Site 6, Well #1

WATER WELL RECORD Form WWC-5 KSA 82a-1212

1 LOCATION OF WATER WELL: County: Stafford | Fraction: NW ¼ NW ¼ NW ¼ | Section Number: 6 | Township Number: T 25 S | Range Number: R 13 E (W)

Distance and direction from nearest town or city? 2 mi W, 6 mi S of St. John

Street address of well if located within city?

2 WATER WELL OWNER: KGS/GWMD#5

RR#, St. Address, Box # :

City, State, ZIP Code : St. John, Kansas 67576

Board of Agriculture, Division of Water Resources Application Number:

3 DEPTH OF COMPLETED WELL 226 ft. Bore Hole Diameter 8 in. to 197 ft., and 4-7/8 in. to 226 ft.

Well Water to be used as: 1 Domestic 3 Feedlot 5 Public water supply 6 Oil field water supply 7 Lawn and garden only 8 Air conditioning 9 Dewatering (10) Observation well 11 Injection well 12 ~~Other (Specify below)~~ Research

Well's static water level 18.2 ft. below land surface measured on October month 22 day 1982 year

Pump Test Data: Well water was ft. after hours pumping gpm

Est. Yield gpm: Well water was ft. after hours pumping gpm

4 TYPE OF BLANK CASING USED: 1 Steel 3 RMP (SR) (2) PVC 4 ABS 5 Wrought iron 6 Asbestos-Cement 7 Fiberglass 8 Concrete tile 9 Other (specify below)

Casing Joints: Glued ✓ Clamped Welded Threaded

Blank casing dia 5 in. to 197 ft., Dia 2 in. to 216 ft., Dia in. to ft.

Casing height above land surface 16 in., weight lbs./ft. Wall thickness or gauge No Schd 40

TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 2 Brass 3 Stainless steel 4 Galvanized steel 5 Fiberglass 6 Concrete tile (7) PVC 8 RMP (SR) 9 ABS 10 Asbestos-cement 11 Other (specify) 12 None used (open hole)

Screen or Perforation Openings Are: 1 Continuous slot (3) Mill slot 2 Louvered shutter 4 Key punched 5 Gauzed wrapped 6 Wire wrapped 7 Torch cut 8 Saw cut 9 Drilled holes 10 Other (specify) 11 None (open hole)

Screen-Perforation Dia 2 in. to 226 ft., Dia in. to ft., Dia in to ft.

Screen-Perforated Intervals: From 216 ft. to 226 ft., From ft. to ft.

From ft. to ft., From ft. to ft.

Gravel Pack Intervals: From 226 ft. to 210 ft., From ft. to ft.

From ft. to ft., From ft. to ft.

5 GROUT MATERIAL: (1) Neat cement 2 Cement grout 3 Bentonite 4 Other

Grouted Intervals: From 210 ft. to 170 ft., From 90 ft. to 1.5 ft., From ft. to ft.

What is the nearest source of possible contamination: not determined

1 Septic tank 2 Sewer lines 3 Lateral lines 4 Cess pool 5 Seepage pit 6 Pit privy 7 Sewage lagoon 8 Feed yard 9 Livestock pens 10 Fuel storage 11 Fertilizer storage 12 Insecticide storage 13 Watertight sewer lines 14 Abandoned water well 15 Oil well/Gas well 16 Other (specify below)

Direction from well How many feet ? Water Well Disinfected? Yes (No)

Was a chemical/bacteriological sample submitted to Department? Yes (No) If yes, date sample was submitted month day year: Pump Installed? Yes (No)

If Yes: Pump Manufacturer's name Model No. HP Volts

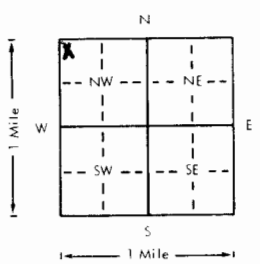
Depth of Pump Intake ft. Pumps Capacity rated at gal./min.

Type of pump: 1 Submersible 2 Turbine 3 Jet 4 Centrifugal 5 Reciprocating 6 Other

6 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on July month 19 day 1978 year, and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No.

This Water Well Record was completed on November month 15 day 82 year under the business name of by (signature) Patrick M Cobb

7 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:



ELEVATION:

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
		See attached log			

Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft. 4. ft. (Use a second sheet if needed)

INSTRUCTIONS: Use typewriter or ball point pen, *please press firmly* and *PRINT* clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Division of Environment, Water Well Contractors, Topeka, KS 66620. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY T 25 R 13 E(W) SEC. 6 NW¼ NW¼ NW¼

BIG BEND GMD#5-KGS
WATER QUALITY
OBSERVATION WELL
NETWORK

DY 10-26-93

SITE NUMBER : 6 5W
SITE LOCATION: NW ~~SW~~ NW

LEGAL LOCATION: 6-25-13W
COUNTY : STAFFORD

WELL LOG

FROM	TO	LITHOLOGIC LOG OWNER: McCANDLESS
0	9	med. brown sandy silt, small amount of clay
9	13	reddish brown sandy silt, brown sandy silt
13	17	color change to grey-brown, fine sand and silt
17	22	lost circulation, sand caved in on bit
22	32	gravel; probably from 15'
32	37	gravel, quit at 32'; brownish silty clay, white silty clay
37	70	gravel resumed, looks larger, qtz. arkosic
70	73	dark to light grey clay lenses with some yellow ~~streaks and fine sand~~
73	81	brown clay stringers;slightly silty grey stringers
81	84	grey clay, slightly silty, some very fine sand some yellow grey stringers
84	85	fine grained white sandstone
85	97	grey, brown and yellow-grey clay, sandy to clean some grey-green clay stringers, some gravel lenses, large limestone fragments
97	107	tan silty clay; some sand, very fine quartz; some greyish-green stringers
107	122	brownish-grey silty clay with sand and gravel
122	137	same; less clay and more sand
137	145	same; med. gravel, clay mostly reddish grey
145	148	pinkish gray clay with whitish gray stringers and lenses of sandy gravel
148	151	dark grey and light red stringers of clay Bedrock
151	164	dark grey clean shale interbedded with light yellow clay
164	182	same clay, but interbedded with dark red sandstone
182	186	white clay-like stringer
186	192	alternating thin coal beds and green-grey clay
192	195	green-grey clay with stringers of pink-grey clay
195	197	reddish-brown siltstone or shale with some white stringers of siltstone or shale
197	201	green-grey clay; minor sand; some tan clay stringers
201	202	reddish brown silty shale
202	203	light grey shale with some fine sand
203	206	red siltstone;light blue-grey sandstone stringer

(continued on next page)

BIG BEND GMD#5-KGS
WATER QUALITY
OBSERVATION WELL
NETWORK

SITE NUMBER : 6
SITE LOCATION: NW NW NW

LEGAL LOCATION: 6-25-13W
COUNTY : STAFFORD

WELL LOG

FROM	TO	LITHOLOGIC LOG
		(continued from previous page)
203	206	(cont.) at 204
206	208	green-grey siltstone
208	209	light red sandy siltstone; light grey fine sandstone stringer at 208.5'
209	209.5	red siltstone
209.5	211.5	green-grey siltstone; sandy red and light red stringers
211.5	215	red and black sandstone; fine-grained white sandstone stringers
215	218	green-grey shale; some sand stringers, red, green-grey and light red color
218	226	red shale with green-grey stringers, some fine sand present

3	2	1
TD=70'	TD=145'	TD=226'
60'/10'	135'/10'	216'/226'
		5" to 196'
		2" from 106'-226'

BIG BEND GMD#5-KGS
WATER QUALITY
OBSERVATION WELL
NETWORK

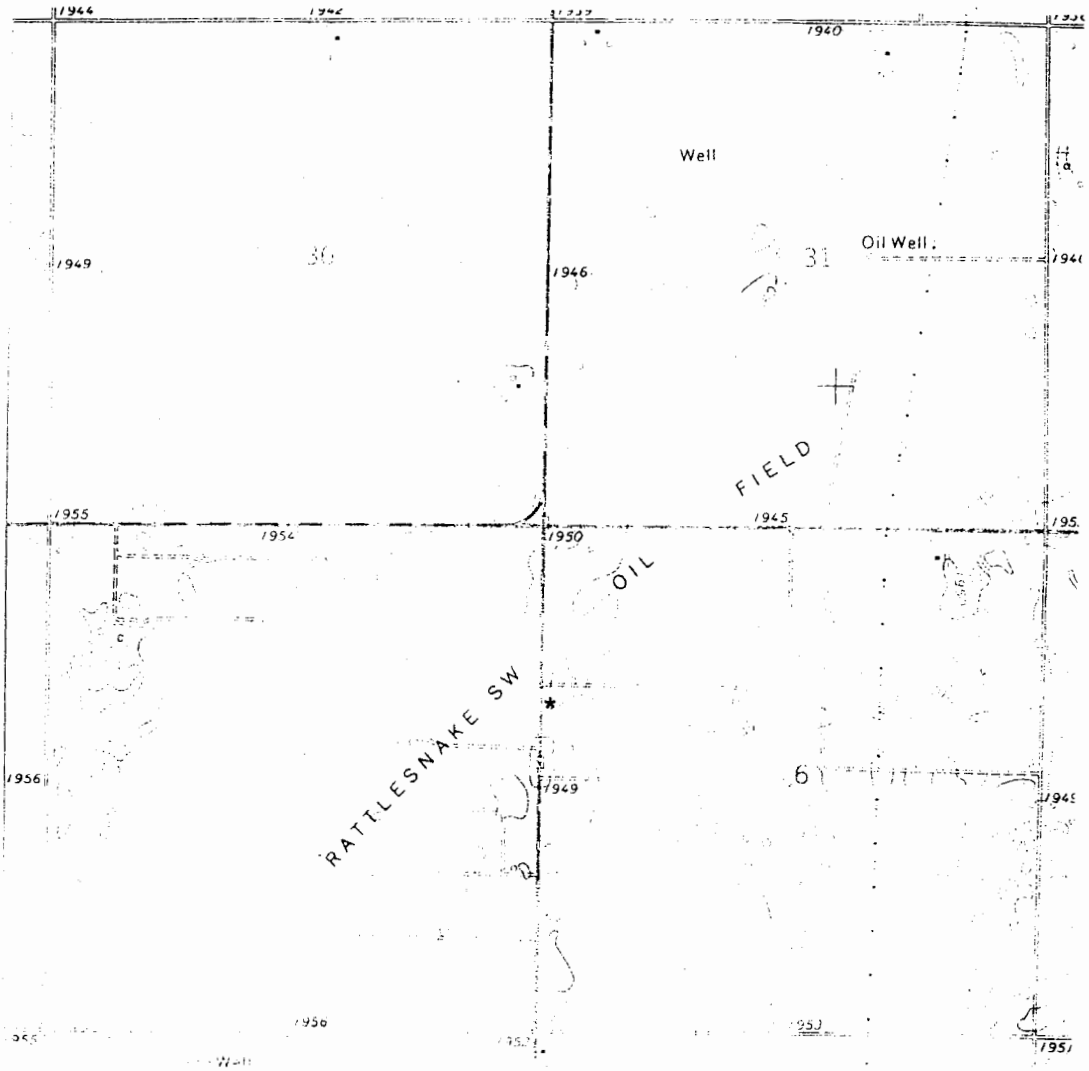
SITE NUMBER : 6
SITE LOCATION: NW SW NW
SAMPLING DATE: OCTOBER 1978

LEGAL LOCATION : 6-25-13W
COUNTY : STAFFORD
NUMBER OF WELLS: 3

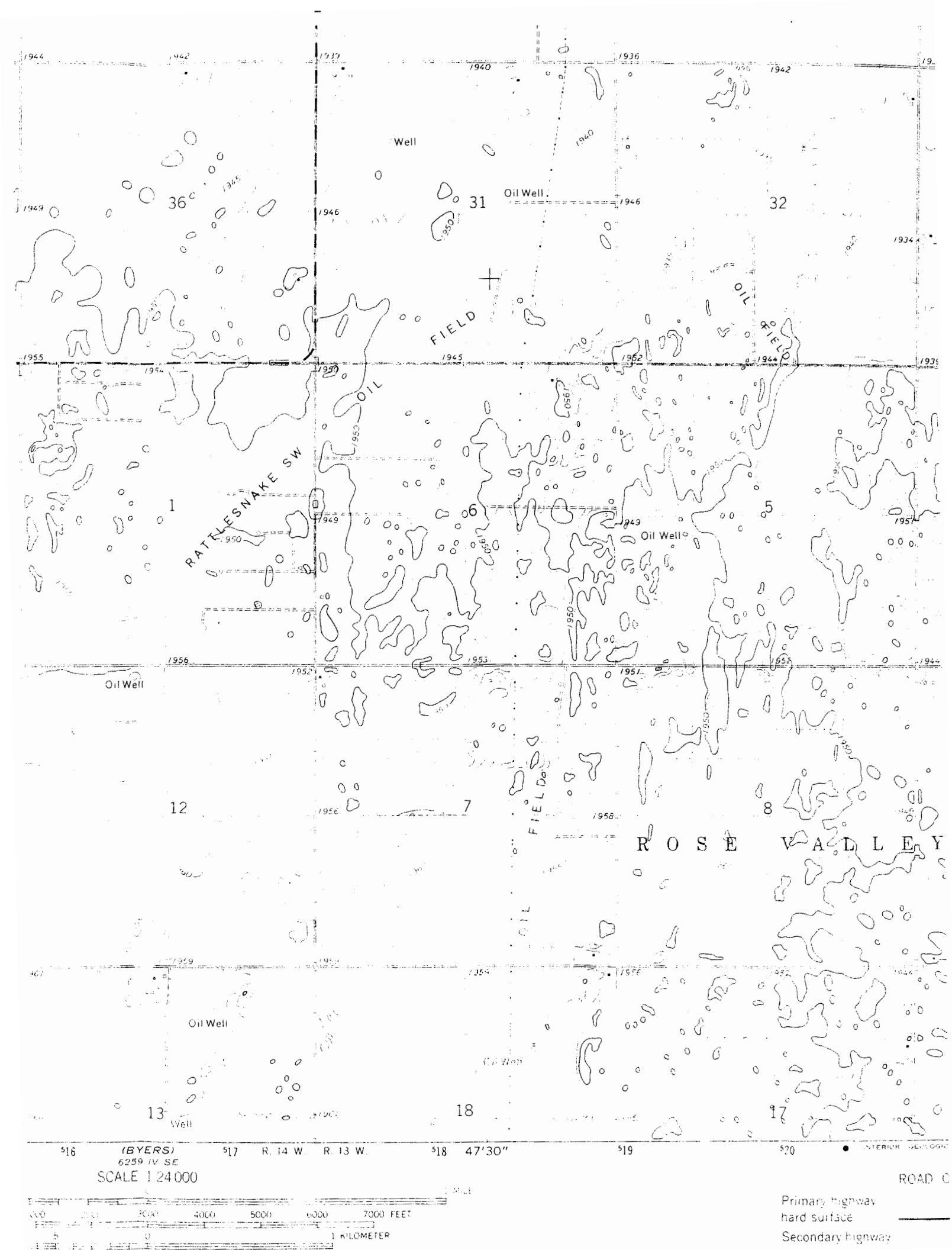
WATER QUALITY ANALYSIS (mg./l)

	WELL#1	WELL#2	WELL#3	WELL#4
TEMPERATURE, C	16.1	17.0	15.8	
SPECIFIC CONDUCTANCE umho @ 25 deg C.	84,100	5010	695	
pH	9.5	7.4	7.8	
CALCIUM (Ca):	1810	152	43	
MAGNESIUM (Mg):	550	31	5.2	
POTASSIUM (K):	80	5.1	2.7	
SILICA (SiO_2):	37	23	20	
SODIUM (Na):	25,000	940	96	
SAR:	130	18	3.7	
BICARBONATE (HCO_3):	-	197	195	
CHLORIDE (Cl):	40,000	1661	99	
FLUORIDE (F):	0.1	0.4	0.6	
NITRATE (NO_3):	1.3	7.5	19	
ORTHO-PHOSPHATE (PO_4):	0.14	0.21	0.13	
SULFATE(SO_4):	5134	165	23	
SULFIDE (S):				
STRONTIUM (Sr):	33	1.4	0.3	

SITE NUMBER :	6	LANDOWNER:	BILL McCANDLESS
SITE LOCATION :	NW SW NW	ADDRESS :	ROUTE 1
LEGAL LOCATION:	SEC6 T25S R13W		St. JOHN, KANSAS 67576
COUNTY :	STAFFORD	PHONE NO.:	316-549-3356



, WELL LOCATION *


Well
Oil Well
36
31
32
FIELD
OIL
RATTLESNAKE SW
1
6
5
Oil Well
Oil Well
12
7
8
FIELD
ROSE VALLEY
Oil Well
Well
13
18
17
516
(BYERS)
6259 IV SE
517
R. 14 W.
R. 13 W.
518
47'30"
519
520
SCALE 1:24 000
7000 FEET
1 KILOMETER
ROAD C
Primary highway
hard surface
Secondary highway

WIRE LINE LOG DATA

Site #	Well #	Time	Date	Type of Log G=Gamma C=Cond. T=Temp.	Depth of Well From Log	Date Last Pumped	Comments
6	1	[redacted] p.m. 4:10	7/24/84	G	226 ft		Started logging from bottom of 136.5 ft

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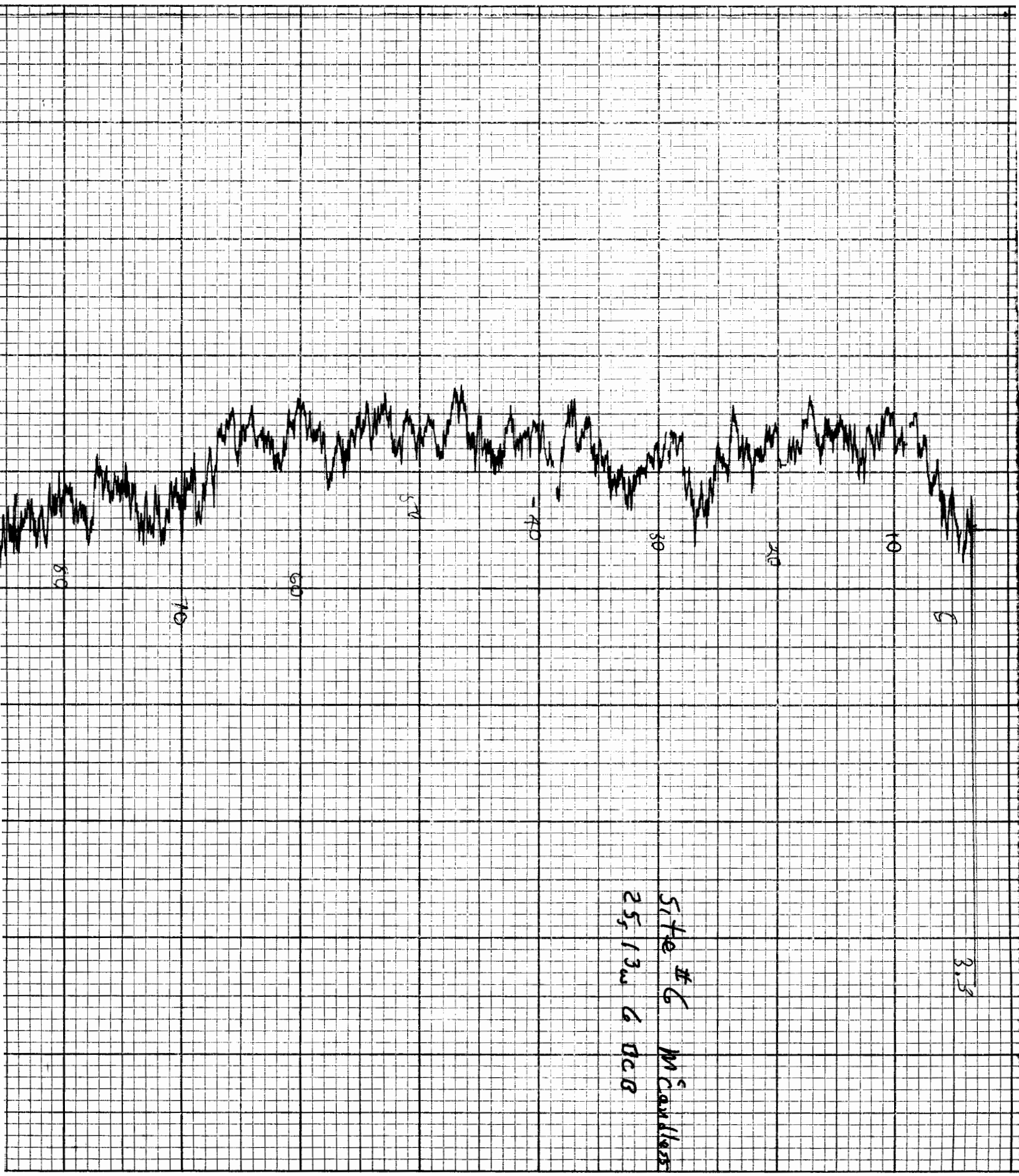

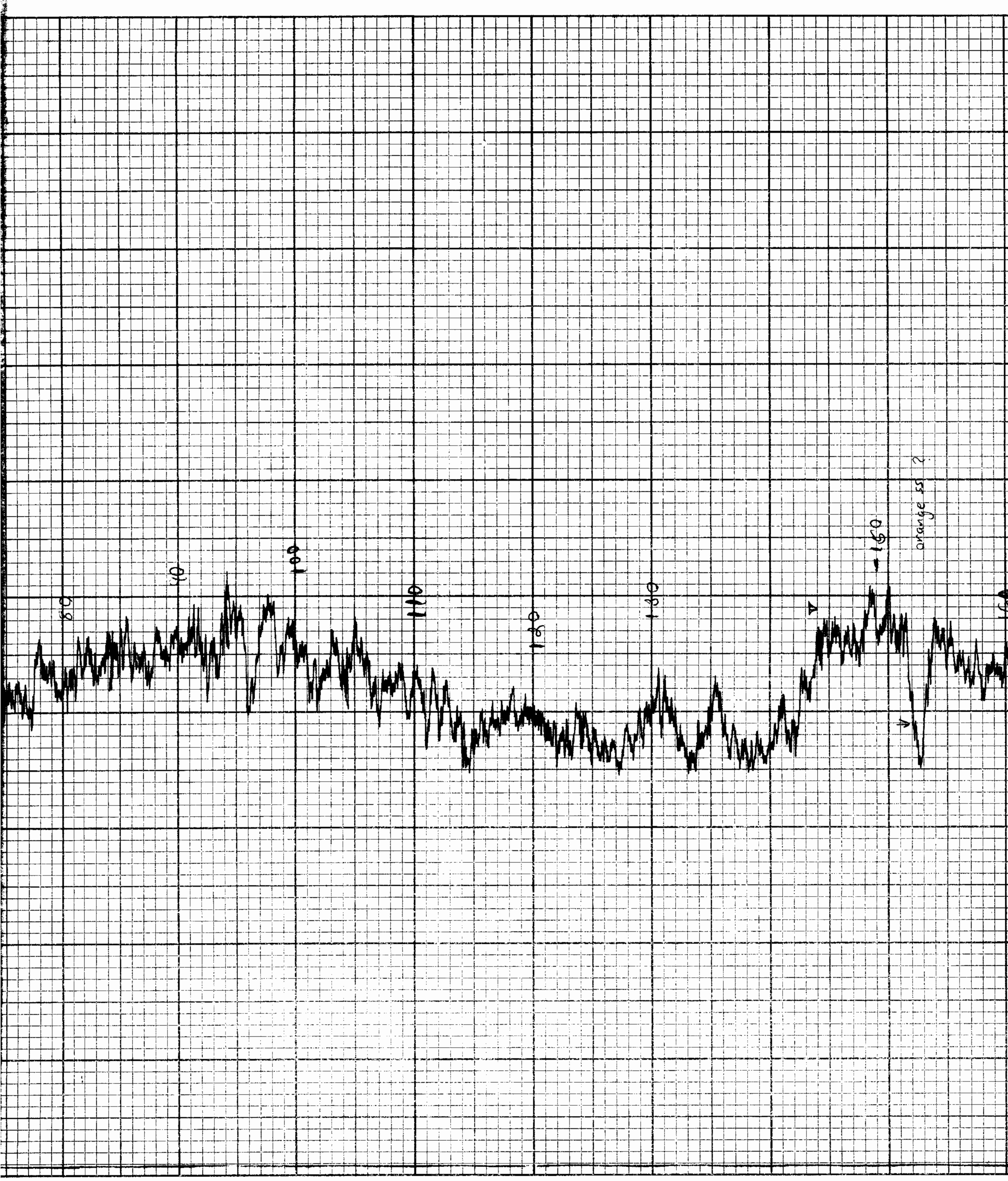

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