

# WELL STATION IDENTIFICATION

FORM 62 - 12/77

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

PAGE 1 OF 2

## WELL LOCATION CARD ONE

1		10	16	20	37	54	57	59	63	66	68	71
STATION I. D.	SURVEY DATE	A CARD C	WELL NO.	COUNTY	LAT DEG	LAT MIN	LAT SEC	LON DEG	LON MIN	LON SEC		
097000005	042479	W11	S.F.-24	OSCEOLA	028	10	37	081	07	51		

7

## WELL LOCATION CARD TWO

1		17	20	37	39	42	45	61
STATION I. D.	SURVEY DATE	A CARD C	QUARTERSECTIONS	SEC	TOWN-SHIP	RANGE	WATER MANAGEMENT DISTRICT PLANNING AREA	
		W12	NE1/4; SW1/4; SE1/4	32	26S	32W	KISSIMMEE	

## WELL DATUM CARD

1		17	20	26	32	38	44	59
STATION I. D.	SURVEY DATE	A CARD C	KELLY BUSH-ING (FEET)	LAND SUR-FACE (FT)	TOP OF CASING (FT)	OTHER (FT) (SEE NOTES)	DATUM (CHECK ONE)	
		W21			00		MSL- ; LS- ; TOC-X	

## WELL OWNERSHIP CARD

1		17	20	37	54	57	64	80
STATION I. D.	SURVEY DATE	A CARD C	NAME OF OWNER	GROVE/PROPERTY NAME	AREA CODE	TELEPHONE	WELL USE	
		W31	BIRCHWOOD	BIRCHWOOD	305	6868800	CATTLE	

## WELL ORIGIN CARD

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

fish

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).

# WELL STATION IDENTIFICATION

FORM 63-12/77

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

PAGE 2 OF 2

## WELL DESCRIPTION - CONSTRUCTION CARD ONE

1	10	16	20	27	34	41	48	54	59	68
STATION I. D.	SURVEY DATE	A CARD	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.	
097.0.0.0.0.0.5	0424.79	W5.1	-	4.57	-	282	280	-	YES- ; NO-X	

## WELL DESCRIPTION - CONSTRUCTION CARD TWO

1	17	20	37	54	59	64	69	73
STATION I. D.	SURVEY DATE	A CARD	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	A CARD	SEC	TYPE OF CASING	NOM. DIA. (INCHES)	BEGIN DEPTH	END DEPTH (FEET)	THICKNESS (INCHES)	TYPE OF ANNULUS FILL
		W6.1	0	STEEL	8.0	0	282	0.3	

## WELL DESCRIPTION - CONFIGURATION CARD. SECTION TWO

1	17	20	22	39	44	49	54	59	75
STATION I. D.	SURVEY DATE	A CARD	SEC	TYPE OF CASING	NOM. DIA. (INCHES)	BEGIN DEPTH	END DEPTH (FEET)	THICKNESS (INCHES)	TYPE OF ANNULUS FILL
		W6.2	0.2						

## WELL DESCRIPTION - CONFIGURATION CARD. SECTION THREE

1	17	20	22	39	44	49	54	59	75
STATION I. D.	SURVEY DATE	A CARD	SEC	TYPE OF CASING	NOM. DIA. (INCHES)	BEGIN DEPTH	END DEPTH (FEET)	THICKNESS (INCHES)	TYPE OF ANNULUS FILL
		W6.3	0.3						

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).  
 <W69> MAY ALSO BE USED TO PROVIDE DATA FOR A TOTAL OF NINE SECTIONS.

TSM

# WELL SURVEY REPORT

FORM 61 - 12/77  
(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	K	L	M	N	O	P	Q	R	S	T
09.70.0000	5042479	W71	ANDERSON	PALUGA	X	X	X	X	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	WELL HEAD	WATER	04.24.79	1.4.00

## FLUID QUALITY CARD TWO

1	17	20	25	32	35	41	47	53	60	64	70	75
STATION	SURVEY	CARD	TEMP. OF	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	7.28	F				61.68				

## 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	WELL PLUGGED AT	457' A.B.T. OF WMLT	E. CLAY

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

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).  
 THERE ARE 20 TOTAL OF TWENTY SEVEN COMMENT LINES.

Fish

# WELL STATION IDENTIFICATION

FORM RP-37 - Rev. 10/78

R

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	SURVEY	CARD	WELL NO.	COUNTY	LAT DEG	LAT MIN	LAT SEC	LONG DEG	LONG MIN	LONG SEC	
I. D.	DATE	C									
097.000.005	12.06.79	W11	05F-24	OSCEOLA	028	10	37.00	081	07	51.00	

## WELL LOCATION CARD TWO

1	17	20	37	39	42	45	61
STATION	SURVEY	CARD	QUARTERSECTIONS	SEC	TOWN-SHIP	RANGE	WATER MANAGEMENT DISTRICT PLANNING AREA
I. D.	DATE	C					
		W12	1/4; 1/4; 1/4	32	26S	32W	KISSIMMEE

4/24/

Jane

## WELL DATUM CARD

1	17	20	26	32	38	44	59
STATION	SURVEY	CARD	KELLY BUSH-ING (FEET)	LAND SUR-FACE (FT)	TOP OF CASING (FT)	OTHER (FT) (SEE NOTES)	DATUM (CHECK ONE)
I. D.	DATE	C					
		W21			00		MSL- ; LS- <del>X</del> ; TOC- <del>X</del>

## WELL OWNERSHIP CARD

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

## WELL ORIGIN CARD

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

# 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.	
097000005	120679	W51	1	460		282	28		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)
		W52	OPEN M.O.L.E.					

## 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
		W61	0	STEEL	80.0	0	282	3	

## 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
		W62	02						

## 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
		W63	03						

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.





HAW THICK 350  
-58  
262

WELL LOG

WELL LOCATION

County Osceola  
 Station I. D. 097000005  
 Date 4/24/79 Well No. OSF-24  
 Latitude 28° 10' 37" Longitude 81° 07' 51"  
 NE 1/4 SW 1/4 SE 1/4 Section 32 Township 26S Range 32W  
 Owner Birchwood Phone \_\_\_\_\_  
 Driller unknown Date Drilled \_\_\_\_\_

DATUM

K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. X

FLUID QUALITY

Date 4/24/79 Time 1400 Source of Sample wellhead  
 Cl \_\_\_\_\_ mg/l Type of Fluid water  
 Temp. 72.8 °F  $\frac{d\%}{c}$  Field Density \_\_\_\_\_ @ \_\_\_\_\_ °C  
 T.D.S. \_\_\_\_\_ mg/l Spec. Cond. 616.8  $\mu$ mhos/cm  
 Logged By: Anderson Witnessed By: Paluga

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other \_\_\_\_\_  
 T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 457'  
 Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 282'  
 Bit Size \_\_\_\_\_ Casing Dia. I.D. 8.0"  
 Hole Dia. 8.0" From 0' To 282' Dia. \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Casing steel Casing Thickness .3"  
 Type of Screen openhole Screen Int. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Packing \_\_\_\_\_ Well Use cattle  
 Static Water Level \_\_\_\_\_ Date \_\_\_\_\_  
 Yield Flow \_\_\_\_\_ Pump \_\_\_\_\_

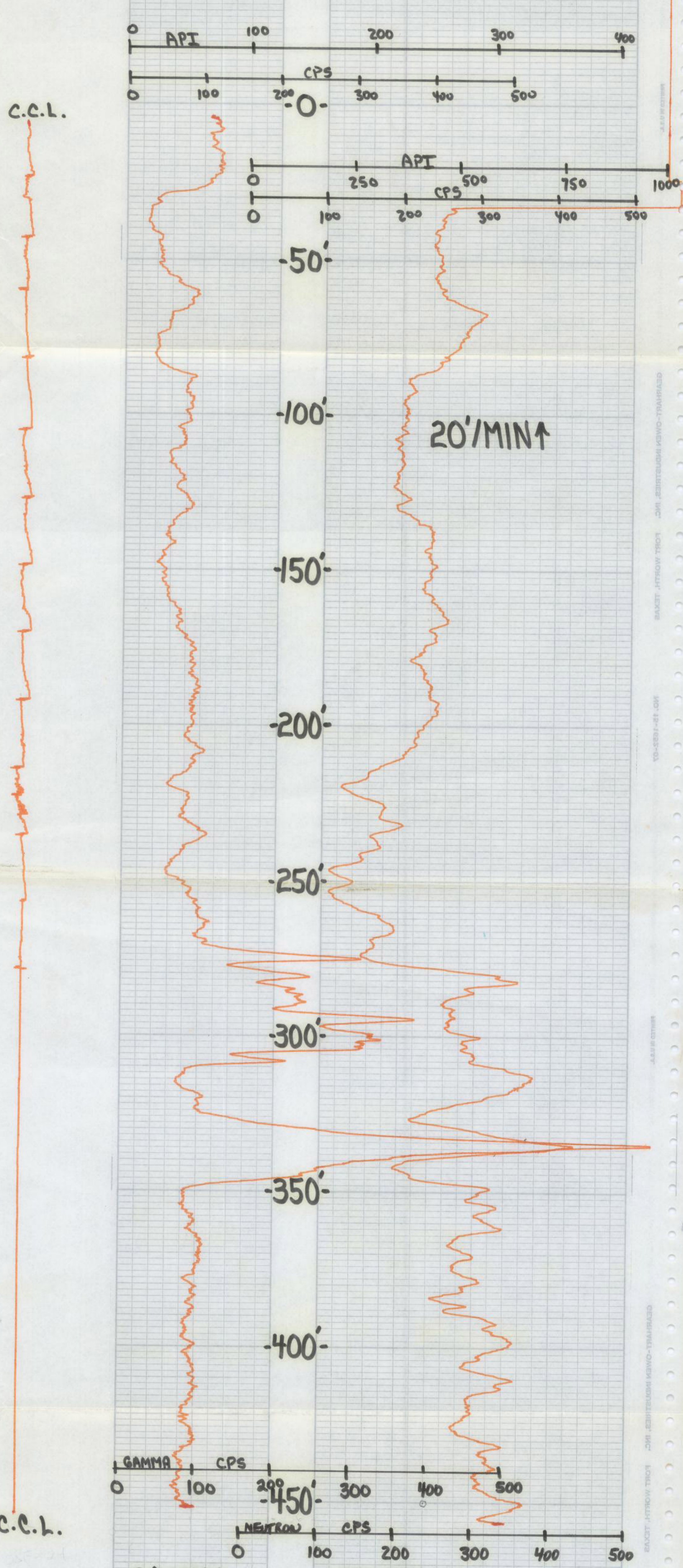
Comments:

Well plugged at 457' alot of white clay.  
Fluid resistivity questionable

TYPE OF SURVEYS RUN

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

# OSF-24 GAMMA NEUTRON



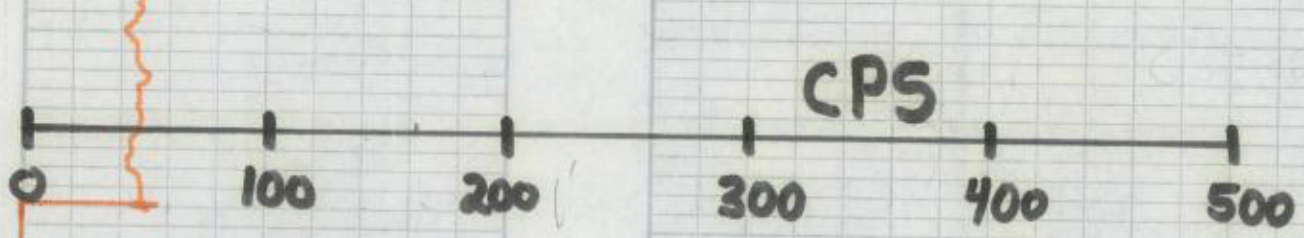
GAMMA  
500 cps  
T.C.-3

NEUTRON  
500 cps  
T.C.-3

## OSF-24

GAMMA CAL.  
500 cps  
T.C.-3

100 API





WELL LOG

WELL LOCATION

County Osceola  
Station I. D. 097000005  
Date 4/24/79 Well No. OSF-24  
Latitude 28° 10' 37" Longitude 81° 7' 51"  
NE ¼ SW ¼ SE ¼ Section 32 Township 26S Range 32W  
Owner Birchwood Phone [REDACTED]  
Driller unknown Date Drilled -

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other -  
T. Depth - Driller - T. Depth - Logger 457'  
Casing Depth Driller - Casing Depth Logger 282'  
Bit Size - Casing Dia. I.D. 8.0"  
Hole Dia. 8.0" From 0' To 282' Dia. - From - To -  
Type of Casing steel Casing Thickness .3"  
Type of Screen Openhole Screen Int. From - To -  
Type of Packing - Well Use cattle  
Static Water Level - Date -  
Yield Flow - Pump -

DATUM

K.B. - L.S. - T.O.C. X

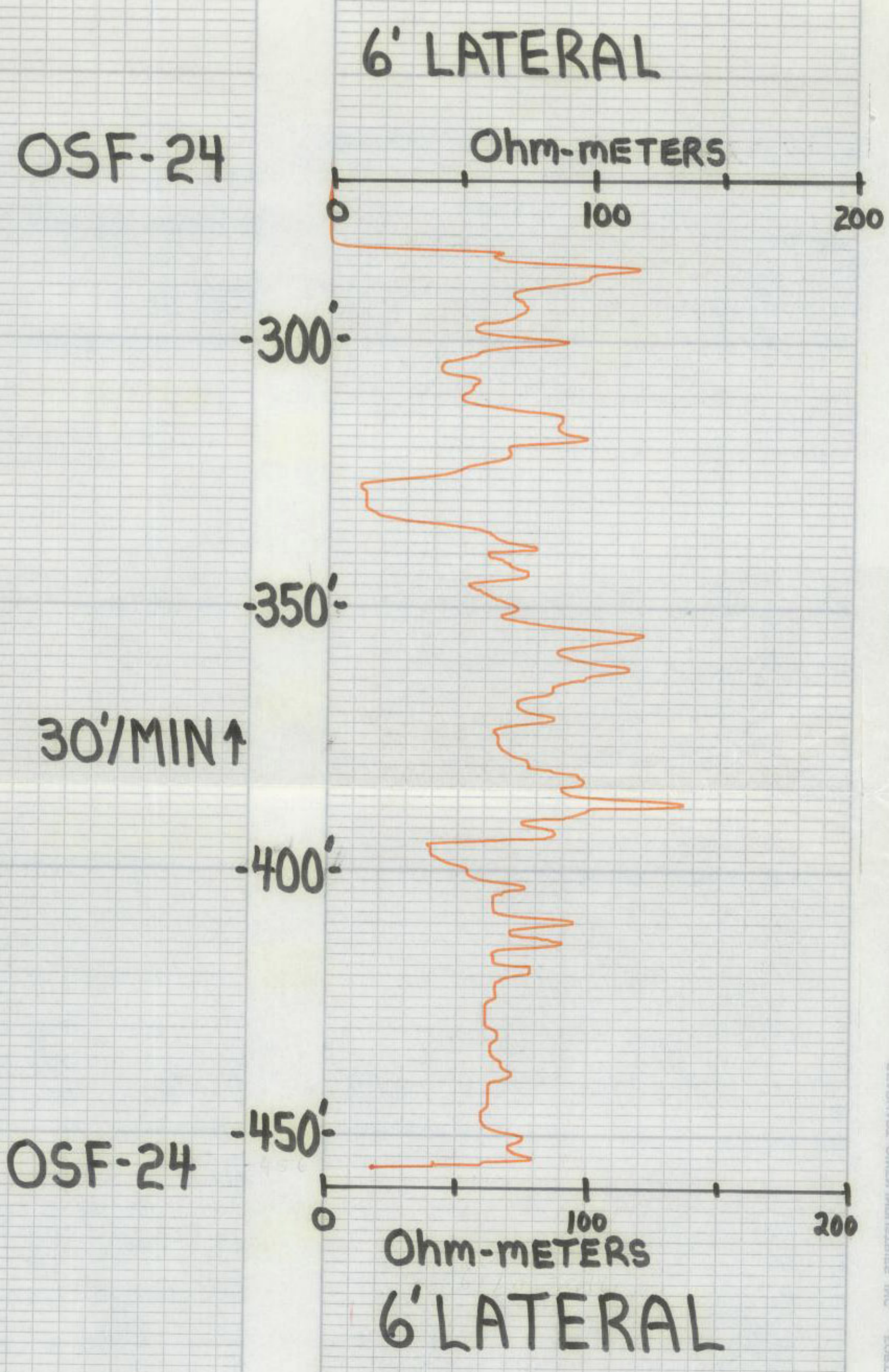
FLUID QUALITY

Date 4/24/79 Time 1400 Source of Sample wellhead  
Cl - mg/l Type of Fluid water  
Temp. 72.8 °F ~~°C~~ Field Density - @ - °C  
T.D.S. - mg/l Spec. Cond. 616.8 umhos/cm  
Logged By: Anderson Witnessed By: Paluga

Comments: well plugged at 457' alot of white clay  
Fluid resistivity questionable

TYPE OF SURVEYS RUN

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



OSF-24  
30'/min ↑

NO. 11-1007-1  
AUGUST 1977  
GEORGE W. HARRIS, INC. 1011 NORTH 11<sup>TH</sup> AVENUE, TALLAHASSEE, FLORIDA 32301





WELL LOG

WELL LOCATION

County Osceola

Station I. D. 097000005

Date 4/24/79 Well No. OSF-24

Latitude 28° 10' 37" Longitude 81° 07' 51"

NE 1/4 SW 1/4 SE 1/4 Section 32 Township 26S Range 32W

Owner Birchwood Phone \_\_\_\_\_

Driller unknown Date Drilled \_\_\_\_\_

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other \_\_\_\_\_

T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 457'

Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 282'

Bit Size \_\_\_\_\_ Casing Dia. I.D. 8.0"

Hole Dia. 8.0" From 0' To 282' Dia. \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Type of Casing steel Casing Thickness .3"

Type of Screen Open hole Screen Int. From \_\_\_\_\_ To \_\_\_\_\_

Type of Packing \_\_\_\_\_ Well Use cattle

Static Water Level \_\_\_\_\_ Date \_\_\_\_\_

Yield Flow \_\_\_\_\_ Pump \_\_\_\_\_

DATUM

K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. X

FLUID QUALITY

Date 4/24/79 Time 1400 Source of Sample wellhead

Cl \_\_\_\_\_ mg/l Type of Fluid water

Temp. 72.8 °F 0% Field Density \_\_\_\_\_ @ \_\_\_\_\_ °C

T.D.S. \_\_\_\_\_ mg/l Spec. Cond. 616.8 umhos/cm

Logged By: Anderson Witnessed By: Paluga

Comments: Well plugged at 457' alot of white clay.

Fluid resistivity questionable

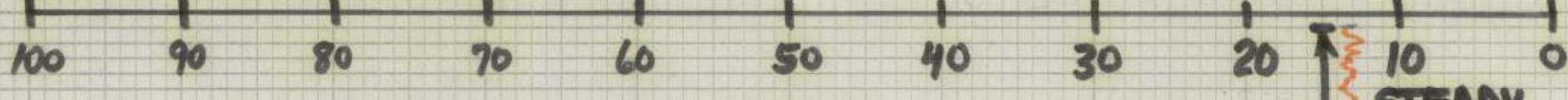
TYPE OF SURVEYS RUN

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

OSF-24

FLOWMETER

CPS



-120'

-150'

-200'

-250'

-300'

-350'

-400'

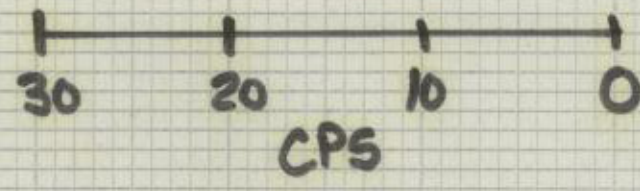
-450'

30'/MIN ↓

STEADY STATE

FLOWMETER

OSF-24



Vertical text on the right edge: 40-8323-04, GEORGE W. BROWN ENGINEERS, INC.



WELL LOG

WELL LOCATION

County Osceola  
 Station I. D. 0 9 7 0 0 0 0 5  
 Date 4/24/79 Well No. OSF-24  
 Latitude 28° 10' 37" Longitude 81° 7' 51"  
 NE ¼ SW ¼ SE ¼ Section 32 Township 26S Range 32W  
 Owner Birchwood Phone [REDACTED]  
 Driller unknown Date Drilled -

DATUM

K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. X

FLUID QUALITY

Date 4/24/79 Time 1400 Source of Sample wellhead  
 Cl \_\_\_\_\_ mg/l Type of Fluid water  
 Temp. 72.8 °F  Field Density \_\_\_\_\_ @ \_\_\_\_\_ °C  
 T.D.S. \_\_\_\_\_ mg/l Spec. Cond. 616.8 µmhos/cm  
 Logged By: Anderson Witnessed By: Paluga  
 Comments: well plugged at 457' alot of white clay  
 Fluid resistivity questionable

WELL CONSTRUCTION

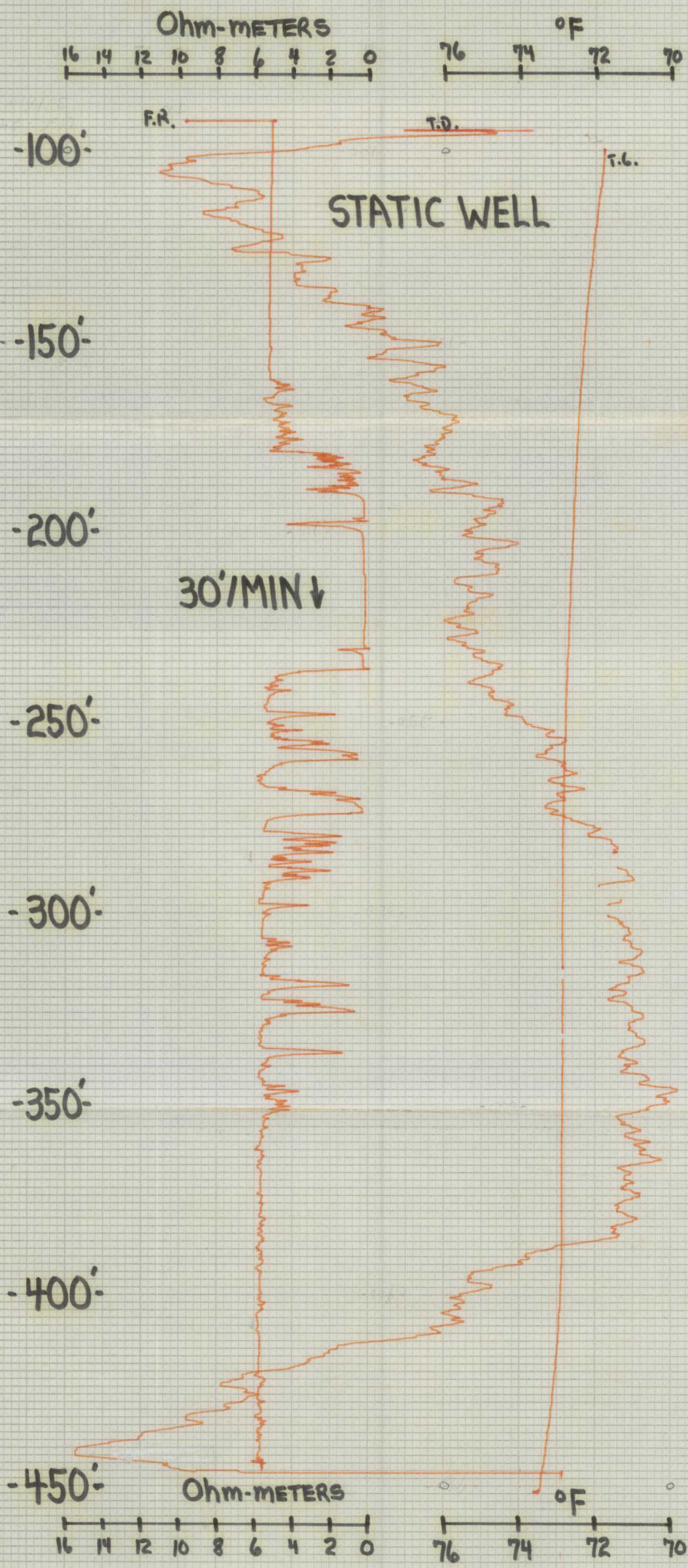
Drilling Method: Rot. Air CT Auger Other \_\_\_\_\_  
 T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 457'  
 Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 282'  
 Bit Size \_\_\_\_\_ Casing Dia. I.D. 8.0"  
 Hole Dia. 8.0" From 0' To 282' Dia. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Casing steel Casing Thickness .3"  
 Type of Screen openhole Screen Int. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Packing \_\_\_\_\_ Well Use cattle  
 Static Water Level \_\_\_\_\_ Date \_\_\_\_\_  
 Yield Flow \_\_\_\_\_ Pump \_\_\_\_\_

TYPE OF SURVEYS RUN

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

**OSF-24**

**FLUID RESISTIVITY      TEMPERATURE DIFFERENTIAL      TEMPERATURE GRADIENT**



OSF-24



WELL LOG

WELL LOCATION

County Osceola  
 Station I. D. 097000005  
 Date 4/24/79 Well No. OSF-24  
 Latitude 28° 10' 37" Longitude 81° 7' 51"  
 NE ¼ SW ¼ SE ¼ Section 32 Township 26S Range 32W  
 Owner Birchwood Phone [REDACTED]  
 Driller unknown Date Drilled -

DATUM

K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. X

FLUID QUALITY

Date 4/24/79 Time 1400 Source of Sample wellhead  
 Cl \_\_\_\_\_ mg/l Type of Fluid water  
 Temp. 72.8 °F 06 Field Density \_\_\_\_\_ @ \_\_\_\_\_ °C  
 T.D.S. \_\_\_\_\_ mg/l Spec. Cond. 616.8 umhos/cm  
 Logged By: Anderson Witnessed By: Paluga  
 Comments: well plugged at 457' alot of white clay

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other \_\_\_\_\_  
 T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 457'  
 Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 282'  
 Bit Size \_\_\_\_\_ Casing Dia. I.D. 8.0"  
 Hole Dia. 8.0" From 0' To 282 Dia. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Casing steel Casing Thickness .3"  
 Type of Screen openhole Screen Int. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Packing \_\_\_\_\_ Well Use cattle  
 Static Water Level \_\_\_\_\_ Date \_\_\_\_\_  
 Yield Flow \_\_\_\_\_ Pump \_\_\_\_\_

Fluid resistivity questionable

TYPE OF SURVEYS RUN

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

OSF-24

FLUID RESISTIVITY

TEMPERATURE DIFFERENTIAL

TEMPERATURE GRADIENT

Ohm-meters

16 14 12 10 8 6 4 2 0

76 74 72 70 °F

-120'

-150'

-200'

-250'

-300'

-350'

-400'

-450'

DISCHARGE BY AIR

30'/MIN ↓

Ohm-meters

16 14 12 10 8 6 4 2 0

76 74 72 70 °F

OSF-24

GEORGETOWN ENGINEERING, INC. 300-230-21-21 10-1003-04 4/24/79



WELL LOG

WELL LOCATION

County Osceola  
 Station I. D. 097000005  
 Date 4/24/79 Well No. OSF-24  
 Latitude 28° 10' 37" Longitude 81° 07' 51"  
 NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  Section 32 Township 26S Range 32W  
 Owner Birchwood Phone \_\_\_\_\_  
 Driller unknown Date Drilled \_\_\_\_\_

DATUM

K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. X

FLUID QUALITY

Date 4/24/79 Time 1400 Source of Sample wellhead  
 Cl \_\_\_\_\_ mg/l Type of Fluid water  
 Temp. 72.8 °F % Field Density \_\_\_\_\_ @ \_\_\_\_\_ °C  
 T.D.S. \_\_\_\_\_ mg/l Spec. Cond. 616.8  $\mu$ mhos/cm  
 Logged By: Anderson Witnessed By: Paluga

WELL CONSTRUCTION

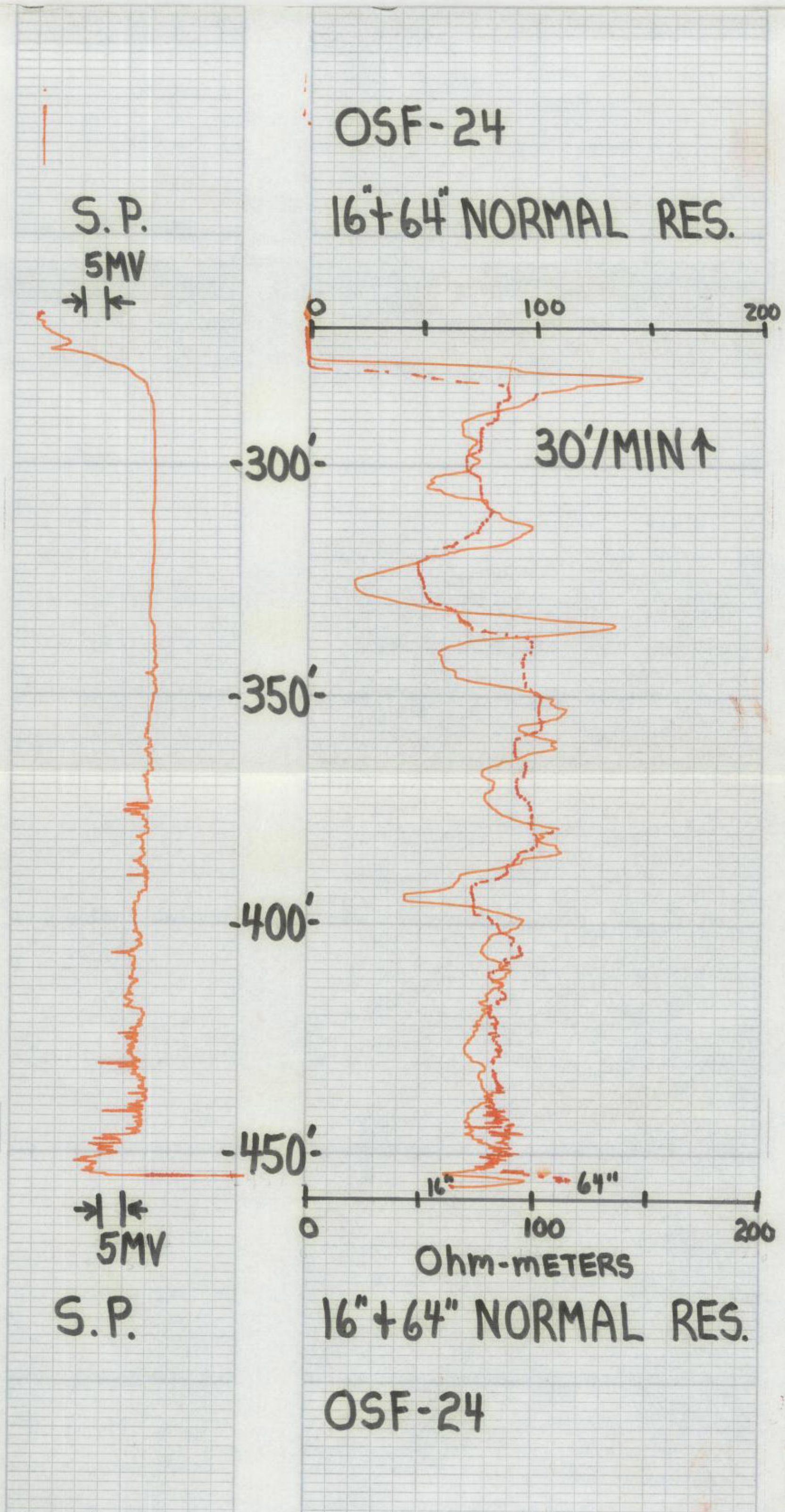
Drilling Method: Rot. Air CT Auger Other \_\_\_\_\_  
 T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 457'  
 Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 282'  
 Bit Size \_\_\_\_\_ Casing Dia. I.D. 8.0"  
 Hole Dia. 8.0" From 0' To 282' Dia. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Casing steel Casing Thickness .3"  
 Type of Screen open hole Screen Int. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Packing \_\_\_\_\_ Well Use cattle  
 Static Water Level \_\_\_\_\_ Date \_\_\_\_\_  
 Yield Flow \_\_\_\_\_ Pump \_\_\_\_\_

Comments: Well plugged at 457' alot of white clay.

Fluid resistivity questionable

TYPE OF SURVEYS RUN

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



GARDNER INDUSTRIES, INC. LORL MOSELEY, LEVINS MO. 12-1983-03



WELL LOG

WELL LOCATION

County Osceola  
 Station I. D. 097000005  
 Date 4/24/79 Well No. OSF-24  
 Latitude 28° 10' 37" Longitude 81° 07' 51"  
NE 1/4 SW 1/4 SE 1/4 Section 32 Township 26S Range 32W  
 Owner Birchwood Phone \_\_\_\_\_  
 Driller unknown Date Drilled \_\_\_\_\_

DATUM

K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. \_\_\_\_\_

FLUID QUALITY

Date 4/24/79 Time 1400 Source of Sample wellhead  
 Cl \_\_\_\_\_ mg/l Type of Fluid water  
 Temp. 72.8 °F 98 Field Density \_\_\_\_\_ @ \_\_\_\_\_ °C  
 T.D.S. \_\_\_\_\_ mg/l Spec. Cond. 616.8 umhos/cm  
 Logged By: Anderson Witnessed By: Paluga  
 Comments: Well plugged at 457' alot of white clay.

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other \_\_\_\_\_  
 T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 457'  
 Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 282'  
 Bit Size \_\_\_\_\_ Casing Dia. I.D. 8.0"  
 Hole Dia. 8.0" From 0' To 282' Dia. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Casing steel Casing Thickness .3"  
 Type of Screen open hole Screen Int. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Packing \_\_\_\_\_ Well Use cattle  
 Static Water Level \_\_\_\_\_ Date \_\_\_\_\_  
 Yield Flow \_\_\_\_\_ Pump \_\_\_\_\_

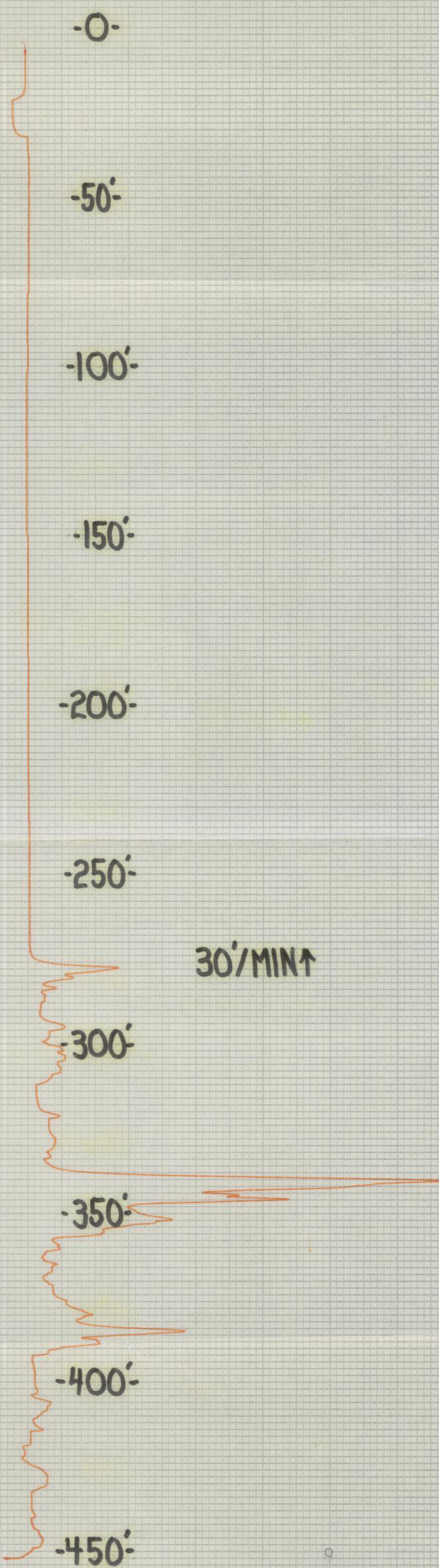
Fluid resistivity questionable

TYPE OF SURVEYS RUN

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



CALIPER



CALIPER

OSF-24

GEORGE W. OMBRES ENGINEERS, INC.

MEMPHIS, TENN.

100-10-100-06

GEORGE W. OMBRES ENGINEERS, INC.



WELL LOG

WELL LOCATION

County OSCEOLA  
Station I. D. 097000005  
Date 12-06-79 Well No. OSF-24  
Latitude 028° 10' 37.00" Longitude 081° 07' 51.00"  
Section 32 Township 26S Range 32W  
Owner BIRCHWOOD Phone \_\_\_\_\_  
Driller \_\_\_\_\_ Date Drilled \_\_\_\_\_

DATUM

K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. 0.0 L.S.

FLUID QUALITY

Date 12-06-79 Time 1000 Source of Sample WELL HEAD  
Cl \_\_\_\_\_ mg/l Type of Fluid WATER  
Temp. 75.90°F Field Density \_\_\_\_\_ @ \_\_\_\_\_ °C  
T.D.S. \_\_\_\_\_ mg/l Spec. Cond. 650.0 μmhos/cm  
Logged By: ANDERSON S. Witnessed By: DAVENHAVER P.  
Comments: TO GO WITH LOGS RUN ON 4-24-79

WELL CONSTRUCTION

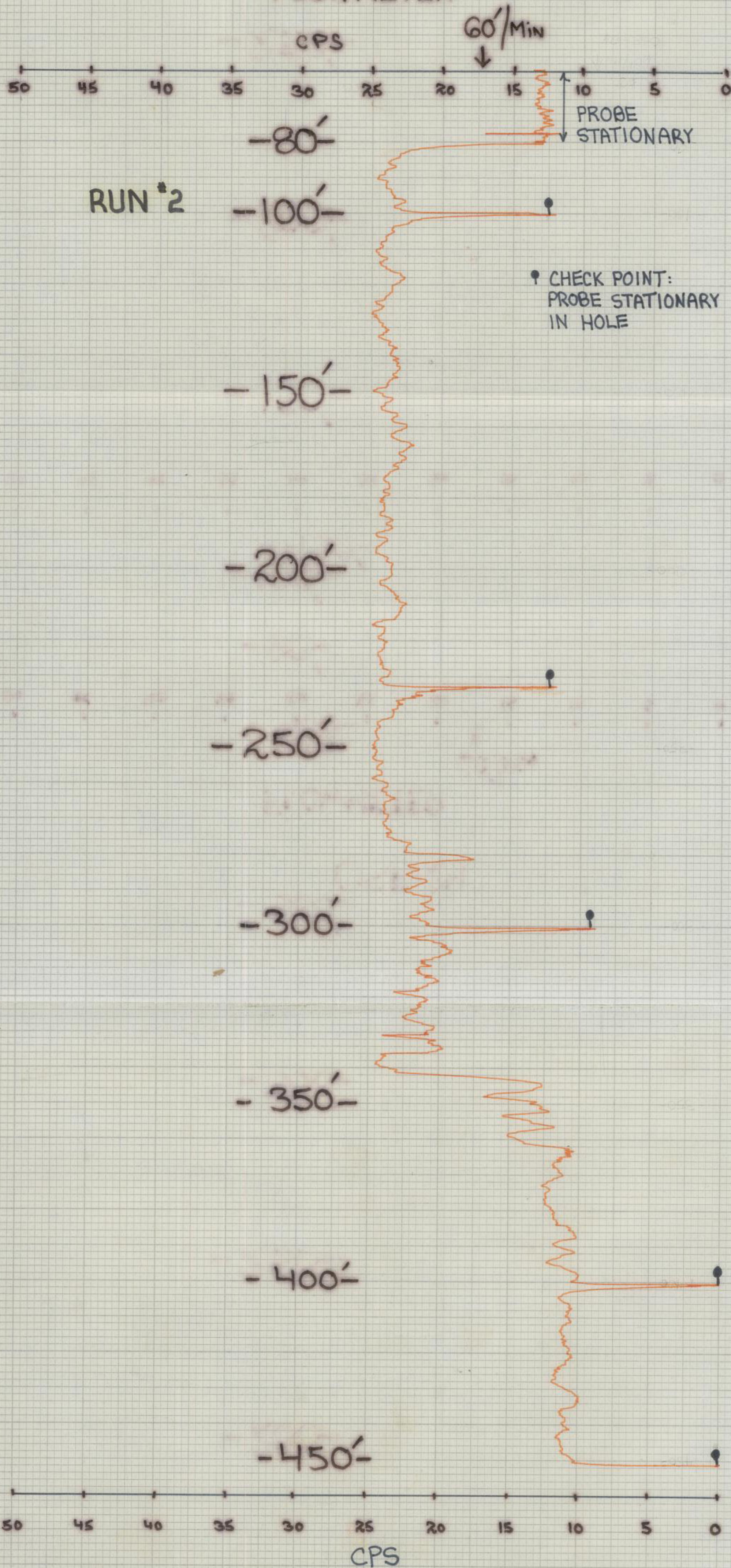
Drilling Method: Rot.    Air    CT    Auger    Other     
T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 460'  
Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 282'  
Bit Size \_\_\_\_\_ Casing Dia. I.D. 7.80"  
Hole Dia. 8.0" From 0 To 282 Dia. \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
Type of Casing STEEL Casing Thickness 0.3"  
Type of Screen OPEN HOLE Screen Int. From 282' To 457'  
Type of Packing \_\_\_\_\_ Well Use CATTLE  
Static Water Level \_\_\_\_\_ Date \_\_\_\_\_  
Yield Flow \_\_\_\_\_ Pump \_\_\_\_\_

TYPE OF SURVEYS RUN

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

OSF-24

FLOWMETER





WELL LOG

WELL LOCATION

County OSCEOLA  
Station I. D. 097000005  
Date 12-06-79 Well No. OSF-24  
Latitude 028° 10' 37.00" Longitude 081° 07' 51.00"  
Section 32 Township 26S Range 32W  
Owner BIRCHWOOD Phone \_\_\_\_\_  
Driller \_\_\_\_\_ Date Drilled \_\_\_\_\_

DATUM

K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. 0.0 L.S.

FLUID QUALITY

Date 12-06-79 Time 1000 Source of Sample WELL HEAD  
Cl \_\_\_\_\_ mg/l Type of Fluid WATER  
Temp. 75.90°F Field Density \_\_\_\_\_ @ \_\_\_\_\_ °C  
T.D.S. \_\_\_\_\_ mg/l Spec. Cond. 650.0 umhos/cm  
Logged By: ANDERSON S. Witnessed By: DAVENHAVER P.  
Comments: TO GO WITH LOGS RUN ON 4-24-79

WELL CONSTRUCTION

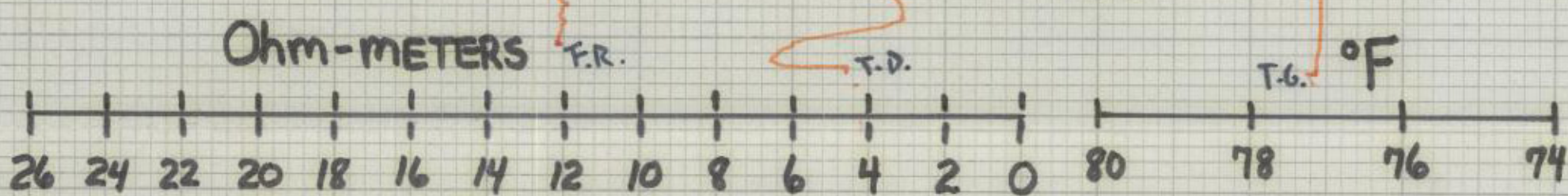
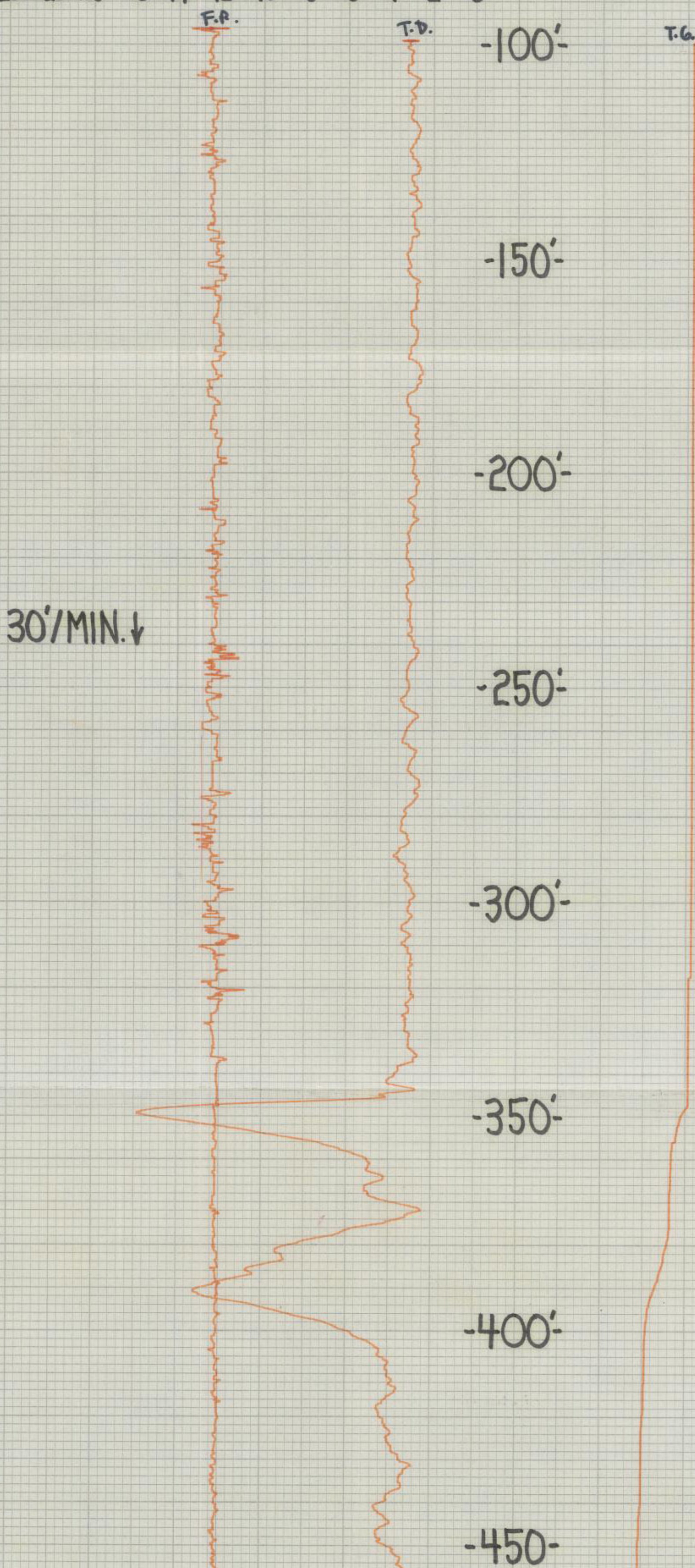
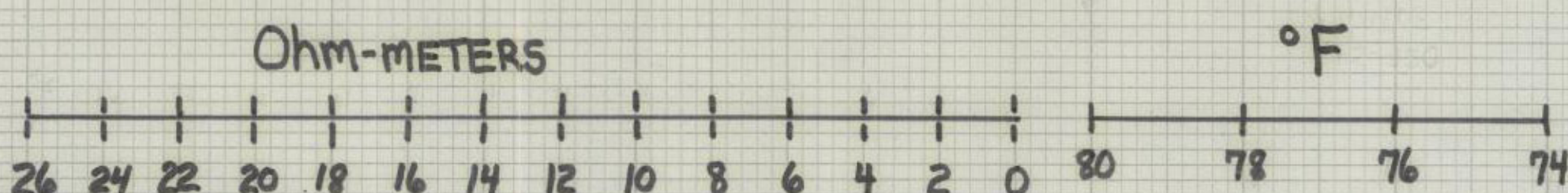
Drilling Method: Rot.  Air  CT  Auger  Other \_\_\_\_\_  
T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 460'  
Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 282'  
Bit Size \_\_\_\_\_ Casing Dia. I.D. 7.80"  
Hole Dia. 8.0" From 0 To 282 Dia. \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
Type of Casing STEEL Casing Thickness 0.3"  
Type of Screen OPEN HOLE Screen Int. From 282' To 457'  
Type of Packing \_\_\_\_\_ Well Use CATTLE  
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 ccl   
Fluid Sampler   
Temperature   
Delta Temp.   
SP

OSF-24

FLUID RESISTIVITY TEMPERATURE DIFFERENTIAL TEMPERATURE GRADIENT



FLUID RESISTIVITY TEMPERATURE DIFFERENTIAL TEMPERATURE GRADIENT

OSF-24



WELL LOG

WELL LOCATION

County OSCEOLA  
 Station I. D. 097000005  
 Date 12-06-79 Well No. OSF-24  
 Latitude 028° 10' 37.00" Longitude 081° 07' 51.00"  
 Section 32 Township 26S Range 32W  
 Owner BIRCHWOOD Phone \_\_\_\_\_  
 Driller \_\_\_\_\_ Date Drilled \_\_\_\_\_

DATUM

K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. 0.0 L.S.

FLUID QUALITY

Date 12-06-79 Time 1000 Source of Sample WELL HEAD  
 Cl \_\_\_\_\_ mg/l Type of Fluid WATER  
 Temp. 75.90°F Field Density \_\_\_\_\_ @ \_\_\_\_\_ °C  
 T.D.S. \_\_\_\_\_ mg/l Spec. Cond. 650.0 umhos/cm  
 Logged By: ANDERSON S. Witnessed By: DAVENHAVER P.  
 Comments: TO GO WITH LOGS RUN ON 4-24-79

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger \_\_\_\_\_ Other \_\_\_\_\_  
 T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 460'  
 Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 282'  
 Bit Size \_\_\_\_\_ Casing Dia. I.D. 7.80"  
 Hole Dia. 8.0" From 0 To 282 Dia. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Casing STEEL Casing Thickness 0.3"  
 Type of Screen OPEN HOLE Screen Int. From 282' To 457'  
 Type of Packing \_\_\_\_\_ Well Use CATTLE  
 Static Water Level \_\_\_\_\_ Date \_\_\_\_\_  
 Yield Flow \_\_\_\_\_ Pump \_\_\_\_\_

TYPE OF SURVEYS RUN

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

OSF-24

FLOWMETER

