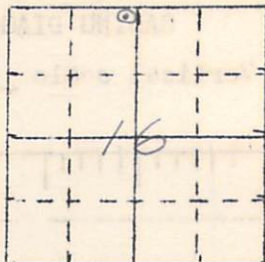


IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

W-1588

RECORD OF WELL



Location:

Town: Altoona (N E)
(S W); County Polk
NE/4-NW sec. 16 T. 19 N., R. 22 W. Beaver Twp.

Well name and number Vane Overturff

Owner _____ Address _____

Tenant C. W. Carr Address _____

Contractor Thorpe Well Co. Address Des Moines

Drillers Fred Souder

Drilling dates June 16, 1942 to July 7, 1942

Well data:

Elevations: Drilling curb 968' feet; Land surface _____ feet

Determined by K. E. A.

Topographic position _____

Total depth: Reported 229' feet; Measured _____ feet

Drilling method cable

Hole and casing data 164'4" of 6" casing set at 162'
(Give amount, size, kind, and depth of all casing; type and position of seals and packers; cementing; how finished--perforated pipe, screen, gravel pack, open hole, etc.)

Original depth to water _____ ^{above} 42 1/2 ft. below curb Date _____

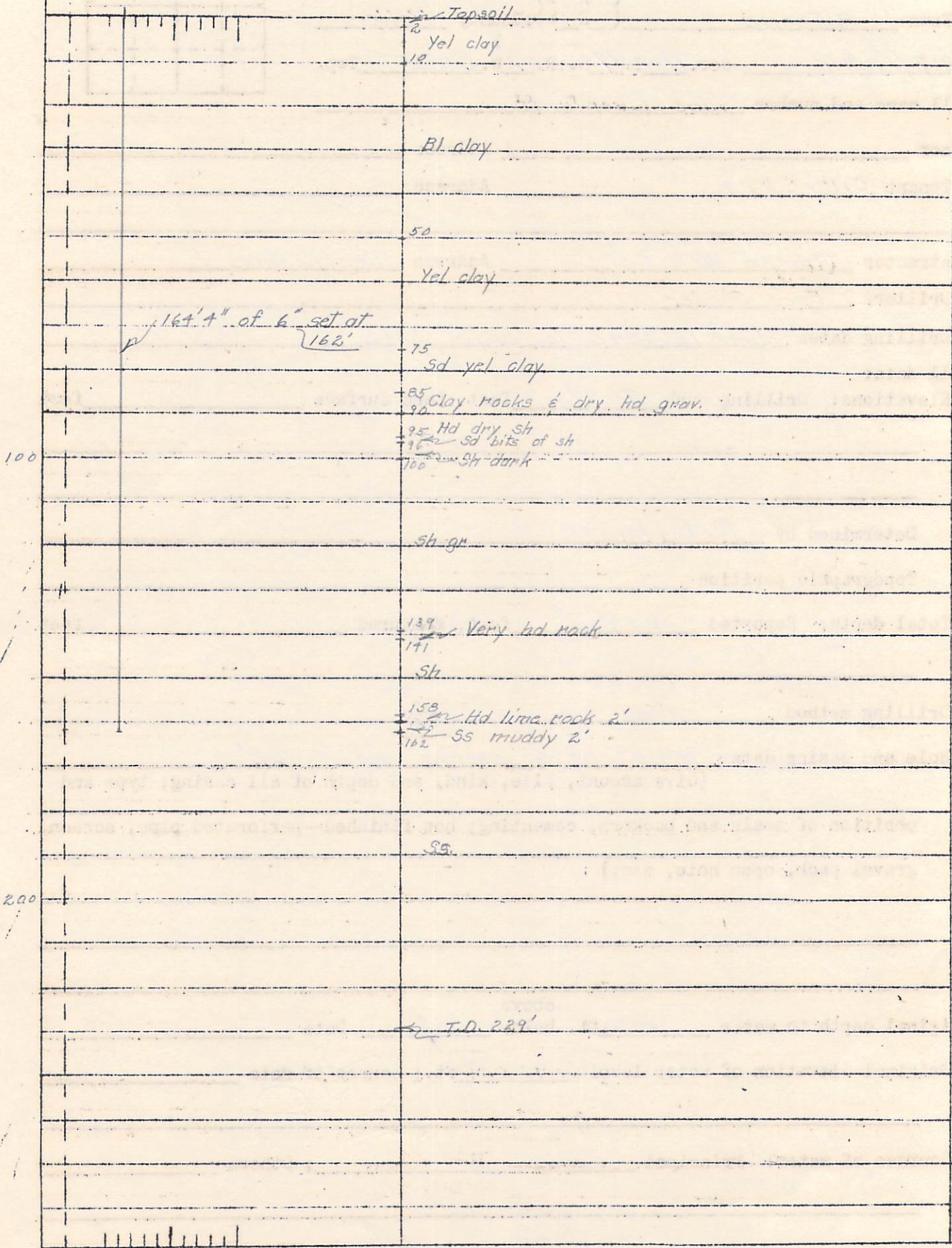
Original elevation of water level 925.5 ft.; Source of data _____

Sources of water: Principal Permeation; Others _____

CASING DIAGRAM

LOG

Vertical scale 1-space =



Production data: _____ Date _____
 Static depth to water 72 1/2' Measuring point _____
 Pumping level 97 1/2' at 10 g.p.m.

Specific capacity 5 1/2 g.p.m. per ft. drawdown; Temperature 54 °F.

Pump data; Type pump _____ Column Dia. _____ Length _____
 Cylinder or bowls: Dia. _____ Length _____ Suction pipe _____
 Power _____ Airline _____
 Estimated rate of production: _____ g.p.m. for _____ hrs. a day
 Use of water _____

WATER ANALYSES (in parts per million)

Date sampled	_____	_____	_____	_____
Sampled by	_____	_____	_____	_____
Total solids	_____	_____	_____	_____
Insoluble matter	_____	_____	_____	_____
Alkalinity (Meo)	_____	_____	_____	_____
Alkalinity (Phn)	_____	_____	_____	_____
pH	_____	_____	_____	_____
Fe ₂ O ₃ + Mn ₂ O ₃ +Al ₂ O ₃	_____	_____	_____	_____
Alkali as sodium	_____	_____	_____	_____
Calcium	_____	_____	_____	_____
Magnesium	_____	_____	_____	_____
Iron (unfiltered)	_____	_____	_____	_____
Manganese	_____	_____	_____	_____
Nitrate	_____	_____	_____	_____
Fluoride	_____	_____	_____	_____
Chloride	_____	_____	_____	_____
Sulfate	_____	_____	_____	_____
Bicarbonate	_____	_____	_____	_____
Hardness (ppm)	_____	_____	_____	_____
Hardness (gpg)	_____	_____	_____	_____
Remarks	_____			

Laboratory data: _____ Sample storage location EC8
 Sample range 0-229 No. spls. 51 No. dupls. & cond. 44 Poor
 Spls. prepared by Travis Washed range _____ by _____
 Driller's log and cond. no
 Insoluble residues: Prepared by _____ Studied by _____ Strip log _____
 Microscopic study 0-229 strip log Jan 17, 1957
 Gen. log _____ Correl. by Sm. Parker



Altoona (1N, 2 $\frac{1}{2}$ E) Polk Co.
 Overturf~~ff~~ farm
 Located: 2E, 1N, $\frac{1}{2}$ E

10-7-42

KEA

C.W. Carr, tenant

Thorpe Well Co., contractors

1:58	Bondurant sta CGW	976	-8	968
2:12	Farm	981	-13	968
2:19	Mitchelville sta. CRIP	980	-15	965

Loc: NE $\frac{1}{2}$ -NW-16-79-22-Beaver Twp.
 Elev: 968 ft.

Altoona (Polk County)
Vane Overturf farm well

Thorpe Well Co., Des Moines
6/16/42 to 7/7/42
Fred Souder, driller

T.D. 229 ft.
S.W.L. $42\frac{1}{2}$ ft.
Production: 10 g.p.m. with ~~50~~⁵⁵ ft. of drawdown

Casing: 164'4" of 6" set at 162 ft.
Temperature: 54° F.

Topsoil	0	to	2
Yellow clay	2	to	10
Blue clay	10	to	50
Yellow clay	50	to	75
Sandy yellow clay	75	to	85
Clay, rocks and dry, hard gravel	85	to	90
Hard dry shale	90	to	95
Sand, bits of shale	95	to	96
Shale, dark	96	to	100
Shale, gray	100	to	139
Very hard rock	139	to	141
Shale	141	to	158
Hard lime rock	158	to	160
Sandstone, muddy	160	to	162
Sandstone	162	to	229

IOWA GEOLOGICAL SURVEY
Water Well Data Sheet

Survey Number W-1588

Town Altoona County Polk T. ⁷⁹~~78~~ N., R. 22 W.

Name Overturf Farm Location NE/c $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 16

Contractor Thorp Driller _____ Use _____

Construction _____ Drilling Dates _____ Drilling _____

Topog. _____ Curb Elev. 968 Ref. _____ Total Depth 229'

Final above Static below Pumping _____ Draw _____ Time _____

Level 72 1/2' curb Level 284 down 55 gpm 10 pumped _____ Date _____

Depth to _____ Calc. g/ft. _____ Prin. _____

bot. pump _____ ft. with _____ ft. suction pipe. drawdown _____ Prod. _____

Producing _____

Horizons _____

Water levels and pumping tests on various horizons during drilling:

Depth Range	Stat. Level	Pump Level	Draw down	gpm.	Temp.	Producing horizons	Producing formations	Formations cased out

Additional information _____

Laboratory Data

Sample range 0-229 Number samples 51 Number Duplicates 44 Cond. Very poor to fair

Log No. 8/25/42 Boxed Travis Range 0-229 Date _____

Cond. _____

Remarks _____

Microscopic Study Range _____ Strip Log _____ Gen. Log _____ Blue Print _____ Samples Washed _____

Insol. Res. Study Range _____ Strip Log _____ Gen. Log _____ Insol. Res. Well _____

Prepared _____ Corel. Talley