH= :SI1:PLOT:UK:LOGPLOT.OSKY.PLOT

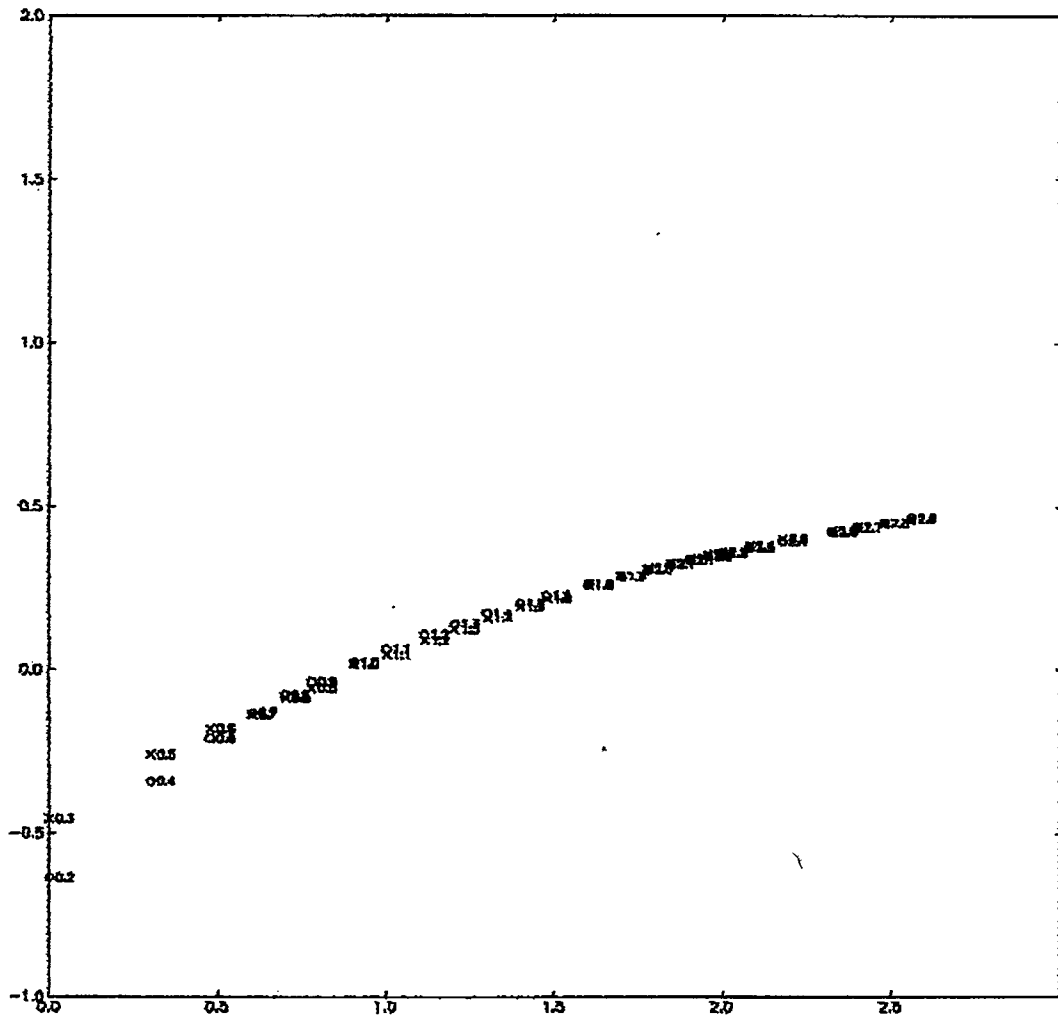
LOGPLOT.OSKY.OSA.30
PLOT NO. 1
DATE 05/21/85
TIME 11:25:00



OSKY.CLI
(30')

DATE 05/21/85 TIME 13:18:14 PLOT# 1 PATH= :SI1:PLOT:WK:LABEL.OSKY.PLOT

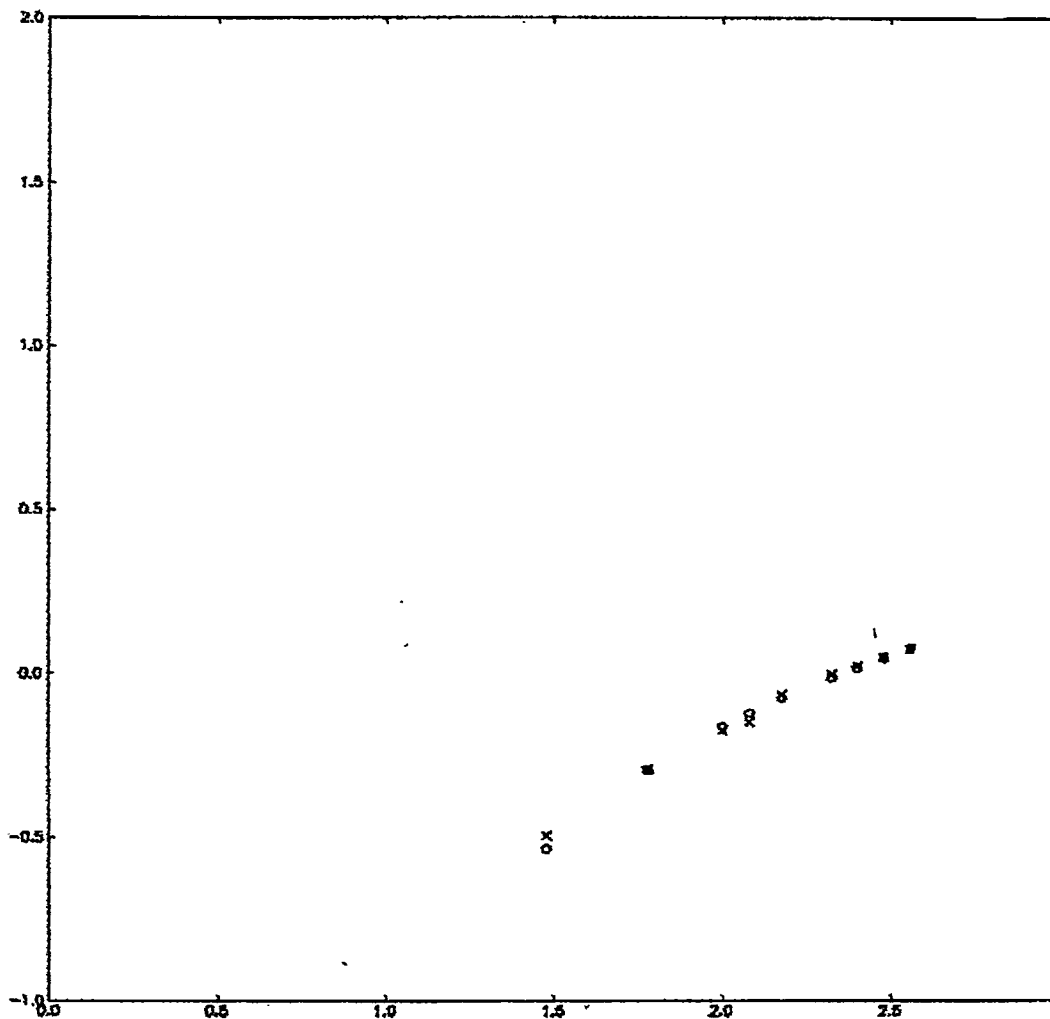
* LABEL:OSVAL003A.30
PLOT NO. 1
DATE 05/21/85 TIME 11:04:08



OSKY.CLI
(30')

DATE 05/21/85 TIME 13:19:11 PLOT# 1 PATH= :S11:PLOT:WK:LOGPLOT.OSKY2.PLOT

LOGPLOT.OSKALOSKAL000
PLOT NO. 1
DATE 05/21/85 TIME 11:01:36



OSKY2, CL1
(300')

COUNTY JEFFERSON

LOCATION 10-17E-27AAA

DATE 4-25-69

PERFORMED BY Layne-Western For Jefferson RWD #8

DISCHARGE variable 15-45 gpm (pump stopped during test)

LENGTH OF TEST 360 min recovery for 15 min

OF OBSERVATION WELLS none

DISTANCE(S) TO PUMPING WELL .34'

WATER LEVEL = 10' 3"

AQUIFER TYPE Alluvial (Rock Creek) - on Perry Lake

DEPTH OF TEST WELL 53'

SCREEN 10' (5', 5') 15'-18' ^{medium to coarse sand} and Gravel, 45-48 sandy clay ^{and} gravel

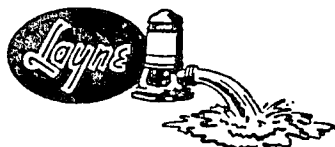
COMMENTS The computer plot shows a good fit but the curves are very flat. The drawdown is 3.4 feet in the first minute and only drops .5 feet in the next 60 minutes.

COMPUTER ANALYSIS

METHOD	T (gpd/ft)	S	RMS error	r
REC	37,376	_____	_____	.34'
Thi's	25,657	_____	.03	.34' (to 60 min)
D-R(VQ)	—	_____	(1.57,	.34' (all data)

10-17E27999

WELL INFORMATION



Layne-Western Company

Jefferson #23

1. CONTRACT JEFFERSON CO.
RWD #8
2. City, State MERIDEN, KANSAS
1-343377
3. Well No. 1 at Test Hole No. 1-68
4. Well Location (attach map) 1/4 MILE EAST
OF HICKORY ACRES ON
PERRY LAKE
5. Driller ROBERT L. SANS
6. DATE APRIL 26 1965
7. Date Started APRIL 23 1965
Completed APRIL 25 1965
8. Drill Crew Man Hrs. 68
9. Working Days
Drilling ONE
Other TWO

10. MATERIAL IN WELL

	LENGTH FT. IN.	DIA. IN.	GAGE NO.	WALL THICK- NESS IN.	MATERIAL	TYPE	NO.
Screen	<u>10' 0"</u>	<u>8"</u>	<u>—</u>	<u>—</u>	<u>STAINLESS</u> <u>STEEL</u>	<u>SHUTTER</u> Shutter	Openings
Inner Casing	<u>43' 0"</u>	<u>8"</u>	<u>—</u>	<u>—</u>	<u>STEEL</u>	<u>WELDED</u> Welded	
Outer Casing	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	Welded Screwed	

11. GRAVEL

Size TOPEKA GRAVEL

Tons 13

12. SEALING CASING

Puddled Clay (Yes) (No)

With — Bags Bentonite Added
orWith — Bags Cement 2' CEMENT
PLUGSeal Material Placed in
Well With —

Bottom of Well Screen

Sealed With STEEL PLATE

13. WELL DIMENSIONS

A. Total Depth 53
(From Top of Inner Casing to Bottom of
Well)

B. Height of Inner Casing 5'
(Above Ground Level)

C. Distance to Top of Gravel 14'
(From Ground Level)

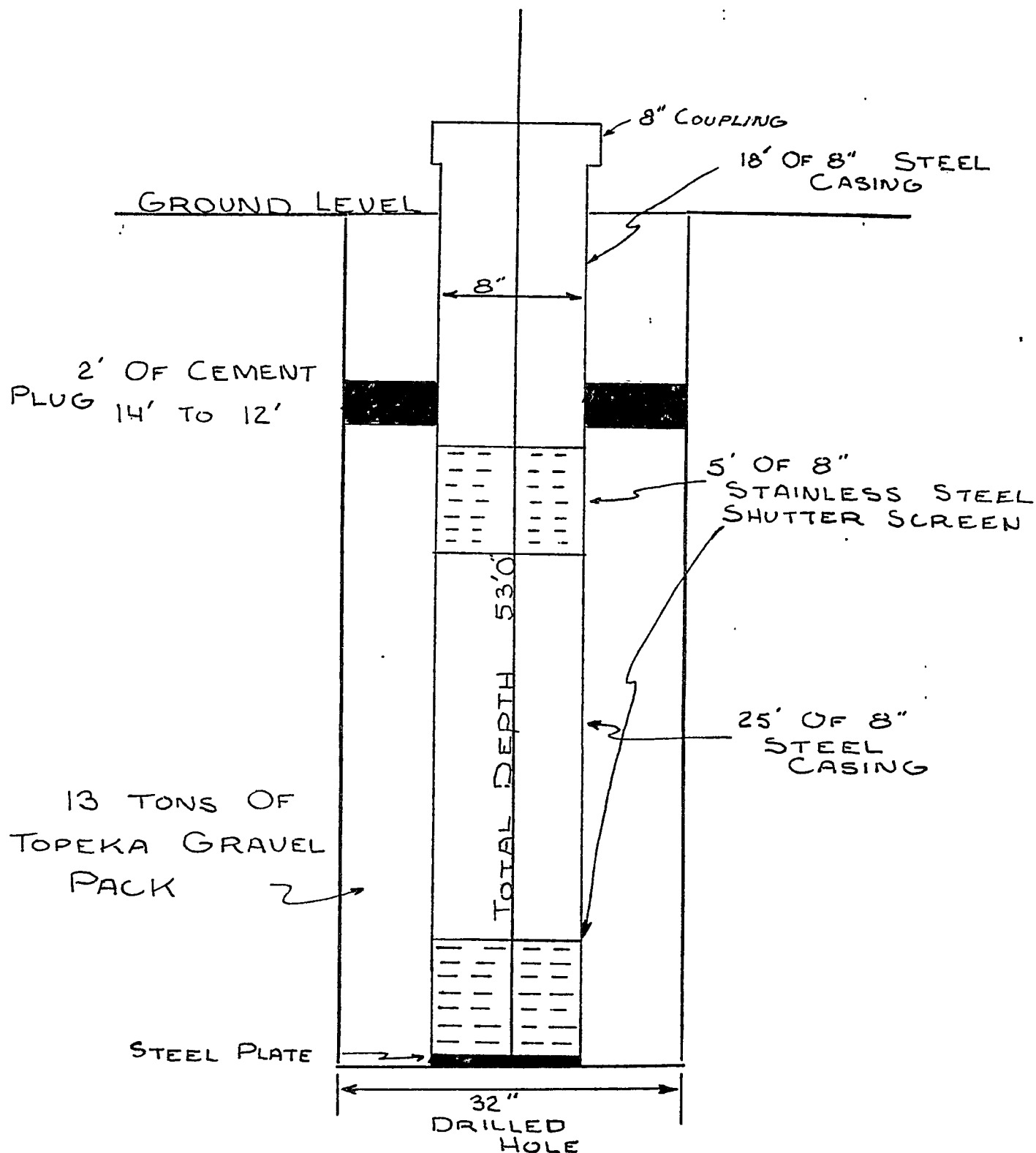
D. Diameter of Drill Hole 32"

Comments —

LOG OF WELL

[illegible]

CONSTRUCTION OF WELL



PUMPING TEST

Jefferson Co. Field # 2

Meridian, Kansas

WELL NO. ONE

TEST HOLE NO. 1-68

DATE April 25th 1969

X ORIFICE
0' 6" INCH ON TAPE IS 10' 3" FT. TO BOTTOM OF ELECTRIC PROBE
 MEASURED TO TOP OF 8 INCH CASING 0 FEET ABOVE GROUND LEVEL

DAY	TIME	TAPE READING	DEPTH TO WATER	D.V.	INCHES ON ORIFICE	GPM
4-25-69	11:00 AM	0' 0"	10' 3"		0	0
	:01	3' 4"	13' 7"	3.33		30 = 4.01
	:02	3' 6"	13' 9"	3.5		30
	:03	3' 6 1/2"	13' 9 1/2"	3.54		30
	:04	3' 7"	13' 10"	3.58		30
	:05	3' 7"	13' 10"	3.58		30
	:10	3' 8"	13' 11"	3.67		30
	:15	3' 8 1/2"	13' 11 1/2"	3.71		30
	:20	3' 9"	14' 0"	3.75		30
	:25	3' 9"	14' 0"	3.75		30
	:30	3' 9 1/2"	14' 1/2"	3.79		30
	:40	3' 10 1/2"	14' 1 1/2"	3.875		30
	:50	3' 11"	14' 2"	3.916		30
						30
	12:00	3' 11 1/2"	14' 2 1/2"	3.958		45 = 6.02
	:01 12:30	4' 7"	14' 10"	4.58		45
	:02 1:00	5' 1"	15' 4"	5.08		45
	:03 1:30	6' 2"	16' 5"	6.17		45
	:04 2:00	7' 5"	17' 8"	7.41		45
	:05 2:30	8' 7"	18' 10"	8.58		45
	:06 3:00	10' 4"	20' 7"	10.34		45
	:07 3:30	15' 1"	25' 4"	15.08		45
	:08 3:40	7"	11' 0"	.75		20 1.1
	:09 3:50	6' 2"	16' 5"	6.17		15 1.1
	:10 4:00	4' 3"	14' 6"	4.25		15
	:11 4:10	4' 1"	14' 4"	4.08		15
	:12 4:20	3' 11"	14' 2"	3.92		15
	:13 4:30	4' 1"	14' 4"	4.08		15
	:14 4:40	4' 1"	14' 4"	4.08		15
	:15 4:50	4' 3"	14' 6"	4.25		15
	:16 5:00	4' 5"	14' 8"	4.42		15
	:17 5:01	1' 0"	11' 3"	1.0		
	:18 5:02	7 1/2"	10' 10 1/2"	.62		
	:19 5:03	6"	10' 9"	.5		
	:20 5:04	5"	10' 8"	.42		
	:21 5:05	4 1/2"	10' 7 1/2"	.38		
	:22 5:10	1 1/2"	10' 4 1/2"	.12		
	:23 5:15	1/2"	10' 3 1/2"	.04		
	:30					
	:40					
	:50					

(71)

PUMPING TEST

Test pump in Bowl Stages

Permanent pump

Length of column Ft.

Length of Bowl Ft.

Length of suction Ft.

B. Measured water level Ft. from top of In. ORIFICE

dia. casing which is Ft. above ground.

C. Length of airline Ft. from top of casing.

TIME	INCHES ORIFICE MANOMETER	GPM	ALT. GAGE READING	WATER LEVEL	DRAW DOWN
11:00	0	0		10' 3"	0
11:30		30		14' 1/2"	3' 9 1/2"
12:00		30		14' 2 1/2"	3' 11 1/2"
1:00		45		15' 4"	5' 1"
2:00		45		17' 8"	7' 5"
3:00		45		18' 10"	8' 7"
3:30		45		25' 4"	15' 1"
RECOVERY					
3:40				11' 0"	7"
4:30		15		14' 4"	4' 1"
5:15				10' 3 1/2"	1/2"

15. Permanent Pump No. installed by

Layne

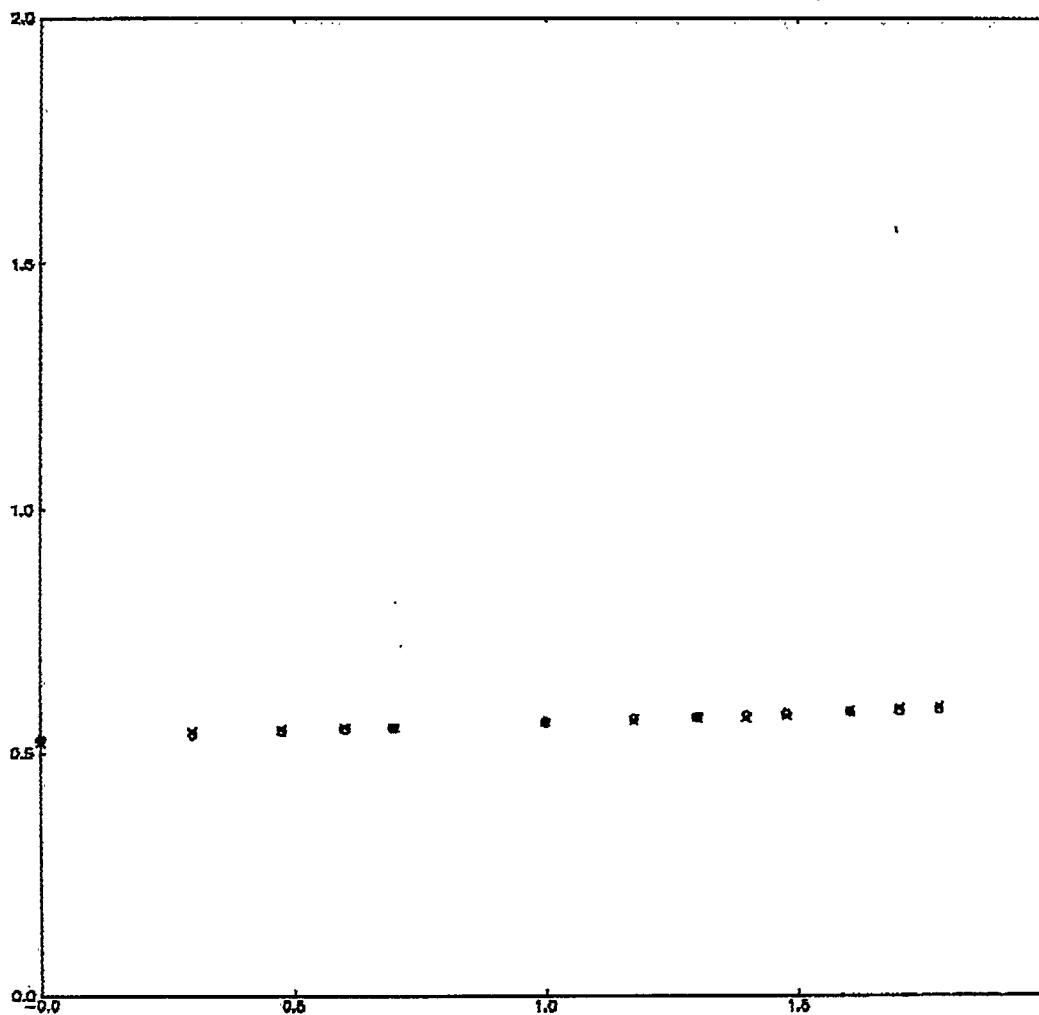
Permanent air line length Ft. Date Month Day Year

DATE 06/05/85 TIME 09:48:39 PLOT# 1 PATH= 1SI1:PLOT:WK:LOGPLOT.RWD8.JEF.PLOT

(Meridan)

LOGPLOT.RWD8.JEFF
PLOT NO. 1

DATE 06/03/85 TIME 15:07:00



t_0 60 min @ 30 gpa

COUNTY JEFFERSON

LOCATION 10-18E-19DAA#?

DATE December 15, 1968

PERFORMED BY Layne-western for Jefferson Co. RWD

DISCHARGE 20 gpm

LENGTH OF TEST 360 min 10 min recovery

OF OBSERVATION WELLS 1

DISTANCE(S) TO PUMPING WELL .17', 50'

WATER LEVEL = 15.5'

AQUIFER TYPE Alluvial (Delaware River)

DEPTH OF TEST WELL 60.5'

SCREEN probably in ^{the coarse to} med. sand and gravel 54'-60'

COMMENTS This test reaches steady-state conditions -

20 minutes into the test for the 50' observation well.
This is probably the reason for a high T value for the 'D-R' analysis on this well.

COMPUTER ANALYSIS

METHOD	T (gpd/ft)	S	RMS error	r
Theis	5,181	1.38×10^{-3}	.067	50'
D-R	21,670	2.0×10^{-4}	.21	50'
Theis	5,509	6.7×10^{-4}	.17	.17'
D-R	6,538	5.2×10^{-5}	.25	.17'

N

TH
#1-68
19 ADT

TH
#2-68
1000 ft

20 ft

Gravel
Bed

TH4368
300 ft
19 DAA

10-18E-19
-20

New
Zoo

OSK 10054

Bridge New Hwy

OSK Hwy #92

TEST HOLE REPORT

Layne-Western Company #23

Contract Name Proposed Jefferson County R.W.D.

Job No. KC 724-C

Date 11/13/68

City Ozawkie,

State Kansas

Driller J. Harper

TEST HOLE

No. 3-68

Test Hole Location 9-18E-276C

Distance and Direction from Permanent Landmark or Previous Test Hole

TEST LOG

FROM	TO	MARSH FUNNEL VISCOSITY SECONDS	MUD PIT LOSS INCHES	Static Water Level _____ Measured
				_____ Hours After Completion
FORMATION				
0'0"	2'0"			Top soil
2'0"	6'0"			Brown silty clay
6'0"	34'0"			Same soft
34'0"	37'0"			Brown gravelly clay, soft
37'0"	44'0"			Gray silty clay, med.
44'0"	46'0"			Gray med. & fine sand, tr. clay
46'0"	53'0"			Gray & brown gravelly clay, soft
53'0"	55'0"	water	6	Gray & brown med. & coarse sand, gravel, boulders
55'0"	58'0"	48)		Gray & brown coarse & med. sand, gravel, boulders
58'0"	60'0"	48)	3	Gray & brown med. to coarse, tr. fine sand, gravel
60'0"	63'0"			Brown weathered limy shale, soft
63'0"	64'0"			Gray limestone, solid
64'0"	Total depth			

NOTES: Size of Pit 3'6" X 2'6" X 3'0"

DEEP

TEST HOLE

Date 11/15/68

No. 4-68

State Kansas

Driller J. Harper

9-15 276.c

Distance and Direction from Permanent Landmark or Previous Test Hole

Static Water Level 14'2" Measured

2 Hours After Completion

FORMATION

DEEP

25-5-67-3367

Map on Back

AQUIFER TEST

NUMBER 15, 1968
 L NO. 1 at Test Hole 3-68

JOB NAME JEFFERSON CO RWD

JOB NO. KC-724C

E OF	ELAPSED TIME IN MINUTES	TAPE READING	WATER LEVEL BELOW MP	DRAWDOWN IN FEET	PUMPING RATE OF TEST WELL
	S.W.L.		15.55		
0:20	0		15.55	0.00	
0:21	1		19.70	4.15	20 GPM
	2		20.60	5.05	= 2.67
	3		20.71	5.16	
	4		20.80	5.25	
0:25	5		20.87	5.32	
	7		21.10	5.55	
	9		21.15	5.60	
	11		21.17	5.62	
	15		21.22	5.67	
0:40	20		21.40	5.85	
	25		21.55	6.00	
0:50	30		21.60	6.05	
	35		21.63	6.08	
1:00	40		21.57	6.02	
	45		21.60	6.05	
	50		21.65	6.10	
1:20	60		21.70	6.15	
	70		21.75	6.20	
1:40	80		21.79	6.24	
1:50	90		21.83	6.28	
12:00	100		21.85	6.30	
12:20	120		21.85	6.30	
12:50	150		22.00	6.45	
13:20	180		22.20	6.65	
13:50	210		22.15	6.60	
14:20	240		22.31	6.76	
14:50	270		22.70	7.15	
15:20	300		22.75	7.20	
15:50	330		22.80	7.25	
16:20	360		22.80	7.25	20 GPM
Hourly Recovery					
16:21	1		18.10	2.55	
16:22	2		17.40	1.85	
16:23	3		17.10	1.55	
16:24	4		16.80	1.25	
16:25	5		16.65	1.1	
16:27	7		16.40	.85	
16:30	10		16.20	.65	

(37)

AQUIFER TEST

NUMBER 15, 1968

JOB NAME JEFFERSON CO RWD.

NO. PE 50' Sec. at A-68

JOB NO. KC-724C

OF	ELAPSED TIME IN MINUTES	TAPE READING	WATER LEVEL BELOW MP	DRAWDOWN IN FEET	PUMPING RATE OF TEST WELL
	S.W.L.				
20	0	14' 2"	14.17	0.00	
	1	14' 2"	14.17	0.00	20 GPM
	2	14' 2"	14.17	0.00	= 2.67 A/m
	3	14' 4"	14.33	0.16	
	4	14' 5"	14.42	0.25	
	5	14' 7"	14.58	0.41	
	7	14' 9"	14.75	0.58	
	9	14' 9"	14.75	0.58	
	11	14' 9 1/2"	14.79	0.62	
	15	14' 10"	14.83	0.66	
	20	15' 0"	15.00	0.83	
	25	15' 0"	15.00	0.83	
50	30	15' 0"	15.00	0.83	
	35	15' 0"	15.00	0.83	
20	40	15' 0"	15.00	0.83	
	45	15' 0"	15.00	0.83	
10	50	15' 0"	15.00	0.83	
20	60	15' 0"	15.00	0.83	
30	70	15' 0"	15.00	0.83	
40	80	15' 0"	15.00	0.83	
50	90	15' 0"	15.00	0.83	
00	100	15' 0"	15.00	0.83	
20	120	15' 0"	15.00	0.83	
50	150	15' 0"	15.00	0.83	
20	180	15' 0"	15.00	0.83	
50	210	15' 0"	15.00	0.83	
20	240	15' 0"	15.00	0.83	
50	270	15' 0"	15.00	0.83	
20	300	15' 1/2"	15.04	0.87	
50	330	15' 1"	15.08	0.91	
20	360	15' 1"	15.08	0.91	20 GPM
	Hourly				
	RECOVERY				
121	1	15' 0"	15.00	0.83	
122	2	14' 11"	14.92	0.75	
123	3	14' 9"	14.75	0.58	
24	4	14' 7"	14.58	0.41	
25	5	14' 5 1/2"	14.46	0.29	
27	7	14' 5"	14.42	0.25	
29	9	14' 3"	14.25	0.08	
30	10	14' 2"	14.17	0	

1181

COUNTY JEFFERSON

LOCATION 11-17E-16DDCC

DATE 3-10-78

PERFORMED BY LAYNE-WESTERN FOR N.R. HAMM QUARRIES

DISCHARGE variable, 222-254 gpm

LENGTH OF TEST 240 min 30 min recovery

OF OBSERVATION WELLS none

DISTANCE(S) TO PUMPING WELL .34'

WATER LEVEL = 28'

AQUIFER TYPE ALLUVIAL (KANSAS RIVER) - terrace

DEPTH OF TEST WELL 49'

SCREEN 12' of screen at bottom of ^{the} well

COMMENTS There is a large initial well loss. - (10 feet after the first minute.)

COMPUTER ANALYSIS

METHOD	T (gpd/ft)	S	RMS error	r
D-R-VQ	50,406	7.2×10^{-7}	.34	.34'



WELL INFORMATION
Layne-Western Co. Inc.

Jefferson #19

1. CONTRACT N.R. HAMM QUARRIES

2. City, State GRANTVILLE, KANSAS

3. Well No. 1 at Test Hole No. 1-78

4. Well Location (attach map) 2 MILES EAST
OF GRANTVILLE
115 17E 16d d c c

5. Driller V. CAMPBELL

6. DATE 3-10-78

7. Date Started 3-6-78

Completed 3-10-78

8. Drill Crew Man Hrs.

9. Working Days

Drilling 1

Other 4

10. MATERIAL IN WELL			GAGE NO.	WALL THICKNESS IN.	MATERIAL	TYPE	NO.
	LENGTH FT. IN.	DIA. IN.					
Screen	<u>12' 0"</u>	<u>8"</u>	<u>—</u>	<u>.322"</u>	<u>MILD STEEL</u>	<u>JOHNSON WIRE WOUND</u> Shutter Keystone	<u>.045</u> Openings
Inner Casing	<u>37' 0"</u>	<u>8"</u>	<u>—</u>	<u>.322"</u>	<u>STEEL</u>	<u>Welded</u> <u>Seamed</u>	
Outer Casing	<u>20' 0"</u>	<u>18"</u>	<u>—</u>	<u>.25</u>	<u>STEEL</u>	<u>Welded</u> <u>Seamed</u>	

11. GRAVEL

Size #3 & 4 MIX

Tons 2

12. SEALING CASING

Puddled Clay (Yes) (No)

With Bags Bentonite Added

or
With 1 CU. YD GROUT
Bag Cement

Seal Material Placed in Well With.....

Bottom of Well Screen Sealed With PLATE

13. WELL DIMENSIONS

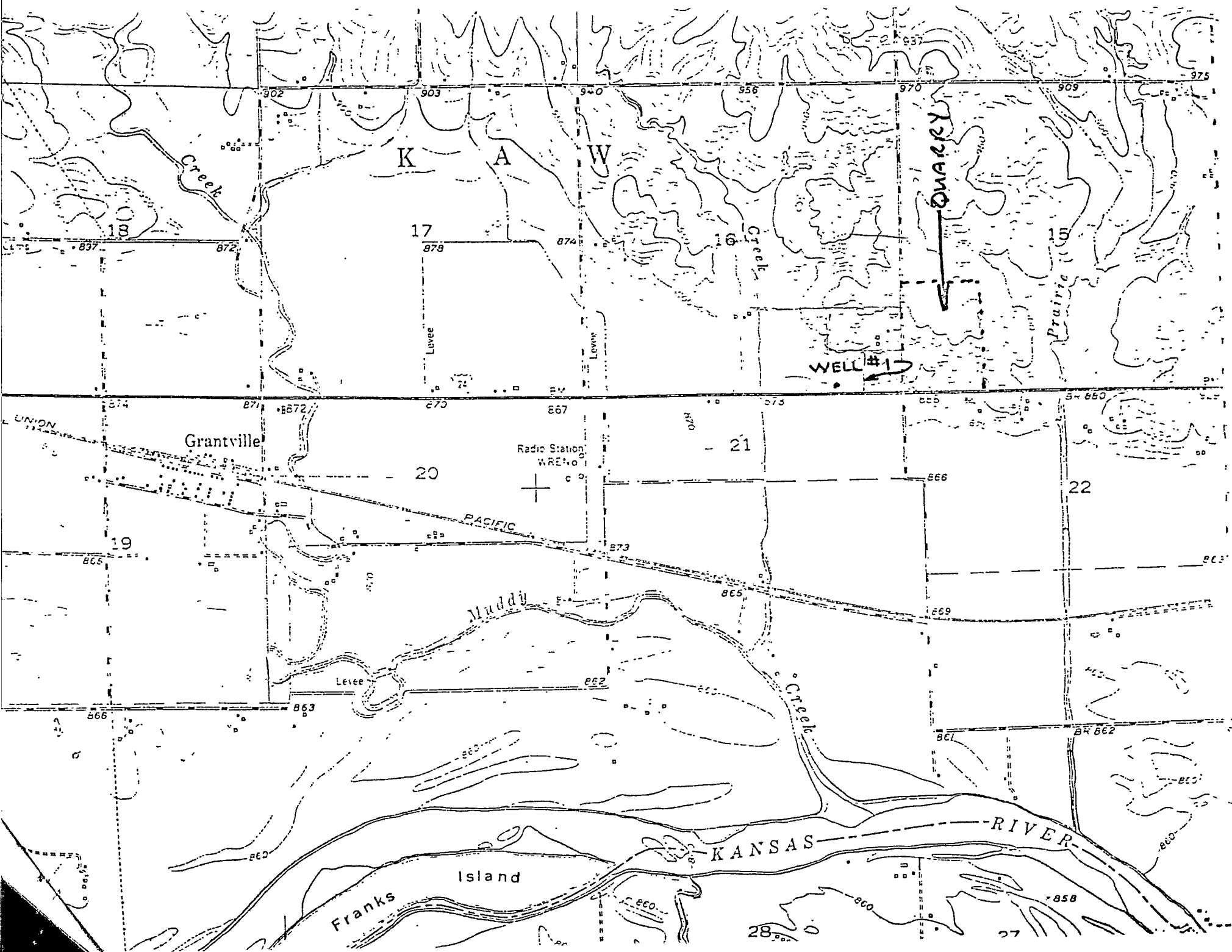
A. Total Depth 49'
(From Top of Inner Casing to Bottom Well)

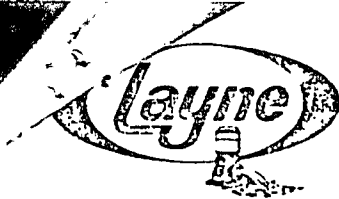
B. Height of Inner Casing 2'
(Above Ground Level)

C. Distance to Top of Gravel 20'
(From Ground Level)

D. Diameter of Drill Hole 18"

Comments





TEST HOLE REPORT

*Layne-Western Company, Inc.*Contract Name Hamm QuarriesJob No. A-439 Date 2/9/78City Grantville State KansasDriller V. Campbell

TEST HOLE

No. 1-78Test Hole Location SE1/4, SE 1/4, Sect. 16, T11S, R17E, Along U. S. Highway 24

Distance and Direction from Permanent Landmark or Previous Test Hole

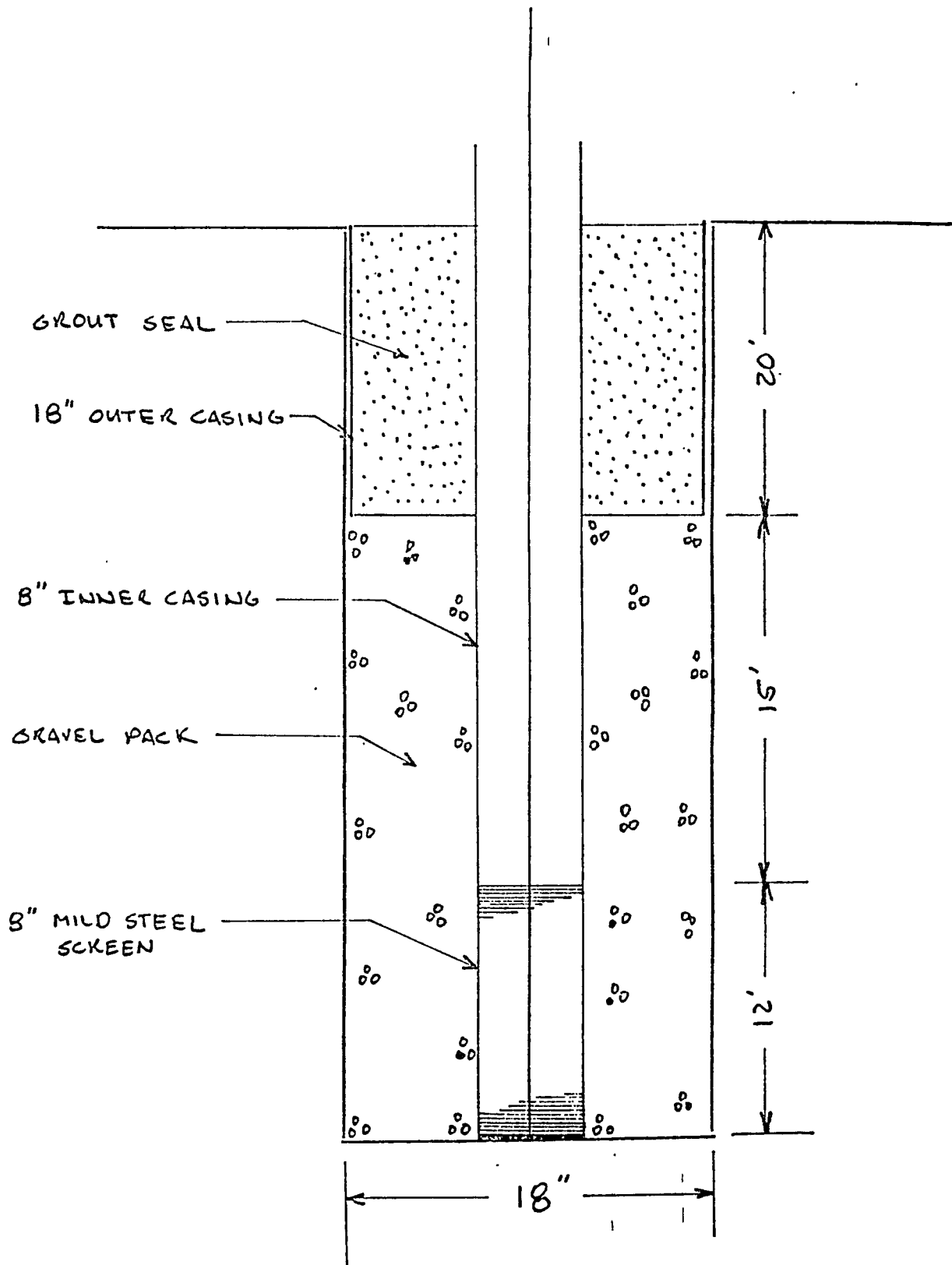
TEST LOG

FROM	TO	MARSH FUNNEL VISCOSITY SECONDS	MUD PIT LOSS INCHES	Static Water Level_____28'_____Measured
				_____ Hours After Completion
				FORMATION
0.0'	1.0'			Topsoil
1.0'	33.0'			Brown silty clay, stiff
33.0'	35.0'			Brown med. to coarse sand w/trace fine sand
35.0'	40.0'			Same
40.0'	43'5"			Same
43'5"	45.0'	48	1"	Gray brown med. to coarse sand w/trace fine sand
45.0'	47.0'	48	1/2"	Gray brown med. to fine sand w/trace coarse sand
47.0'				Gray brown weathered limestone
47.0'	Total depth			

Portable

NOTES: Size of Pit _____ X _____ X _____ DEEP

CONSTRUCTION OF WELL



AQUIFER TEST

QUARRIES

DATE MARCH 24, 1978

VILLE, KS.

WELL NO. 1

JOB NO. A-439-N

	ELAPSED TIME IN MINUTES	TAPE READING	WATER LEVEL BELOW MS PT	DRAWDOWN IN FEET	PUMPING RATE OF TEST WELL
0	S.W.L.		24'-0"		254 GPM
1			34'-1 1/2"	10.12	" 33.96
2			34'-8"	10.66	"
3			35'	11.0	"
4			35'-3"	11.25	"
5			35'-5"	11.42	"
7			35'-9"	11.75	250 GPM
9			36'	12.0	" 33.46
11			36'-1 1/2"	11.66	"
15			35'-3 1/2"	11.3	224 GPM
20			35'-4"	11.33	" 29.95
25			35'-5"	11.42	"
30			35'-5"	11.46	222 GPM
35			35'-5 1/2"	11.46	" 29.68
40			35'-5 1/2"		"
45			35'-6"	11.5	"
50			35'-6 1/2"	11.54	"
55			35'-7"	11.58	"
60			35'-7"		"
70			35'-7 1/2"	11.62	"
80			35'-8"	11.66	"
90			35'-7 1/2"		"
100			35'-8"		"
120			"		"
150			"		"
180			"		"
210			"		"
240			"	11.67	222 GPM
RECOVERY					
1	241		26'-10"	26.9	2.83
2	121		26'-6"	26.5	2.5
3	81		26'-3 1/2"	26.29	2.29
4	61		26'-0"	26	2.0
5	41		25'-9"	25.75	1.75
10	25		25'-2 1/2"	25.21	1.21
15	17		24'-10 1/2"	24.87	.88
20	13		24'-9 1/2"	24.79	.79
25	10.5		24'-7 1/2"	24.62	.62
30	9		24'-6"	24.5	.5
SPECIFIC CAPACITY = $\frac{222}{11.67} = 19 \text{ GPM/FT. D.D.}$					

COUNTY

JEFFERSON

LOCATION

11-1R-17CCC

DATE

2-7-79

PERFORMED BY

Layne-Western FOR Jefferson County RWD. #15

DISCHARGE 280 gpm

LENGTH OF TEST 480 min recovery for 60 min

OF OBSERVATION WELLS none

DISTANCE(S) TO PUMPING WELL .34'

WATER LEVEL = 28'

AQUIFER TYPE Alluvial (Kansas River - Muddy Creek - Elm Creek?)

DEPTH OF TEST WELL 67'

SCREEN 20' of screen at bottom of well

COMMENTS The error is large considering ^{that} the drawdown drops only 1.42' during the entire test. The Transmissivity value here is within reason, but the correlation coefficients were low, showing that the program had trouble with this data.

COMPUTER ANALYSIS

METHOD	T (gpd/ft)	S	RMS error	r
D-R			.32	.34'
Theis	263,327		.31	.34'

(low correlation coefficient (.75) /



WELL INFORMATION

Layne-Western Co. Inc.

Lessons on #2

1. CONTRACT JEFF CO. R.W.D. No. 152. City, State GRANTVILLE, KANSAS3. Well No. 1 at Test Hole No. 5-77

4. Well Location (attach map)

115-1717-ccc5. Driller B. BOWLES

6. DATE

7. Date Started 2-23-79Completed 3-7-798. Drill Crew Man Hrs. 9

9. Working Days

Drilling 1Other 7

10. MATERIAL IN WELL

	LENGTH FT. IN.	DIA. IN.	GAGE NO.	WALL THICK- NESS IN.	MATERIAL	TYPE	NO.
Screen	<u>20' 0"</u>	<u>8"</u>	—	—	<u>STAINLESS STEEL</u>	<u>WIRE WOUND</u> <u>Shutter</u> <u>Keystone</u>	<u>.060"</u> Openings
Inner Casing	<u>49' 4"</u>	<u>8"</u>	—	—	<u>STEEL</u>	<u>Welded</u> <u>Screwed</u>	
Outer Casing	—	—	—	—	—	<u>Welded</u> <u>Screwed</u>	

11. GRAVEL

Size HOLIDAY SAND WELL PACKTons 15

12. SEALING CASING

Puddled Clay (Yes) ☒With Bags Bentonite Added
orWith 10 Bags CementSeal Material Placed in
Well With KREMEBottom of Well Screen
Sealed With STAINLESS STEEL PLATE

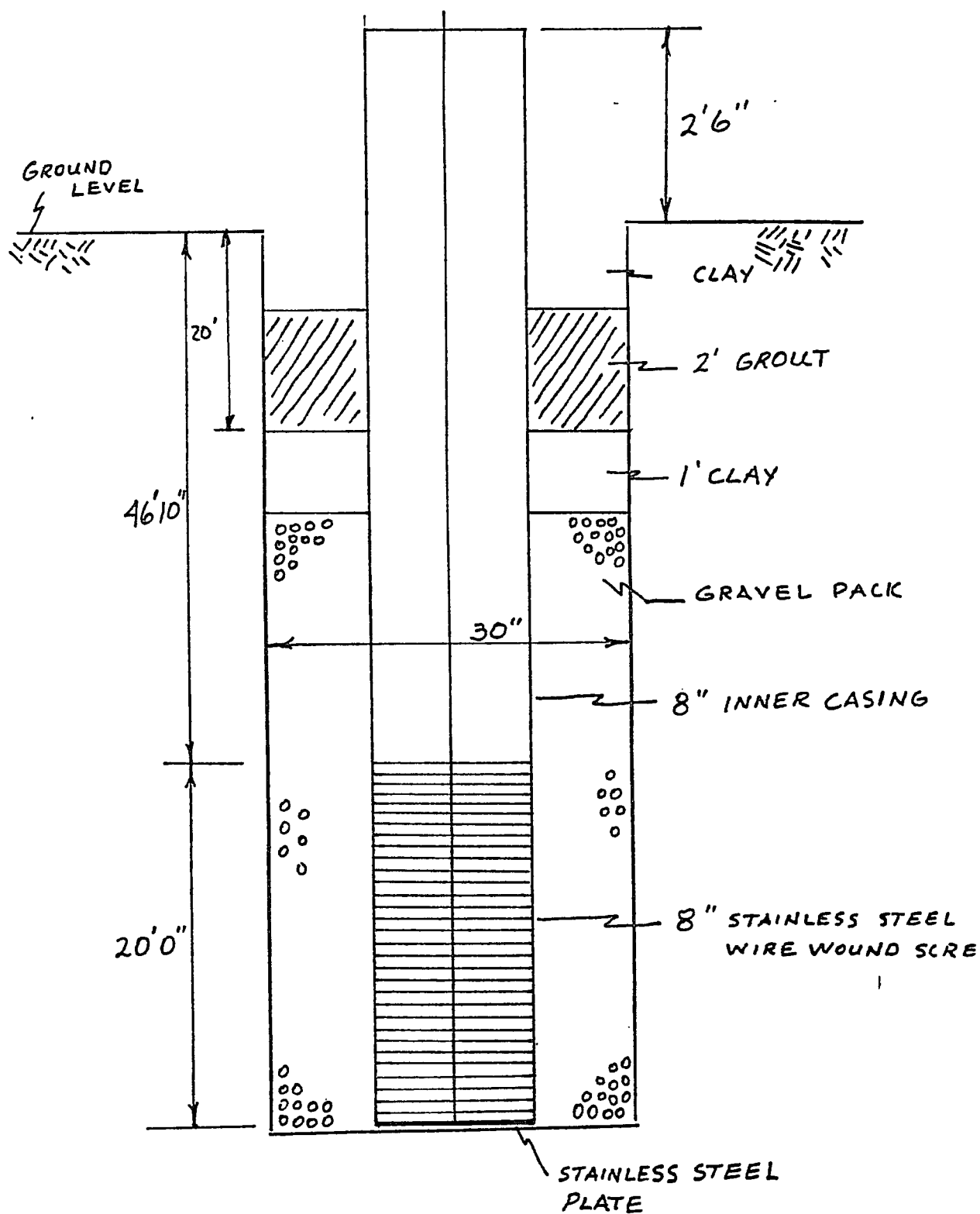
13. WELL DIMENSIONS

A. Total Depth 69' 4"
(From Top of Inner Casing to Bottom of
Well)B. Height of Inner Casing 2' 6"
(Above Ground Level)C. Distance to Top of Gravel 20'
(From Ground Level)D. Diameter of Drill Hole 30"

Comments



CONSTRUCTION OF WELL



AQUIFER TEST

3-1-79

JOB NAME JEFF Co. R.W.D, No.15

WELL NO. 1

JOB NO. A-050-N

TIME OF DAY	ELAPSED TIME IN MINUTES	TAPE READING (ft.)	WATER LEVEL BELOW MS PT	DRAWDOWN IN FEET	PUMPING RATE OF TEST WELL
12:00	0	28.0		0	
12:01	1	33.0		5.0	280 GPM
12:02	2	33.0		5.0	37.43
12:03	3	33.0		5.0	
12:04	4	33.5		5.5	
12:05	5	33.5		5.5	
12:07	7	33.5		5.5	
12:09	9	33.5		5.5	
12:11	11	33.5		5.5	
12:15	15	33.5		5.5	
12:20	20	33.5		5.5	
12:25	25	33.5		5.5	
12:30	30	33.5		5.5	
12:35	35	33.5		5.5	
12:40	40	33.5		5.5	
12:45	45	33.5		5.5	
12:50	50	33.5		5.5	
1:00	60	33.5		5.5	
1:10	70	33.5		5.5	
1:20	80	33.5		5.5	
1:30	90	33.5		5.5	
1:40	100	33.5		5.5	
2:00	120	33.5		5.5	
2:30	150	33.75		5.75	
3:00	180	34.0		6.0	
3:30	210	34.0		6.0	
4:00	240	34.0		6.0	
4:30	270	34.0		6.0	
5:00	300	34.0		6.0	
5:30	330	34.0		6.0	
6:00	360	34.0		6.0	
6:30	390	34.0		6.0	
7:00	420	34.0		6.0	
7:30	450	34.0		6.0	
8:00	480	34.0		6.0	
RECOVERY					
8:05	485	28'3"		3"	
8:10	490	28'2"		2"	
8:15	495	28'1"		1"	
8:20	500	20' 1/2"		1/2"	
8:30	510	20' 1/2"		1/2"	
9:00	540	20' 1/2"		1/2"	

AQUIFER TEST

DATE 3-1-79JOB NAME JEFF CO. R.W.D. No. 15WELL NO. SUPPLY WELLJOB NO. A-050-N

TIME OF DAY	ELAPSED TIME IN MINUTES	TAPE READING	WATER LEVEL BELOW MS PT	DRAWDOWN IN FEET	PUMPING RATE OF TEST WELL
12:00	0	27'9"		0	
12:01	1	28'1"		4" .34	280 GPM
12:02	2	28'2"		5" .42	=37.43
12:03	3	28'2"		5"	
12:04	4	28'3"		6" .5	
12:05	5	28'3"		6"	
12:07	7	28'3"		6"	
12:09	9	28'3"		6"	
12:11	11	28'3"		6"	
12:15	15	28'4"		7" .58	
12:20	20	28'4"		7"	
12:25	25	28'6"		9" .75	
12:30	30	28'6"		9"	
12:35	35	28'9"		1'0" 1.0	
12:40	40	28'9"		1'0"	
12:45	45	28'9"		1'0"	
12:50	50	28'9"		1'0"	
1:00	60	28'10"		1'1" 1.08	
1:10	70	28'10"		1'1"	
1:20	80	28'10"		1'1"	
1:30	90	28'10"		1'1"	
1:40	100	28'10"		1'1"	
2:00	120	28'11"		1'2" 1.17	
2:30	150	28'11"		1'2"	
3:00	180	28'11"		1'2"	
3:30	210	28'11"		1'2"	
4:00	240	28'11"		1'2"	
4:30	270	29'0"		1'3" 1.25	
5:00	300	29'1"		1'4" 1.34	
5:30	330	29'1"		1'4"	
6:00	360	29'2"		1'5" 1.42	
6:30	390	29'2"		1'5"	
7:00	420	29'2"		1'5"	
7:30	450	29'2"		1'5"	
8:00	480	29'2"		1'5"	
RECOVERY					
8:05	485	28'9"		1'0"	1.1
8:10	490	28'1"		4"	.33
8:15	495	28'6"		9"	.75
8:20	500	28'4"		7"	.58
8:30	510	28'3"		6"	.46
9:00	540	28'1"		4"	.33

COUNTY JEFFERSON

LOCATION 11-17E-20ABCB

DATE 9-15-77

PERFORMED BY LAYNE-WESTERN FOR JEFFERSON RWD #15

DISCHARGE 214 gpm

LENGTH OF TEST 870 min 60 min recovery

OF OBSERVATION WELLS none

DISTANCE(S) TO PUMPING WELL .5'

WATER LEVEL = 25'

AQUIFER TYPE Alluvial (Kansas River)

DEPTH OF TEST WELL 78'

SCREEN —

COMMENTS After 11 minutes, this well has no further drawdown for the remainder of the test. It is located about a mile from the river so it could not be receiving recharge from the river after 11 minutes. Maybe this test should be analysed using unconfined conditions or perhaps the discharge rate is too low.

COMPUTER ANALYSIS

METHOD	T (gpd/ft)	S	RMS error	r	
Thi's	20,139	.58	.38	.5'	(to 11 min)
Rec	—	does not converge		.5'	(to 30 min)
D-R	316,739	—	.62	.5'	(dd to 11 min)



Layne-Western Company, Inc.

Real

Subject Jeff Co. R.W.D #1: - GRANTVILLE, KS Date 1-8-78

J. H. Henson #18

Right Legal?

11-17E- 209 b c b

TH-5-77



MID-WEST LINE
BUILDING

TO TOPEKA

U.S. HWY 24

GRAVEL ROAD

100'



TH 3-77

500'

NOT TO
SCALE

250'



TH 4-77

150'

RAILROAD

GRANTVILLE

GRAVEL ROAD

CREEK

TH-1-77



TH-2-77



FLOCKING
STORE





TEST HOLE REPORT

*Layne-Western Company, Inc.*Contract Name Jefferson County R.W.D. No. 15Job No. A-160-NDate 9/8/77City GrantvilleState KansasDriller D. Bowles

TEST HOLE

No. 1-77Test Hole Location SW $\frac{1}{4}$, NW $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 20, T.11S., R.17E.

Distance and Direction from Permanent Landmark or Previous Test Hole

1' - 2' acc

TEST LOG

Static Water Level 25' Measured4 Hours After Completion

FORMATION

FROM	TO	MARSH FUNNEL VISCOSITY SECONDS	MUD PIT LOSS INCHES	
0'0"	1'6"			Top soil
1'6"	15'0"			Brown silty clay
15'0"	28'0"			Gray silty clay
28'0"	30'0"			Gray-brown med. to coarse sand
30'0"	40'0"	50	2	Same
40'0"	45'0"	50	1	Gray-brown med. to coarse sand, w/clay layers
45'0"	60'0"	50	5	Gray-brown med. to coarse sand, w/tr. gravel
60'0"	70'0"	50	5	Same
70'0"	78'6"	65	3	Gray-brown med. to coarse sand, w/boulders
78'6"	Total depth			Limestone

NOTES: Size of Pit 6' X 6' X 6'

DEEP

TEST WELL, AQUIFER TEST

4" x 3" Orifice

Test Started

JE Jefferson Co. R.W.D. #15

DATE

9/15/77

LOCATION Grantville, Kansas

Test Hole No. 1-77

JOB NO. A-160-N

TIME OF DAY	ELAPSED TIME IN MINUTES	TAPE READING	WATER LEVEL BELOW MS PT	DRAWDOWN IN FEET	PUMPING RATE OF TEST WELL
	S.W.L.				
1:30 a.m.	0	23' 5 "			
1:31 a.m.	1	27' 0 "	3.58		
1:32 a.m.	2	28' 4 "	4.91		214 GPM
1:33 a.m.	3	29' 4 "	5.91		=28.61
1:34 a.m.	4	29' 8 "	6.25		
1:35 a.m.	5	29' 10 1/2"	6.45		
1:37 a.m.	7	29' 11 "	6.49	(8)	
1:39 a.m.	9	29' 11 1/4"	6.51		
1:41 a.m.	11	29' 11 1/2"	6.53		
1:45 a.m.	15	29' 11 1/2"			
1:50 a.m.	20	29' 11 1/2"			
1:55 a.m.	25	29' 11 1/2"			214 GPM
2:00 noon	30	29' 11 1/2"			
2:05 p.m.	35	29' 11 1/2"			
2:10 p.m.	40	29' 11 1/2"			
2:15 p.m.	45	29' 11 1/2"			
2:20 p.m.	50	29' 11 1/2"	recharging	maybe -	self recharged
2:30 p.m.	60	29' 11 1/2"		this	well
2:40 p.m.	70	29' 11 1/2"			
2:50 p.m.	80	29' 11 1/2"			
3:00 p.m.	90	29' 11 1/2"		check climatological	
3:10 p.m.	100	29' 11 1/2"		report - was there	
3:30 p.m.	120	29' 11 1/2"		flooded	
3:00 p.m.	150	29' 11 3/4"			
3:30 p.m.	180	29' 11 3/4"			
4:00 p.m.	210	29' 11 3/4"			
4:30 p.m.	240	29' 11 3/4"			
5:00 p.m.	270	29' 11 3/4"			
5:30 p.m.	300	29' 11 3/4"			
6:00 p.m.	330	29' 11 3/4"			214 GPM
6:30 p.m.	360	29' 11 3/4"			
7:00 p.m.	420	29' 11 3/4"			
7:30 p.m.	480	29' 11 3/4"			
8:00 p.m.	540	29' 11 3/4"			
8:30 p.m.	600	29' 11 3/4"			
9:00 p.m.	660	29' 11 3/4"			
9:30 p.m.	720	29' 11 3/4"			
10:00 p.m.	780	29' 11 3/4"			
10:30 p.m.	840	29' 11 3/4"			
11:00 p.m.	900	29' 11 3/4"			

3/16/77

LOCATION Grantville, Kansas

Test Hole No. 1-77

JOB NO. A-160-N

[illegible]

COUNTY

JEFFERSON

LOCATION

11-18E-22DAA

DATE

4-1-66

PERFORMED BY Layne-Western For the City of Perry

DISCHARGE Variable 100, 151, 201 gpm

LENGTH OF TEST 180 min, recovery for 5 min

OF OBSERVATION WELLS none

DISTANCE(S) TO PUMPING WELL .83'

WATER LEVEL = 27'

AQUIFER TYPE ALLUVIAL (KANSAS and Delaware Rivers)

DEPTH OF TEST WELL 83'

SCREEN 10' at bottom of well in ^{medium to coarse} sand and gravel with boulders

COMMENTS The storage cannot be calculated for this test.
Otherwise, the transmissivity values look good.

COMPUTER ANALYSIS

METHOD	T (gpd/ft)	S	RMS error	r
Theis/1Q	462,731	2×10^{-8}	.048	.83'
D-R	588,797		.038	.83'

4-18E 22 d 99



WELL INFORMATION *Jefferson #17*
Wayne Western Company *Gal*

1. CONTRACT <u>CITY OF PERRY</u>	5. Driller <u>R. L. SANSBURY</u>
2. City, State <u>PERRY, KANSAS</u>	6. DATE <u>APR 2, 1966</u>
3. Well No. <u>TWO</u> at Test Hole No. <u>1-65</u>	7. Date Started <u>MAR 28, 1966</u> Completed <u>APR 1, 1966</u>
4. Well Location (attach map) <u>275 FT.</u> <u>NORTH OF PERRY WATER</u> <u>PLANT</u>	8. Drill Crew Man Hrs. <u>160</u>
	9. Working Days Drilling <u>ONE</u> Other <u>FOUR</u>

10. MATERIAL IN WELL				WALL THICK- NESS IN.	MATERIAL	TYPE	NO.
	LENGTH FT. IN.	DIA. IN.	GAGE NO.				
Screen	10' 0"	10"	7	.1875	STAINLESS STEEL	SHUTTER Shutter Screwed	5 Openings
Inner Casing	75' 0"	10"	-	.365	STD. STEEL	SCREWED Screwed	
Outer Casing	- -	-	-	-	-	Welded Screwed	

11. GRAVEL
Size 1/8 x 1/4 FINE
Tons 13

12. SEALING CASING
Puddled Clay (Yes) (No)
With _____ Bags Bentonite Added
or
With 2 Bags Cement
Seal Material Placed in
Well With _____
Bottom of Well Screen
Sealed With STEEL PLATE

13. WELL DIMENSIONS
A. Total Depth 85' 0"
(From Top of Inner Casing to Bottom of Well)
B. Height of Inner Casing 2'
(Above Ground Level)
C. Distance to Top of Gravel 20'
(From Ground Level)
D. Diameter of Drill Hole 24"

Comments _____

1-4-42/2

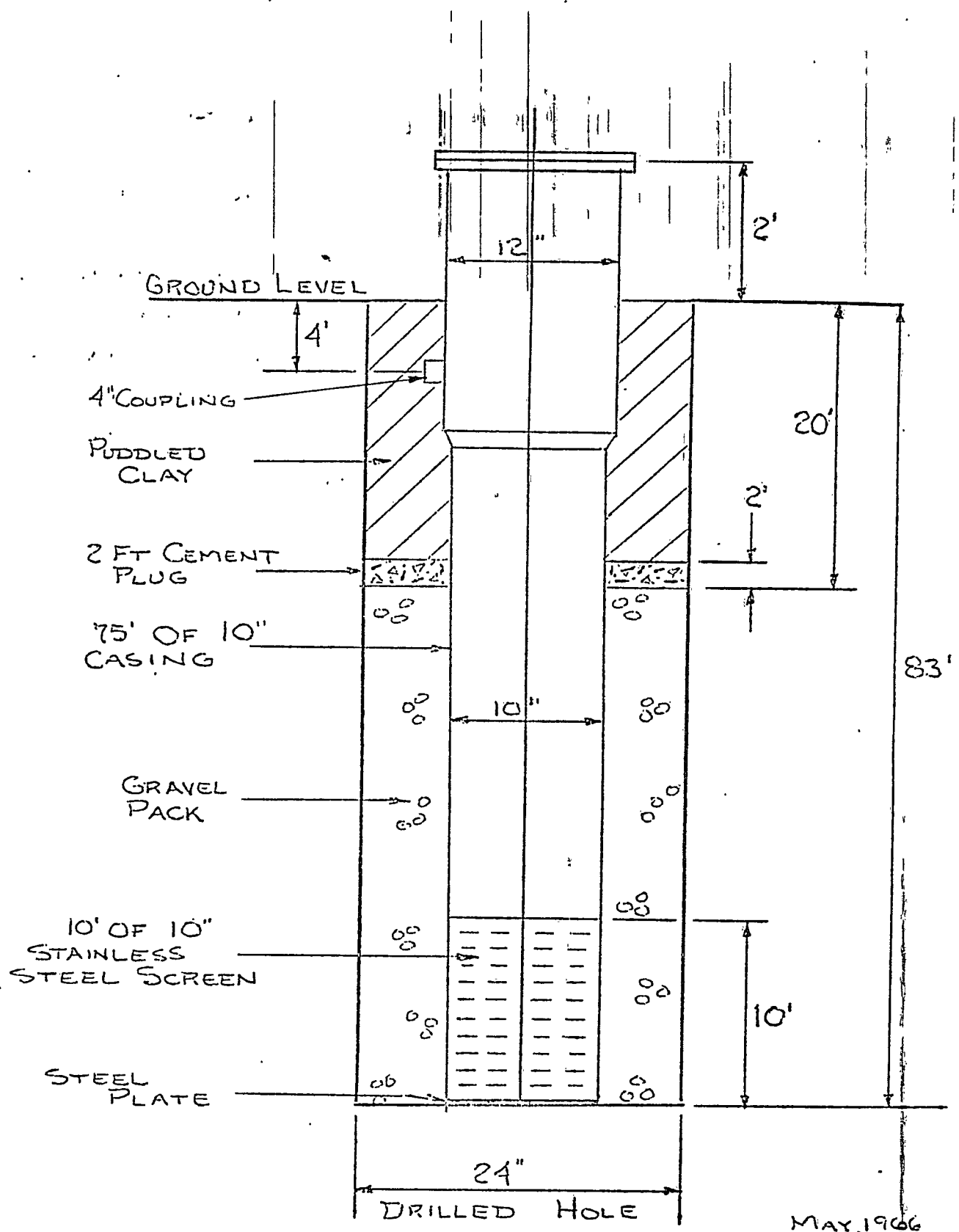
8-9138-

17 56/3

17-571

[illegible]

CONSTRUCTION OF WELL



MAY, 1966

14. PUMPING TEST

A.

Test pump

Permanent pump _____ in. _____ Bowl _____ Stages

Length of column _____ Ft.

Length of Bowl _____ Ft.

Length of suction _____ Ft.

B. Measured water level 27' 1" Ft. from top of 10 In.

dia. casing which is 2 Ft. above ground.

C. Length of airline _____ Ft. from top of casing.

ORIFICE

4 x 3

_____ x _____

4-1-66 TIME	INCHES ORIFICE MANOMETER	GPM	ALT. GAGE READING	WATER LEVEL	DRAW DOWN
12:00		0		27' 1"	0
12:01	1	100 =	13.37	27' 8 1/4"	7 1/4" .604
1:00 PM	60	100		27' 9 1/2"	8 1/2" .708
1:01	61	151 =	20.19	28'	11" .92
1:50	110	151		28' 1 1/2"	1' 1/2" 1.04
2:00	120	201 =	26.87	28' 4"	1' 3" 1.25
3:00	180	201		28' 6"	1' 5" 1.42
RECOVERY					
1 3:01	171			27' 3 1/2"	2 1/2" 1.21
2 3:02				27' 3"	2" 1.17
3 3:03				27' 2 3/4"	1 3/4" 1.14
4 3:04				27' 2 1/2"	1 1/2" 1.12
5 3:05				27' 2 1/4"	1 1/4" 1.10

15. Permanent _____ Pump No. _____ installed by _____

Permanent air line length _____ Ft. Date _____
Month _____ Day _____ Year _____

changed inches
to feet in
report R9B

COUNTY

JEFFERSON

LOCATION

11-18E-22?

DATE

August 12, 1964

PERFORMED BY LAYNE-WESTERN FOR CITY OF LE COMPTON

DISCHARGE Variable 52-100 gpm

LENGTH OF TEST 180 min

OF OBSERVATION WELLS none

DISTANCE(S) TO PUMPING WELL .34'

WATER LEVEL = 15' 8"

AQUIFER TYPE ALLUVIAL (Delaware and Kansas Rivers)

DEPTH OF TEST WELL 371'

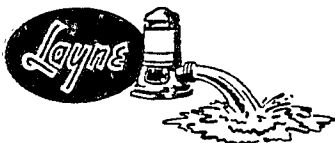
SCREEN 10' of screen at bottom of well

COMMENTS This test looks good, though the error is a little large for the range of $\sqrt{\text{drawdown}}$; and the transmissivity is a bit low.

COMPUTER ANALYSIS

METHOD	T (gpd/ft)	S	RMS error	r
THEIS-VQ	94,772	3.2×10^{-4}	.07	.34'

WELL INFORMATION



Layne-Western Company

Douglas
Jefferson Co.

1. CONTRACT City of Leavenworth
2. City, State Leavenworth Kansas
3. Well No. Five at Test Hole No. 1-64
4. Well Location (attach map) 44 ft North
of City L. 11 N. 1
115 L 18E-22
5. Driller Robert L. Swainson
6. DATE August 12th 1964
7. Date Started August 7th 1964
 Completed August 12th 1964
8. Drill Crew Man Hrs. 123
9. Working Days
 Drilling One
 Other Three

if legal
is correct...
Jeff. Co.
South of
Perry

10. MATERIAL IN WELL			GAGE NO.	WALL THICK- NESS IN.	MATERIAL	TYPE	NO.
	LENGTH FT. IN.	DIA. IN.					
Screen	<u>16 6</u>	<u>3</u>			<u>Stainless Steel</u>	<u>Shutter Keystone</u>	<u>Openings</u>
Inner Casing	<u>43' 1</u>	<u>5</u>		<u>5/8</u>	<u>Steel</u>	<u>Welded Screwed</u>	
Outer Casing						<u>Welded Screwed</u>	

11. GRAVEL

Size 1/8" to 1/4" max

Tons 5 tons

12. SEALING CASING

Puddled ~~Clay~~ (Yes) (No)

With Bags Bentonite Added

or

With 6 Bags Cement

Sea Material Placed in

Well With

Bottom of Well Screen

13. WELL DIMENSIONS

- A. Total Depth 53' 6"
 (From Top of Inner Casing to Bottom of Well)
- B. Height of Inner Casing 12' 0"
 (Above Ground Level)
- C. Distance to Top of Gravel 20' 1"
 (From Ground Level)
- D. Diameter of Drill Hole 2' 0"

Comments

[illegible]

PUMPING TEST

City of Leompton
Leompton Kansas

$\approx .34'$

DATE *August 10th 1964*

WELL NO. *Two*

TEST HOLE NO. *1-64*

4 X *2 1/2* ORIFICE

0 INCH ON TAPE IS *15' 8"* FT. TO BOTTOM OF ELECTRIC PROBE
MEASURED TO TOP OF *8* INCH CASING *1* FEET ABOVE GROUND LEVEL

DAY	TIME	TAPE READING	DEPTH TO WATER	D.D.	INCHES ON ORIFICE	GPM
<i>2:00</i>	<i>:00 pm</i>	<i>0</i>	<i>15' 8"</i>		<i>0</i>	<i>0</i>
	<i>:01</i>	<i>9 1/2"</i>	<i>16' 5 1/2"</i>	<i>.8</i>	<i>3"</i>	<i>52 = 6.95</i>
	<i>:02</i>	<i>10 3/4"</i>	<i>16' 6 3/4"</i>	<i>.9</i>	<i>3"</i>	<i>52</i>
	<i>:03</i>	<i>11 1/4"</i>	<i>16' 7 1/4"</i>	<i>.94</i>	<i>3"</i>	<i>52</i>
	<i>:04</i>	<i>11 1/2"</i>	<i>16' 7 1/2"</i>	<i>.96</i>	<i>3"</i>	<i>52</i>
	<i>:05</i>	<i>11 3/4"</i>	<i>16' 7 3/4"</i>	<i>.98</i>	<i>3"</i>	<i>52</i>
	<i>:10</i>	<i>1' 0"</i>	<i>16' 8"</i>	<i>1.00</i>	<i>3"</i>	<i>52</i>
	<i>:15</i>	<i>1' 1/4"</i>	<i>16' 8 1/4"</i>	<i>1.02</i>	<i>3"</i>	<i>52</i>
	<i>:20</i>	<i>1' 1/4"</i>	<i>16' 8 1/4"</i>	<i>1.02</i>	<i>3"</i>	<i>52</i>
	<i>:25</i>	<i>1' 1/2"</i>	<i>16' 8 1/2"</i>	<i>1.04</i>	<i>3"</i>	<i>52</i>
	<i>:30</i>	<i>1' 1/2"</i>	<i>16' 8 1/2"</i>	<i>1.04</i>	<i>3"</i>	<i>52</i>
	<i>:40</i>	<i>1' 1/2"</i>	<i>16' 8 1/2"</i>	<i>1.04</i>	<i>3"</i>	<i>52</i>
	<i>:50</i>	<i>1' 3/4"</i>	<i>16' 8 3/4"</i>	<i>1.06</i>	<i>3"</i>	<i>52</i>
<i>3:00</i>	<i>:00 pm</i>	<i>1' 3/4"</i>	<i>16' 8 3/4"</i>		<i>3"</i>	<i>52</i>
	<i>:01</i>	<i>1' 4 1/2"</i>	<i>17' 1/2"</i>	<i>1.38</i>	<i>9"</i>	<i>76 = 10.16</i>
	<i>:02</i>	<i>1' 5 3/4"</i>	<i>17' 1 3/4"</i>	<i>1.48</i>	<i>9"</i>	<i>76</i>
	<i>:03</i>	<i>1' 6 1/4"</i>	<i>17' 2 1/4"</i>	<i>1.52</i>	<i>9"</i>	<i>76</i>
	<i>:04</i>	<i>1' 6 1/2"</i>	<i>17' 2 1/2"</i>	<i>1.54</i>	<i>9"</i>	<i>76</i>
	<i>:05</i>	<i>1' 6 3/4"</i>	<i>17' 2 3/4"</i>	<i>1.56</i>	<i>9"</i>	<i>76</i>
	<i>:10</i>	<i>1' 7"</i>	<i>17' 3"</i>	<i>1.58</i>	<i>9"</i>	<i>76</i>
	<i>:15</i>	<i>1' 7"</i>	<i>17' 3"</i>		<i>9"</i>	<i>76</i>
	<i>:20</i>	<i>1' 7 1/4"</i>	<i>17' 3 1/4"</i>	<i>1.6</i>	<i>9"</i>	<i>76</i>
	<i>:25</i>	<i>1' 7 1/4"</i>	<i>17' 3 1/4"</i>		<i>9"</i>	<i>76</i>
	<i>:30</i>	<i>1' 7 1/2"</i>	<i>17' 3 1/2"</i>	<i>1.8</i>	<i>9"</i>	<i>76</i>
	<i>:40</i>	<i>1' 7 1/2"</i>	<i>17' 3 1/2"</i>		<i>9"</i>	<i>76</i>
	<i>:50</i>	<i>1' 7 3/4"</i>	<i>17' 3 3/4"</i>	<i>2.0</i>	<i>9"</i>	<i>76</i>
<i>4:00</i>	<i>:00 pm</i>	<i>1' 7 3/4"</i>	<i>17' 3 3/4"</i>	<i>1.84</i>	<i>9"</i>	<i>76</i>
	<i>:01</i>	<i>1' 10 1/2"</i>	<i>17' 6 1/2"</i>	<i>1.88</i>	<i>16"</i>	<i>100 = 13.37</i>
	<i>:02</i>	<i>1' 11 1/2"</i>	<i>17' 7 1/2"</i>	<i>1.96</i>	<i>16"</i>	<i>100</i>
	<i>:03</i>	<i>2' 0"</i>	<i>17' 8"</i>	<i>2.0</i>	<i>16"</i>	<i>100</i>
	<i>:04</i>	<i>2' 1/4"</i>	<i>17' 8 1/4"</i>	<i>2.02</i>	<i>16"</i>	<i>100</i>
	<i>:05</i>	<i>2' 1/2"</i>	<i>17' 8 1/2"</i>	<i>2.04</i>	<i>16"</i>	<i>100</i>
	<i>:10</i>	<i>2' 3/4"</i>	<i>17' 8 3/4"</i>	<i>2.06</i>	<i>16"</i>	<i>100</i>
	<i>:15</i>	<i>2' 1"</i>	<i>17' 9"</i>	<i>2.08</i>	<i>16"</i>	<i>100</i>
	<i>:20</i>	<i>2' 1"</i>	<i>17' 9"</i>		<i>16"</i>	<i>100</i>
	<i>:25</i>	<i>2' 1 1/4"</i>	<i>17' 9 1/4"</i>	<i>2.1</i>	<i>16"</i>	<i>100</i>
	<i>:30</i>	<i>2' 1 1/4"</i>	<i>17' 9 1/4"</i>		<i>16"</i>	<i>100</i>
	<i>:40</i>	<i>2' 1 1/2"</i>	<i>17' 9 1/2"</i>	<i>2.12</i>	<i>16"</i>	<i>100</i>
	<i>:50</i>	<i>2' 1 1/2"</i>	<i>17' 9 1/2"</i>		<i>16"</i>	<i>100</i>

PUMPING TEST

City of La Compton
La Compton Kansas

DATE August 10th 1964

WELL NO. Two

TEST HOLE NO. 1-64

4 X 2 1/2 ORIFICE

0 INCH ON TAPE IS 15' 8" FT. TO BOTTOM OF ELECTRIC PROBE
MEASURED TO TOP OF 8 INCH CASING 1 FEET ABOVE GROUND LEVEL

DAY	TIME	TAPE READING	DEPTH TO WATER		INCHES ON ORIFICE	GPM
<u>5:40</u>	:00	<u>180</u>	<u>2' 1 1/2"</u>	<u>17' 9 1/2"</u>	<u>14"</u>	<u>100</u>
	:01	<u>5:30</u>	<u>2' 1 3/4"</u>	<u>17' 9 3/4"</u>	<u>16"</u>	<u>100</u>
	:02					
	:03					
	:04					
	:05					
	:10					
	:15					
	:20					
	:25					
	:30					
	:40					
	:50					
	:00	<u>pm</u>	<u>2' 2"</u>	<u>17' 10"</u>	<u>16"</u>	<u>100</u>
	:01	<u>1</u>	<u>2 1/2"</u>	<u>15' 10 1/2"</u>	<u>.21</u>	
	:02	<u>2</u>	<u>1"</u>	<u>15' 9"</u>	<u>.08</u>	
	:03	<u>3</u>	<u>1/2"</u>	<u>15' 8 1/2"</u>	<u>.04</u>	
	:04	<u>4</u>	<u>1/4"</u>	<u>15' 8 1/4"</u>	<u>.02</u>	
	:05	<u>5</u>	<u>0</u>	<u>15' 8"</u>		
	:10					
	:15					
	:20					
	:25					
	:30					
	:40					
	:50					
	:00					
	:01					
	:02					
	:03					
	:04					
	:05					
	:10					
	:15					
	:20					
	:25					
	:30					
	:40					
	:50					

7
recovery