#84-38

TEXAS DEPARTMENT OF WATER RESOURCES

WELL SCHEDULE

Aquifer(s) Cisco Group Project No. 6184 State Well No. 19-33-702

Field No./Owner's Well No. County JACK

1. Location: ___ ¼, ___ ¼, Section ___, Block ___, Survey ___, Lat. 33°24'49", Long. 97°58'38"

2. Owner: K.H. Barnes Address: 8456 Mary's Creek Dr., Ft. Worth 76116

Tenant (other): Address: 817-244-4571

Driller: Anderson Well Drilling Co. Address: Bridgeport

3. Land Surface Elevation: 1060 ft. above msl determined by Topo Map

4. Drilled: 4-20 19 83; Dug, Cable Tool, Rotary (Air)

5. Depth: Rept. 256 ft. Meas. 253 ft.

6. Borehole Completion: Open Hole, Straight Wall, Underreamed, (Gravel Packed)

7. Pump: Mfr. ___ Type NONE

No. Stages ___, Bowls Diam. ___ in., Setting ___ ft.

Column Diam. ___ in., Length Tailpipe ___ ft.

8. Motor: Mfr. ___ Fuel ___ HP. ___

9. Yield: Flow ___ gpm, Pump 6 gpm, Meas., (Rept), Est. ___ Date '83

10. Performance Test: Date ___ Length of Test ___ Made by ___

Static Level ___ ft. Pumping Level ___ ft. Drawdown ___ ft.

Production ___ gpm Specific Capacity ___ gpm/ft.

11. Quality: (Remarks on taste, odor, color, etc.) Field Qual. Fe 0.7 mg/l

Analyses Bailed Sample @ 208' pH 7.88 Tot. Alk. 270 mg/l

Date 2/16/84 Laboratory TDH TDS 4882 Sp Cond 9856

Date 12/22/83 Laboratory Bruner Corp TDS 177 g/gal as $CaCO_3$ Sp Cond ___

12. Other data available (as circled): Pumping Test, Power & Yield Test, (Drillers Log), Formation Samples, (Geophysical Log(s)) (type)

13. Water Level(s): 64 ft. rept. (meas.) 2/16 1984 (above) below CSD which is ___ ft. above below Land Surface

___ ft. rept. meas. ___ 19 ___ above below ___ which is ___ ft. above below Land Surface

14. Use: Dom., Stock, Public Supply, Ind., (Irr.), Observation, Other (Test Hole, Oil Test, etc.) Not used

15. Recorded by: D. Crim & P. Nordstrom Source of data: Mr. Barnes, Drillers Report Date:

16. Remarks: water pecan trees - but too salty for anything

17. Location or Sketch:

Permission to log call @ home

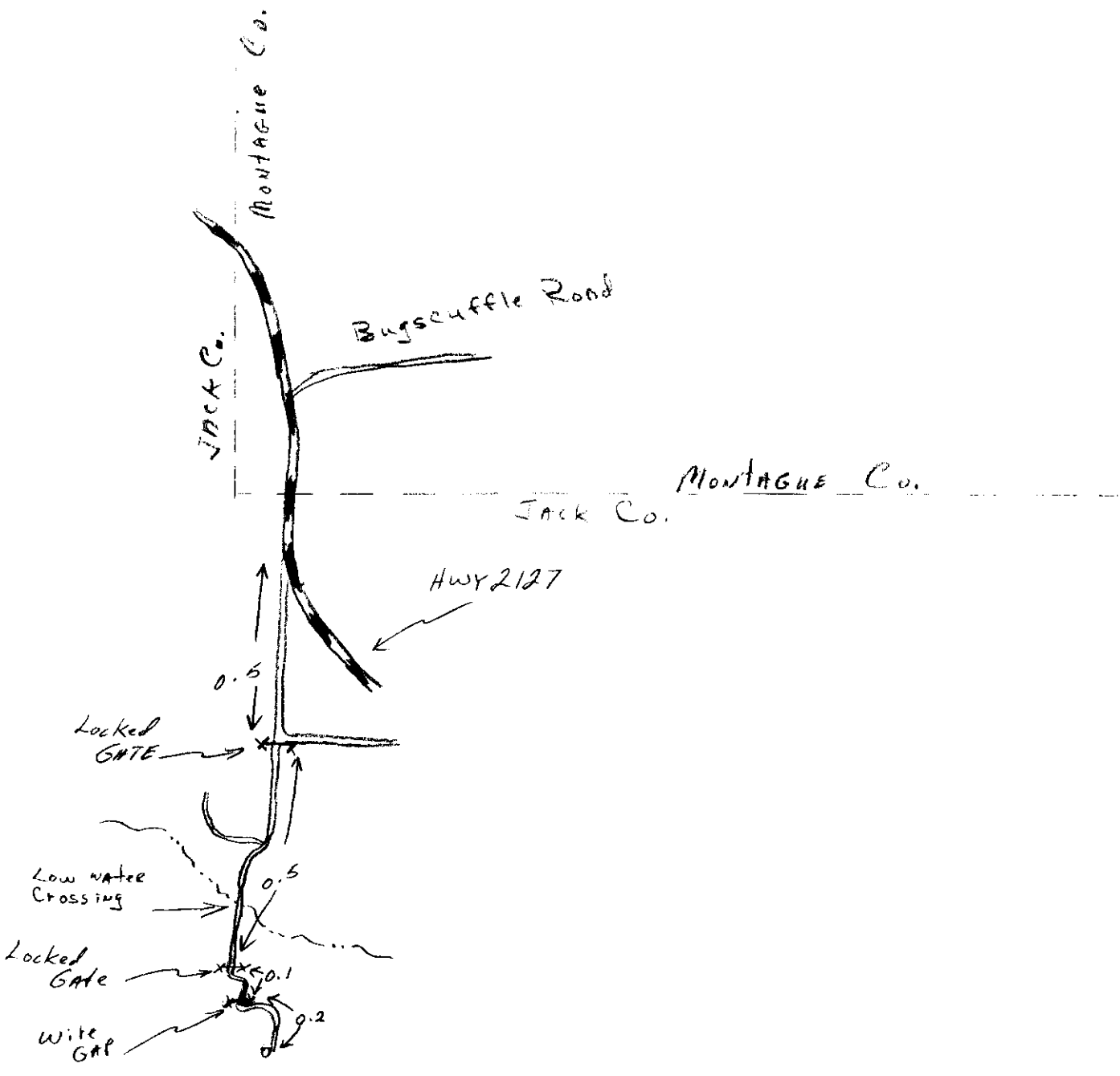
E-log

CASING, BLANK PIPE & WELL SCREEN Cemented From 0 ft. to 90 ft.			
Diam. (in.)	Type	Setting (feet) from	to
4	PVC	0	199
4	screen	199	216
4	blank	216	235
4	screen	235	256

W/L Obs. Well ___ W/Q Obs. Well ___

State Well No. 19-33-702

TDWR-0308


Montague Co.
Jack Co.
Bugscuffle Road
Montague Co.
Jack Co.
HWY 2127
0.5
Locked GATE
Low water Crossing
0.5
Locked Gate
0.1
0.2
Wire Gate

PL 19-33-702

20-40-7

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No.
Located on map
Received:

1) OWNER K.H. Barnes (Name) Address 8456 Mary's Creek Drive (Street or RFD) Ft. Worth (City), Tx. (State) 76116 (Zip)

2) LOCATION OF WELL: County Jack miles in (N.E., S.W., etc.) direction from (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. Block No. Township
Abstract No. Survey Name
Distance and direction from two intersecting section or survey lines

☒ See attached map.

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other

5) DRILLING METHOD (Check): ☐ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☒ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other

6) WELL LOG:

Date drilled 4-20-83

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
7"	Surface -0-	256'

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other
If Gravel Packed give interval . . . from 256 ft. to 90 ft.

From (ft.)	To (ft.)	Description and color of formation material
0	1	topsoil
1	3	red clay
3	4	yellow shale
4	7	sandrock
7	16	gray clay
16	26	brown shale
26	31	gray shale
31	35	limestone
35	39	gray shale
39	42	rock
42	139	gray shale
139	143	rock
143	183	~~black~~ gray shale
183	190	rock
190	199	gray clay(moist)
199	204	sandstone
204	211	gray shale
211	213	sandstone
213	232	gray shale
232	246	sandstone, fine sand, water
245	256	gray shale

(Use reverse side if n

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4"	New	Plastic above surface	256	18"	#200
4"	New	Plastic screen 1/8" slot	199	216	#200
			235	256	#200

CEMENTING DATA
Cemented from 90 ft. to ft.
Method used
Cemented by (Company or Individual)

9) WATER LEVEL:
Static level ft. below land surface Date
Artesian flow gpm. Date

10) PACKERS: Type Depth

Salty rpt. by Anderson

11) TYPE PUMP: ☐ Turbine none ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other
Depth to pump bowls, cylinder, jet, etc., ft.

12) WELL TESTS: ☐ Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 6-7 gpm with ft. drawdown after hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? Depth of strata
Was a chemical analysis made? ☐ Yes ☒ No

RECEIVED AUG 23 1983 DEPT. OF WATER RESOURCES

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME S.L. Anderson (Type or Print) Water Well Drillers Registration No. 1402

ADDRESS Box 638 Hwy 380E (Street or RFD) Bridgeport (City), Texas (State) 76026 (Zip)

(Signed) (Water Well Driller) Anderson Well Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

PL 19-33-702

TWR-0392 (Rev. 1-12-79) ENT OF RESOURCES COPY

NO. B-29335

bruner CORPORATION

5625 W. Clinton Avenue
Milwaukee, Wisconsin 53223

Date 12-22-83

CUSTOMER Ken Barnes
Marys Creek Dr.
orth, TX 76116

NO. OF PEOPLE 5

REPORTED PUMP CAPACITY, GPH 10 gpm

WATER SOURCE Private Well

DEALER
Anderson Drilling Co.
Box 638
Bridgeport, TX Zip 76026

JOBBER
Tri County P & E Supply Co.
500 N.W. Parkway
Azle, TX Zip 76020

HARDNESS Grains per Gallon		IRON Parts per Million	pH	SODIUM SALTS	TOTAL ALKALINITY	CHLORIDES	SULPHATES	TOTAL DISSOLVED SOLIDS	PHYSICAL APPEARANCE	WATER ANALYSIS No. and Description
Actual	Compensated*			Shown as Grains per Gallon ($CaCO_3$)						
12.0	30.3	9.15	8.10	165.0	14.8	128.5	33.4	177.0		B-29335

* Computed from Actual Hardness, Iron Content and Sodium Salts.

HARDNESS is due to the mineral salts of calcium and magnesium. They form scale and sludge in plumbing and water heaters, causing expensive repairs. Hard water increases soap consumption -- causes poor laundry work -- shortens the life of fabrics -- gives poor shampoos -- affects taste and tenderness of cooked foods.

ains everything -- clothing -- fabrics -- plumbing fixtures -- dishes -- henware. Iron spoils coffee, tea and mixed drinks. Iron should be moved if more than 0.2 parts per million.

RECOMMENDATION - excludes treatment for lawn faucets.

pH - indicates basic or acidic quality - pH 7.0 is neutral, above 7.0 is basic, below 7.0 is acidic. The lower the pH, the greater is the corrosive tendency of the water.

SODIUM SALTS affect the taste of a water but do not add to the hardness. Sodium salts cannot be removed by softening or filtering.

ALKALINITY, CHLORIDES and SULPHATES are not reported except as needed for our recommendation for treatment of this water supply.

TOTAL DISSOLVED SOLIDS are equal to the sum of alkalinity, chlorides and sulphates and are not removed by softening or filtering.

The above analysis shows a water which has an excessive concentration of mineral salts. There are no practical means to remove the mineral salts responsible for a salty taste. In view of the poor quality of this water, we do not feel any attempt at treatment would be practical. We regret to advise that we do not manufacture equipment which we would consider practical to install.

CUSTOMER'S COPY

PL 19-33-702

Len Tanel
BRUNER CORPORATION

The manufacturer is not liable for a recommendation which involves conditions beyond its control such as a non representative water sample, severe changes in water composition, or large amounts of iron sludge entering from a pressure tank or city water main. Iron sludge should be removed with a filter before softening.

FORM 1-123-80

FIELD ANALYSIS OF GROUND WATER SAMPLES

Data Collection and Evaluation Section
Texas Department of Water Resources
P.O. Box 13087
Austin, Texas 78711

County 119 JACK

State Well No. 19-33-702

Well No. _____

Date Collected 02-16-84

By Nordstrom

Owner K. Barnes

Well Location _____
(LAT/LON)

Date Drilled 4-20-83 Depth 256 ft

Temperature _____ °C
62.0 °F

WBF Cisco Group

Sampled after pumping Bailed (~~min/hrs.~~)

Point of collection well

Appearance ☒ clear ☐ turbid ☐ colored ☐ other

Use none Remarks turned salty, unable to use
was to irrigate
Pecan trees

CHEMICAL ANALYSIS

pH 07.88

Dissolved oxygen _____ MG/L

Phenolphthalein Alkalinity as $CaCO_3$ 0

Total Alkalinity as $CaCO_3$ 270 (135a, 50mls)

Total Iron 0.70 MG/L

(other) _____ MG/L

Calculations Using Alkalinity Determinations

Phena Alk. x .04 = ME/L CO_3
ME/L CO_3 x 30.005 MG/L CO_3
} CARBONATE

Tot. Alk. x .02 − ME/L CO_3 = ME/L HCO_3
ME/L HCO_3 x 61.017 MG/L HCO_3
} BICARBONATE

	MG/L	ME/L
Carbonate	0	0
Bicarbonate	329	5.40

Specific Conductance (micromhos/cm³) _____

TEXAS DEPARTMENT OF WATER RESOURCES

TDWR-0270

FILE NO. 84-38

GROUND WATER DIVISION

GAMMA & NEUTRON

COUNTY Jack STATE WELL NO. ~~20-40-6~~ 19-33-702 OWNER K. H. BARNES

LOCATION _____ WELL DEPTH 256'

LOG M.P. G.L. LOG T.D. 253' ELEVATION 1060 DATE 2-16-84 BY Crim

CASING DIA. 4" PVC FROM 0' TO 256' DIA. 4" Screen FROM 199' to 216' ~~TO~~ & 235' to 256'

HOLE DIA. _____ FROM _____ TO _____ DIA. _____ FROM _____ TO _____

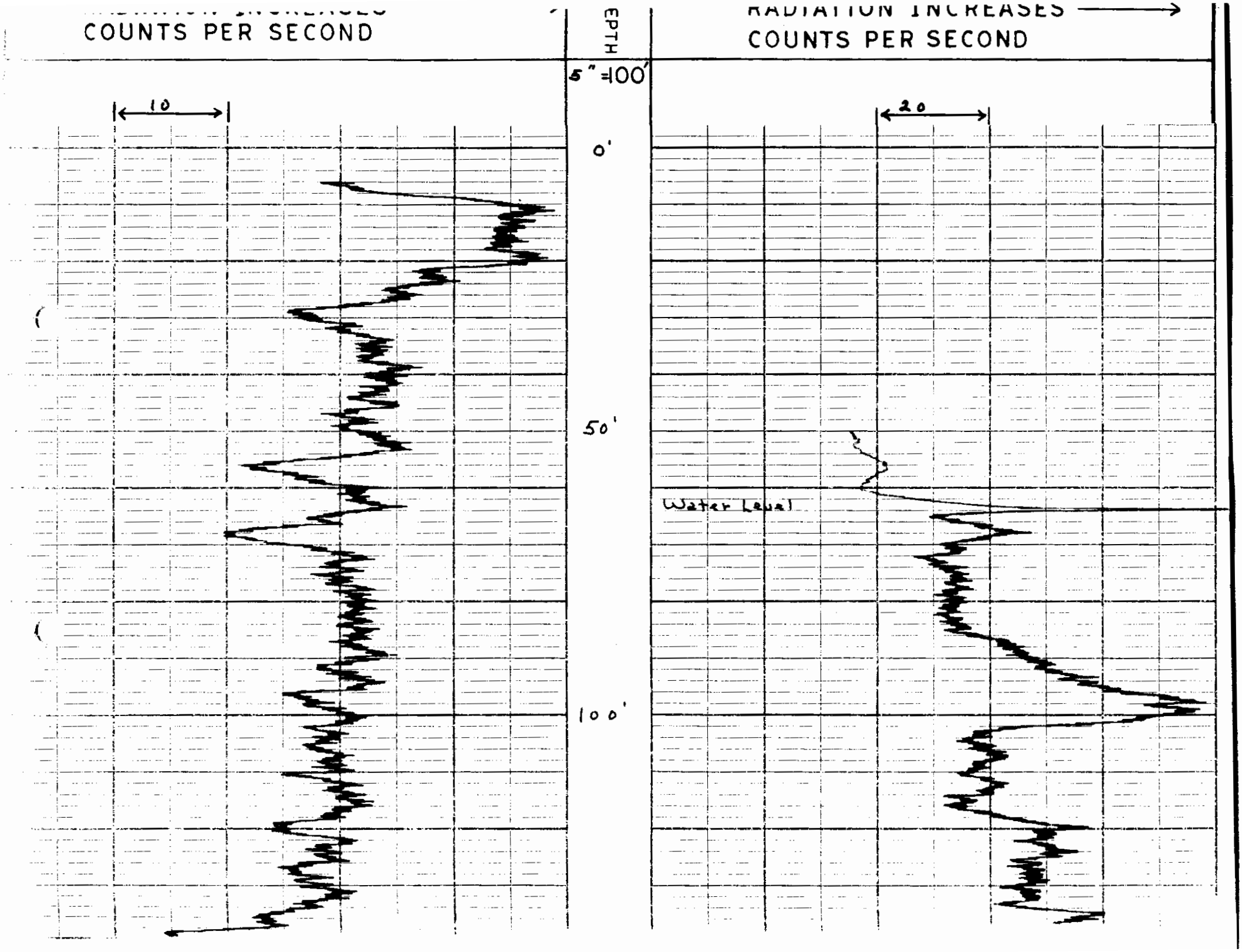
FLUID TYPE Water FLUID LEVEL 64' TEMPERATURE — °F

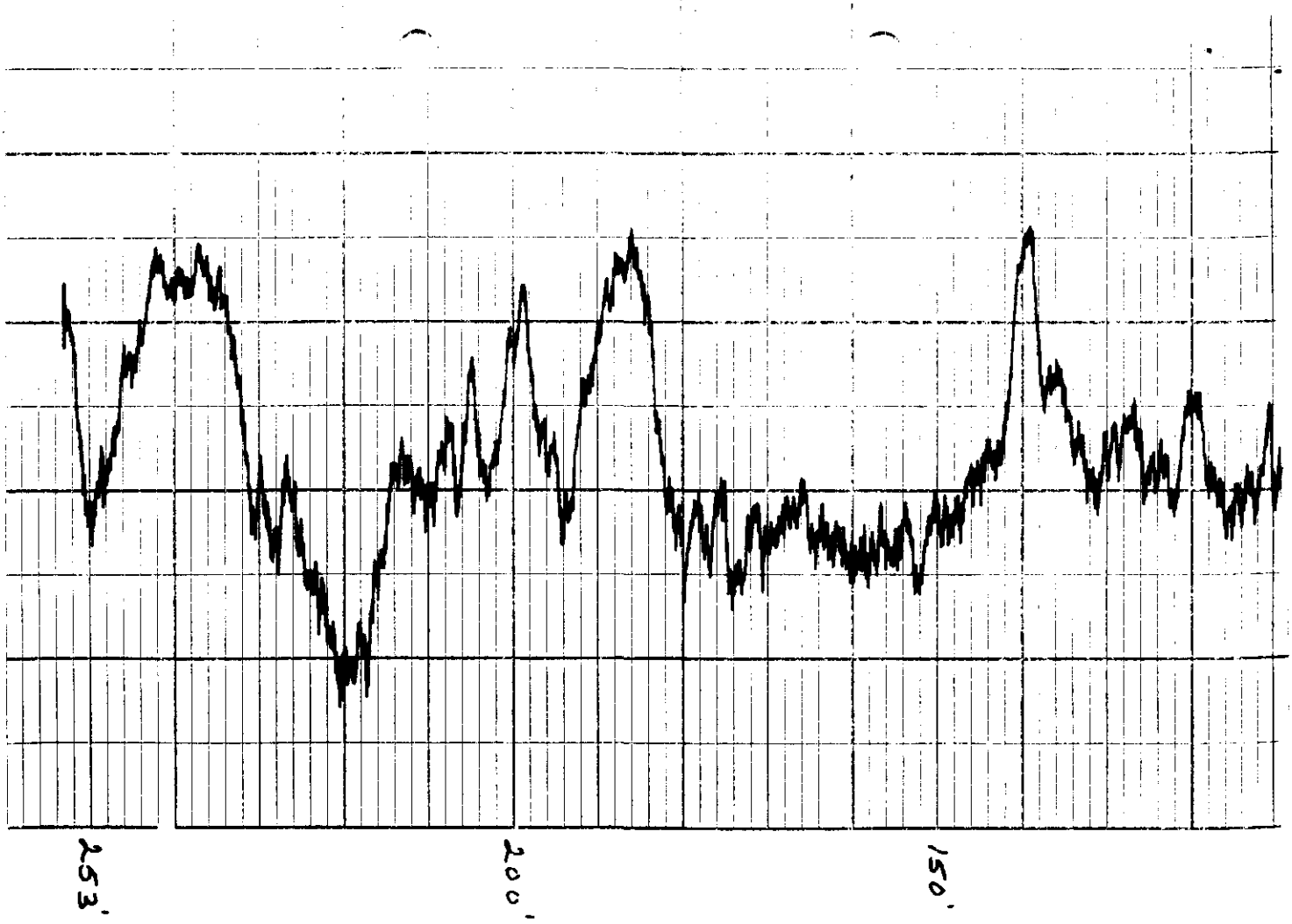
LOG SPEED 25' FT./MIN.

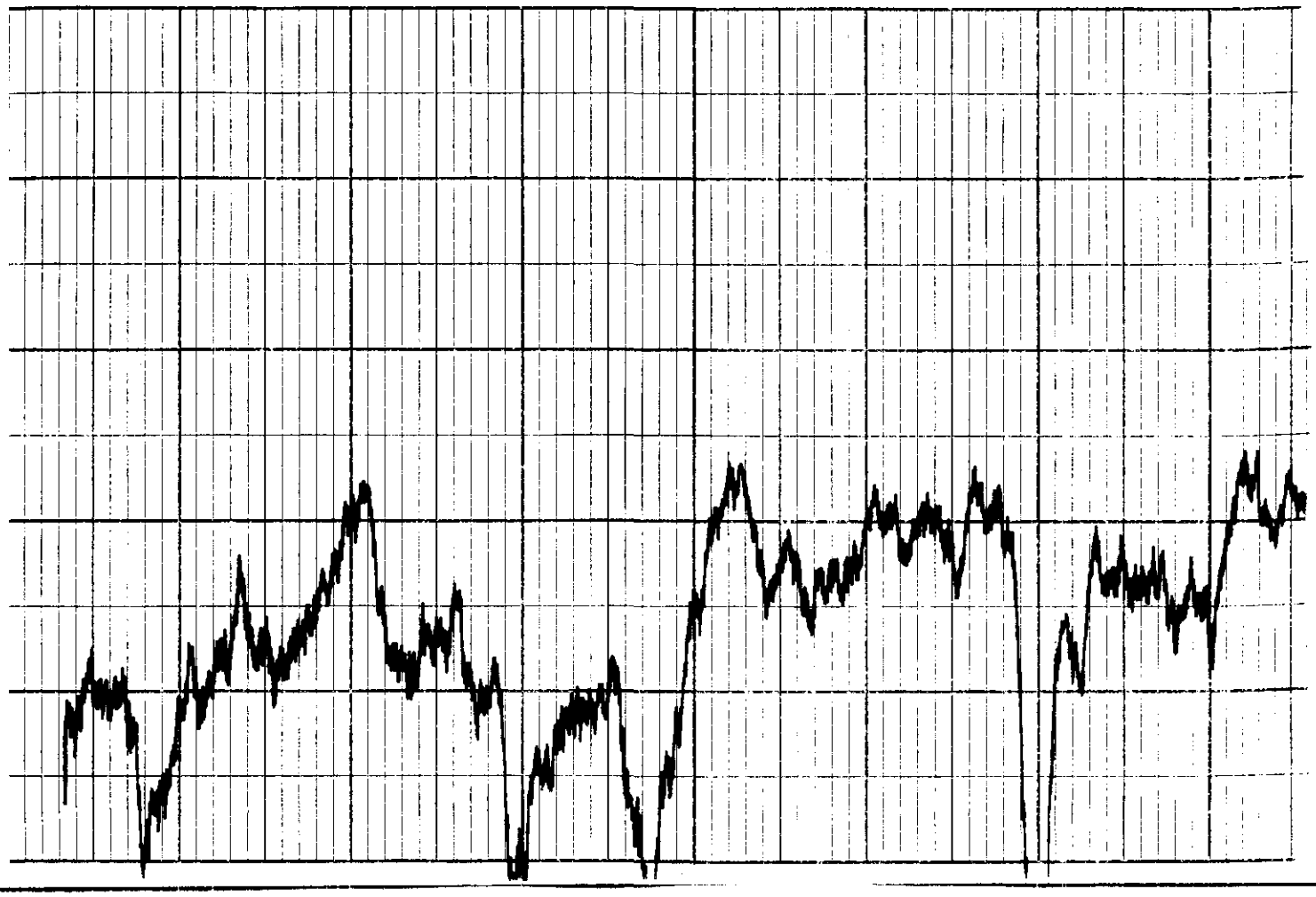
GAMMA RAY		NEUTRON	
50	COUNTS PER SECOND	100	V. SPAN —
4	TIME CONSTANT	4	POSITION —
	SOURCE SPACING	19"	AMbe 3 C.

REMARKS _____

GAMMA RAY		NEUTRON
RADIATION INCREASES → COUNTS PER SECOND	DEPTH	RADIATION INCREASES → COUNTS PER SECOND
	5" = 100'	


COUNTS PER SECOND
DEPTH
5" = 100'
10
0'
50'
100'
RADIATION INCREASES
COUNTS PER SECOND
20
Water Level


253'
200'
150'



Typewrite (Black ribbon) or Print Plainly
(soft pencil or black ink)
Do not use ball point pen

Texas Department of Health Laboratories
1100 West 49th Street
Austin, Texas 78756

TDWR ONLY
Organization No. 410 Lab No.
Work No. 6184

CHEMICAL WATER ANALYSIS REPORT

County 119 JACK

Send report to:

Data Collection and Evaluation Section
Texas Department of Water Resources
P.O. Box 13087
Austin, Texas 78711

State Well No. 19-33-702

Well No.

Date Collected 02-16-84

copy given to Bruce by P Nordstrom 4/11/84

Owner Ken Barnes ✓ Send copy to owner Sample No. By CRIM Nordstrom

Address 8456 Mary's Creek Dr., Ft. Worth, Tx 76116 Well Location 33°24'49" 97°58'38"

Date Drilled 4-20-83 Depth 256 ft. WBF CISCO GROUP Source (type of well) unused

Producing intervals 199-216, 235-256 Water level 64 ft. Sample depth ft.

Sampled after pumping Bailed ~~hrs.~~ Yield GPM meas. est. Temperature 62 °F °C

Point of collection Well csg Appearance ☐ clear ☐ turbid ☑ colored ☐ other

Use none Remarks well turned salty - 0.7 Fe by field test (orange)

(FOR LABORATORY USE ONLY)

Laboratory No. [redacted]

CHEMICAL ANALYSIS

KEY PUNCHED

Date Received FEB 28 1984 Date Reported MAR 15 1984

WATER ANALYSIS

State Well No. 19-33-702 Date: 031584 Sample No: EW4-1290

	MG/L	ME/L		MG/L	ME/L
Silica: 00955:	9		Carbonate: 00445:	0	0.00
Calcium: 00910:	52	2.62	Bicarbonate: 00440:	314	5.14
Magnesium: 00920:	16	1.32	Sulfate: 00945:	545	11.35
Sodium: 00929:	1803	78.39	Chloride: 00940:	2337	65.89
T. Cations		82.48	Fluoride: 00951:	1.1	0.06
Potassium: 00937:	6	0.15	Nitrate: 71850:	0.44	0.01
Manganese: 01055:		%Na	T. Anions		82.45
			pH: 00403:	8.3	
Boron: 01022:		SAR			
			180 deg TDS: 70300:	4882	
Total Iron: 01045:		RSC	P. Alk.: 00415:	0	
Other			T. Alk.: 00410:	257	
(Specific Cond.: 00095:		4870	T. Hardness: 00900:	197	

Diluted Conductance (micromhos/cm3)
56 x176 =9856

items will be analyzed if checked.

Ammonia-N: 00610:
Nitrite-N: 00615:
Nitrate-N: 00620:
OrganicNitrogen: 00605:

KEY PUNCHED

TDWR-0811 (Rev. 10-26-83)