

# 75167 . Filed, (2)  
 at \_\_\_\_\_, 19\_\_\_\_,  
 \_\_\_\_\_ M.  
 \$2.00 fee paid

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

Twp 8 S, Rge 52 E  
9 52 3

RECEIVED  
 MAR 9 1964

DECLARATION OF VESTED GROUNDWATER RIGHTS  
 (Under Chapter 237, Montana Session Laws, 1961)

1. W. D. Fortner, of middle, Montana STATE ENGINEER,  
 County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to  
 the Montana Laws in effect prior to January 1, 1962, as follows:

	<u>85-52E</u> ✓	<u>88-52E</u> ✓	<u>88-52E</u>	<u>88-52E</u>	<u>88-52E</u> ✓	<u>93-52E</u> ✓
	Dec 35 ✓	Sec 27 ✓	Sec 34 ✓	Sec 34 ✓	Sec 35 ✓	Sec 3
W E L L S	No. <u>187</u>	No. <u>218</u>	No. <u>29</u>	No. <u>189</u>	No. <u>518</u>	No. <u>612</u>
2. Beneficial Use	Domestic	Stock	Stock	Domestic	Stock Domestic	Stock
3. DATE OF USE	1962	1948	1949	1957	1949	1950
How continuous	Constant	constant	constant	constant	constant	constant
4. Amount claimed (gal. per minute)	15 gpm	7 gpm	5 gpm	25 gpm	60 gpm	8 gpm
Irrigated description						
Irrigation owner						
5. Irrigated acreage						
6. Location	DOWN	SESE	DOWN	DOWN	DOWN	DOWN
Withdrawal means	Flow	Flow	Flow	Flow	Flow	Flow
7. Completion date	9-16-61	7-9-48	6-16-49	7-18-57	4-8-49	11-26-50
8. Water depth table	artesian wells (All)					
	-0-	-0-	-0-	-0-	-0-	-0-
Type (drilled or dug)	Drilled	Drilled	Drilled	Drilled	Drilled	Drilled
9. Size & depth	2" x 260'	2" x 265'	2" x 700'	2" x 1000'	2" x 650'	2" x 306'
10. Estimated annual amount withdrawn						
11. Other information	All flows controlled constantly at about 15 gpm.					
12. Log, if available						
		NO LOGS				

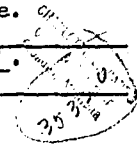
STATE OF MONTANA )  
 ) ss.  
 County of Powder River )

Signature of Owner /S/ W. D. Fortner

Date 12/26/63

W. D. Fortner having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing Declaration of Vested Groundwater Rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me this 26th day of December, 1963.



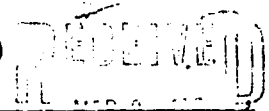
# 75192, Filed,  
19,  
 at        M.

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

Twp        S, Rge        E 54

Clerk and Recorder  
 \$2.00 fee paid

DECLARATION OF VESTED GROUNDWATER RIGHTS  
 (Under Chapter 237, Montana Session Laws, 1961)



1. ROLAND RUMPH - ERMA RUMPH, of       ,  
 County of POWDER RIVER, STATE OF MONTANA, have appropriated groundwater according to  
 the Montana Laws in effect prior to January 1, 1962, as follows:

STATE ENGINEER

	75-52E	75-52E ✓	75-50E	75-50E		
	+	+	+	+	+	+
	Sec. 34	Sec. 33	Sec. 26	Sec. 23	Sec.	Sec.
W E I L L S	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
2. Beneficial Use	Domestic	Domestic	Domestic	Domestic		
3. How continuously used	1964	1961	1967	1968		
4. Amount Claimed (gal. per minute)						
Irrigated description						
5. Irrigation owner						
6. Location (40 acres)	NEW	NEW	NEW	NEW		
6. Withdrawal means						
7. Completion date	1965	1961	1967	1968		
8. Water depth table						
Type (drilled or dug)	Drilled	Drilled	Drilled	Drilled		
9. Size & Depth						
10. Estimated annual amount withdrawn						
11. Other information						
12. Log, if available						

STATE OF MONTANA )  
 ) ss.  
 County of Powder River )  
ROLAND RUMPH  
      

Signature of Owner: Roland Rumph  
Erma Rumph  
 Date       

having first been duly sworn, deposes and says that he is of  
 lawful age and is the appropriator and claimant of the order and water right mentioned in  
 the foregoing Declaration of Vested Groundwater Rights and the person whose name is sub-  
 scribed thereto, as the appropriator and claimant, that he knows the contents of said  
 foregoing notice and that the matters and things therein stated are true.  
 Subscribed and sworn to before me this  
       day of       , 19      .

Clerk & Recorder, Powder  
 River County, Broadus, Montana

Roland Rumph

35333

# 75192, Filed,  
19  
at .M.

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Twp 54S, Rge 1E

Clerk and Recorder  
\$2.00 fee paid

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED

1. ROLAND RUMPH - ERMA RUMPH, of \_\_\_\_\_  
County of POWDER RIVER, STATE OF MONTANA, have appropriated groundwater according to  
the Montana Laws in effect prior to January 1, 1962, as follows:

STATE ENGINEER

	75-52E	75-52E	75-50E	75-50E		
	+	+	+	+	+	+
	Sec. 34	Sec. 33	Sec. 24	Sec. 23	Sec.	Sec.
W.F.I.S.	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
Basis of	Domestic	Domestic	Domestic	Domestic		
2. Beneficial Use	Stock	Stock	Stock	Stock		
DATE DRILLED	1935	1941	1937	1948		
3. How continuously used	Continuously	Continuously	Continuously	Continuously		
Amount Claimed						
4. (gal. per minute)				17		
Irrigated description						
Irrigation owner						
5. Irrigated acreage						
Location (40 acres)	NEW	SW	NE	SE		
6. Withdrawal means	Well	Well	Well	Well		
7. Completion date	1935	1941	1937	1948		
8. Water depth table	10'	20'	20'			
Type (drilled or dug)	Drilled	Drilled	Dug	Drilled		
9. Size & Depth	2" x 70'	2" x 100'	5" x 20'	2" x 70'		
Estimated annual						
10. amount withdrawn						
11. Other information						
12. Log, if available		NO LOG				

STATE OF MONTANA )  
County of Powder River ) ss.  
Roland Rumph

Signature of Owner: Roland Rumph  
Date 3/17/62

having first been duly sworn, deposes and says that he is of  
lawful age and is the appropriator and claimant of the order and water right mentioned in  
the foregoing Declaration of Vested Groundwater Rights and the person whose name is sub-  
scribed thereto, as the appropriator and claimant, that he knows the contents of said  
foregoing notice and that the matters and things therein stated are true.  
Subscribed and sworn to before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

Clerk & Recorder, Powder  
River County, Broadus, Montana

Roland Rumph

3533

# 75167 Filed,  
 \_\_\_\_\_, 19\_\_\_\_,  
 at \_\_\_\_\_ M.  
 \$2.00 fee paid

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

Twp \_\_\_\_\_ S, Rge \_\_\_\_\_ E

RECORDED  
 MAR 9 1961

DECLARATION OF VESTED GROUNDWATER RIGHTS  
 Clerk and Recorder (Under Chapter 237, Montana Session Laws, 1961)

1. W. D. FORTNER, of \_\_\_\_\_ STATE ENGINEER,  
 County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to  
 the Montana Laws in effect prior to January 1, 1962, as follows:

	95-52 E	95-52 E	95-52 E	95-52 E	95-52 E	95-52 E
	Sec. 1	Sec. 4	Sec. 15	Sec. 25	Sec. 13	Sec. 35
WELLS	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
2. Basis of Beneficial Use	Stock	Stock	Stock	Stock	Stock	Stock
3. DATE OF USE	1942	1942	1942	1943	1943	1942
3. How continuous	Continuous	Continuous	Continuous	Continuous	Continuous	Continuous
4. Amount claimed (gal. per minute)	10 gpm	10 gpm	10 gpm	10 gpm	10 gpm	10 gpm
Irrigated description						
Irrigation owner						
5. Irrigated acreage						
6. Location						
6. Withdrawal means						
7. Completion date	12-22-1942	12-14-42	1-2-42	12-30-46	1-30-43	7-24-41
8. Water depth table						
Type (drilled or dug)	Drilled	Drilled	Drilled	Drilled	Drilled	Drilled
9. Size & depth	12" x 160'	12" x 160'	12" x 160'	12" x 160'	12" x 160'	12" x 160'
10. Estimated annual Amount withdrawn						
11. Other information		25' down	controlled constantly	at about 15' down		
12. Log, if available						

STATE OF MONTANA )  
 ) ss.  
 County of Powder River)

Signature of Owner \_\_\_\_\_

Date \_\_\_\_\_

\_\_\_\_\_ having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing Declaration of Vested Groundwater Rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

# 75169 Filed, 19 at \_\_\_\_\_ M. \$2.00 fee paid

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Twp \_\_\_\_\_ S, Rge \_\_\_\_\_ E

RECEIVED  
MAR 9 1964

DECLARATION OF VESTED GROUNDWATER RIGHTS  
Clerk and Recorder (Under Chapter 237, Montana Session Laws, 1961)

1. W. D. Forney, of \_\_\_\_\_ STATE ENGINEER, County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

	9S-52E	9S-52E	9S-52E	9S-52E	9S-52E	8S-52E
	+	+	+	+	+	+
	Sec. 1	Sec. 4	Sec. 15	Sec. 25	Sec. 33	Sec. 35
WELLS	No. 15	No. 20	No. 305	No. 415	No. 517	No. 613
2. Beneficial Use	Stock	Stock	Stock	Stock	Stock	Stock
3. DATE OF USE	1952	1952	1952	1955	1953	1951
4. (gal. per minute)	10	10	10	10	7	15
5. Irrigated acreage						
6. Location	155	155	155	155	155	155
7. Completion date	11-30-50	10-15-50	1-2-52	11-30-56	2-20-53	7-25-51
8. Water depth table						
9. Type (drilled or dug)	Drilled	Drilled	Drilled	Drilled	Drilled	Drilled
10. Size & depth	20" x 150'	20" x 115'	20" x 125'	20" x 120'	20" x 118'	20" x 100'
11. Other information						
12. Log, if available						

STATE OF MONTANA )  
                          ) ss.  
County of Powder River )

Signature of Owner W. D. Forney

Date 3/9/64

\_\_\_\_\_ having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing Declaration of Vested Groundwater Rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me this 9th day of March, 1964

File No. 78301  
 Filed: 5-17 1966  
 at 9:01 A. M.  
Charlotte Edwards  
 Clerk and Recorder  
 Powder River County  
 By M. J. Williams  
 Deputy  
 Fee \$2.00

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER  
 STATE WATER CONSERVATION BOARD

T. 8 S. R. 52

MAY 26 1966

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL (Under Chapter 237, Montana Session Laws, 1961)  
 By McDermott  
McNulty  
Merton  
Sullivan  
Dickert

OWNER David Wagon Address Billie, Montana  
 DRILLER Frank R. Bandy Jr. Address Brookings, Montana  
 Date of Notice of Appropriation of Groundwater None Filed  
 Date well started May 12, 1966 Completed May 12, 1966  
 Type of well drilled Equipment used robby  
 (dug, driven, bored, drilled) (churn, drill, rotary, other)  
 Water Use: Domestic  Municipal  Stock  Other   
 Industrial  Drainage  Irrigation

Top of Ground (Elev. above sea level)

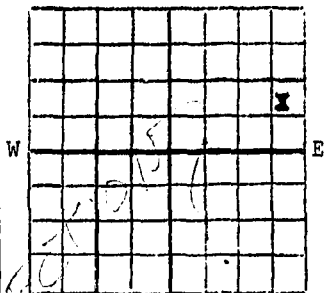
0-	21	Surface soil
21-	36	Gravel
36	100	Blue shale
100	186	Sand stone
186	181	Blue shale
181	187	Sand
187	408	Blue shale
408	226	Sand
226	516	Blue Shale
516	511	Sand
511	514	Hard rock
514	591	Sand
591	737	Blue shale
737	716	Sand
716	818	Blue Shale
818	906	Sand
906	1016	Blue shale
1016	1180	Sandy shale
1180	1210	Sand stone
1210		Hard Rock

Indicate on diagram character and thickness of different strata met in drilling -s, soil, clay, shale, gravel, rock, sand. Show depth at which water is found, thickness and character of water-bearing strata and height to which water rises in well.

Size of Drilled Hole	Size & Weight of Casing	From To (feet)		PERFORATIONS		
		Kind Size	From (feet)	To (feet)		
	2" galv. sand pipe		1210			

Static Water Level for non-flowing well \_\_\_\_\_ feet.  
 Shut-in Pressure for Flowing Well Artesian Caped at 100ft  
 Pumping Water Level \_\_\_\_\_ feet at 9 gal. per minute  
 Discharge in gal. per min. of flowing well 9 gal per minute  
 How Tested \_\_\_\_\_ Length of Test \_\_\_\_\_

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of use if not at well, other similar pertinent information, including number of acres irrigated, if any)



SE 1/4 Sec. T. 8 R. 52

STATE OF MONTANA )  
 County of Powder River )SS.

David Wagon having first been duly sworn, depose and say that he of lawful age and the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name subscribed thereto, as the appropriator and claimant, that he know the contents of said foregoing notice and that the matters and things therein stated are true.

226  
 Driller's License Number  
Frank Bandy Jr.  
 Driller's Signature

Subscribed and sworn to before me, this 17 day of May, 1966

CHARLOTTE EDWARDS  
 Clerk and Recorder  
Charlotte Edwards  
 41079

GROUNDWATER INDEX

County POWDER RIVER Twp. 8 SOUTH Rge. 53 EAST

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
2	SANBURN, J. N.		74286-1	} SAME FORM
2	" "		74286-1	
3	REITZ, P. A.	R/A		
5	STRINGFIELD, L. R.		74404	
7	SANBURN, J. N.		74286-1	SEE SEC. 2
10	RUE, LLOYD S.		74988	} SAME FORM
10	" "		74988	
10	PORCH, RODNEY E., ELDORA J.		72449	
12	SANBURN, J. N.		74286-1	} SEE SEC. 2
12	" "		74286-1	
12	" "		74286-1	
14	PORCH, RODNEY E.		74532	
15	RUE, LLOYD S.		74988	SEE SEC. 10
19	SCOFIELD, CHARLES A.		75238-2	
20	RUE, LLOYD S.		74988	SEE SEC. 10
21	GIACOMETTO, JOHN		85400	
21	BIDDLE LAND & CATTLE CO.		74952	} SAME FORM
22	" "		74952	
22	" "		74952	
22	RUE, LLOYD S.		74988	SEE SEC. 10
23	PORCH, RODNEY E. & ELDORA J.		72449	} SEE SEC. 10
24	" " "		72449	
24	" " "		72449	
25	BIDDLE LAND & CATTLE CO.		74952-2	} SAME FORM
26	" "		74952-2	
26	PORCH, RODNEY E. & ELDORA J.		72449	} SEE SEC. 10
26	" "		72449	
28	BIDDLE LAND & CATTLE CO.		74952	} SEE SEC. 21
29	" "		74952	
29	GIACOMETTO, JOHN		85401	
32	BIDDLE LAND & CATTLE CO.		74952	SEE SEC. 21
33	HAYES, FRANCIS J.		75224	} SAME FORM
34	" "		75224	
34	SAMS, ALLEN		74878	
35	BIDDLE LAND & CATTLE CO.		74952-2	} SEE SEC. 25
36	" "		74952-2	

2-17-7-8

File No. 71286-1  
 Filed June 21, 1963 at  
 1:05 P.M. \$2.00 fee pd.  
 Lucille Godsey, deputy  
 Clerk and Recorder

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

Twp 8 S, Rge 53 E

**RECEIVED**  
 JUN 26 1963

DECLARATION OF VESTED GROUNDWATER RIGHTS  
 (Under Chapter 237, Montana Session Laws, 1962)

1. J. N. Sanburn, of Broadus, Montana, **ENGINEER**  
 County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to the  
 Montana laws in effect prior to January 1, 1962, as follows:

WELLS	Sec. 2 <sup>x</sup>	Sec. 2 <sup>x</sup>	Sec. 12 <sup>x</sup>	Sec. 12 <sup>xx</sup>	Sec. 12 <sup>x</sup>	Sec. 7 <sup>x</sup>
	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
2. Basis of Beneficial Use	stock	stock	stock	domestic	stock	stock
3. Date of use	1925-30	1925-30	1925-30	1925-30	1925-30	1925-30
How continuous	constant	constant	constant	constant	constant	constant
4. Amount claimed	4 gpm	2 1/2 gpm	2 1/2 gpm	1 gpm	4 gpm	5 gpm
Irrigated description						
5. Irrigation owner						
Irrigated acreage						
6. Location	SWSE	NWSE	SESW	SESE	SESE	NWSE
Withdrawal means	FLOW	PUMP	FLOW	PUMP	FLOW	PUMP
7. Completion date	1925-30	1925-30	1925-30	1925-30	1925-30	1925-30
8. Water depth table	<del>unknown</del>	<del>unknown</del>	<del>unknown</del>	3 1/2'	flow	not known
Type	drilled	drilled	drilled	drilled	drilled	drilled
9. Size & depth	2" - 400'	2" x 400'	2" x 400'	4" - 400'	2" x 400'	4" x 400'
10. Estimated annual amount withdrawn						
11. Other information						
12. Log, if available						

STATE OF MONTANA )  
 ) ss.  
 County of Powder River )

Signature of Owner J. N. Sanburn

Date 6-7-63

J. N. Sanburn having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing declaration of vested groundwater rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me this  
7th day of June, 1963.  
Lucille Godsey deputy  
 Clerk and Recorder  
 Powder River County  
 Broadus, Montana

J. N. Sanburn

4776



STATE OF MONTANA



OIL AND GAS CONSERVATION COMMISSION

325 FULLER AVENUE  
BOX 217  
HELENA, MONTANA 59601

July 10, 1968

ADMINISTRATORS

NORMAN J. BEAUDRY, EXEC. SECT.  
P. O. BOX 217  
HELENA, MONTANA 59601  
JOHN H. RISKEN, ATTORNEY  
P. O. BOX 217  
HELENA, MONTANA 59601  
BILLY B. LANE, GEOLOGIST  
15 POLY DRIVE  
BILLINGS, MONTANA 59101  
GORDON D. LANQUETTE,  
PETROLEUM ENGINEER  
15 POLY DRIVE  
BILLINGS, MONTANA 59101

COMMISSIONERS

WINSTON L. COX, CHAIRMAN  
1925 GRAND AVENUE  
BILLINGS, MONTANA 59102  
CLYDE BREWER, VICE-CHAIRMAN  
P. O. BOX 284  
ROUNDUP, MONTANA 59072  
ALLEN ZIMMERMAN,  
P. O. BOX 277  
POPLAR, MONTANA 59258  
E. G. BALSAM,  
2900 PEARL  
MILES CITY, MONTANA 59501  
LYLE KASSEL,  
142 THIRD SOUTH  
SHELBY, MONTANA 59674

Water Conservation Board  
Water Resources Engineer  
Sam W. Mitchell Building  
Helena, Montana 59601

Dear Sir:

Enclosed you will find a Release Agreement concerning the Midwest  
Oil Corporations' Well No. 1 in Section 3, BS 53E.

This well has been transferred to P.A. Reitz to be used as a fresh  
water well.

Yours very truly,

*N. J. Beaudry*  
Norman J. Beaudry  
Executive Secretary

NJB/pz  
Enclosure

MONTANA WATER RESOURCES BOARD  
RECEIVED

JUL 10 1968  
7/14/68  
*Mansfield*

APPROVED BY:

Oil and Gas Conservation Commission

*G. D. Swartz*  
Petroleum Engineer or Executive Secretary

Dated: July 8 19 68

ENIA

WATER RESOURCES BOARD

1798

CONSERVATION COMMISSION  
OF THE STATE OF MONTANA



RELEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS, that I, P A REITZ

NEBRASKA of the County of DAWES in  
the State of ~~Montana~~, am the owner of the hereinafter described land upon which  
a well for oil or gas was drilled, to-wit:

Operator Midwest Oil Corporation

Lease Name P. A. Reitz

Well No. 1 Sec. 3 Twp. 23.00 Rge. 32E.

The well is located 1000 feet 8 of the south  
line and 1000 feet 8 of the east line.

*Powder River  
Co.*

That, in accordance with Regulation 233.6, Order No. 1-1, November 30, 1953,  
I do hereby notify the Oil and Gas Conservation Commission of the State of Mon-  
tana of my desire to utilize said well as a fresh water well; and, that if such  
utilization is approved, I do hereby release and discharge the operator herein-  
above named from any further work or responsibility in relation to the plugging  
of said well.

WITNESS my hand and seal this 2nd day of JULY 1968

P. A. Reitz (L.S.)  
Landowner  
Address Box # 1071,  
CHADRON, NEBRASKA 69337

IN THE PRESENCE OF:

Thomas C. Munkelton Address 137 Cedar St., Chadron, Nebr  
Ely Beach Address Regis Apt 2, Chadron, Nebr 69337

APPROVED BY:

Oil and Gas Conservation Commission  
[Signature]  
Petroleum Engineer or Executive Secretary

Dated: July 8 1968

ENCL. BOARDS

1778

General Rules and Regulations  
Order No. 1-1, Nov. 30, 1953  
Regulation 238.6

**WELLS USED FOR FRESH WATER**

When the well to be plugged may safely be used as a fresh water well, and such utilization is desired by the landowner, the well need not be filled above the required sealing plug set below fresh water; provided, that written notification of such utilization is secured from the landowner and filed with the Commission. Approval by the Petroleum Engineer of the work done shall relieve the operator of further responsibility.

File No. 74404

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JUL 22 1962

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. L. K. Springfield, of Montana,  
County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to the  
Montana laws in effect prior to January 1, 1962, as follows:

WELLS	8-52		8-53			
	Sec. 3	Sec. 4	Sec. 4	Sec. 4	Sec. 5	Sec. 6
	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
2. Basis of Beneficial Use	domestic & stock	stock				
3. Date of use	1910	July, 1954				
3. How continuous	continuous	continuous				
4. Amount claimed	56 gal. 20 min					
Irrigated description						
5. Irrigation owner						
5. Irrigated acreage						
6. Location	HOME	HOME				
6. Withdrawal means	flow	flow				
7. Completion date	1910	1954				
8. Water depth table	artesian	artesian				
9. Type	drilled	drilled				
9. Size & depth	2" x 300'	2" x 200'				
10. Estimated annual amount withdrawn						
11. Other information						
12. Log, if available	no logs					

STATE OF MONTANA )  
County of Powder River ) ss.

Signature of Owner L. K. Springfield

L. K. Springfield having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing declaration of vested groundwater rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.  
Subscribed and sworn to before me this  
12th day of July, 1962.

[Signature]  
Clerk and Recorder  
Powder River County  
Broadus, Montana

Date: July 12, 1962  
[Signature]

File No. 71988

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Twp 8 S, Rge 53 E

filed 12-10-63 at 2:20 pm  
\$3.00 P.D.  
Lucille D. Doherty, Deputy

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
DEC 23 1963

1. Lloyd S. Rue, of Broadus, County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

WELLS	Sec. 10	Sec. 10	Sec. 15	Sec. 23	Sec. 20	Sec.
	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
Basis of	Domestic	Domestic				
2. Beneficial Use	& Stock	& stock	stock	stock	stock	
3. Date of use	1915	1916	1930	1952	1961	
How continuous	constant	constant	constant	4 mo.	4 mo.	
4. Amount claimed	60 gpm	30 gpm	10 gpm	6 gpm	5 gpm	
Irrigated description						
5. Irrigation owner						
6. Location	SESW	SESW	NENW	SWNE	NWSW	
Withdrawal means	artesian	artesian	artesian	artesian	pump	
7. Completion date	1915	1916	1930	1959	1961	
8. Water depth table	191' -0"	185' -0"	231' -0"	228' -0"	160'	
Type	drilled	drilled	drilled	drilled	drilled	
9. Size & depth	2 1/2" x 110'	2 1/2" x 185'	2" x 210'	2" x 238'	2" x 220'	
Estimated annual						
10. Amount withdrawn						
11. Other information						
12. Log, if available						

STATE OF MONTANA )  
County of Powder River ) ss.

Signature of Owner Lloyd S. Rue

Date 11-15-63

Lloyd S. Rue having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing declaration of vested groundwater rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true. Subscribed and sworn to before me this

15th day of November, 19 63

Lucille D. Doherty Deputy  
Clerk and Recorder  
Powder River County  
Broadus, Montana

Lloyd S. Rue

4773

File No. 72-449  
 Filed March 29, 1962  
 at 1:40 p.m.  
 \$2.00 fee paid

*check books*  
*Flanagan*  
 STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

Twp 8 S, Rge 53 E  
**RECEIVED**  
 APR 2 1962

*Francis Bradley deputy*  
 Clerk & Recorder

DECLARATION OF VESTED GROUNDWATER RIGHTS  
 (Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Rodney E. and Eldora J. Perch, of Broadus,  
 County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to the  
 Montana laws in effect prior to January 1, 1962, as follows:

	Sec. 10	Sec. 23	Sec. 24	Sec. 24	Sec. 26	Sec. 26
WELLS	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
Basis of				Stock		
2. Beneficial Use	Stock	Stock	Stock	House	Stock	Stock
3. Date of use						
How continuous	Summer	Yearly	Yearly	12 Months	Summer	Summer
4. Amount claimed	3 Gal/min	4 Gal/min	3 Gal/min	5 Gal/Min.	3 Gal/Min.	
Irrigated description						
5. Irrigation owner				Garden		
6. Withdrawal means	Windmill	Flowing	Flowing	Jack Pump	Pump	Windmill
7. Completion date		11/3/55	8/24/59			
8. Water depth table				35 Ft.		
9. Size & depth	2"	2"	2"	2"	4" casing	
Estimated annual						
10. Amount withdrawn	777600 Gal.	2102400 G.	1576800 G.	777600 G.		
11. Other information						1/2 Interest
12. Log, if available	None	No. 2 Well 0-26 Clay & Sandy 26-43 Shale 43-44 Rock 44-49 Shale 49-50 Rock 50-54 Sand 54-125 Shale 125-130 Sand 130-138 Shale 138-146 Shale 146-147 Rock 147-204 Sand rock 204-207 Rock 207-215 Sand Rock 215-226 Sand Rock 226-280 Shale 280-310 Sand rock 310-350 Shale 350-380 Shale 380-420 Sandy Shale 420-490 Sand flow Well No. 3 0-40 Clay 40-160 Shale 160-180 Sand 180-200 Coal 200-400 Shale 400-406 Rock 406-460 Shale 460-500 Sand				

STATE OF MONTANA )  
 ) ss.  
 County of Powder River )

Signature of Owner Rodney E. Perch

Date March 29, 1962

Rodney E. Perch having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing declaration of vested groundwater rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.  
 Subscribed and sworn to before me this  
29th day of March, 1962.

*Francis Bradley deputy*  
 Clerk and Recorder  
 Powder River County  
 Broadus, Montana

Rodney E. Perch

GW3

File No. 74532  
Filed August 28, 1963 at 1:00 P.M.  
DUPLICATE Lucille Godsey, deputy  
\$2.00 pd. Clerk & Recorder

T. & R. 5 E E  
County Powell River

SW

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
AUG 30 1963

STATE ENGINEER

### Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater June 10, 1963

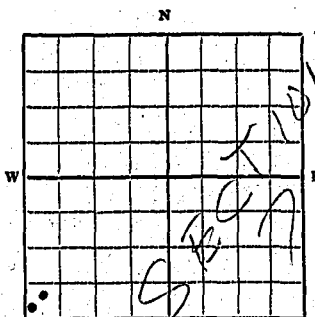
Owner Rodney C. Pouch Address Brantford

Contractor (if any)

Address of Contractor

Date Started June 4, 1963 Date Completed June 10, 1963

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.



development of spring

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

1 gal per minute, 10 minutes

of the year - permanent water

Sec. 14 T. R.  
Indicate point of appropriation and place of use, if possible.

Signature of Owner Rodney C. Pouch

Date July 22, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

File No. 74532  
Filed August 28, 1963 at 1:00 P.M.  
ORIGINAL Lucille Godsey, deputy  
\$2.00 pd. Clerk & Recorder

T. 8 S. R. 5 E E  
County *Broadwater*

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Notice of Completion of Groundwater Appropriation Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater *June 10, 1963*

Owner *Rodney E. Borck* Address *Broadwater*

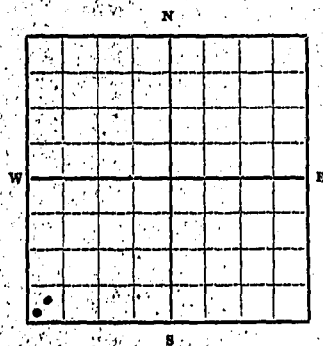
Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started *June 6, 1963* Date Completed *June 10, 1963*

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.

*development of spring*



Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use \_\_\_\_\_

*July 1963* Sec. 14, T. 8, R. 5 E

Indicate point of appropriation and place of use, if possible.

*1 gal. per minute, six months of the year - summer water*

Signature of Owner *Rodney E. Borck*

Date *July 22, 1963*

This form to be prepared by contractor (if any), otherwise by the owner.  
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.  
Please answer all questions. If not applicable, so state, otherwise the form will be returned.  
Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.





75238, Filed, (2)  
 at \_\_\_\_\_, 19\_\_\_\_, (2)  
 at \_\_\_\_\_ .M.

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

Twp 8 S, Rge 2 E 15

RECEIVED  
 MAR 9 1964  
 STATE ENGINEER

Clerk and Recorder  
 \$2.00 fee paid

DECLARATION OF VESTED GROUNDWATER RIGHTS  
 (Under Chapter 237, Montana Session Laws, 1961)

1. Charles L. Scofield, of Broadus, Montana,  
 County of POWDER RIVER, STATE OF MONTANA, have appropriated groundwater according to  
 the Montana Laws in effect prior to January 1, 1962, as follows:

	Sec. 15	Sec. 27	Sec. 27	Sec. 32	Sec. 39	Sec. 39
W E L L S	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
Basis of	Stock	Stock	Stock	Stock	Stock	Stock
2. Beneficial Use	Stock	Stock	Stock	Stock	Stock	Stock
DATE DRILLED	1953	1953	1953	Natural	spring	spring
3. How continuously used	const.	const.	const.	const.	const.	const.
Amount Claimed						
4. (gal. per minute)	8 gpm	6 gpm	2 gpm	-0-	-0-	-0-
Irrigated description						
Irrigation owner						
% Irrigated acreage						
Location (40 acres)	SE 1/4	SE 1/4	SE 1/4	SE 1/4	SE 1/4	SE 1/4
6. Withdrawal means	All artesian	Flow	Flow	Flow	Flow	Flow
7. Completion date	1953	1953	1953	-0-	-0-	-0-
8. Water depth table	Flow	Flow	Flow	Flow	Flow	Flow
Type (drilled or dug)	drilled	drilled	drilled	spring	spring	spring
9. Size & Depth	2" x 600'	2" x 550'	2" x 750'	-0-	-0-	-0-
Estimated annual						
10. amount withdrawn	5,000,000	3,200,000	1,500,000	Not measured		
11. Other information						
12. Log, if available		NO LOGS				

STATE OF MONTANA )  
 ) ss.  
 County of Powder River )

Signature of Owner: /s/ Charles L. Scofield

Date 12/30/63

Charles L. Scofield having first been duly sworn, deposes and says that he is of  
 lawful age and is the appropriator and claimant of the order and water right mentioned in  
 the foregoing Declaration of Vested Groundwater Rights and the person whose name is sub-  
 scribed thereto, as the appropriator and claimant, that he knows the contents of said  
 foregoing notice and that the matters and things therein stated are true.  
 Subscribed and sworn to before me this

30th day of December, 1963.

Clerk & Recorder, Powder  
 River County, Broadus, Montana

35352

File No. 85400  
 Filed: 12-2 1969  
 at 2:00 P. M.

INDEXED

CW -

Notice of COMPLETION of Groundwater  
 Appropriation by Means of Well  
 Powder River County (Under Chapter 237, Montana Session Laws, 1961)

Twp. 8 Rge 53

OWNER John Giacometto Address Boyes, Mont.  
 Top of Ground -  
 Elev. above sea level. DRILLER Earl Drane Address Broadus, Mont.

Date of Notice of Appropriation of Groundwater \_\_\_\_\_  
 Date well started 8-68 Completed 8-68  
 Type of Well drilled Equipment Used rotary  
 (dug, driven, bored, drilled) (churn, drill, rotary, etc)  
 Water Use: Domestic \_\_\_; Municipal \_\_\_; Stock X; Other \_\_\_;  
 Industrial \_\_\_; Drainage \_\_\_; Irrigation \_\_\_;  
 Indicate on diagram character and thickness of different strata  
 met in drilling -ei, soil, clay, shale, gravel, rock, sand. Show  
 depth at which water is found, thickness and character of water-  
 bearing strata and height to which water rises in well.

0 - 5  
 5 - 30  
 30 - 32  
 32 - 34  
 34 - 40  
 40 - 85  
 85 - 87  
 87 - 96  
 96 - 125  
 125 - 175  
 175 - 217  
 217 - 221

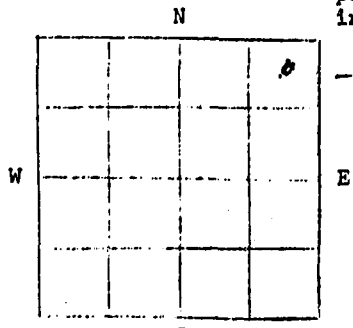
5 top soil  
 30 sand & gravel  
 32 sandy shale  
 34 rock  
 40 shale  
 85 sand  
 87 rock  
 96 blue shale  
 125 blue sand  
 175 blue shale  
 217 sand  
 221 shale

Size of Drilled Hole	Size and Weight of Casing	From (feet)	To (feet)	Perforations		
				Kind	From (feet)	To (feet)
6"	4" 10#	0	221	1/2"x4" Slotts	181	221

Static Water Level for non-flowing well \_\_\_\_\_ feet  
 Shut-in Pressure for Flowing Well \_\_\_\_\_  
 Pumping Water Level \_\_\_\_\_ feet at \_\_\_\_\_ gal. per minute.  
 Discharge in Gal. per min. of flowing well 10  
 How Tested \_\_\_\_\_ Length of Test \_\_\_\_\_

Remarks: (Gravel packing, cementing, packers, type of shut-off, location of use if not at well, other similar pertinent information, including number of acres irrigated, if any.)

NE-NE 21



Sec 21, Twp. 8, Rge 53 East.

20  
 Driller's License NO.  
Earl Drane  
 Driller's Signature

MONTANA WATER RESOURCES BOARD  
**RECEIVED**  
 DEC 3 1969

STATE OF MONTANA)  
 County of Powder River) ss.

\_\_\_\_\_ having first been duly sworn, deposes and says that he is of lawful age and the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Owner's Signature John Giacometto

Subscribed and sworn to before me, this 2 day of Dec, 1969.

Charlotte Edwards  
 Clerk and Recorder  
 By Helen Y. Truitt Deputy

(45929)

# 44952 . Filed,  
12-10, 1963,  
 at 1:28 P. M.  
 \$2.00 fee paid

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

8-53  
~~8-52~~  
 Twp 5-53 S, Rpe 3  
 21

**R** E C E I V E D  
 DEC 23 1963

Lucille Boddy, deputy  
 Clerk and Recorder

DECLARATION OF VESTED GROUNDWATER RIGHTS  
 (Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. \_\_\_\_\_, of \_\_\_\_\_  
 County of POWDER RIVER, State of MONTANA, have vested rights in the groundwater according to  
 the Montana Laws in effect prior to January 1, 1962, as follows:

	8-53 Sec. <u>21</u> No. 1	8-53 Sec. <u>22</u> No. 2	8-53 Sec. <u>22</u> No. 3	8-53 Sec. <u>25</u> No. 4	8-53 Sec. <u>29</u> No. 5	8-53 Sec. <u>32</u> No. 6
WELLS						
2. Basis of Beneficial Use	stock	stock	stock	domestic & stock	domestic & stock	stock
3. DATE OF USE						
How continuous	1920	1954	1957	1957	1915	1954
Amount claimed (gal. per minute)	constant	constant	constant	constant	constant	constant
4. Irrigated description	2	6	10	7	3	5
Irrigation owner						
5. Irrigated acreage						
6. Location						
Withdrawal means	artesian	windmill	artesian	windmill	artesian	slow pump
7. Completion date	1920	1954	1957	1957	1915	1954
8. Water depth table	-0-	70'	-0-	80'	-0-	215'
Type (drilled or dug)	drilled	drilled	drilled	drilled	drilled	drilled
9. Size & depth	2" x 500'	4" x 150'	2" x 585'	4" x 180'	2" x 600'	4" x 370'
10. Estimated annual amount withdrawn						
11. Other information						
12. Log, if available						

STATE OF MONTANA )  
 ) ss.  
 County of Powder River)

Signature of Owner Biddle Land & Cattle Co.  
By: [Signature]

Date

\_\_\_\_\_ having first been duly sworn, deposes and says that he is of lawful age and is the proprietor and claimant of the order and water rights mentioned in the foregoing Declaration of Vested Groundwater Rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 1963

29th

November

63

Lucille Boddy deputy

(11736)

# 74952 -2-  
 Filed, 19\_\_\_\_,  
 at \_\_\_\_\_ M.  
 \$2.00 fee paid

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

8-53  
 8-54  
 8-55  
 Twp 2-5-5, Rge     E

RECEIVED  
 DEC 23 1963

DECLARATION OF VESTED GROUNDWATER RIGHTS  
 (Under Chapter 237, Montana Session Laws, 1961)

1. Biddle Land and Cattle Co., of Biddle STATE ENGINEER  
 County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to  
 the Montana Laws in effect prior to January 1, 1962, as follows:

	8-53	8-53	8-53	8-53	8-54	8-54
	Sec. 25	Sec. 26	Sec. 35	Sec. 36	Sec. 19	Sec. 30
WELLS	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12
2. Basis of Beneficial Use	stock	stock	stock	stock	stock	stock
3. DATE OF USE	1942	1943	1942	1954	1944	1912
How continuous	constant	constant	constant	constant	constant	constant
4. Amount claimed (gal. per minute)	7	6	5	4	4	3
Irrigated description						
Irrigation owner						
5. Irrigated acreage						
6. Location	WNEE	NENE	NWSW	NWSE	NWSW	SNEE
Withdrawal means	pump	windmill	windmill	windmill	windmill	pump
7. Completion date	1942	1943	1942	1954	1944	1912
8. Water depth table	60'	40'	50'	60'	70'	40'
Type (drilled or dug)	drilled	drilled	drilled	drilled	drilled	drilled
9. Size & depth	4" x 110'	4" x 120'	4" x 130'	4" x 160'	4" x 180'	4" x 150'
10. Estimated annual Amount withdrawn						
11. Other information						
12. Log, if available						

STATE OF MONTANA )  
 ) ss.  
 County of Powder River)

Signature of Owner Biddle Land & Cattle Co.  
 by /s/ Verlin Popp  
 Date 11-29-63

having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing Declaration of Vested Groundwater Rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

File No. 85401  
Filed: 12-2-1969  
at 2:01 P.M.

INDEXED

Sec. 29

SWNW

Charlotte Edwards  
Clerk and Recorder  
Powder River County (Under Chapter 237, Montana Session Laws, 1961)

Notice of COMPLETION of Groundwater  
Appropriation by Means of Well

OWNER John Giacometto Address Boyes, Montana  
Top of Ground -  
Elev. above sea level. DRILLER Bandy Drilling Address Broadus, Montana

Date of Notice of Appropriation of Groundwater

Fl.	Fl.	Formation	1 started	Completed
0	5	Surficial	4/16/69	4/18/69
5	51	Sandy clay		
51	58	Sandy shale		
58	141	Blue shale		
141	173	Sandstone		
173	228	Blue shale		
228	364	Sandstone		
364	374	Blue shale		
374	507	Sandstone		
507	522	Blue shale		

Well Drilled Equipment Used Rotary  
ivon, bored, drilled) (churn, drill, rotary, etc)

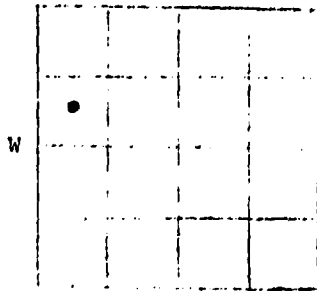
Use: Domestic; Municipal; Stock; Other;  
Industrial; Drainage; Irrigation;

on diagram character and thickness of different strata  
filling - silt, soil, clay, shale, gravel, rock, sand. Show  
which water is found, thickness and character of water-  
strata and height to which water rises in well.

Size of Drilled Hole	Size and Weight of Casing	From (feet)	To (feet)	Perforations		
				Kind	From (feet)	To (feet)
2"	2"	0	520	1/2"	420	520

Static Water Level for non-flowing well \_\_\_\_\_ feet  
Shut-in Pressure for Flowing Well \_\_\_\_\_  
Pumping Water Level \_\_\_\_\_ feet at 18 gal. per minute  
Discharge in Gal. per min. of flowing well \_\_\_\_\_  
How Tested \_\_\_\_\_ Length of Test \_\_\_\_\_

Remarks: (Gravel packing, cementing, packers, type of shut-off, location of use if not at well, other similar pertinent information, including number of acres irrigated, if any.)



Driller's License NO. \_\_\_\_\_

Remarks: Cond. 511/2 gal.  
57 ft 4" Sand pipe  
Shut in pressure 15 lbs  
Maclean Egan  
Driller.

SWNW Sec 29, Twp. 8, Rge. 53 East.

MONTANA WATER RESOURCES BOARD  
**RECEIVED**

DEC 3 1969

STATE OF MONTANA)  
County of Powder River) ss.

John Giacometto having first been duly sworn, deposes and says that he is of lawful age and the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Owner's Signature John Giacometto

Subscribed and sworn to before me, this 2 day of December, 1969.

Charlotte Edwards  
Clerk and Recorder, Powder River Co.  
Broadus, Montana

(15928)



DECLARATION OF VESTED GROUNDWATER RIGHTS  
 (Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
 DEC 23 1963

1. Allen Sams, of Big Lake, Montana, County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

WELLS	8-53 ✓		9-53			
	Sec. 31	Sec. 31	Sec.	Sec.	Sec.	Sec.
No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 6
2. Beneficial Use	domestic	stock				
3. Date of use	1920	1915				
How continuous	constant	occasional				
4. Amount claimed	10 cpm	8 cpm				
Irrigated description						
5. Irrigation owner						
6. Withdrawal means	well	well				
7. Completion date	1920	1915				
8. Water depth table	62'	62-73'				
Type	drilled	drilled				
9. Size & depth	4" x 210'	4" x 100'				
10. Amount withdrawn						
11. Other information						
12. Log, if available						

STATE OF MONTANA )  
 County of Powder River ) ss.

Signature of Owner Allen Sams

Date 11-21-63

Allen Sams having first been duly sworn, deposed and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing declaration of vested groundwater rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me this 14th day of November, 1963.

Lucille Nelson Deputy  
 Clerk and Recorder  
 Powder River County  
 Broadus, Montana

Allen Sams

11731



County POWDER RIVER Twp. 8 SOUTH Rge. 5 EAST

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
2	GIACOMETTO, JOHN		83859	
2	GIACOMETTO, JOHN		74966	
5	JONES, JOHN P.		75011	
7	SANBURN, J. N.	GW-2	86019	
8	JONES, JOHN P.		75011	SEE SEC. 5
8	GIACOMETTO, JOHN		74966-2	} SAME FORM
8	" "		74966-2	
8	" "		74966-2	
8	" "		74966-2	
9	GIACOMETTO, JOHN		74966	SEE SEC. 2
9	GIACOMETTO, JOHN		83858	
10	GIACOMETTO, JOHN		74966	SEE SEC. 2
12	BELTZ, HAROLD		75130	
16	GIACOMETTO, JOHN		74966	SEE SEC. 2
17	JONES, JOHN P.		75011	} SEE SEC. 5
18	" "		75011	
19	" "		75011	
19	BIDDLE LAND & CATTLE CO.		74952-2	
21	GARY, SAMUEL	GW-1	85923	
21	GIACOMETTO, JOHN	GW-2	80498	
21	GARY, SAMUEL	GW-2	86089	
22	HALLIBURTON CO.	GW-2	81106	
23	MALLEY, HENRY A.		74977	} SAME FORM
24	" "		74977	
24	RIESLAND, ELMO		74975	
27	GIACOMETTO, JOHN		74966	SEE SEC. 2
27	GIACOMETTO, JOHN		84983	
27	GIACOMETTO, JOHN		84984	
27	GIACOMETTO, JOHN		84982	
27	TIGER OIL CO.	GW-2	80900	
27	GETTER TRUCKING CO.	GW-2	80945	
27	GEORGE RAKES INC.		82167	
27	GARY, SAMUEL	GW-1	84823	
27	BELL CREEK PIPE LINE	GW-2	80489	
27	GARY, SAMUEL		85557	
25	MALLEY, HENRY A.		74977	} SEE SEC. 23
25	" "		74977	
26	" "		74977	
26	" "		74977	
27	WESTERN OIL TRANSPORTATION	GW-2	80566	
27	GARY, SAMUEL		80551	
28	WARFORD, ROGER	WELL LOG	71849	
28	WARFORD, ROGER		74667	
28	BIDDLE LAND & CATTLE CO.		74952-3	} SAME FORM
29	" "		74952-3	
29	WARFORD, ROGER		74667	



File No. 83859  
 Filed: 1-7 1969  
 at 9:09 A.M.  
Charlotte Edwards  
 Clerk and Recorder  
 Powder River County  
 By: Myrtle M. Tideman, Deputy  
 INDEXED  
 Fee: \$2.00

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

MONTANA WATER RESOURCES BOARD  
 T 8 R 54  
 NENE Sec 2  
**RECEIVED**  
 JAN 9 1969

NOTICE OF COMPLETION OF GROUNDWATER  
 APPROPRIATION BY MEANS OF WELL  
 (Under Chapter 237, Montana Session Laws, 1961)

Top of Ground  
 (Elev. above sea  
 level)

0-3	Surface Soil
3-30	Blue Shale
30-122	Sand Stone
122-308	Blue Shale
308-350	Sand Stone

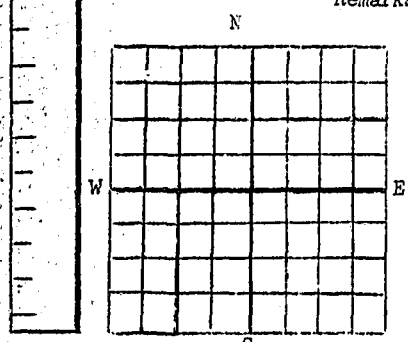
OWNER John Giacometto Address Boyes, Mont. 59316  
 DRILLER Frank Bandy Jr. Address Broadus, Mont. 59317  
 Date of Notice of Appropriation of Groundwater 11/12/64  
 Date well started \_\_\_\_\_ Completed 11/12/64  
 Type of well drilled Equipment used rotary  
 (dug, driven, bored, drilled) (churn, drill, rotary, other)  
 Water Use: Domestic  Municipal  Stock  Other   
 Industrial  Drainage  Irrigation

Indicate on diagram character and thickness of different strata met in drilling - soil, clay, shale, gravel, rock, sand. Show depth at which water is found, thickness and character of water-bearing strata and height to which water rises in well.

Size of Drilled Hole	Size & Weight of Casing	From To		PERFORATIONS		
		(feet)	(feet)	Kind Size	From (feet)	To (feet)
4" X 350'	4" X 352'					

Static Water Level for non-flowing well \_\_\_\_\_ feet.  
 Shut-in Pressure for Flowing Well \_\_\_\_\_  
 Pumping Water Level 140' feet at 18 gal. per minute  
 Discharge in gal. per min. of flowing well \_\_\_\_\_  
 How Tested \_\_\_\_\_ Length of Test \_\_\_\_\_

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of use if not at well, other similar pertinent information, including number of acres irrigated, if any)



NENE 1/2 Sec. T.8 R. 54

Driller's License Number \_\_\_\_\_  
Frank Bandy Jr.  
 Driller's Signature

STATE OF MONTANA )  
 County of Powder River SS.

John Giacometto having first been duly sworn, depose and say that he of lawful age and the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name subscribed thereto, as the appropriator and claimant, that he know the contents of said foregoing notice and that the matters and things therein stated are true.

John Giacometto

Subscribed and sworn to before me, this 7<sup>th</sup> day of January, 1969

44,908  
Charlotte Edwards  
 Clerk & Recorder  
 By: Myrtle M. Tideman, Deputy

File No. 74966  
 filed 12-10-63 at 1:36 PM  
 520 pd.  
 Lucille Stray, deputy

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

Twp 7 S, Rge 31 E  
 RECEIVED  
 DEC 23 1963

DECLARATION OF VESTED GROUNDWATER RIGHTS  
 (Under Chapter 237, Montana Session Laws, 1961)

1. John Giacometto, of Boyer STATE ENGINEER,  
 County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to the  
 Montana laws in effect prior to January 1, 1962, as follows:

	8-5h	8-5h	7-5h ✓	8-5h	8-5h	8-5h	
	Sec. 16	Sec. 9	Sec. 36	Sec. 10	Sec. 27	Sec. 2	
WELLS	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	
2. Beneficial Use	stock	stock	stock	stock	stock	stock	
3. Date of use	1947	1953	1951	1942	1947	1932	
How continuous	all year	8 mo	8 mo	none	8 mo	4 mo	
4. Amount claimed	15 gpm	10 gpm	10 gpm	10 gpm	10 gpm	10 gpm	
Irrigated description							
5. Irrigation owner							
6. Withdrawal means	SWSW artesian	SESE PUMP	SWNW PUMP	SESW PUMP	SWNW PUMP	NENE PUMP	
7. Completion date	1947	1953	1951	1942	1947	1932	
8. Water depth table	artesian	206'	206'	350'	230'	260'	
Type	drilled	drilled	drilled	drilled	drilled	drilled	
9. Size & depth	3" x 225'	1" x 206'	1" x 206'	3" x 350'	3" x 230'	3" x 260'	
10. Estimated annual amount withdrawn							
11. Other information							
12. Log, if available	none	#2 0-4 clay 4-60 yellow sand 60-80 gravel & clay 80-90 blue clay 90-100 blue sandstone 100-160 blue clay 160-162 rock 162-180 blue clay 180-187 rock 187-200 blue sand 200-206 shale	none	#2 0-4 sandy topsoil -62 yellow sand -112 blue clay -115 rock -175 blue shale -177 rock -202 blue sandstone -206 shale sand	none	#4 30 brown sandy clay 210 blue clay 260 grey soapstone 340 blue shale 350 water sand	

STATE OF MONTANA )  
 County of Powder River ) ss.

Signature of Owner John Giacometto

Date 11-18-63

John Giacometto having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing declaration of vested groundwater rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me this 18 day of November, 1963.

Lucille Stray deputy  
 Clerk and Recorder  
 Powder River County  
 Broadus, Montana

John Giacometto

11750

# 75011 Filed,  
12-10, 1963,  
 at 3:06 P. M.  
 \$2.00 fee paid

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

Twps 8 S, Rge 51 E

**RECEIVED**  
 DEC 23 1963

Inelle Godsey, deputy Clerk and Recorder  
 DECLARATION OF VESTED GROUNDWATER RIGHTS  
 (Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. John P. Jones, of Riddle,  
 County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to  
 the Montana Laws in effect prior to January 1, 1962, as follows:

	Sec. 19	Sec. 5	Sec. 8	Sec. 18	Sec. 17	Sec.
WELLS	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
2. Basis of Beneficial Use	Stock	Stock	Dam & Stee Stock	Dam & Stee Stock	Stock	
3. DATE OF USE	1959 6 months	1960 6 months	1957 constant	1957 10 mon.	1960 6 months	
4. How continuous Amount claimed (gal. per minute)	5 gpm	5 gpm	5 gpm	5 gpm	5 gpm	
5. Irrigated description						
6. Irrigation owner						
7. Irrigated acreage						
8. Location	SWNE	SWNE	SESE	SESE	NWNE	
9. Withdrawal means	pump	pump	pump	pump	artesian	
10. Completion date	1959	1960	1957-	1957	1960	
11. Water depth table	280'	10'	180'	50'	-	
12. Type (drilled or dug)	drilled	drilled	drilled	drilled	drilled	
13. Size & depth	4"x300'	4"x300'	4"x200'	4"x150'	4"x340'	
14. Estimated annual Amount withdrawn						
15. Other information						
16. Log, if available						
		<u>NO LOGS</u>				

STATE OF MONTANA )  
 ) ss.  
 County of Powder River)

Signature of Owner John P. Jones

Date 12/10/63

John P. Jones having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing Declaration of Vested Groundwater Rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me this 10th day of December, 1963.

Inelle Godsey, deputy  
 11796

MONTANA WATER RESOURCES BOARD  
**RECEIVED**

7-8 2-52  
7-54  
County... Powder River

MAY 25 1970

DRILLER'S LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 257 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner **J. N. SANBURN**

Address **BROADUS, MONTANA**

Date well started **4-8-70**

completed **4-10-70**

Type of well **drilled**

Equipment used **rotary**

Water Use: Domestic  Municipal  Stock  Irrigation

Industrial  Drainage  Other  Garden/Lawn

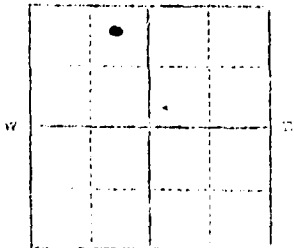
Describe use: if used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Hole	Size and Weight of Casing	Casing Depth (Feet)	D.I. (Feet)	APPROPRIATIONS		
				Wind Area	From (Feet)	To (Feet)
6"	4" I.D.	0	340	1/2x4" slots	180 300	230 340

SUPPORTING DOCUMENTS REVIEWED AND FOUND TO BE SUFFICIENT - INITIALS: *[Signature]*

*files for 3 years*



Static water level **126** ft.

Pumping water level **144** ft.

at **9** gallons per minute,

measured **9** minutes after pumping began.

\*Measured from ground level.

Well developed by **bailing & pumping**

for **2** hours.

Power **2** HP

Remarks: (Gravel packing, cementing, packers, type of shut-off)

packer at **112** ft.

NE NW 1/4 Sec. 7  
T. 8 R. 54

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature *Earl Drane*

Driller's Address *Broadus Montana*

LICENSE NO. 20

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	18	clay
18	90	yellow sand
90	97	blue clay
97	103	rock
103	130	brown clay
130	150	blue clay
150	156	rock
156	230	hard blue sandstone
230	300	blue shale
300	312	blue sand
312	340	sandy shale

86019  
FILED  
COUNTY CLERK and RECORDER  
Office of Recorder, Montana  
County of Powder River  
I hereby certify that the within instrument was filed for record in  
this office on the 25th day of  
April, 1970 A.D.  
By *[Signature]* County Clerk and Recorder.  
Paid

Doc No. **86019**  
Filed for record  
this **25** day of **April**  
A.D. 19**70** at **4:45**  
o'clock **P** M.

**340** Show exact depth of bottom

46485

# 74966 Filed, <sup>-2-</sup>  
 at \_\_\_\_\_, 19\_\_\_\_,  
 at \_\_\_\_\_ M.  
 \$2.00 fee paid

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

Twp A S. Rge 54 E

**RECEIVED**  
 DEC 23 1963

DECLARATION OF VESTED GROUNDWATER RIGHTS  
 (Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. John Giacomo, of Boyes  
 County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to  
 the Montana Laws in effect prior to January 1, 1962, as follows:

WELLS	8-54		8-54		8-54		8-54	
	No. 27	No. 28	No. 29	No. 30	No. 5	No. 6	No. 7	No. 8
2. Basis of Beneficial Use	stock	domestic & stock	stock	stock				
3. DATE OF USE	1958	1955	1928	1944				
How continuous	constant	constant	constant	constant				
4. Amount claimed (gal. per minute)	10 gpm	10 gpm	10 gpm	10 gpm				
Irrigated description								
Irrigation owner								
5. Irrigated acreage								
6. Location	NESE	NESE	NESE	NESE				
Withdrawal means	pump	pump	pump	pump				
7. Completion date	1958	1955	1928	1944				
8. Water depth table	127'	200'	300'	160'				
Type (drilled or dug)	drilled	drilled	drilled	drilled				
9. Size & depth	1" x 213'	3" x 300'	2" x 380'	1" x 190'				
Estimated annual								
10. Amount withdrawn								
11. Other information								
12. Log, if available	#7 25-surface soil 42-yellow clay 67 blue shale 72 sandstone 127 blue shale 210 water sand	none	none	none				

STATE OF MONTANA )  
 ) ss.  
 County of Powder River)

Signature of Owner /s/ John Giacomo

Date 11-18-63

Having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water rights mentioned in the foregoing Declaration of Vested Groundwater Rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

11750-A

File No. 83858  
 Filed: 1-7 1969  
 at 9:08 A. M.  
C. Charlotte Edwards  
 Clerk and Recorder  
 Powder River County  
 By: Myrtle M. Edinger, Deputy

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE MONTANA WATER RESOURCES CODE  
 OFFICE OF STATE ENGINEER

T 8 R 54  
 RECEIVED

JAN 9 1969

INDEXED

NOTICE OF COMPLETION OF GROUNDWATER  
 APPROPRIATION BY MEANS OF WELL  
 (Under Chapter 237, Montana Session Laws, 1961)

Top of Ground (Elev. above sea level)  
 0 - 24 Surface soil  
 24 - 36 Yellow Clay  
 36 - 67 Blue Shale  
 67 - 139 Sand Stone  
 139 - 158 Blue Shale  
 158 - 165 Sand Stone  
 165 - 176 Blue Shale  
 176 - 216 Sand Stone  
 216 - 230 Blue Shale

OWNER John Giacometto Address Boyes, Montana 59316

DRILLER Frank Bandy Jr. Address Broadus, Montana 5931

Date of Notice of Appropriation of Groundwater 4/24/64

Date well started \_\_\_\_\_ Completed 4/24/64

Type of well drilled Equipment used Rotary  
 (dug, driven, bored, drilled) (churn, drill, rotary, other)

Water Use: Domestic  Municipal  Stock  Other   
 Industrial  Drainage  Irrigation

Indicate on diagram character and thickness of different strata met in drilling -e, soil, clay, shale, gravel, rock, sand. Show depth at which water is found, thickness and character of water-bearing strata and height to which water rises in well.

Size of Drilled Hole	Size & Weight of Casing	From To		PERFORATIONS		
		(feet)	(feet)	Kind Size	From (feet)	To (feet)
4" X 230'	4" X 232'					

Static Water Level for non-flowing well 160' feet.

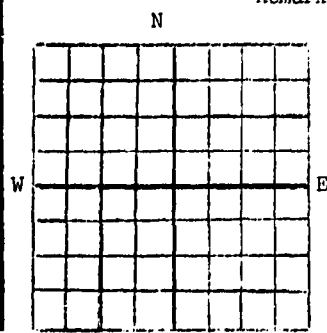
Shut-in Pressure for Flowing Well \_\_\_\_\_

Pumping Water Level 160' feet at 15 gal. per minute

Discharge in gal. per min. of flowing well \_\_\_\_\_

How Tested \_\_\_\_\_ Length of Test \_\_\_\_\_

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of use if not at well, other similar pertinent information, including number of acres irrigated, if any)



NWNE - 1/4 Sec. T. 8 R. 54

STATE OF MONTANA )  
 County of Powder River SS.

John Giacometto having first been duly sworn, depose and say that he \_\_\_\_\_ of lawful age and \_\_\_\_\_ the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name \_\_\_\_\_ subscribed thereto, as the appropriator and claimant, that he know the contents of said foregoing notice and that the matters and things therein stated are true.

Driller's License Number \_\_\_\_\_  
Frank Bandy Jr.  
 Driller's Signature

Subscribed and sworn to before me, this 7<sup>th</sup> day of January, 1969

C. Charlotte Edwards  
 Clerk - Recorder  
 By: Myrtle M. Edinger, Deputy

44,907



# 75130 Filed, 12-20, 1963, at 9:25 A. M. \$2.00 fee paid

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

RECEIVED MAR 9 1964

Billings County, Montana DECLARATION OF VESTED GROUNDWATER RIGHTS Clerk and Recorder (Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Harold Belts, of Boyce, Montana, County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to the Montana Laws in effect prior to January 1, 1962, as follows:

Table with 7 columns (Sec. 1-6) and 12 rows (WELLS, Basis of Beneficial Use, DATE OF USE, etc.).

STATE OF MONTANA ) ss. County of Powder River)

Signature of Owner Harold Belts

Date 12/20/63

Harold Belts having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing Declaration of Vested Groundwater Rights...

Subscribed and sworn to before me this 20th day of December, 1963

Signature of Clerk and Recorder Charlotte Edwa... 35295

# 74752. Filed,  
at \_\_\_\_\_, 19\_\_\_\_,  
\$2.00 fee paid

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Twp \_\_\_\_\_ S, Rge \_\_\_\_\_ E

RECEIVED  
DEC 23 1961

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

*Biddleland*

1. Biddleland Cattle Co., of Biddle County of POWDER RIVER, State of MONTANA, have appropriated groundwater according to the Montana Laws in effect prior to January 1, 1962, as follows:

	0-25	0-26	0-35	0-36	0-54	0-54
	Sec. 25	Sec. 26	Sec. 35	Sec. 36	Sec. 17	Sec. 30
WELLS	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12
2. Basis of Beneficial Use	stock	stock	stock	stock	stock	stock
3. DATE OF USE	1942	1943	1942	1954	1944	1912
4. How continuous	constant	constant	constant	constant	constant	constant
Amount claimed (gal. per minute)	7	6	5	4	4	3
5. Irrigated description						
Irrigation owner						
5. Irrigated acreage						
6. Location	EAST	EAST	WEST	EAST	WEST	EAST
Withdrawal means	pump	windmill	windmill	windmill	windmill	pump
7. Completion date	1942	1943	1942	1954	1944	1912
8. Water depth table	60'	40'	50'	60'	70'	40'
Type (drilled or dug)	drilled	drilled	drilled	drilled	drilled	drilled
9. Size & depth	4" x 110'	4" x 120'	4" x 130'	4" x 160'	4" x 180'	4" x 150'
10. Estimated annual Amount withdrawn						
11. Other information						
12. Log, if available						

STATE OF MONTANA )  
County of Powder River ) ss. Signature of Owner Biddleland Cattle Co.  
by /s/ Verlin Popp  
Date 12-23-61

\_\_\_\_\_ having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing Declaration of Vested Groundwater Rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.



LOCATE WELL CORRECTLY


Form No. 4  
(Gen. Rule 204.1 & 221)

(SUBMIT IN TRIPLICATE)  
TO  
OIL AND GAS CONSERVATION COMMISSION  
OF THE STATE OF MONTANA  
BILLINGS OR SHELBY

**LOG OF WELL**

Bell Creek  
Madison

Company Samuel Gary Lease BELL CREEK "A" MUDDY SAND UNIT #2 Well No.       

Address 300 Great Plains Building, Casper, Wyo (or Area) Bell Creek Field

The well is located 1530 ft. from (N) line and 330 ft. from (E) line of Sec. 21

Sec. 21; T. 8S; R. 54E; County Powder River; Elevation 3620' GL. 3632'  
(D.F., R.B. or G.L.) KB

Commenced drilling 4-8-70, 19  ; Completed 5-7-70, 19  

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as Water Well (oil well, gas well, dry hole) Signed Fred A. Haddenhorst

Title Production Manager

Date June 5, 1970

**IMPORTANT ZONES OF POROSITY**

(denote oil by O, gas by G, water by W; state formation if known)

From 6990' to 7190' Madison - W From        to         
From        to        From        to         
From        to        From        to         
From        to        From        to       

**CASING RECORD**

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Spcks of Cement	Cut and Pulled from
13-3/4"	48#				0	178'	150	
9-5/8"	40#	J-55	8R	7335'	0	7329'	900	

**TUBING RECORD**

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2-7/8"	6.5#	J-55	8R	7204'	

**COMPLETION RECORD**

Rotary tools were used from 0 to 8000'  
Cable tools were used from        to         
Total depth 8000 ft.; Plugged back to 7279' T.D.; Open hole from        to       

PERFORATIONS			ACIDIZED, SHOT, SAND FRACTURED, CEMENTED			
Interval	Number and Size and Type	Pressure	Interval	Amount of Material Used	Pressure	
From	To		From	To		
6990'	7190'					

(If P&A show plugs above)

**INITIAL PRODUCTION**

Well is producing from Madison (pool) formation.  
water  
L.P. 30,000 barrels of WT per day 80% Flowing  
(pumping or flowing)  
Mcft of gas per        hours.  
barrels of water per        hours        % W.C.

RECEIVED

JUN 9 1970

46 558



DATA SHEET

OPERATOR: Samuel Gary

WELL NO.: #2 Unit - Madison Water Well

LOCATION: <sup>N. 1/4 Sec. 21</sup> SW <sup>1/4</sup> Section 22, Township 8 South, Range 54 East

COUNTY: Powder River

STATE: Montana

AREA: Bell Creek

ELEVATION: 3620' Ground Level 3632' Kelly Bushing

CONTRACTOR: Lohman-Johnson  
Pusher: Al Wells

EQUIPMENT: Rig No. 1  
Powered by: Two 571 GMC Diesels  
Derrick: 127' L. C. Moore  
Pump: 1. Emasco D-500  
2. Oilwell 214  
Pipe: 4 1/2" FH Collars: 6 1/4" x 2 1/4"

COMMENCED: April 8, 1970

SURFACE PIPE: 13-3/4" at 178' with 150 sacks

DRILLING FLUID: Oil-emulsion-chemical and High pH

CORING: None

DRILL STEM TESTING: None

GEOLOGIST: O. P. Miles, Jr. - Casper, Wyoming

LOGGING: Schlumberger Well Surveying Corporation  
IES 180-8013'  
GR-Sonic 4200-8013'

TOTAL DEPTH: 3000' Driller 8014' Schlumberger

FINISHED DRILLING: May 7, 1970

STATUS: Water supply well

MONTANA WATER RESOURCES BOARD  
RECEIVED

JUN 9 1970

WELL HISTORY

Date	Depth	Remarks
1970		
April 8	179'	Spudded 8:00 a.m., drilled 12 1/4" hole to 175', reamed to 17 1/2" to 179', ran 13-3/4" surface casing to 178', and cemented with 150 sacks regular cement, 3% CaCl. Plug down 8:00 p.m. WOC.
	9 326'	Drilled out at 8:45 p.m., making 12 1/4" hole.
	10 1689'	Drilling.
	11 2511'	Drilling.
	12 3630'	Drilling.
	13 4351'	Drilling.
	14 4692'	Drilling.
	15 4950'	Drilling.
	16 5243'	Drilling.
	17 5485'	Drilling.
	18 5829'	Drilling.
	19 6015'	Drilling.
	20 6208'	Drilling.
	21 6392'	Drilling.
	22 6497'	Drilling.
	23 6571'	Drilling.
	24 6599'	Drilling. Lost 16 hours, pump clutch out.
	25 6630'	Down 13 hours, repairing pump.
	26 6719'	Drilling.
	27 6822'	Drilling.
	28 6974'	Drilling.
	29 7100'	Drilling.
	30 7176'	Stuck pipe, spotted 50 bbl. oil.
May	1 7176'	Working stuck pipe, spotted 100 bbl. oil.
	2 7267'	Freed pipe, conditioned hole, drilled ahead.
	3 7436'	Reduced hole to 8-3/4" at 7436'. Changed drill collars to 6-1/8".
	4 7546'	Drilling.
	5 7643'	Drilling.
	6 7821'	Drilling.
	7 8000'	Drilled to Total Depth 8000', conditioned hole to run logs.
	8 8014'	Ran Schlumberger IES, CR-Sonic Logs, Schlumberger Total Depth 8014'. Preparing to run 9-5/8" casing.

DEVIATION RECORD

Date	Depth	Deviation
4-10-70	1100'	1/2°
4-11-70	1950'	3/4°
4-12-70	3150'	1/2°
4-16-70	5248'	2-1/4°
4-18-70	5659'	2-1/2°
4-19-70	5980'	1/2°
5-4-70	7546'	1-3/4°

BWT RECORD

No.	Size	Make	Type	Depth Out	Footage	Hours	Remarks
1	12-1/4"	Hughes	OSC3AJ	2261'	2082'	35-1/4	
2	12-1/4"	"	OSC3AJ	4351'	1690'	46-1/2	
3	"	"	OSC3J	4387'	536'	26-1/2	
4	"	"	OSC1G-J	5248'	361'	23-1/4	
5	"	"	OSC1GJ	5659'	411'	30-1/4	
6	"	"	OSC1GJ	5980'	321'	23-1/2	
7	"	"	ODVJ	6297'	317'	33	
8	"	"	WD7J	6413'	116'	16-1/4	
9	"	"	WD7J	6519'	106'	17-1/2	
10	"	"	WD7J	6599'	80'	21-1/4	
11	"	"	WD7J	6719'	120'	29-1/2	
12	"	"	ODVJ	6358'	139'	21	
13	"	"	ODVJ	7176'	318'	38	
14	"	"	ODVJ	7436'	260'	31-1/2	
15	8-3/4"	Hughes	OSVJ	7546'	110'	12-1/4	
16	"	"	WDY	7643'	97'	19-3/4	
17	"	"	WD7	7828'	185'	20-1/2	
18	"	"	ODVJ	8000'	172'	10-1/2	



Formation Tops

<u>Formation</u>	<u>Sample Top</u>	<u>E-Log Top</u>	<u>Datum</u>
Pierre	---	696'	12936
Eagle	---	1897'	11735
Niobrara	---	2756'	1 876
Mowry	---	4153'	- 521
Muddy Formation	---	4336'	- 704
Muddy Sandstone	---	4370'	- 738
Skull Creek	---	4400'	-768
Fall River	---	4655'	-1023
Lakota	---	4746'	-1114
Morrison	---	4877'	-1245
Sundance	---	5030'	-1398
Piper	---	5240'	-1608
Spearfish	---	5438'	-1806
Minnekahta	---	6075'	-2443
Opesche	---	6100'	-2468
Minnelusa	6160'	6166'	-2534
Madison	6870'	6848'	-3216
Stony Mountain	7630'	7636'	-4006
Red River	7710'	7724'	-4092
Total Depth	8000'	8014'	-4382

SAMPLE DESCRIPTION

10' samples begin at 6130'

Samples not lagged.

<u>Dep'ts</u>	<u>Lithology</u>
6130-6160	Shale, pale red to brick red, soft, occasionally slightly silty, some mottled light grey; occasional trace white very fine crystalline anhydrite.
6165	<u>TOP MI NEELUSA</u>
6160-6190	Sandstone, white to pale buff, fine, subround, tight, poor permeability and porosity.
6190-6220	Sandstone, as above, mostly loose grains - (poor samples) - sand appears soft with good permeability and porosity, no show.
6220-6250	Sandstone, white, fine, subround; with scattered medium rounded frosted grains, soft friable, good permeability and porosity.
6250-6270	Sandstone, as above; trace limestone, light grey to light brown, micro-granular, soft.
6270-6300	Sandstone, buff, fine to very fine, soft, friable, fair to good permeability and porosity, no show.
6300-6330	Sandstone, as above, slightly reddish, slightly anhydritic.
6330-6340	Sandstone, as above, some dolomite, white to pink, micro-granular, soft.
6340-6350	Dolomite, white to pink, micro-granular to very fine crystalline; trace pink chert.
6350-6360	Dolomite, cream to pink, very fine, crystalline, traces sandstone, white to pink, fine to very fine, slightly dolomitic; traces white, very fine crystalline anhydrite.
6360-6400	Dolomite, cream to pink, micro-granular; trace white very fine crystalline anhydrite.
6400-6410	Dolomite, cream to tan, microgranular, some slightly sandy; trace chert.
6410-6420	Dolomite, as above; trace shale, medium grey.
6420-6430	Sandstone, buff to pink, fine to very fine, subrounded, dolomitic, poor permeability and porosity.
6430-6440	Sandstone, as above; some dolomite, cream to pink, microgranular, hard.
6440-6460	Dolomite, as above.
6460-6470	Dolomite, tan to pink, microgranular; trace chert.
6470-6480	Dolomite, as above; traces sandstone, fine, subrounded, dolomitic, hard, tight.
6480-6490	Sandstone, white, fine to very fine, slightly dolomitic, friable, soft, fair permeability and porosity.
6490-6500	Dolomite, pink, lavender, very fine, granular.
6500-6520	Sandstone, pink, fine, subrounded, with scattered medium rounded, frosted grains, slightly dolomitic, hard, tight.
6520-6530	Dolomite, pink, cream, microgranular, soft; traces shale, medium grey.
6530-6540	Dolomite, as above.
6540-6570	Dolomite, cream to faintly pink, microcrystalline.
6570-6580	Dolomite, as above, some light grey, occasional trace chert.
6580-6590	Dolomite, white, microcrystalline, hard; trace chert.
6590-6600	Dolomite, as above; trace shale, medium grey and lavender.
6600-6610	Dolomite, pink, very fine, granular to very fine crystalline, hard.
6610-6620	Dolomite, white to light grey, microcrystalline, lumpy.
6620-6660	Limestone, white to pale buff, microcrystalline, dolomitic, scattered very small inclusions, very fine crystalline anhydrite.

<u>Depth</u>	<u>Lithology</u>
6660-6690	Limestone, tan to light brown, very fine crystalline, hard, slightly dolomitic.
6690-6730	Limestone, as above, some shale, gray and brown, dolomitic, firm.
6700-6710	Shale, brown, grey and red mottled.
6710-6720	Limestone, light grey to pink, very fine, crystalline.
6720-6750	Shale, medium grey, dolomitic, firm.
6750-6760	Sandstone, white, limy, fine to coarse, poorly sorted, very friable (mostly loose grains).
6760-6770	Limestone, white, very fine, crystalline, dense.
6770-6800	Limestone, tan, very fine crystalline to very fine granular; trace chert.
6800-6810	Limestone, tan to pink, very fine crystalline, some fragmental, some chalky, with coarse quartz grains imbedded.
6810-6820	Limestone, as above; traces sandstone, white, fine to medium subround, friable.
6820-6830	Limestone, as above; traces lavender shale, slightly dolomitic.
6830-6840	Limestone, as above; some sandstone, fine to coarse, limy, white, friable.
6840-6870	Limestone, white, chalky, fragmental to very fine crystalline, occasionally sandy, some shale orange to red, firm.

6648

WGP MARLSON

6970-6910	Limestone, white to tan, very fine crystalline, some fragmental, slightly sandy limestone; trace chert.
6910-6920	Limestone, white, very fine, fragmental, partly chalky, scattered pseudo-oolites.
6920-6970	Limestone, as above; tan, trace chert, few pinpoint vugs.
6970-7010	Limestone, light tan, fine, granular to fine fragmental, some sucrosic.
7010-7020	Limestone, as above; some limestone, pink, earthy, soft.
7020-7030	Limestone, tan, fine fragmental to fine granular, soft; trace chert.
7030-7040	Dolomite, tan, very fine, crystalline, dense.
7040-7050	Limestone, tan, very fine granular, dolomitic.
7050-7070	Limestone, white to tan, very fine granular, soft; traces chert; trace shale, red to brown, limy, soft.
7070-7130	Dolomite, light tan, very fine crystalline, dense, some very fine granular, limy, some pinpoint porosity.
7130-7140	Limestone, white to pale red, earthy, soft.
7140-7160	Dolomite, tan to cream, very fine granular, limy.
7160-7170	Dolomite, as above; scattered vugs; with traces of dead oil? stain.
7170-7190	Samples 100% cavings due to hole trouble.
7190-7220	Dolomite, tan, very fine granular, scattered small vugs, limy (16% oil in mud).
7220-7240	Dolomite, cream to tan, fine granular, slightly vuggy, sucrosic, some pink microcrystalline dolomite.
7240-7260	Dolomite, light brown, fine granular, sucrosic, slightly vuggy.
7260-7340	Dolomite, as above, tan, limy.
7340-7360	Limestone, light grey to tan, very fine, granular, slightly dolomitic.
7360-7380	Dolomite, grey to tan, very finely granular, sucrosic, limy, some intercalated red shale.
7380-7410	Limestone, tan, fragmental to very fine granular, slightly dolomitic.
7410-7430	Limestone, as above, some cream microcrystalline; few calcite filled vugs.
7430-7470	Limestone, white to cream, microgranular to very fine crystalline, partly chalky, soft.
7470-7520	Limestone, cream, microcrystalline to fragmental, scattered oolites.
7520-7550	Limestone, cream to tan, very fine, granular, few sand grains imbedded.
7550-7570	Limestone, light grey to tan, very fine, granular to very fine crystalline; with scattered sand grains.

<u>Depth</u>	<u>Lithology</u>
7570-7590	Limestone, light gray, very finely crystalline; with some orange argillaceous traces light gray limy shale.
7590-7610	Shale, red, orange to gray, limy, traces green.
7610-7630	Limestone, tan, very finely granular to fragmental, slightly dolomitic.

7635 TOP MOON MOUNTAIN

7630-7640	Dolomite, cream, microcrystalline, hard, dense.
7640-7690	Dolomite, white to pale gray, microcrystalline, hard, dense.
7690-7700	Dolomite, as above; traces shale, red, yellow.
7700-7710	Shale, mostly red, some gray, lavender.

7724 TOP END RIVER

7710-7760	Dolomite, white to cream, very finely granular, sucrosic, fairly soft.
7760-7800	Dolomite, cream to tan, very finely granular, sucrosic, firm, fair porosity, few pieces with slight trace dead oil stain, very spotty.
7800-7810	Dolomite, cream to tan, very finely granular, sucrosic, occasional vug, limy.
7810-7820	Dolomite, as above; some shale, red and grey, mottled, soft.
7820-7830	Dolomite, cream, very finely crystalline to sublithographic, some pink, very fine crystalline.
7830-7870	Dolomite, white, very finely crystalline to microcrystalline, dense.
7870-7890	Dolomite, tan, microcrystalline.
7890-7920	Dolomite, white to cream, very finely granular, sucrosic.
7920-7930	Dolomite, as above; occasional piece has some black "dead" tarry residue; some fine granular sucrosic; with fair permeability and porosity, soft.
7930-7970	Dolomite, light brown to tan, finely granular, sucrosic, fair permeability and porosity, soft, occasional piece has faint spotty dead oil stain, limy.
7970-7980	Dolomite, tan, very finely granular, sucrosic, firm; trace dark red shale.
7980-8000	Dolomite, as above; traces very light spotty dead stain.

TOTAL DEPTH: Driller 8000'  
Schlumberger 8014'

*O.P. Miles, Jr.*  
\_\_\_\_\_  
O.P. Miles, Jr.

RECEIVED

GW 2

DW 2

NOV 17 1967

File No. 80498  
Filed: Nov 16 1967  
at 9:08 A. M.  
Charles Edwards  
Clerk and Recorder  
Powder River County (Under Chapter 237, Montana Session Laws, 1961)

Notice of COMPLETION of Groundwater \_\_\_\_\_  
Appropriation by Means of Well \_\_\_\_\_  
\_\_\_\_\_ Rge \_\_\_\_\_

OWNER John Giacometto Address Boyes, Montana

Top of Ground -  
Elev. above sea level. DRILLER Samuel Gary Address 1700 Broadway, Denver

Date of Notice of Appropriation of Groundwater \_\_\_\_\_

Date well started 10-14-67 Completed 10-25-67

Type of Well drilled Equipment Used Rotary  
(dug, driven, bored, drilled) (churn, drill, rotary, etc)

Water Use: Domestic \_\_\_\_\_; Municipal \_\_\_\_\_; Stock \_\_\_\_\_; Other \_\_\_\_\_;  
Industrial \_\_\_\_\_; Drainage \_\_\_\_\_; Irrigation \_\_\_\_\_

Indicate on diagram character and thickness of different strata met in drilling - i. e., soil, clay, shale, gravel, rock, sand. Show depth at which water is found, thickness and character of water-bearing strata and height to which water rises in well.

See Attached Log

Size of Drilled Hole	Size and Weight of Casing	From (feet)	To (feet)	Perforations		
				Kind	From (feet)	To (feet)
			575		438	474
					478	480
					482	487
12 1/2"	8 5/8" OD 24#/Fu Surface			1"	502	522

Static Water Level for non-flowing well 281 feet

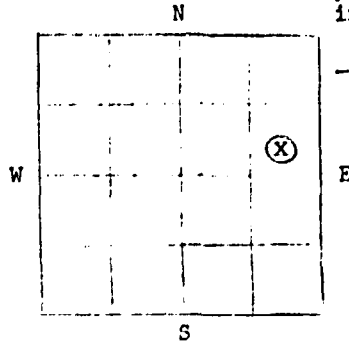
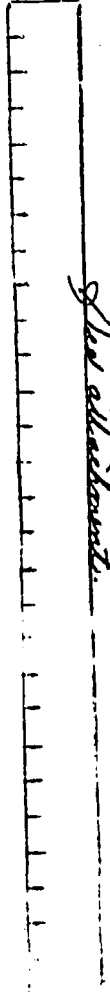
Shut-in Pressure for Flowing Well \_\_\_\_\_

Pumping Water Level 250 feet at 110 gal. per minute.

Discharge in Gal. per min. of flowing well \_\_\_\_\_

How Tested Estimated Length of Test 24 hours

Remarks: (Gravel packing, cementing, packers, type of shut-off, location of use if not at well, other similar pertinent information, including number of acres irrigated, if any.)



Sec 21, Twp. 8S, Rge 54 East.

Driller's License No. \_\_\_\_\_

Driller's Signature \_\_\_\_\_

Sworn to this 7th day of \_\_\_\_\_, 1967

My Term Expires: Jan. 4, 1971 Campbell \_\_\_\_\_

Wyoming

STATE OF MONTANA ss.  
County of Campbell

M. V. Smith having first been duly sworn, deposes and says that he is of lawful age and the appropriator and claimant of the order and water right mention in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein state are true.

Owner's Signature \_\_\_\_\_

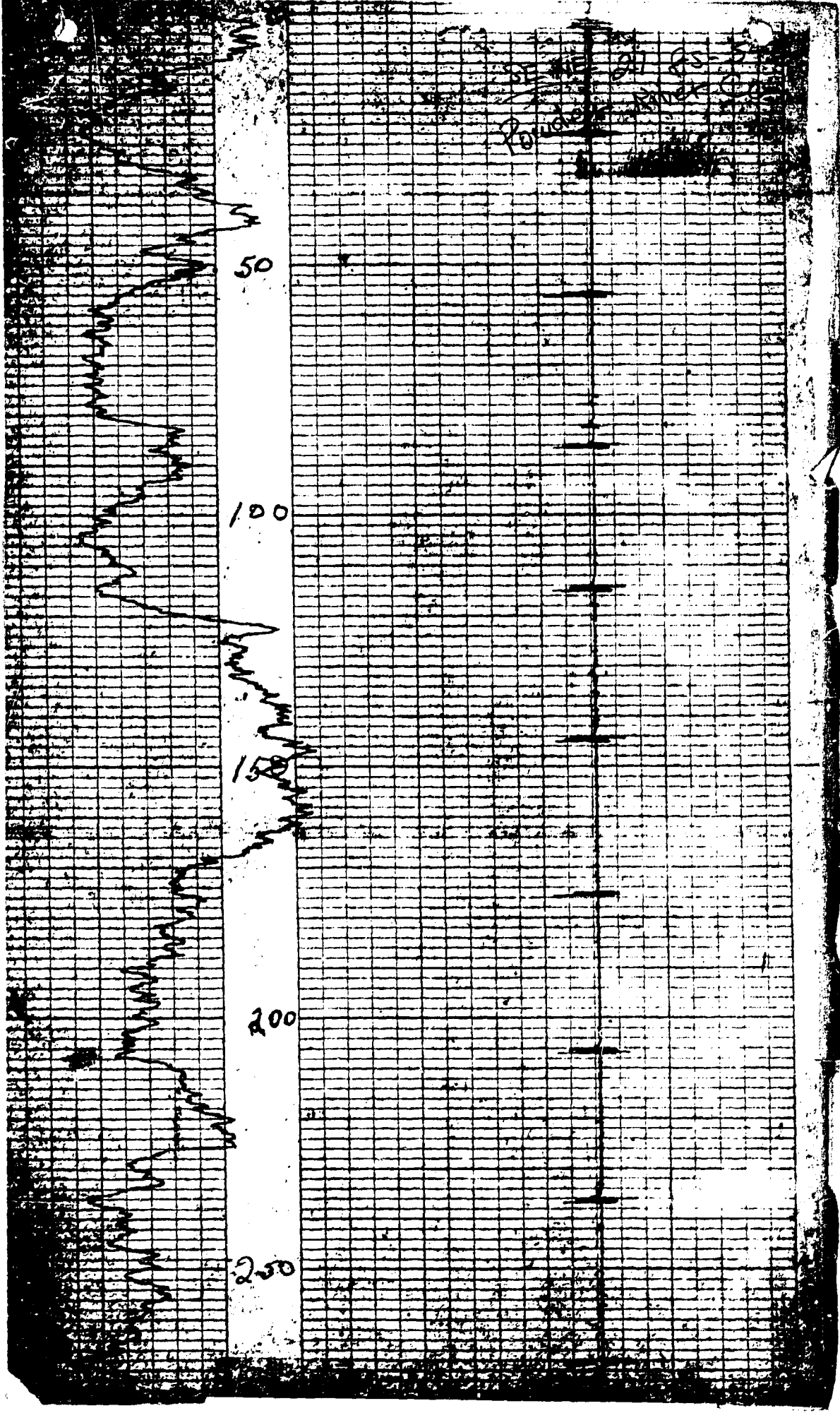
Subscribed and sworn to before me, this 16th day of Nov, 1967.

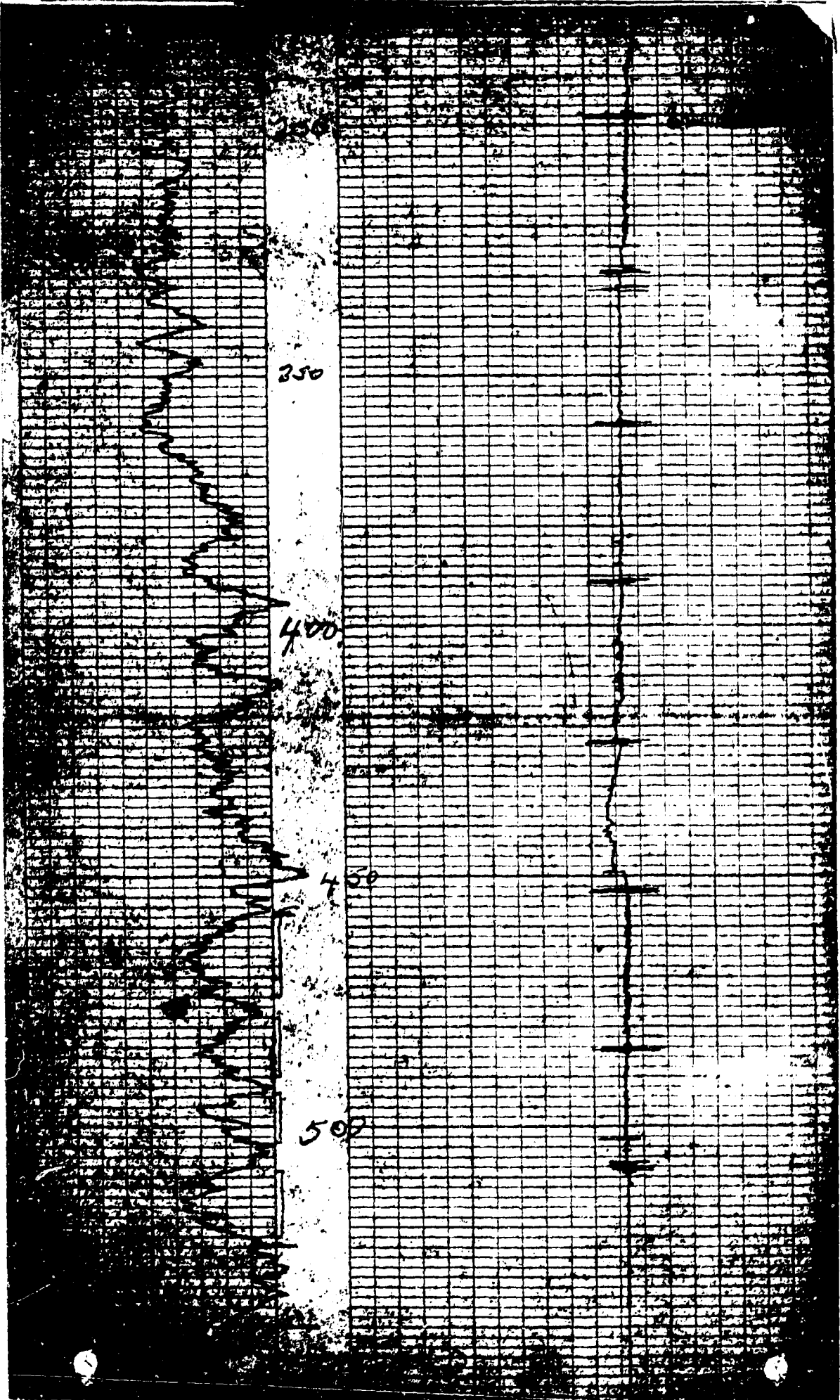
Clerk and Recorder

CHARLOTTE EDWARDS  
CLERK AND RECORDER  
POWDER RIVER COUNTY, MONT. 1967

42,544

SE 1/4 25-37  
RANGE 10  
TOWNSHIP 10N  
RANGE 10E





350

400

450

500

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL  
Developed after January 1, 1962

(Under Chapter 227 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner Samuel Gary

Address P. O. Box 99  
Belle Creek, Montana

Date well started 4-8-70  
completed 5-7-70

Type of well Drilled  
(Dig, driven, bored or drilled)

Equipment used Rotary  
(Chain drill, rotary or other)

Water Use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other  Garden/Lawn

For Administrator's Use

File \_\_\_\_\_

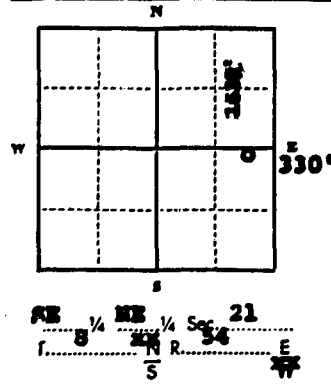
GW 1 \_\_\_\_\_

\*Describe \_\_\_\_\_

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location of other data (i.e. Lot, Block and Addition). Sec. 21-08-54E

ESTIMATED ANNUAL WITHDRAWAL 10,950,000 barrels

Size of Drilled Hole	Size and Weight of Casing	From (Foot)	To (Foot)	PERFORATIONS		
				Kind Size	From (Foot)	To (Foot)
12-1/4"	9-5/8" 40#	sfca	7335'	1/2"	6990'	7190'



Static water level flowing ft.\*

Pumping water level \_\_\_\_\_ ft.\*

at 1924 gallons per minute,

measured 5 days after flowing began.

\*Measured from ground level.

Well developed by \_\_\_\_\_

for \_\_\_\_\_ hours.

Power \_\_\_\_\_ Pump \_\_\_\_\_ HP

Remark: (Gravel packing, cementing, packers, type of shutoff) \_\_\_\_\_

Cemented master valve on surface

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Samuel Gary by J. M. Lucey

Driller's Address P. O. Box 99

Belle Creek, Montana LICENSE NO. 191

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level) 3620'

From (Foot)	To (Foot)
<u>See attached log (2nd)</u>	
<u>#86089 FILED</u>	
Office of COUNTY CLERK and RECORDER County of <u>Powder River</u> , Montana	
I hereby certify that the above is a true and correct copy of the instrument was filed for record in	
this office on the <u>12</u> day of <u>June</u>	
<u>Samuel Gary</u> County Clerk	
<u>J. M. Lucey</u> Deputy	
Paid	

8000' Show exact depth of bottom  
Plugged back 7279'

46591



# SCHLUMBERGER INDUCTION ELECTRICAL LOG

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <u>SAMUEL GARY</u>				
	WELL # <u>2 UNIT MADISON WATER WELL</u>				
	FIELD <u>BELL CREEK</u>				
	COUNTY <u>FOUNDER RIVER</u> STATE <u>MONTANA</u>				
	LOCATION <u>SW SW NW</u>			Other Services: <u>BHC-GR</u>	
	Sec. <u>21</u>	Twp. <u>8S</u>	Rge. <u>54E</u>		
Permanent Datum: <u>GL</u> , Elev. <u>3620</u>			Elev.: K.B. <u>3632</u>		
Log Measured From <u>KB</u> , <u>12</u> Ft. Above Perm. Datum			D.F. _____		
Drilling Measured From <u>KB</u>			G.I. <u>3620</u>		
Date	<u>5/8/70</u>				
Run No.	<u>ONE</u>				
Depth—Driller	<u>8000</u>				
Depth—Logger	<u>8014</u>				
Btm. Log Interval	<u>8013</u>				
Top Log Interval	<u>180</u>				
Casing—Driller	<u>13 1/4 @ 179</u>	@	@	@	@
Casing—Logger	<u>180</u>				
Bif Size	<u>2 1/4</u>				
Type Fluid in Hole	<u>FGM</u>				
Dens.	Visc.	<u>9.8</u>	<u>72</u>		
pH	Fluid Loss	<u>11.5</u>	<u>5.4</u> inl	ml	ml
Source of Sample <u>PIT</u>					
R <sub>m</sub> @ Meas. Temp.	<u>.84 @ 76 °F</u>	<u>.51 @ 127 °F</u>	@	@	@
R <sub>ml</sub> @ Meas. Temp.	<u>.52 @ 75 °F</u>	<u>.31 @ 127 °F</u>	@	@	@
R <sub>mc</sub> @ Meas. Temp.	<u>— @ — °F</u>	@	@	@	@
Source: R <sub>ml</sub> R <sub>mc</sub> <u>M</u> —					
R <sub>m</sub> @ BHT	<u>.51 @ 127 °F</u>	@	@	@	@
Time Since Circ.	<u>2 1/2 hrs</u>				
Max. Rec. Temp.	<u>127</u> °F	°F	°F	°F	°F
Equip.   Location	<u>4K28 MC</u>				
Recorded by	<u>GRAS</u>				
Witnessed By	<u>MR. MILES</u>				

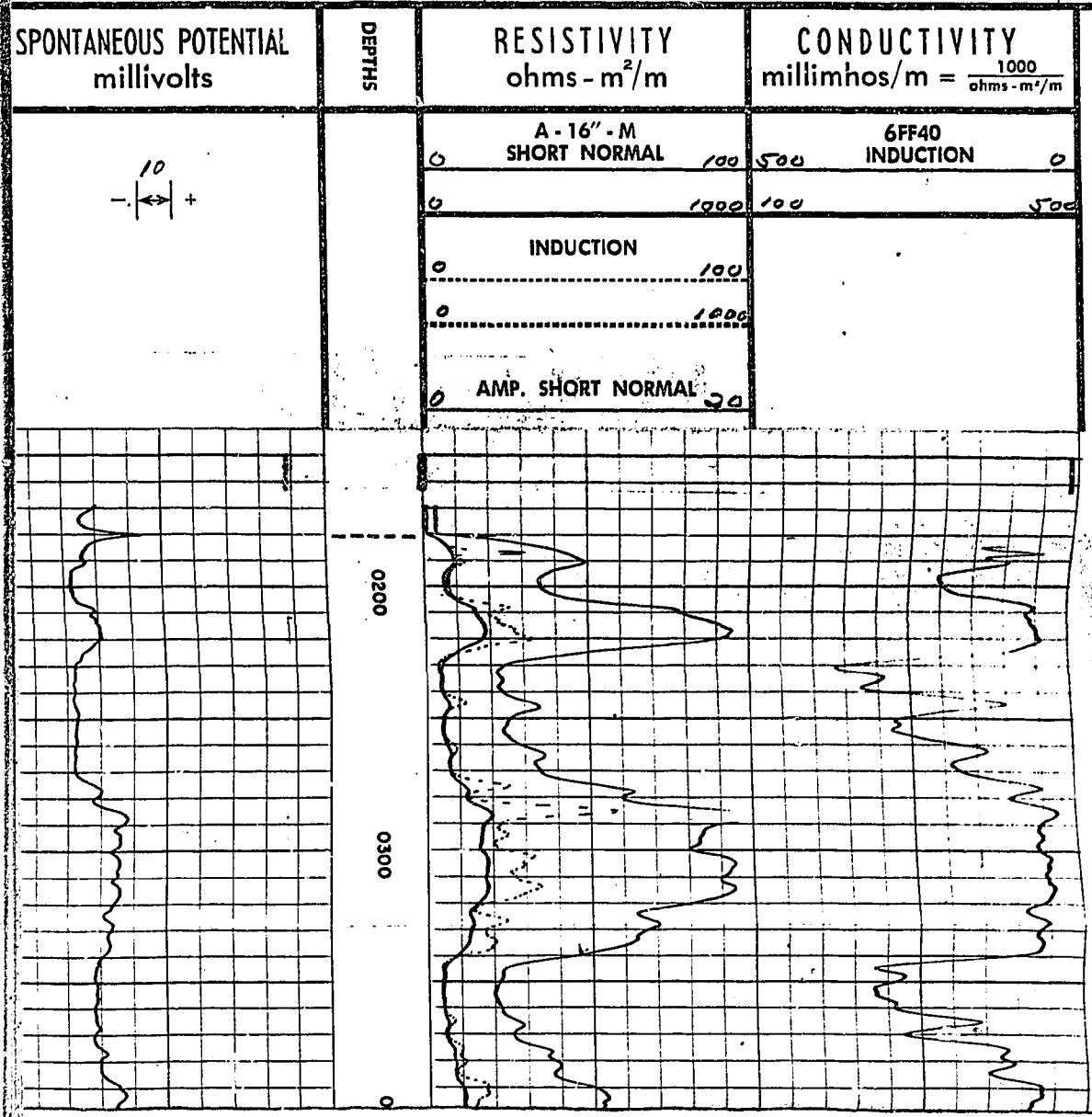
The well name, location and borehole reference data were furnished by the customer.

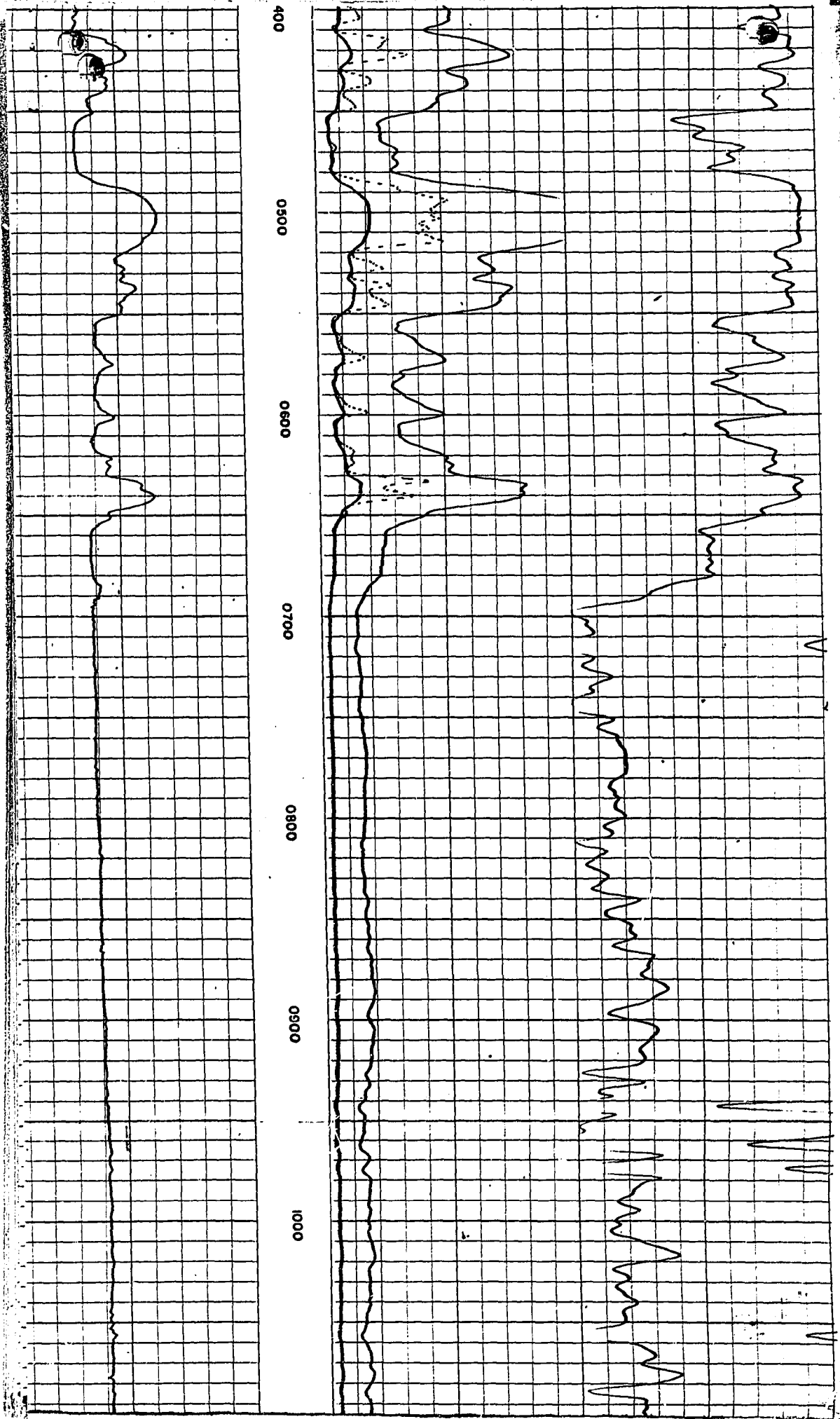
MONTANA WATER RESOURCES BOARD  
**RECEIVED**  
JUN 19 1970

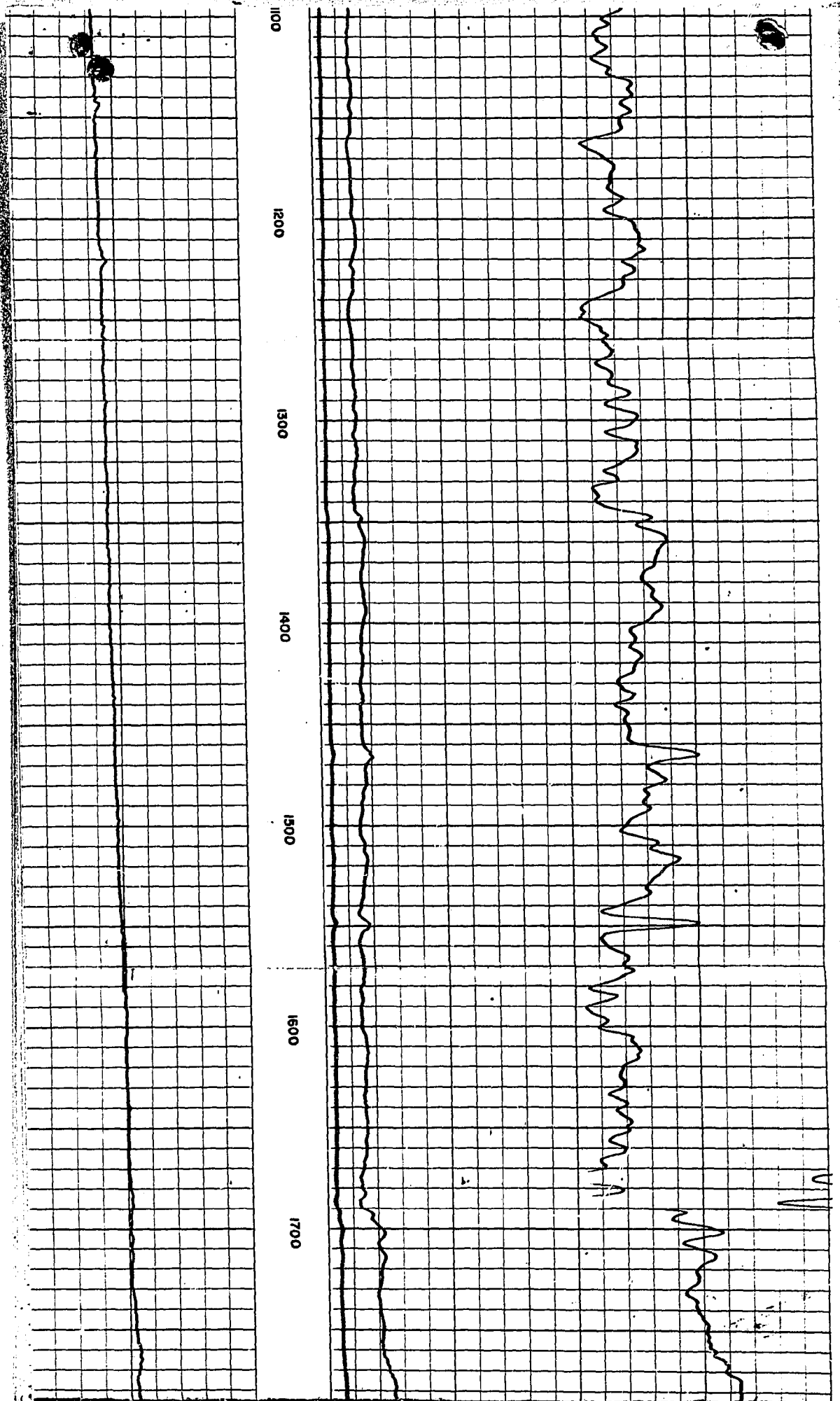
Additional Samples				Scale Changes			
				Type Log	Depth	Scale Up Hole	Scale Down Hole
Run Hole							
Visc.							
Fluid Loss		ml					
Location of Sample				Equipment Data			
@ Meas. Temp.	@	°F	@	°F	Run No.	Tool Type	Tool Position
@ Meas. Temp.	@	°F	@	°F			Other
@ Meas. Temp.	@	°F	@	°F			
Re: R <sub>mf</sub> R <sub>mc</sub>							
@ BHT	@	°F	@	°F			
@ BHT	@	°F	@	°F			
@ BHT	@	°F	@	°F			

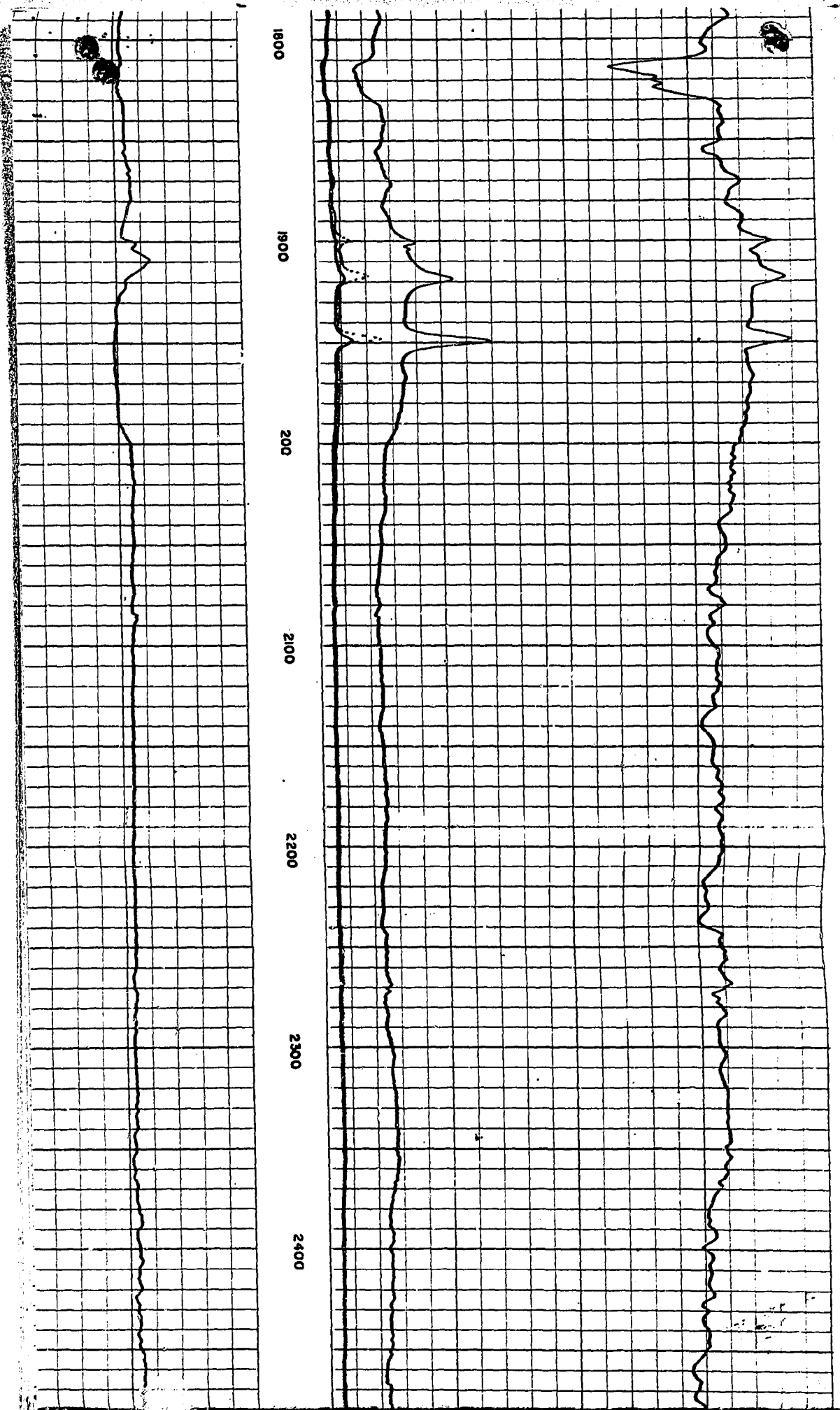
Run No.: NONE  
 C.D.: USED  
 S.O.: 1.5"  
 PANEL No.: 1RP-F-318  
 CART. No.: 1RC-F-131  
 SONDE No.: 1RS-H-183  
 IAP No.: MMP-R-226  
 S.B.R.: 2

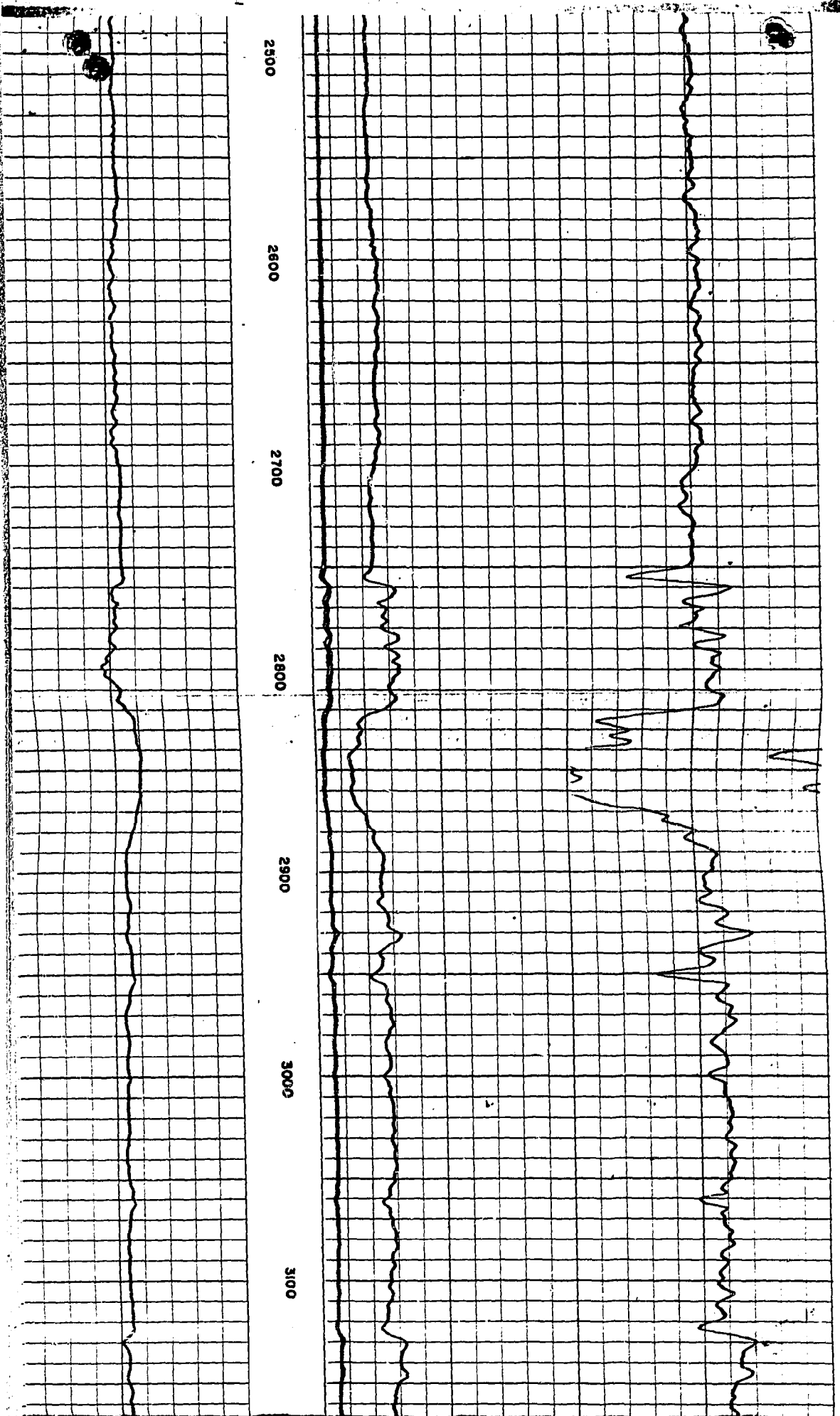
Check one, filling in blanks where applicable:  
 Surface determined sonde errors used for 6FF40.  
 6FF40 sonde error corrected for \_\_\_\_\_ inch borehole signal at Rm = \_\_\_\_\_  
 6FF40 zero set in hole at depth of \_\_\_\_\_ feet.

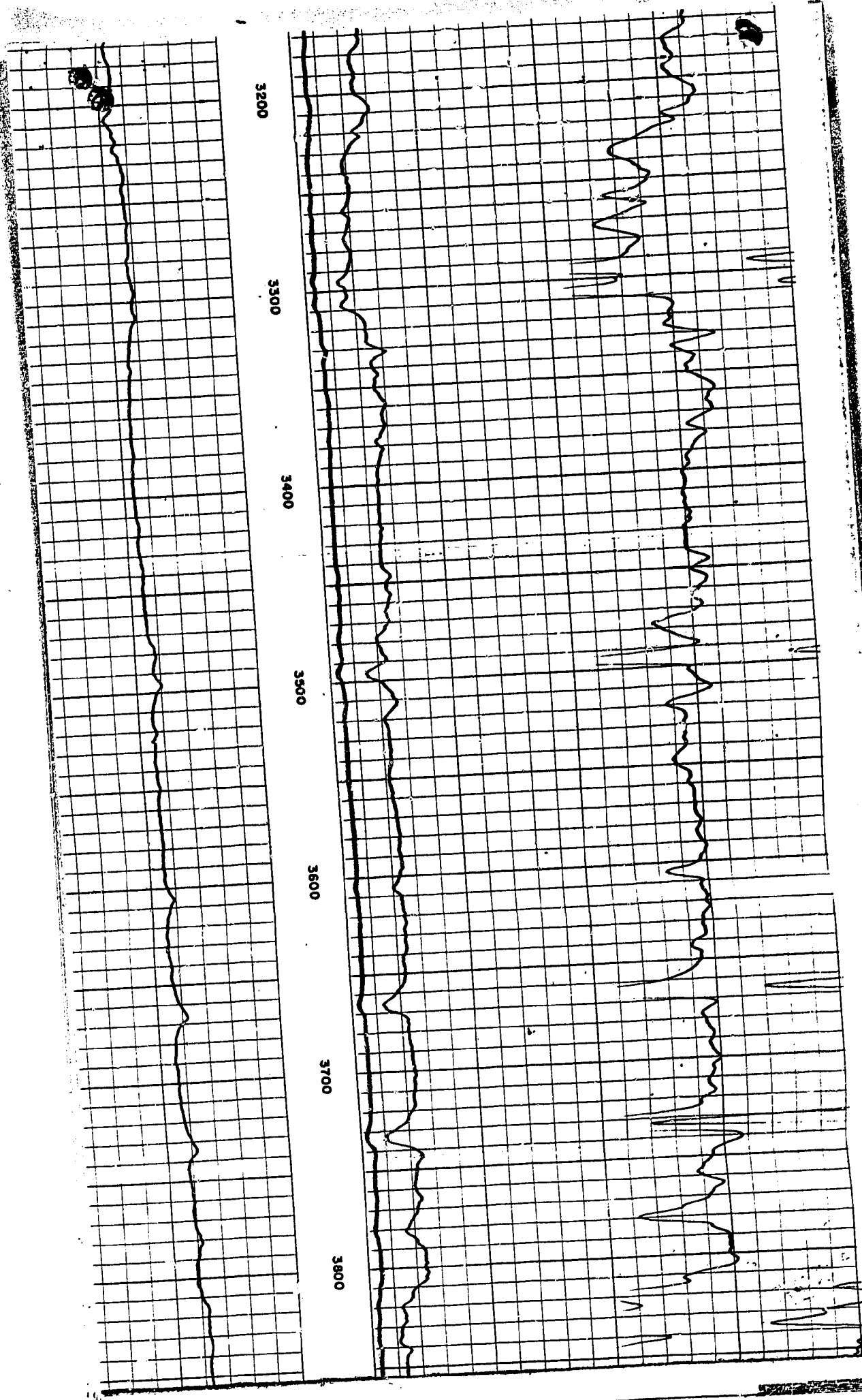


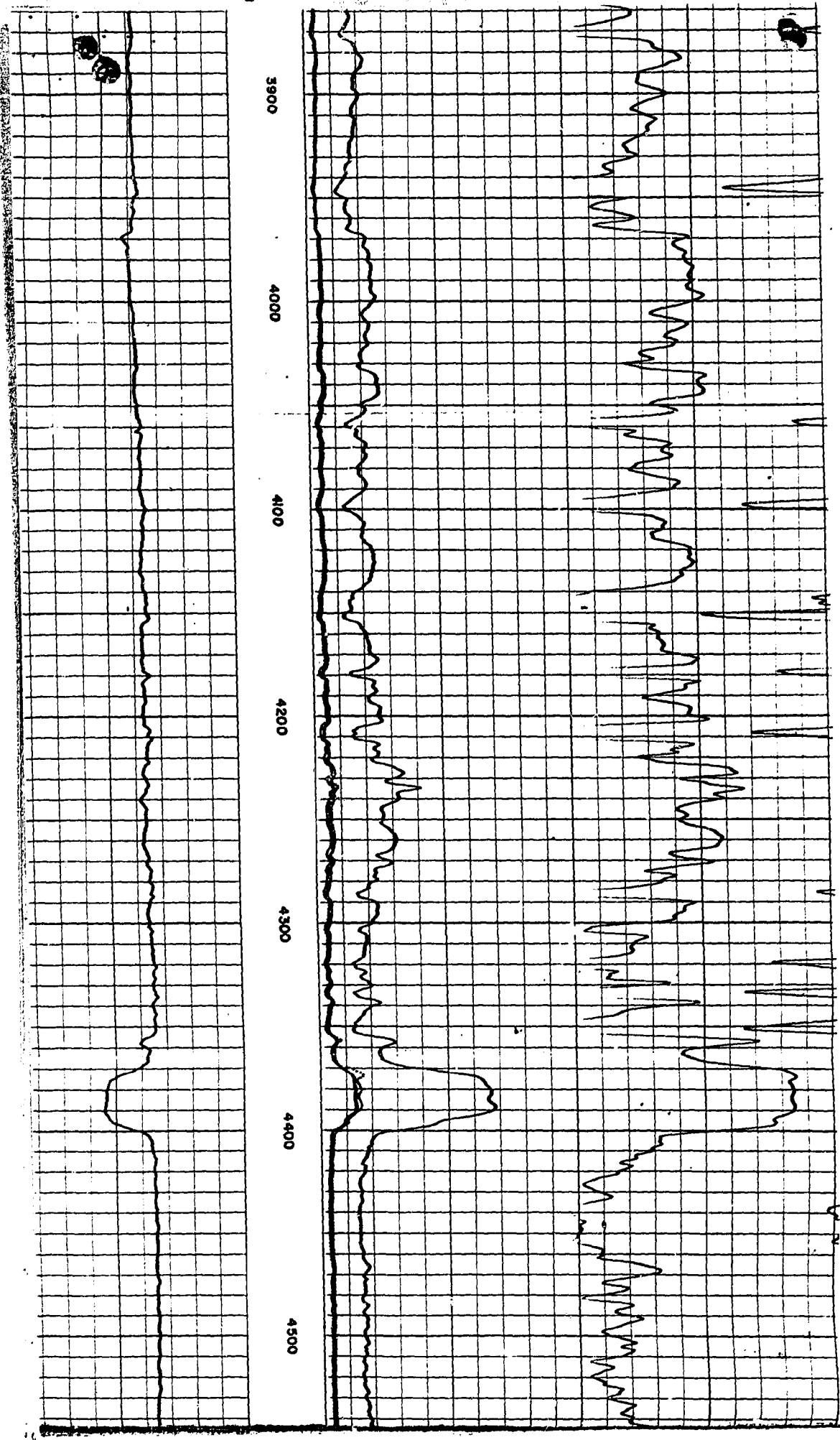




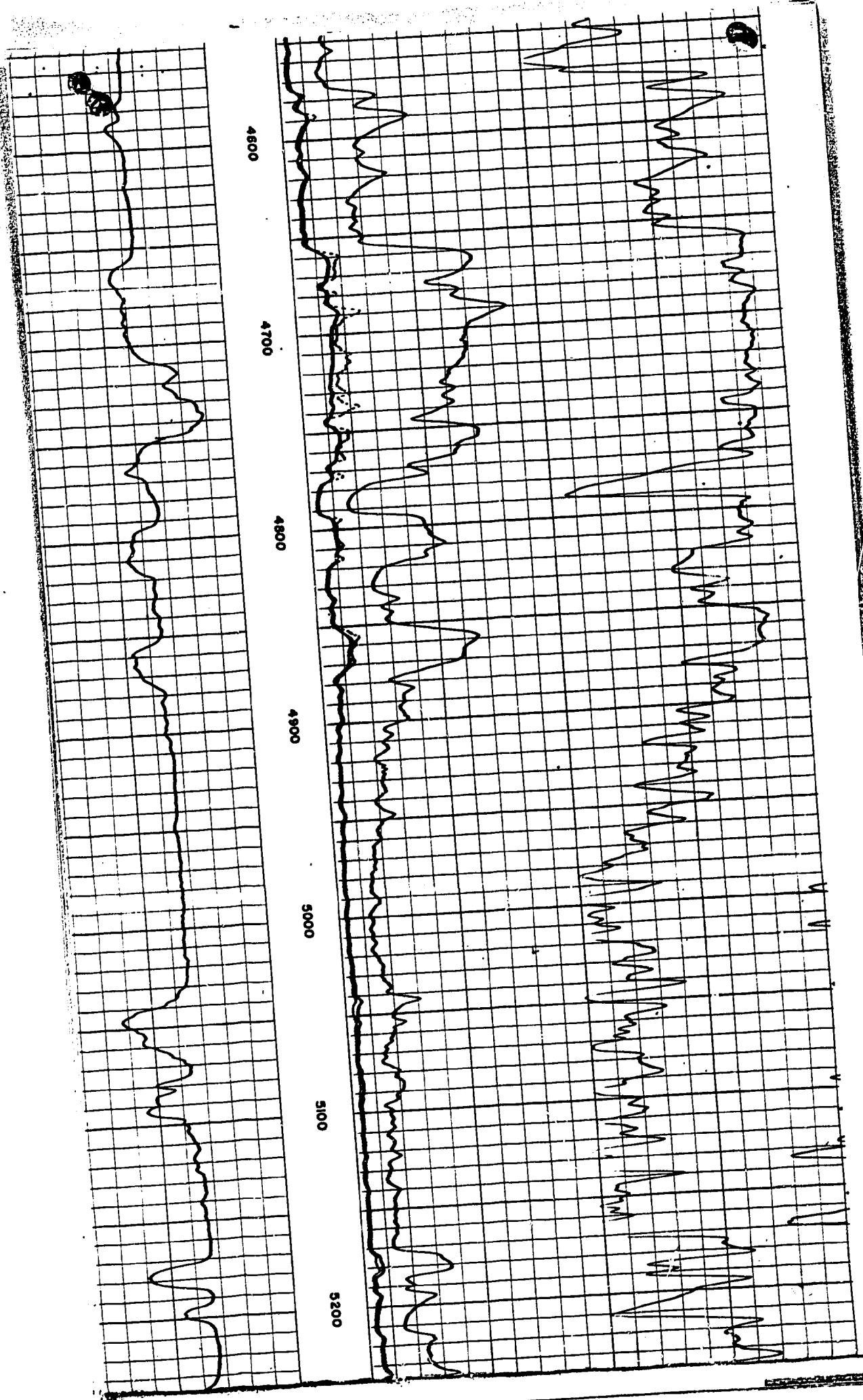


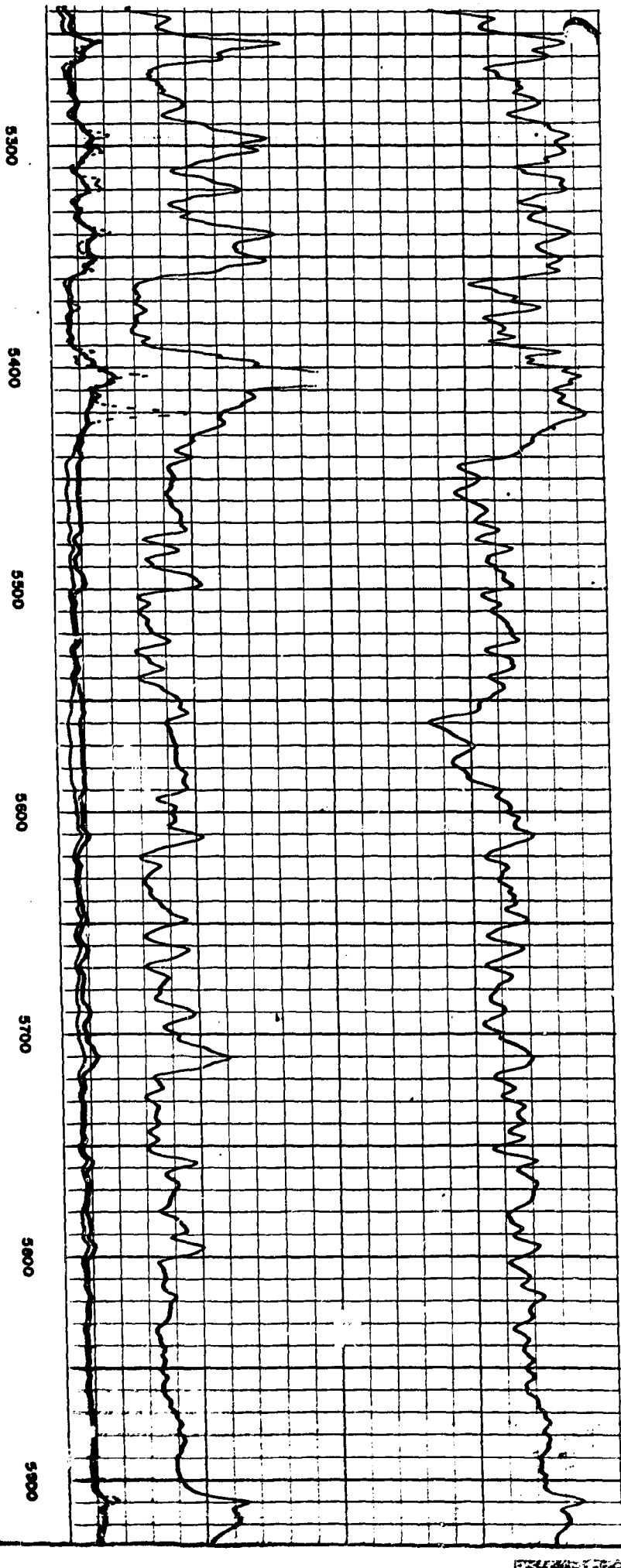
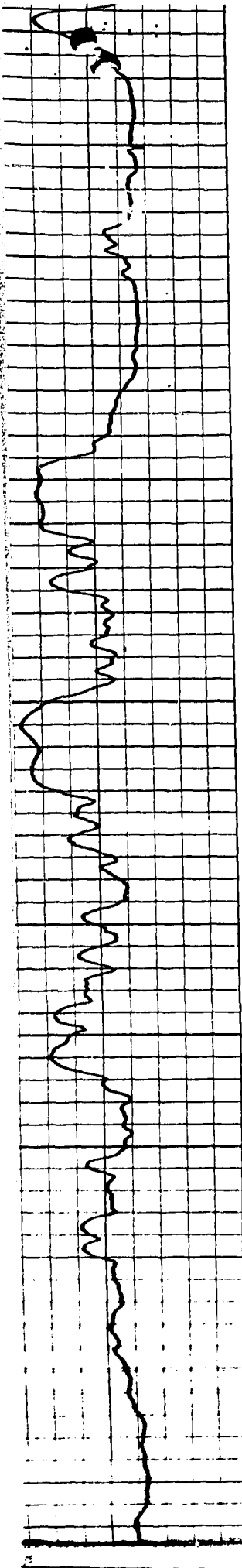


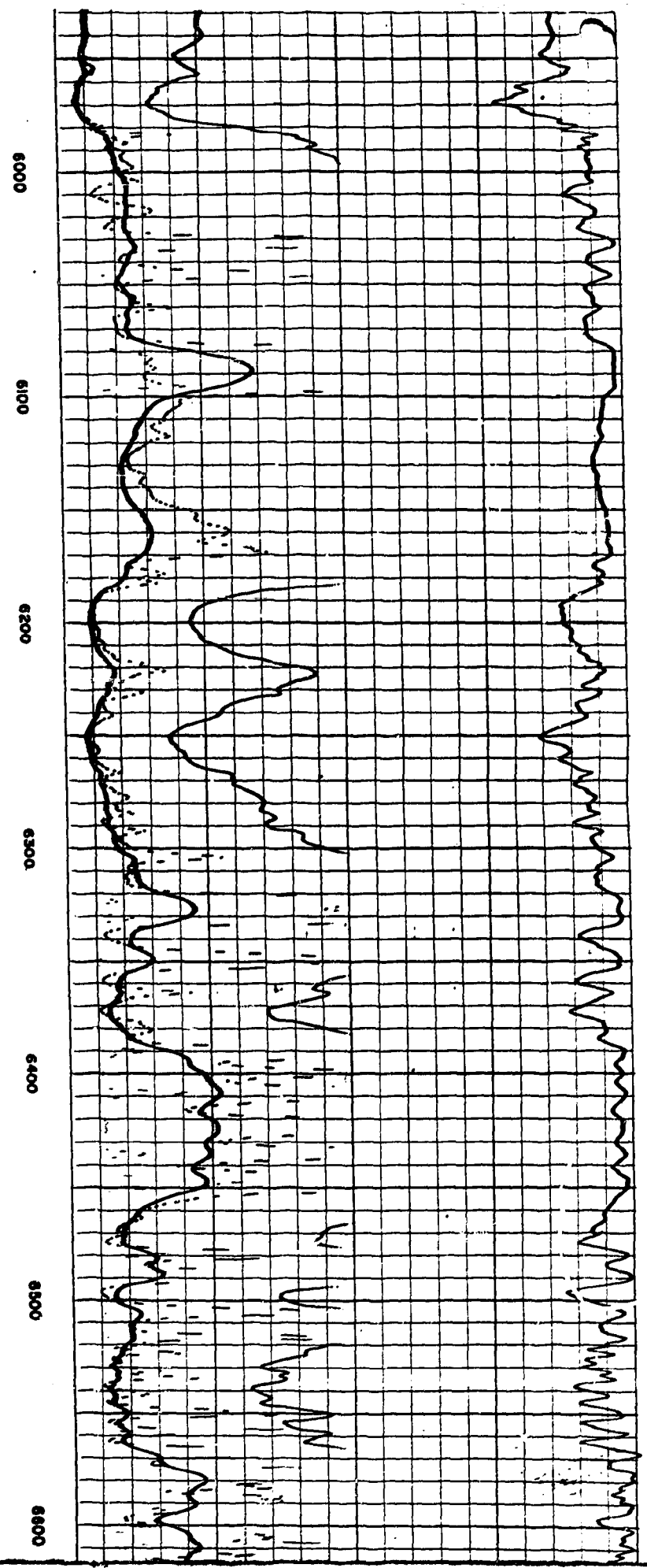
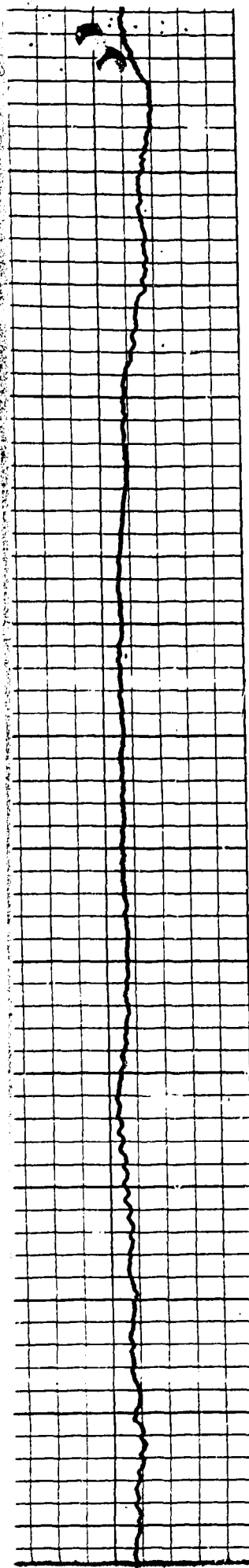


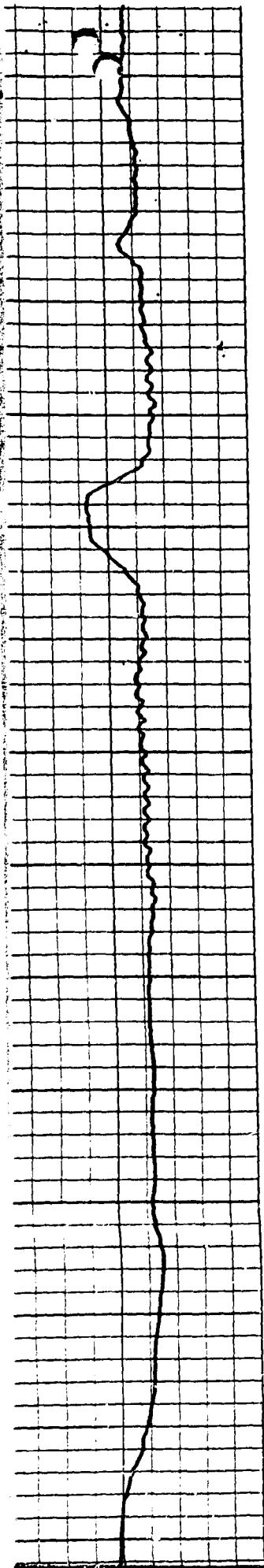












6700 6800 6900 7000 7100 7200

