

2

WELL INFORMATION SHEET

Well number

OKF -5

LOGGED

T.P. 1183.

BEWEEVED TO
Logging date

BR 2/10/82

County

Okeechobee

DEPPER.

Location

T 36S R 35E Sec. 26 1/4 1/4 1/4

Lat. 271855 Long. 0804825

Direction to well site

Take 441 North of Okee past Florida School for Boys. Turn right at Williamson Cattle Co sign. Follow road all the way past small bridge and go straight at fork. Drive to where other fork intersects

Special considerations

back and well is straight through gate.

POINT SAMPLES around 740 - 850 - and then a couple deeper

Surveys (circle each requested)

- Caliper
- Flowmeter
- 16-inch normal resistivity
- 64-inch normal resistivity
- Neutron porosity

- Natural gamma
- Fluid resistivity
- Gamma gamma density
- Casing collar locator
- Fluid sampler

- Temperature gradient
- Delta temperature
- Spontaneous potential
- Point resistance
- 6-foot lateral resistivity

Intervals to be logged; from Top ft to Bot ft from ___ ft to ___ ft; from ___ ft to ___ ft

Bed resolution ___ ft

Hole diameter, interval; dia ___ in from ___ ft to ___ ft; dia ___ in from ___ ft to ___ ft

Casing record, type ; dia ___ in from ___ ft to ___ ft; dia ___ in from ___ ft to ___ ft

Well owner

Frank Williamson, Jr.

Name of driller

phone number

Drilling method

Datum elevation

Borehole fluid

No. of dist. copies

2

Depth scale

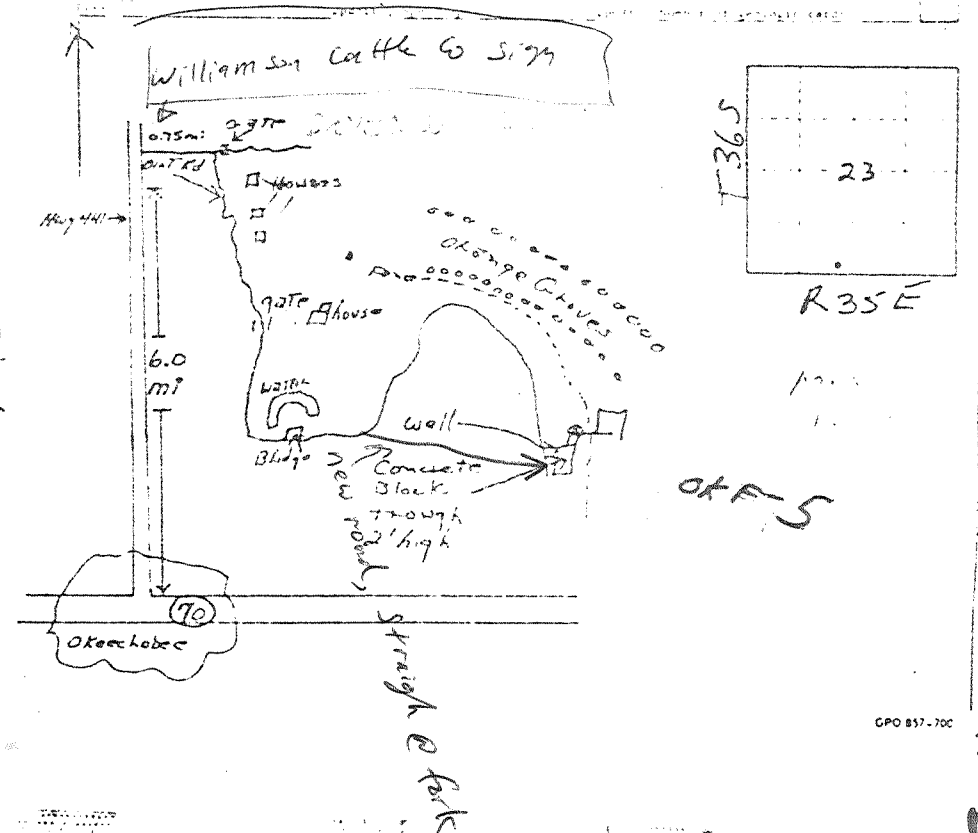
10 in/100 ft

(3-1-51) Taylor Creek SE Florida
 U.W. Fabella Obs Date: 5-23-67 7 1/2' quad - 1957
 Florida 0.9 Okeechobee 4.7
 27 19 0.0 N 0.8 0.4 8 2.0
 3 36 0.35 23 SE SE SW Tallahassee
 OK 21 3.4.4 OKZI
 36 S 35 E 23 Frank Williamson
 F Williamson Okeechobee, Fla.

Semi-Annually 5
 K x 10⁶ CI Partial
 Semi-Annually 5

DESCRIPTION CARD
 1182 1182 Rept 6
 461 460 6 6
 Jan. 1951 9 5 1
 M.M. Martin Okeechobee, Fla.
 Top of 6" CS9 that is 2.0
 30 30 5' contour interval 3
 6000 7 84 84 5-23-67 567

HYDROGEOLOGIC CARD
 Coastal Plain 0.3
 SECTION C Lake Okeechobee 1.0 B Inflow area 1
 Major Section Tertiary Eocene T E Floridan I F
 Lithology: Levensau ls 0.4 Marine 6
 Length of well open top 721 721
 Depth to top of aquifer 721 721
 Depth to bottom of aquifer 721 721



OKF-5

OWNER - FRANK WILLIAMSON JR.

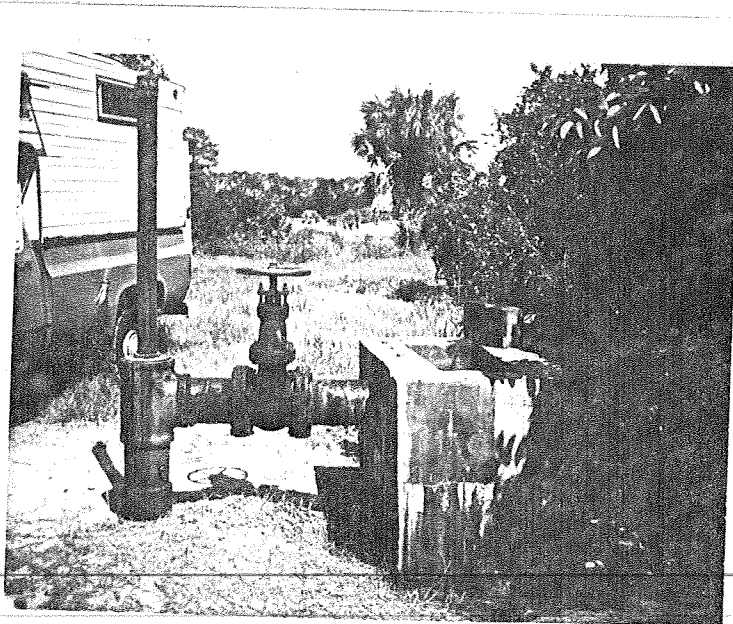
PERSON TO CONTACT -

INSTRUMENTS NEEDED - 8" Plumbers Plug, Thermometer, Boots, Pressure Gauge
USE A PITCOCK

FLOWING OR NON-FLOWING - FLOWING
CONDITION -

OKF-5 - HEAD NORTH ON U.S. 441 TO WILLIAMSON
CATTLE CO. Rd. THEN Right .52 mi THEN go TO
^{South} Right Again AND go 1.5 mi, The well is
LOCATED ON THE EAST side, 40' OFF ROAD.

ELEV - 32.72



MEMORANDUM

February 11, 1985

TO: Nagendra Khanal, Director, Groundwater Division
FROM: Sharon M. Trost, Hydrogeologist
SUBJECT: Williamson Cattle Company Request for Technical Assistance

Mr. Williamson has requested our assistance in determining the depth at which highly mineralized water is entering his artesian (Floridan Aquifer System) wells. Mr. Williamson has been a cooperater with the District for over 10 years, and two of the wells in our Floridan Aquifer System monitor network are located on his property.

One of these monitor wells (OKF-5) is on the property he refers to in his letter to Mr. Wodraska on 1/28/85. The well is 1,181 feet deep, with an 8 inch casing from 0-440 feet below land surface. We do have wellhead water quality data and geophysical logs of this well. The mean value (over a six year sampling period) of wellhead chlorides is 1,923 ppm and the mean value of wellhead total dissolved ^{all} solids is 4,187 ppm. This water is highly mineralized. We do have ~~some~~ geophysical surveys available for this well, but unfortunately the data is insufficient to answer his request.

If the District decides to satisfy Mr. Williamson's request, I recommend that we return to well OKF-5 and perform a fluid resistivity survey to determine the depth at which highly mineralized water enters the well. Mr. Williamson should be made aware of the fact that if he decides to "plug" his well throughout the poorer water quality region, he may risk a drastic reduction of flow since he may be plugging off major water producing zones.

Sharon M. Trost

Sharon M. Trost, Hydrogeologist
Groundwater Division
Resource Planning Department

SMT:hm

*Steve - please
go with point samples
as well*

- Sharon

sp cond 6879 umho/cm

3/18/85

Temp 27.05°C

February 12, 1985

Frank W. Williamson, Jr.
Williamson Cattle Company
P. O. Box 248
Okeechobee, FL 33472

Dear Mr. Williamson:

Thank you for your letter of January 28, 1985 requesting the District's assistance to log the artesian wells on your ranch. As you are aware, two of the monitor wells in our Floridan Aquifer monitoring program are located on your property.

One of these monitor wells (Well OKF-5) was logged by the District in February of 1982. Unfortunately, the resistivity survey, which is used to identify the zone at which the highly mineralized water enters the well, was ~~not~~ run during that time. We also need to know this zone of highly mineralized water for our research purposes. We will, therefore, revisit the monitor well OKF-5 and perform the resistivity survey. Our geophysicist will be contacting you shortly to make arrangements to perform this survey.

FR. WOODRASKA

The wellhead water quality data we have obtained from this well, over a six year period, indicates a mean chloride value of 1,923 mg/l and a mean total dissolved solid of 4,187 mg/l. Based on the above, this water is highly mineralized.

COND. -

Please be advised that you may risk a significant reduction in the natural flow rate from this well if you decide to "plug" the bottom portion of the borehole, since this will seal the major water producing zone.

Sincerely,

*POINT SAMPLES WERE
TAKEN; FLOWMETER,
A COMPLETE SET OF LOGS
WERE RUN OF THIS WELL.
JRW:nkm*

John R. Wodraska
Executive Director

CH04 PRINTOUT. PLEASE CHECK THE FOLLOWING VALUES, NOTE ANY CORRECTIONS, INITIAL AND RETURN TO DATA MANAGER. PRINTED 05/17/85

SAMPLE NUMBER	DATE MO/DA/YR	TIME HOUR/MIN	STATION CODE	UPSTR OR DOWNSTRM	DISCHRG CODE	WEATHER CODE	SAMPLE TYPE	SAMPLE NUMBER
KFL -0798	03/19/85	1400	OKF-5				02	
KFL -0799	03/19/85	1430	OKF-5				02	
KFL -0800	03/19/85	1500	OKF-5				02	
KFL -0801	03/19/85	1530	OKF-5				02	

SAMPLE NUMBER	DEPTH METERS	TEMP CENT.	D.O. MG/L	%SAT. DO PERCENT	SP COND UMHOS/CM	PH UNITS	SECCHI METERS
KFL -0798							
KFL -0799							
KFL -0800							
KFL -0801							

SAMPLE NUMBER	NA MG/L	K MG/L	CA MG/L	MG MG/L	CL MG/L	S04 MG/L	SI02 MG/L	ALK MEQ/L	ALKCAC03 MG/L	HARDNESS MG/LCACO
KFL -0798						493.000				
KFL -0799						526.000				
KFL -0800						273.250				
KFL -0801						255.750				

SAMPLE NUMBER	TDISS AL MICROG/L	TDISS AS MICROG/L	TDISS BA MICROG/L	TDISS CD MICROG/L	TDISS CR MICROG/L	TDISS CO MICROG/L	TDISS CU MICROG/L	TOTAL FE MG/L	TDISS FE MG/L	FE+2 MG/L
KFL -0798									0.124	
KFL -0799									0.097	
KFL -0800									0.068	
KFL -0801									0.072	

RESULTS OF CHEMICAL ANALYSES

DATE OF PRINTING 05/16/85

CH02 PRINTOUT FOR PROJECT LEADERS FILE

SAMPLE NUMBER	NA MG/L	K MG/L	CA MG/L	MG MG/L	CL MG/L	S04 MG/L	SI02 MG/L	ALK MEQ/L	ALKCAC03 MG/L	HARDNESS MG/LCACO
KFL -0798						493.000				
KFL -0799						526.000				
KFL -0800						273.250				
KFL -0801						255.750				

SAMPLE NUMBER	TDISS AL MICROG/L	TDISS AS MICROG/L	TDISS BA MICROG/L	TDISS CD MICROG/L	TDISS CR MICROG/L	TDISS CO MICROG/L	TDISS CU MICROG/L	TOTAL FE MG/L	TDISS FE MG/L	FE+2 MG/L
KFL -0798									0.124	
KFL -0799									0.097	
KFL -0800									0.068	
KFL -0801									0.072	

RESULTS OF CHEMICAL ANALYSES

DATE OF PRINTING 05/20/85

CH02 PRINTOUT FOR PROJECT LEADERS FILE

SAMPLE NUMBER	NA MG/L	K MG/L	CA MG/L	MG MG/L	CL MG/L	S04 MG/L	SI02 MG/L	ALK MEQ/L	ALKCAC03 MG/L	HARDNESS MG/LCACO
KFL -0798									85.200	
KFL -0799									86.100	
KFL -0800									87.300	
KFL -0801									85.800	

OKF-26,27

800', 725'

OKF 26 TD 800'

OKF 27 TD 725'

Cl 158 mg/l

151.3 mg/l

TDS 667 mg/l

633 mg/l

Sp Cond 994.5 $\mu\text{mho/cm}$

956 $\mu\text{mho/cm}$

CL

OKF-7 TD 963

OKF-S TD 1181

OKF-6 TD 872

37.

1923

247.

TDS 336.

4187

- 827.

Sp Cond 503.

6878

1278

.24 lenses

OKF-5

5/16/85

04 PRINTOUT. PLEASE CHECK THE FOLLOWING VALUES, NOTE ANY CORRECTIONS, INITIAL AND RETURN TO DATA MANAGER. PRINTED

SAMPLE NUMBER	NA MG/L	K MG/L	CA MG/L	MG MG/L	CL MG/L	SO4 MG/L	SI02 MG/L	ALK MEQ/L	ALKCAC03 MG/L	HARDNESS MG/LCACO
KFL -0798	1925.000	30.450	229.000	127.900						
KFL -0799	2117.500	33.250	248.500	198.300						
KFL -0800	2055.000	31.400	237.000	188.900						
KFL -0801	1970.000	31.450	234.000	187.200						

SAMPLE NUMBER	TDISS PB MICROG/L	TOTAL CR MICROG/L	TDISS LI MICROG/L	TDISS MN MICROG/L	TDISS NI MICROG/L	TDISS SE MICROG/L	TDISS AG MICROG/L	SI MG/L	TDISS SR MG/L	TDISS ZN MICROG/L
KFL -0798									38.650	
KFL -0799									44.730	
KFL -0800									40.850	
KFL -0801									37.750	

SAMPLE NUMBER	TDISS HG MICROG/L	F MG/L	SULFIDE MG/L	TOT COL CTS/.1 L	FEC COL CTS/.1 L	FEC STRP CTS/.1 L	FC/FS RATIO	BOD-5 MG/L	BOD-20 MG/L	COD MG/L
KFL -0798		0.980								
KFL -0799		0.610								
KFL -0800		0.610								
KFL -0801		0.610								

51 52 53 54 55 56 57 58

OKF-5

SQA

CH04 PRINTOUT. PLEASE CHECK THE FOLLOWING VALUES, NOTE ANY CORRECTIONS, INITIAL AND RETURN TO DATA MANAGER. PRINTED

SAMPLE NUMBER	NA MG/L	K MG/L	CA MG/L	MG MG/L	CL MG/L	S04 MG/L	SI02 MG/L	ALK MEQ/L	ALKCAC03 MG/L	HARDNESS MG/LCACO
KFL -0798					2002.500					
KFL -0799					2400.000					
KFL -0800					2115.000					
KFL -0801					2190.000					

WELL STATION IDENTIFICATION

FORM RP-37 - Rev. 10/78

PAGE 1 OF 2

(COMPLETE THIS FORM ONLY FOR THE INITIAL SURVEY OF EACH WELL)

WELL LOCATION CARD ONE

1	10	16	20	37	54	57	59	63	66	68	71
STATION I. D.	SURVEY DATE	CARD C	WELL NO.	COUNTY	LAT DEG	LAT MIN	LAT SEC	LONG DEG	LONG MIN	LONG SEC	
093000052	02/082	W11	OKF-5	KEECHICOBEE	027	18	55.00	080	48	25.00	

WELL LOCATION CARD TWO

1	17	20	37	39	42	45	61
STATION I. D.	SURVEY DATE	CARD C	QUARTERSECTIONS	SEC	TOWN-SHIP	RANGE	WATER MANAGEMENT DISTRICT PLANNING AREA
		W12	1/4; 1/4; 1/4	26	36S	35E	K.P.A.

WELL DATUM CARD

1	17	20	26	32	38	44	59
STATION I. D.	SURVEY DATE	CARD C	KELLY BUSH-ING (FEET)	LAND SUR-FACE (FT)	TOP OF CASING (FT)	OTHER (FT) (SEE NOTES)	DATUM (CHECK ONE)
		W21		30			MSL-; LS-; TOC-X

WELL OWNERSHIP CARD

1	17	20	37	54	57	64	80
STATION I. D.	SURVEY DATE	CARD C	NAME OF OWNER	GROVE/PROPERTY NAME	AREA CODE	TELEPHONE	WELL USE
		W31	WILLIAMSON				AGRICULTURAL

WELL ORIGIN CARD

1	17	20	37	54	71	76
STATION I. D.	SURVEY DATE	CARD C	DRILLER/ DRILLING COMPANY	OFFICE OF DRILLER (CITY)	DRILLING METHOD	DATE COMPLETED
		W41				

NOTES: COLUMNS 1-16 ARE DUPLICATED IN EACH CARD.
 COLUMN 16 IS AN ACTION CODE WITH THE FOLLOWING PERMISSABLE STATES - 1 (CREATE NEW RECORD),
 2 (CHANGE ALL VALUES), OR 9 (DELETE OLD RECORD).

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WELL STATION IDENTIFICATION

FORM RP-38 - Rev. 10/78

PAGE 2 OF 2

(COMPLETE THIS FORM ONLY FOR THE INITIAL SURVEY OF EACH WELL)

WELL DESCRIPTION - CONSTRUCTION CARD ONE

1	10	16	20	27	34	41	48	54	59	68
STATION I. D.	SURVEY DATE	CARD C	TOTAL DEPTH -DRILLER (FT)	TOTAL DEPTH -LOGGER (FT)	CASING DEPTH -DRILLER (FT)	CASING DEPTH -LOGGER (FT)	CASING I.D. (INCHES)	BIT SIZE (INCHES)	DRILLER LOG AVAIL.	
093000052	021082	W5.1		118.1		440	7.80		YES- ; NO-	

WELL DESCRIPTION - CONSTRUCTION CARD TWO

1	17	20	37	54	59	64	69	73
STATION I. D.	SURVEY DATE	CARD C	TYPE OF SCREEN	TYPE OF PACKING	DIA. OF SCREEN	SLOT SIZE (INCHES)	SCREEN BEGINS	SCREEN ENDS (FT)
		W5.2	OPEN HOLE					

WELL DESCRIPTION - CONFIGURATION CARD, SECTION ONE (TOP)

1	17	20	22	39	44	49	54	59	75
STATION I. D.	SURVEY DATE	CARD C	SEC	TYPE OF CASING	NOM. DIA. (INCHES)	BEGIN DEPTH	END DEPTH (FEET)	THICKNESS (INCHES)	TYPE OF ANNULUS FILL
		W6.10	0	STEEL	8.0	0	440	0.3	CEMENT

WELL DESCRIPTION - CONFIGURATION CARD, SECTION TWO

1	17	20	22	39	44	49	54	59	75
STATION I. D.	SURVEY DATE	CARD C	SEC	TYPE OF CASING	NOM. DIA. (INCHES)	BEGIN DEPTH	END DEPTH (FEET)	THICKNESS (INCHES)	TYPE OF ANNULUS FILL
		W6.20	2						

WELL DESCRIPTION - CONFIGURATION CARD, SECTION THREE

1	17	20	22	39	44	49	54	59	75
STATION I. D.	SURVEY DATE	CARD C	SEC	TYPE OF CASING	NOM. DIA. (INCHES)	BEGIN DEPTH	END DEPTH (FEET)	THICKNESS (INCHES)	TYPE OF ANNULUS FILL
		W6.30	3						

NOTES: COLUMNS 1-16 ARE DUPLICATED IN EACH CARD.
 COLUMN 16 IS AN ACTION CODE WITH THE FOLLOWING PERMISSABLE STATES - 1 (CREATE NEW RECORD),
 2 (CHANGE ALL VALUES), OR 9 (DELETE OLD RECORD).
 CARD TYPES <W64>, <W65>, <W69> MAY ALSO BE USED TO PROVIDE DATA FOR A TOTAL OF NINE SECTIONS.

W E L L S U R V E Y R E P O R T

FORM RP-39 -- Rev. 10/78

(USE ONE FORM/DAY/WELL)

SURVEY CARD

1	10	16	20	37	54	56	58	60	62	64	66	68	70	72
STATION	SURVEY	CARD	LOGGED BY	WITNESSED BY	*	*	*	*	*	*	*	*	*	*
I. D.	DATE	C			A	B	C	D	E	F	G	H	I	J
093.000052	02.10.82	W71	S. ANDERSON	P. DAUENHAUER	X	X	X	X	X	X	X	X	X	X

*INSERT AN <X> IN EACH COLUMN FOR WHICH A SURVEY WAS CONDUCTED. SURVEY CODES ARE LISTED BELOW:

A = CALIPER	F = NATURAL GAMMA	K = TEMPERATURE GRADIENT
B = FLOWMETER	G = FLUID RESISTIVITY	L = DELTA TEMPERATURE
C = 16-INCH NORMAL RESISTIVITY	H = GAMMA GAMMA DENSITY	M = SPONTANEOUS POTENTIAL
D = 64-INCH NORMAL RESISTIVITY	I = CASING COLLAR LOCATOR	N = POINT RESISTANCE
E = NEUTRON POROSITY	J = FLUID SAMPLER	O = 6-FOOT LATERAL RESISTIVITY

FLUID QUALITY CARD ONE

1	17	20	37	54	60	63
STATION	SURVEY	CARD	SAMPLE SOURCE	TYPE	DATE	TIME
I. D.	DATE	C	(WELLHEAD, ETC.)	FLUID	SAMPLED	SAMPLED
		W81	WELLHEAD	FORMATION WATER	02.10.82	1.40.0

FLUID QUALITY CARD TWO

1	17	20	25	32	35	41	47	53	60	64	70	75
STATION	SURVEY	CARD	TEMP. OF	C FIELD SP.	FIELD	CHLORIDE	DISSOLVED	SPEC. COND.	STATIC WATER	W/L REF	FLOW RATE	PUMP RATE
I. D.	DATE	C	SAMPLE	F GRAVITY	PH	(MG/L)	SOLIDS	(U-MHO/CM)	LEVEL (FEET)	FROM	(GAL/MIN)	(GAL/MIN)
		W82	82.6 °F			38.500		7.1760				

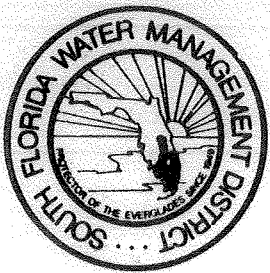
COMMENT CARDS

1	17	20	40	60	76
STATION	SURVEY	CARD	COMMENTS	COMMENTS	COMMENTS
I. D.	DATE	C	- LINE 1	- LINE 2	- LINE 3
		W91	FLOW AT BOTTOM OF	WELL, POINT SAMPLE	TAKEN AT VARYING

1	17	20	40	60	76
STATION	SURVEY	CARD	COMMENTS	COMMENTS	COMMENTS
I. D.	DATE	C	- LINE 4	- LINE 5	- LINE 6
		W92	DEPTH		

NOTES: COLUMNS 1-16 ARE DUPLICATED IN EACH CARD.
 COLUMN 16 IS AN ACTION CODE WITH THE FOLLOWING PERMISSABLE STATES - 1 (CREATE NEW RECORD),
 2 (CHANGE ALL VALUES), OR 9 (DELETE OLD RECORD).
 CARD TYPES <W93>, <W94>, <W99> MAY ALSO BE USED TO PROVIDE UP TO A TOTAL OF TWENTY-SEVEN COMMENT LINES.

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SOUTH FLORIDA WATER MANAGEMENT DISTRICT

FORM 60
Oct, 1977

WELL LOG

WELL LOCATION

County Okeechobee
Station I. D. 093000052
Date 02-10-82 Well No. OKF-5
Latitude 027°-18'-55" Longitude 080°-48'-25"
SE 1/4 SE 1/4 SW 1/4 Section 26 Township 36S Range 35E
Owner Williamson Phone _____
Driller _____ Date Drilled _____

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger _____ Other _____
T. Depth - Driller _____ T. Depth - Logger 1181'
Casing Depth Driller _____ Casing Depth Logger 440'
Bit Size _____ Casing Dia. I.D. 7.80"
Hole Dia. 8" From 0' To 1181' Dia. _____ From _____ To _____
Type of Casing STEEL Casing Thickness _____
Type of Screen Open Hole Screen Int. From _____ To _____
Type of Packing _____ Well Use Agricultural
Static Water Level _____ Date _____
Yield Flow _____ Pump _____

DATUM

K.B. _____ L.S. _____ T.O.C. 3.0'

FLUID QUALITY

Date 02-10-82 Time 1400 Source of Sample Well Head
Cl 3850.0 mg/l Type of Fluid Formation Water
Temp. 82.6°F ● Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. 7176.0 μmhos/cm
Logged By: S. Anderson Witnessed By: P. Dauenhauer

Comments: Flow at bottom of well/ Point
sample taken at various depths.

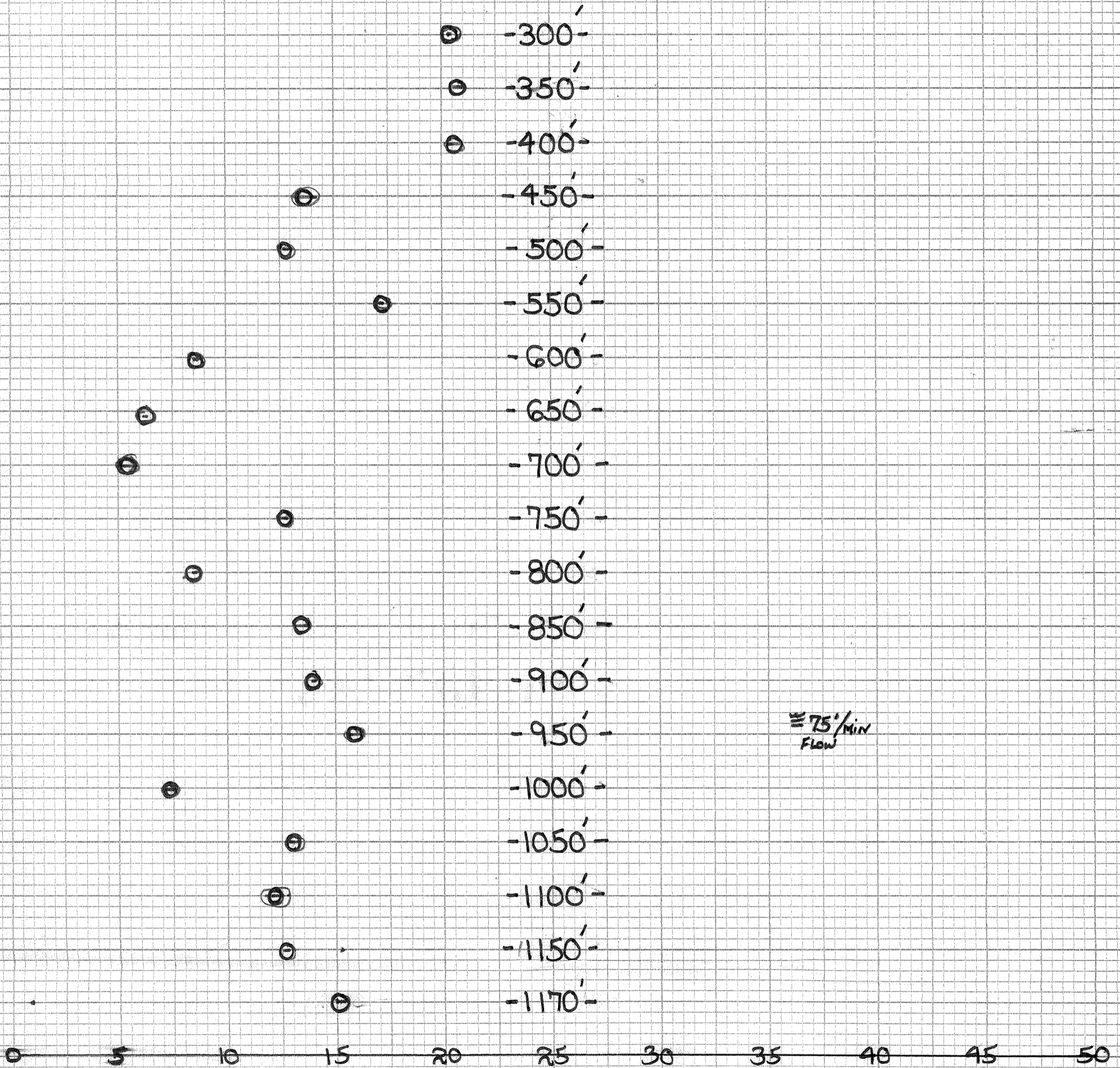
TYPE OF SURVEYS RUN

Lateral 6'	(X)	Density	()
Caliper	(X)	ccl	(X)
Flow meter	(X)	Fluid Sampler	(X)
16", 64" normals	(X)	Temperature	(X)
Neutron	(X)	Delta Temp.	(X)
Natural Gamma	(X)	SP	(X)
Fluid Resistivity	(X)		

FLOWMETER
OKF-5

Depth Check Points

50 CPS
T.C.-2



75'/MIN
FLOW

50 CPS
T.C.-2

OKF-5



WELL LOG

WELL LOCATION

County OKEECHOBEE
 Station I. D. 093000052
 Date 03/19/85 Well No. OKF-5
 Latitude 27-18-55" Longitude 80-48-25"
 SE 1/4 SE 1/4 Section 26 Township 36S Range 35E
 Owner WILLIAMSON Phone _____
 Driller _____ Date Drilled _____

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller _____ T. Depth - Logger 1181'
 Casing Depth Driller _____ Casing Depth Logger 440'
 Bit Size _____ Casing Dia. I.D. 7.8"
 Hole Dia. 8" From 0' To 1181' Dia. From _____ To _____
 Type of Casing STEEL Casing Thickness 0.2"
 Type of Screen OPEN HOLE Screen Int. From _____ To _____
 Type of Packing _____ Well Use AG
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

DATUM

K.B. _____ L.S. _____ T.O.C. +3.0'

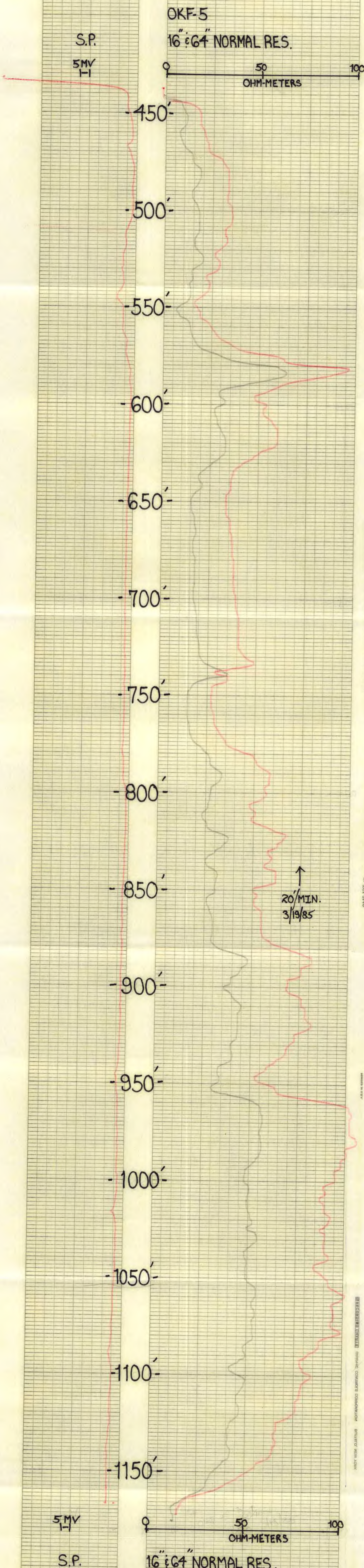
FLUID QUALITY

Date _____ Time _____ Source of Sample _____
 Cl _____ mg/l Type of Fluid _____
 Temp. _____ °C Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. _____ μmhos/cm
 Logged By: P. DAENHAUER Witnessed By: S. ANDERSON

Comments:

TYPE OF SURVEYS RUN

- | | | | |
|-------------------|-----|---------------|-----|
| Lateral 6' | () | Density | () |
| Caliper | () | cci | () |
| Flow meter | () | Fluid Sampler | () |
| 16", 64" normals | (X) | Temperature | () |
| Neutron | () | Delta Temp. | () |
| Natural Gamma | () | SP | (X) |
| Fluid Resistivity | (X) | | |



5 MV
1-1
S.P.

0 50 100
OHM-METERS
OKF-5
16" x 64" NORMAL RES.



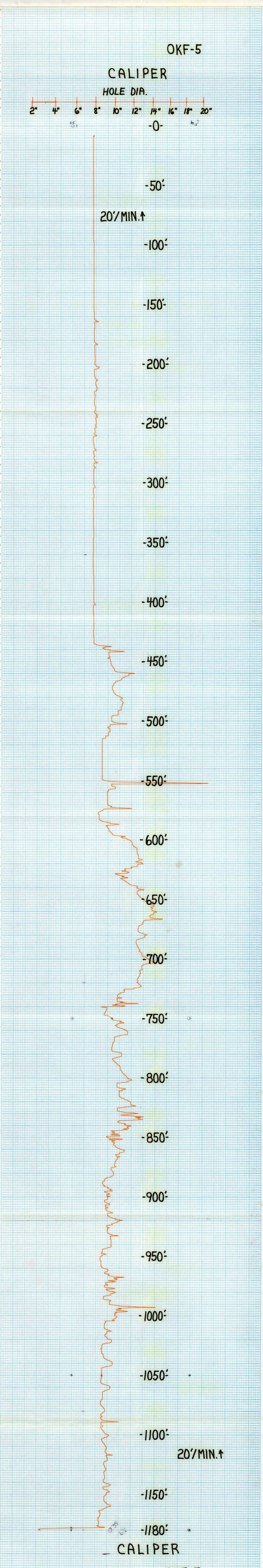
WELL LOG

WELL LOCATION
County Okeechobee
Station I. D. 093000052
Date 02-10-82 Well No. OKF-5
Latitude 027-18-55 Longitude 080-48-25
SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 26 Township 36S Range 35E
Owner Williamson Phone _____
Driller _____ Date Drilled _____

DATUM
K.B. _____ L.S. _____ T.O.C. 3.0
FLUID QUALITY
Date 02-10-82 Time 1400 Source of Sample Well Head
Cl 3850.0 mg/l Type of Fluid Formation Water
Temp. 82.6 °F Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. 7176.0 umhos/cm
Logged By: S. Anderson Witnessed By: P. Daubauer
Comments: Flow at bottom of well / Point
sample taken at various depths.

WELL CONSTRUCTION
Drilling Method: Rot. Air CT Auger Other _____
T. Depth - Driller _____ T. Depth - Logger 1181
Casing Depth Driller _____ Casing Depth Logger 440
Bit Size _____ Casing Dia. I.D. 7.80
Hole Dia. 8 From 0 To 1181 Dia. From _____ To _____
Type of Casing STEEL Casing Thickness _____
Type of Screen Open Hole Screen Int. From _____ To _____
Type of Packing _____ Well Use Agricultural
Static Water Level _____ Date _____
Yield Flow _____ Pump _____

TYPE OF SURVEYS RUN
Lateral 6'
Caliper
Flow meter
16", 64" normals
Neutron
Natural Gamma
Fluid Resistivity
Density
Sol
Fluid Sampler
Temperature
Delta Temp.
SP



6339
REGISTERED SERVICE MARK
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
MADE IN U.S.A.



WELL LOG

WELL LOCATION

County Okeechobee
Station I. D. 093000052
Date 02-10-82 Well No. OKF-5
Latitude 027-18-55 Longitude 080-48-25
SE 1/4 SW 1/4 Section 26 Township 36S Range 35E
Owner Williamson Phone _____
Driller _____ Date Drilled _____

DATUM

K.B. _____ L.S. _____ T.O.C. 3.0

FLUID QUALITY

Date 02-10-82 Time 1400 Source of Sample Well Head
Cl 3850.0 mg/l Type of Fluid Formation Water
Temp. 82.6 °F Field Density _____ °C
T.D.S. _____ mg/l Spec. Cond. 7176.0 umhos/cm
Logged By: S. Anderson Witnessed By: P. Dauchauer

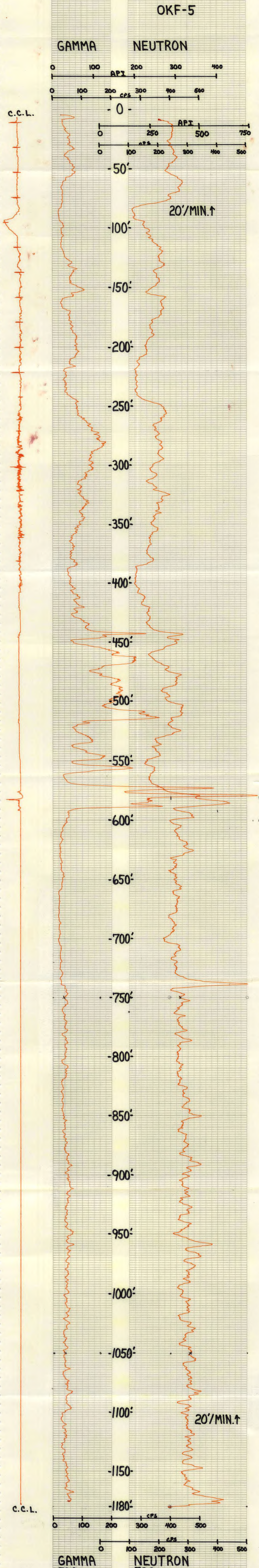
WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
T. Depth - Driller _____ T. Depth - Logger 1181
Casing Depth Driller _____ Casing Depth Logger _____
Bit Size _____ Casing Dia. I.D. 7.80
Hole Dia. 8 From 0 To 1181 Dia. From _____ To _____
Type of Casing STEEL Casing Thickness _____
Type of Screen Open Hole Screen Int. From _____ To _____
Type of Packing _____ Well Use Agricultural
Static Water Level _____ Date _____
Yield Flow _____ Pump _____

Comments: Flow at bottom of well / Point
Sample taken at various depths.

TYPE OF SURVEYS RUN

Lateral Caliper (X) Density ()
Flow meter (X) Fluid Sampler (X)
16" 64" normals (X) Temperature (X)
Neutron (X) Delta Temp. (X)
Natural Gamma (X) SP (X)
Fluid Resistivity (X)



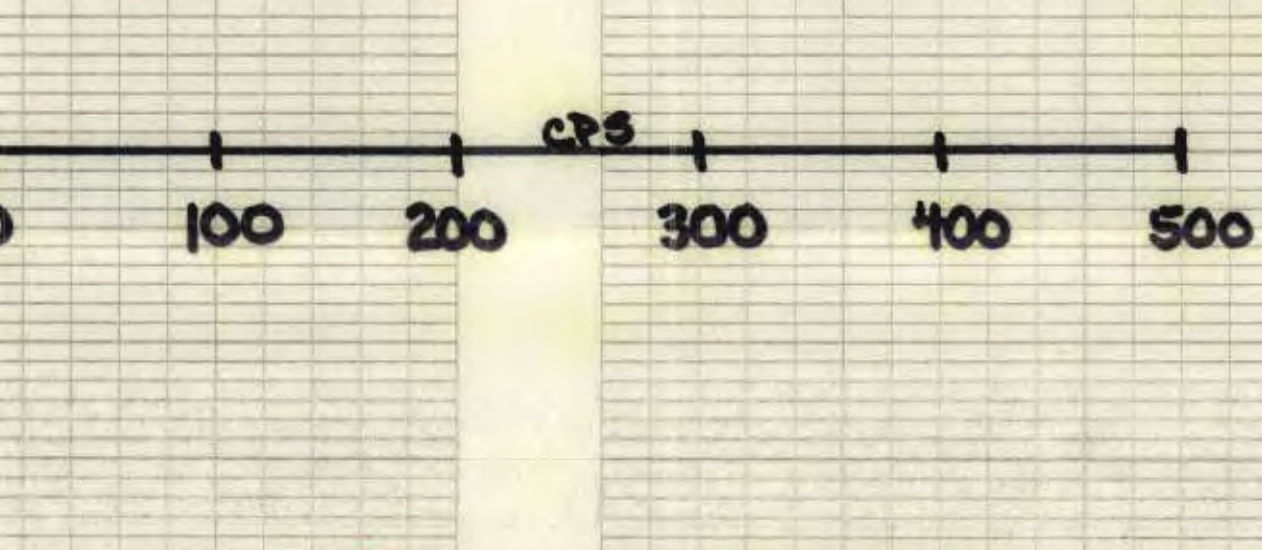
GAMMA
500 cps
T.C.-2

NEUTRON
500 cps
T.C.-3

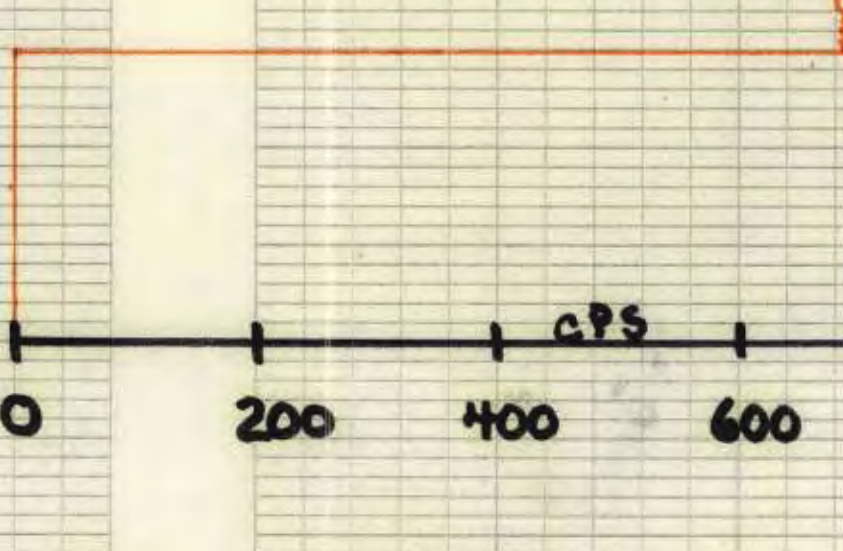
OKF-5

1000 API

GAMMA CAL.
500 cps
T.C.-2



NEUTRON CAL.
1000 cps
T.C.-3





WELL LOG

WELL LOCATION

County Okeechobee
 Station I. D. 093000052
 Date 02-10-82 Well No. OKF-5
 Latitude 027°-18'-55" Longitude 080°-48'-25"
 SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 26 Township 36S Range 35E
 Owner Williamson Phone _____
 Driller _____ Date Drilled _____
 WELL CONSTRUCTION
 Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller _____ T. Depth - Logger 1181'
 Casing Depth Driller _____ Casing Depth Logger 440'
 Bit Size _____ Casing Dia. I.D. 7.80"
 Hole Dia. 8" From 0' To 1181' Dia. From _____ To _____
 Type of Casing STEEL Casing Thickness _____
 Type of Screer Open Hole Screen Int. From _____ To _____
 Type of Packing _____ Well Use Agricultural
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

DATUM

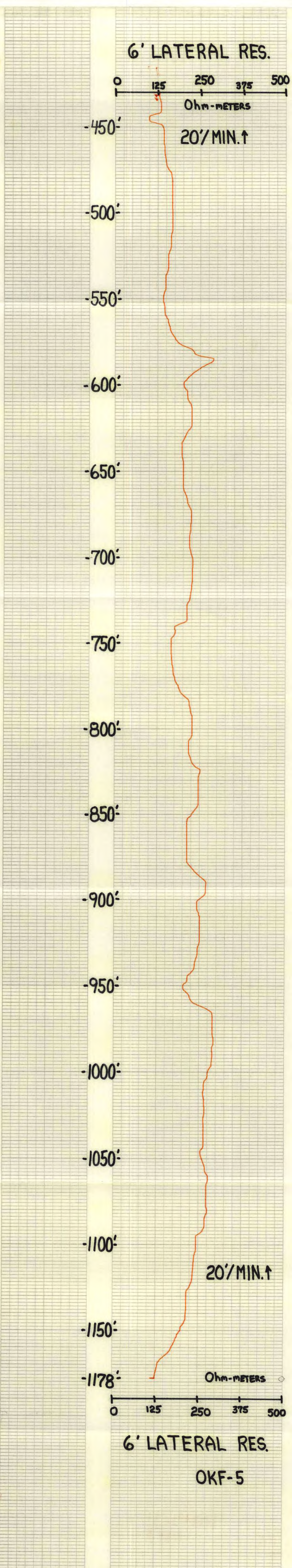
K.B. _____ L.S. _____ T.O.C. 3.0'

FLUID QUALITY

Date 02-10-82 Time 1400 Source of Sample Well Head
 Cl 3850.0 mg/l Type of Fluid Formation Water
 Temp. 82.6°F Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. 7176.0 μ mhos/cm
 Logged By: S. Anderson Witnessed By: P. Dauenhauer
 Comments: Flow at bottom of well/ Point sample taken at various depths.

TYPE OF SURVEYS RUN

Lateral 6'	<input checked="" type="checkbox"/>	Density	()
Caliper	<input checked="" type="checkbox"/>	cel	<input checked="" type="checkbox"/>
Flow meter	<input checked="" type="checkbox"/>	Fluid Sampler	<input checked="" type="checkbox"/>
16", 64" normals	<input checked="" type="checkbox"/>	Temperature	<input checked="" type="checkbox"/>
Neutron	<input checked="" type="checkbox"/>	Delta Temp.	<input checked="" type="checkbox"/>
Natural Gamma	<input checked="" type="checkbox"/>	SP	<input checked="" type="checkbox"/>
Fluid Resistivity	<input checked="" type="checkbox"/>		





WELL LOG

WELL LOCATION

County Okeechobee
 Station I. D. 093000052
 Date 02-10-82 Well No. OKF-5
 Latitude 027-18-55" Longitude 080-48-25"
 SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 26 Township 36S Range 35E
 Owner Williamson Phone _____
 Driller _____ Date Drilled _____
 Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller _____ T. Depth - Logger 1181'
 Casing Depth Driller _____ Casing Depth Logger 440'
 Bit Size _____ Casing Dia. I.D. 7.80"
 Hole Dia. 3" From 0' To 1181' Dia. _____ From _____ To _____
 Type of Casing STEEL Casing Thickness _____
 Type of Screen Open Hole Screen Int. From _____ To _____
 Type of Packing _____ Well Use Agricultural
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

DATUM

K.B. _____ L.S. _____ T.O.C. 3.0'

FLUID QUALITY

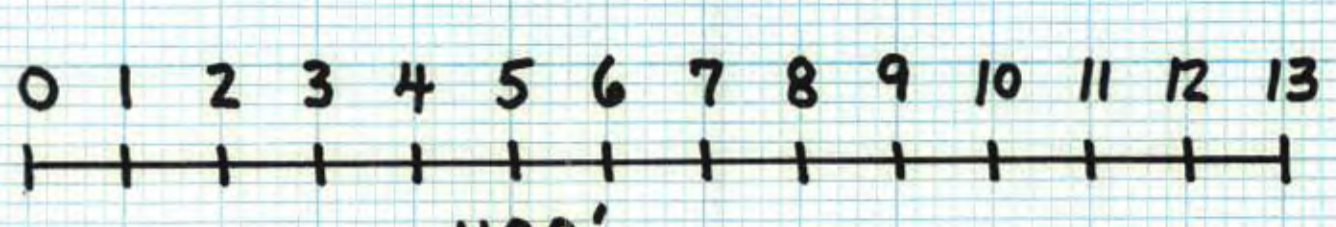
Date 02-10-82 Time 1400 Source of Sample Well Head
 Cl 3850.0 mg/l Type of Fluid Formation Water
 Temp. 82.6°F Field Density @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. 7176.0 umhos/cm
 Logged By: S. Anderson Witnessed By: P. Dauchauer
 Comments: Flow at bottom of well/ Point
sample taken at various depths.

TYPE OF SURVEYS RUN

- | | | | |
|-------------------|-------------------------------------|---------------|-------------------------------------|
| Lateral 6' | <input checked="" type="checkbox"/> | Density | () |
| Caliper | <input checked="" type="checkbox"/> | cci | <input checked="" type="checkbox"/> |
| Flow meter | <input checked="" type="checkbox"/> | Fluid Sampler | <input checked="" type="checkbox"/> |
| 16", 64" normals | <input checked="" type="checkbox"/> | Temperature | <input checked="" type="checkbox"/> |
| Neutron | <input checked="" type="checkbox"/> | Delta Temp. | <input checked="" type="checkbox"/> |
| Natural Gamma | <input checked="" type="checkbox"/> | SP | <input checked="" type="checkbox"/> |
| Fluid Resistivity | <input checked="" type="checkbox"/> | | |

OKF-5

FLUID RESISTIVITY



-400'

Ohm-METERS

-450'

20'/MIN. ↓

-500'

-550'

-600'

-650'

-700'

-750'

-800'

-850'

-900'

-950'

-1000'

-1050'

-1100'

20'/MIN. ↓

-1150'

-1180'

Ohm-METERS



FLUID RESISTIVITY

OKF-5

RECORDED BY: _____ GRAPHIC CONTROLS CORPORATION - BUFFALO, NEW YORK
 6339
 MADE IN U.S.A.
 RECORDED BY: _____ GRAPHIC CONTROLS CORPORATION - BUFFALO, NEW YORK
 6339
 MADE IN U.S.A.



WELL LOG

WELL LOCATION

County OKEECHOBEE
Station I. D. 093000052
Date 03/19/85 Well No. OKF-5
Latitude 27°-18'-55" Longitude 80°-48'-25"
SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 26 Township 36S Range 35E
Owner WILLIAMSON Phone _____
Driller _____ Date Drilled _____

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
T. Depth - Driller _____ T. Depth - Logger 1181'
Casing Depth Driller _____ Casing Depth Logger 440'
Bit Size _____ Casing Dia. I.D. 7.8"
Hole Dia. 8" From 0' To 1181' Dia. From _____ To _____
Type of Casing STEEL Casing Thickness 0.2"
Type of Screen OPENHOLE Screen Int. From _____ To _____
Type of Packing _____ Well Use AG
Static Water Level _____ Date _____
Yield Flow _____ Pump _____

DATUM

K.B. _____ L.S. _____ T.O.C. +3.0'

FLUID QUALITY

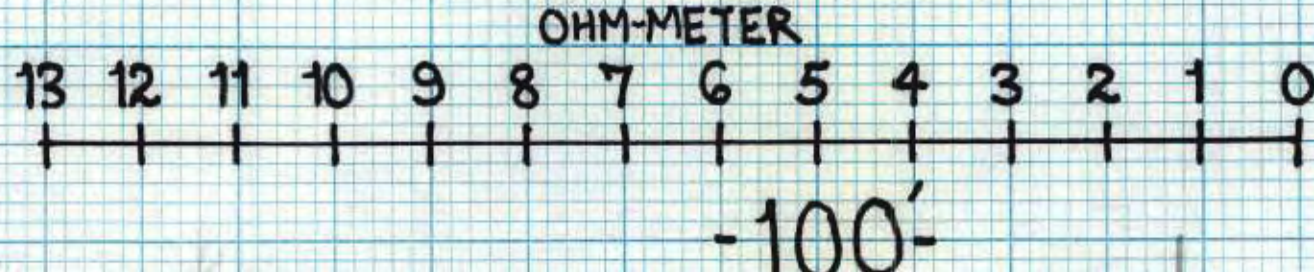
Date _____ Time _____ Source of Sample _____
Cl _____ mg/l Type of Fluid _____
Temp. _____ °C Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. _____ μ mhos/cm

Logged By: P. DAUENHAUER Witnessed By: S. ANDERSON
Comments: _____

TYPE OF SURVEYS RUN

Lateral 6" () Density ()
Caliper () Oct ()
Flow meter () Fluid Sampler ()
16", 64" normals (x) Temperature ()
Neutron () Delta Temp. ()
Natural Gamma () SP (x)
Fluid Resistivity (x)

OKF-5
FLUID RESISTIVITY



-100'

-150'

-200'

-250'

-300'

-350'

-400'

-450'

-500'

-550'

-600'

3/13/85
20'/MIN.
↓

-650'

-700'

-750'

-800'

-850

-900'

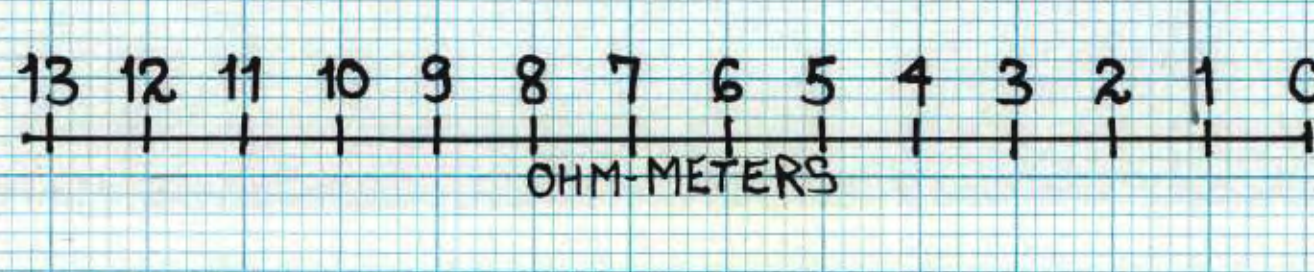
-950'

-1000'

-1050'

-1100'

-1150'





WELL LOG

WELL LOCATION
 County Okeechobee
 Station I. D. 093000052
 Date 02-10-82 Well No. OKF-5
 Latitude 027-18-55 Longitude 080-48-25
SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 26 Township 36S Range 35E
 Owner Williamson Phone _____
 Driller _____ Date Drilled _____

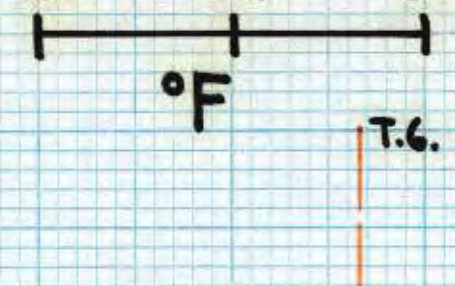
WELL CONSTRUCTION
 Drilling Method: Rot Air CT Auger Other _____
 T. Depth - Driller _____ T. Depth - Logger 1181
 Casing Depth Driller _____ Casing Depth Logger 440
 Bit Size _____ Casing Dia. I.D. 7.50
 Hole Dia. 8" From 0' To 1181' Dia. From _____ To _____
 Type of Casing STEEL Casing Thickness _____
 Type of Screen Open Hole Screen Int. From _____ To _____
 Type of Packing _____ Well Use Agricultural
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

DATUM
 K.B. _____ L.S. _____ T.O.C. 3.0
 FLUID QUALITY
 Date 02-10-82 Time 1400 Source of Sample Well Head
 Cl 3850.0 mg/l Type of Fluid Formation Water
 Temp. 82.6°F Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. 7176.0 umhos/cm
 Logged By: S. Anderson Witnessed By: P. Dauchauer
 Comments: Flow at bottom of well/ Point
sample taken at various depths.

TYPE OF SURVEYS RUN
 Lateral 6'
 Caliper
 Flow meter
 16", 64" normals
 Neutron
 Natural Gamma
 Fluid Resistivity
 Density ccl
 Fluid Sampler
 Temperature
 Delta Temp.
 SP

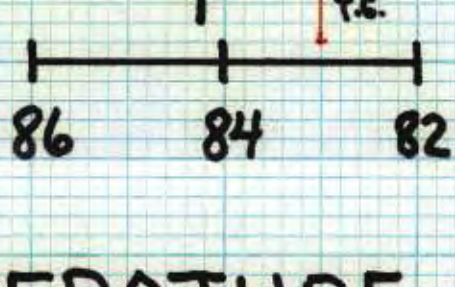
OKF-5

TEMPERATURE DIFFERENTIAL TEMPERATURE GRADIENT



20'/MIN. ↓

20'/MIN. ↓



TEMPERATURE DIFFERENTIAL TEMPERATURE GRADIENT

OKF-5



WELL LOG

WELL LOCATION

County Okeechobee
 Station I. D. 093000052
 Date 02-10-82 Well No. OKF-5
 Latitude 027-18-55" Longitude 080-48-25"
 SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 26 Township 36S Range 35E
 Owner Williamson Phone _____
 Driller _____ Date Drilled _____
 WELL CONSTRUCTION
 Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller _____ T. Depth - Logger 1181'
 Casing Depth Driller _____ Casing Depth Logger 440'
 Bit Size _____ Casing Dia. I.D. 7.80"
 Hole Dia. 8" From 0' To 1181' Dia. From _____ To _____
 Type of Casing STEEL Casing Thickness _____
 Type of Screen Open Hole Screen Int. From _____ To _____
 Type of Packing _____ Well Use Agricultural
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

DATUM

K.B. _____ L.S. _____ T.O.C. 3.0'

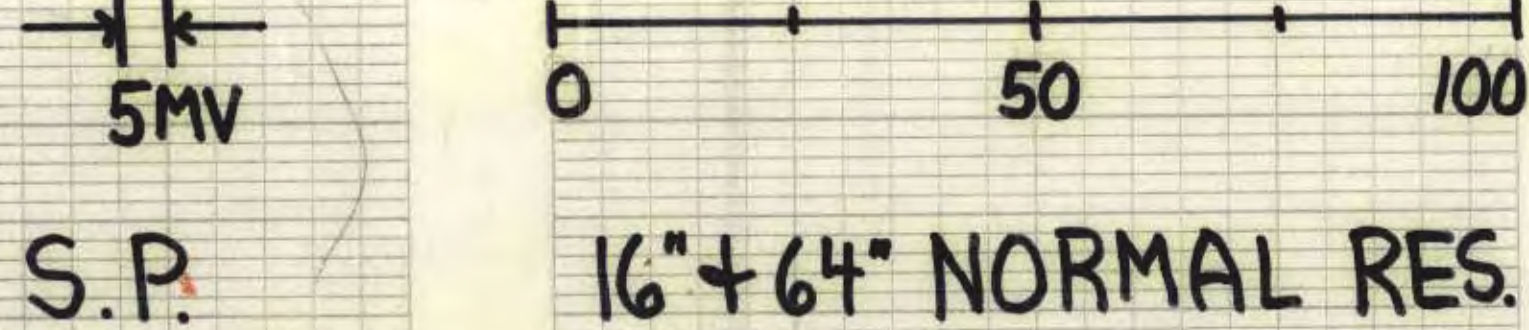
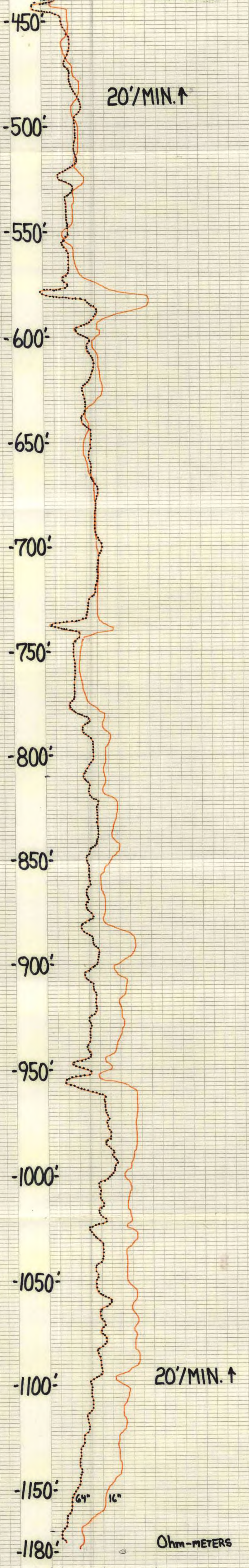
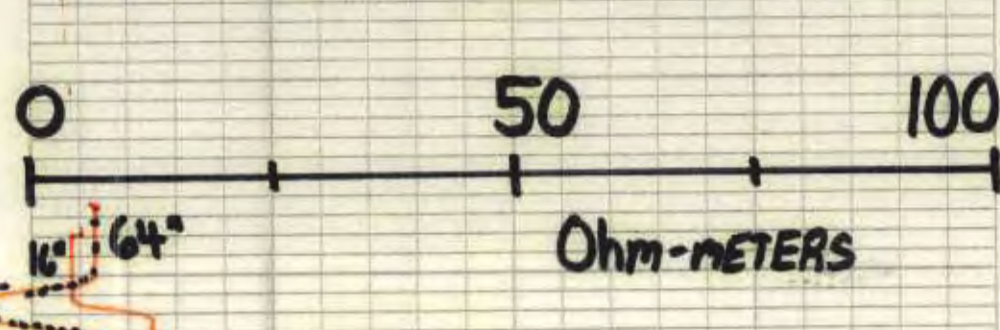
FLUID QUALITY

Date 02-10-82 Time 1400 Source of Sample Well Head
 Cl 3850.0 mg/l Type of Fluid Formation Water
 Temp. 82.6 °F Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. 7176.0 μ mhos/cm
 Logged By: S. Anderson Witnessed By: P. Daughauer
 Comments: Flow at bottom of well/ Point
sample taken at various depths.

TYPE OF SURVEYS RUN

Lateral 6" (X)
 Caliper (X)
 Flow meter (X)
 16", 64" normals (X)
 Neutron (X)
 Natural Gamma (X)
 Fluid Resistivity (X)
 Density (X)
 ccl (X)
 Fluid Sampler (X)
 Temperature (X)
 Delta Temp. (X)
 SP (X)

OKF-5
 S.P. 5 MV
 16" + 64" NORMAL RES.



S.P. 5 MV
 16" + 64" NORMAL RES.
 OKF-5