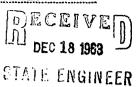
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER



### NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

	Date of Appropriation of Groundwater
	Address Square Butte, Montana
	Contractor (if any) Fred Youderian
	Address of Contractor Lewistown, Montana
N	Date Started Aug 12, 1959 Date Completed Aug 13, 1959.
	Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to
	water when applicable. one spring dug out with a d rag
· <del>┣╶┼</del> ╶┼╌┼╌┼╌┤	E line and piped to a tank
	eight foot deep
	,
18 1/4 SW Sec. 27 T20N R 12B	Quantity of water developed and used with explanation of meth-
ndicate point of appropriation	tent est mate approximate lengths of periods of use
nd place of use, if possible.	30 gallon per minute 30 gallon increase
used in section 27	timed with a 5 gallon bucket
	Signature of Owner Dear Strand
	Date December 10, 1963

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

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T 20N R 12R

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DUPLICATE

County....

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

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DEC 18 1963

### NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

	Date of Appropriation of Groundwater December 1963
	Owner Dean Strand
	Address Square Butte, Montana
	Contractor (if any) Fred Youderian
	Address of Contractor Lewistown, Montana
N	Date Started Aug 13, 1959 Date Completed Aug 14, 1959
	Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to
	water when applicable. one spring due out with drag
┠═┼═┼═┼═┼═┼═┼	E line and piped to a tank
$\blacksquare$	six foot deep
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W 1/4 NW Sec. 27. T. 20N R 12E	Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is invermit-
dicate point of appropriation	tent estimate approximate lengths of periods of use
nd place of use, if possible.	12 gallon per minute 8 gallon per minute increase
used in section 27	timed with a 5 gallon bucket
	Signature of Owner Lean Strand
	Date December 10, 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.

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	STATE OF MONTANA ADMINISTRATOR OF GROUNDWAY OFFICE OF STATE ENGINE		DECEIVED DEC 18 1963
NOTICE OF COM	PLETION OF GROUNDWATER APPE		STATE ENGINEER ON WITHOUT WELL
	Date of Appropriation of Gro Owner Dean Stra Address Square Bu	ad	
N	Contractor (if any)Fr  Address of Contractor	wistown,	Montena
	Describe means of obtaining		-

sub-irrigation and other natural processes". Include depth to
water when applicable... one apring dug out with a drag

line and piped to a tank

eight foot deep

Quantity of water developed and used with explanation of method used in section 27

used in section 27

Signature of Owner. According to the substitute of the section and other natural processes". Include depth to
water when applicable... one apring dug out with a drag

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

Signature of Owner. According to the substitute of the substitute of Owner.

Signature of Owner. According to the substitute of the substitute of Owner.

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December 10, 1963

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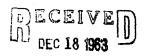
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# STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER



## NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

									Date of Appropriation of Groundwater December 1963  Owner Dean Strand
									Address. Square Butte, Mentana
									Contractor (if any) Fred Y suderian
									Address of Contractor Lewistown, Hontana
				N					Date Started Aug 10, 1959 Date Completed Aug 11, 1959
									Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to
	_			$\dashv$			$\dashv$		water when applicable one spring dug cut with a drag
w	-		$\dashv$	$\dashv$		ᆉ	+		E line and piped to a tank
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		ace	of 1	of	if p	ossi	ble.		tent estimate approximate lengths of periods of use
		u	sed.	in	500	tilo	n 2	8	per minute timed with a 5 gallong bucket
									Signature of Owner Lean Strand
									DateDecember 10, 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.

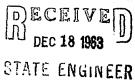
Please answer all questions. If not applicable, so state, otherwise the form will be returned.

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

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## 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 December 1963
									Owner Deen Strand
									Address Square Butte, Montana
									Contractor (if any) Fred Youderian
									Address of Contractor Lewistown, Hontana
				N	1				Date Started Aug. 11. 1959 Date Completed Aug. 12. 1959
									Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to
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Rn	d þi		of 1	•	•				10 gallon per minute increase 6 gallon
		99	<b>9</b> 0	1n :	360.	<b>t10</b>	n Z	25	
									per minute timed with a 5 collon bucket
									Signature of Owner Dean France
									Date December 10, 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.

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

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STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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### NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

								Date of Appropriation of Groundwater December 1963
								Owner Deen Strand
								Address. Square Butte, Hontana
								Contractor (if any) Fred Touderlan
								Address of Contractor Lewistown, Montana
				N				Date Started Aug 10, 1961 Date Completed Aug 11, 1961
		_			$\perp$			Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to
	H			$\dashv$	+	+		water when applicable. four springs dug out with a drag
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								five foot deep
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άIJ	d pl	200	of 1	18C,	if po	esible	•	4 gallon per minute increase 2 gallon per
		11.50	t be	n s	ecti	lon 3	2	minute times with a 5 gallon bucket
								Signature of Owner Lean Stand
								DateDecember 10, 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, Ariplicate to the School of Mines and Quadruplicate for the Appropriator.

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File No	T 20N R 12E
DUPLICATE	CountyChouteau
· · · · · · · · · · · · · · · · · · ·	STATE OF MONTANA  NISTRATOR OF GROUNDWATER CODE  OFFICE OF STATE ENGINEER  OF GROUNDWATER APPROPRIATION WITHOUT WELL
(Unde	r Chapter 237 Montana Session Laws, 1961)
	Date of Appropriation of Groundwater Pacember 1963  Owner Dean Strand  Address Square Butte, Montana  Contractor (if any) Fred YouderLan  Address of Contractor Lewistown, Montana
a.i	Data Startad Aug 11, 1961 Data Completed Aug 12, 1961

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. one spring dug out with a drag line and piped to a tank four foot deep Quantity of water developed and used with explanation of meth-SE 1/4 SWE Sec. 33. TRON R.12E Indicate point of appropriation and place of use, if possible.

used in section 33 ,

old used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use ..... 4 gallon per minute increase 3 gallon per minute timed with a 5 gallon bucket

Signature of Owner. Date December 10, 1963

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NOTICE OF COMPLETION OF DECOUNDWATER ASSESSABLED WITHOUT WELL **M**edialization of inter Charmer 235 Montain Seestin Lower 1965) 1 (M) ,-ms. tradeos grantinas sus maios The state of the second second to the second The second secon The transfer of the state of th territoria. Territoria <mark>galenge til ver se traditio</mark> states ett energi i liste ett energi. I liste ett energi. the duale decivity, they was the second second section to be efford to without from the hour to the county to the differency. and the same of the same Apprendict of the following the second for a second to be the first and place of the Upward Section (that expended supplementally analysis of probedient and the confidence of the confidenc The state of the state of the second of the second second कारका राज्य में को तका का अन्य का राज्य का सम्बद्धित का का किया का का का का का है हैं। al example of the America transfer of the first of the American Section (Associated Section of Section (Associated Section of Section (Associated man and the second way for an example of the gregory of the extension of the extension was an escaled the condition of the control of the control of the condition of the condition of the control of COUNTY OF CHOUTEAU Filed December 16 1063 11:30 Smam Hame tome 200

GROUNDWATER INDEX

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Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
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5	Dean Strand	19601	,n, 72.	
7	Dean Strand	Release agreement	1/1 *	
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T.20.N. R.13.E  DUPLICATE  STATE OF MONTANA  ADMINISTRATOR OF GROUNDWATER CODE  OFFICE OF STATE ENGINEER  DECLARATION OF VESTED GROUNDWATER RIGHTS  (Under Chapter 237, Montana Session Laws, 1961)  1. ROYCE APPLEGATE, of GAddress (Town)  County of CHOUTEAU.  State of MANTANA
STATE OF MONTANA  ADMINISTRATOR OF GROUNDWATER CODE  OFFICE OF STATE ENGINEER  STATE ENGINEER  STATE ENGINEER  STATE ENGINEER  (Under Chapter 237, Montana Session Laws, 1961)  1. ROYCE APPLEGATE, of SQUARE BUTTE  (Name of Appropriator) (Address) (Town)  County of CHOUTEAU. State of MANTANA
(Name of Appropriator) (Address) (Town)  County of CHOUTEAU
County of CHOUTEAU State of MANTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows  2. The beneficial use on which the claim is based S.TACK.WAT.E.R.
3. Date or approximate date of earliest beneficial use; and how con tinuous the use has been 1.2.28
4. The amount of groundwater claimed (in miner's inches or gallon per minute) .3.GALLON.S
5. If used for irrigation, give the acreage and description of the land to which water has been applied and name of the owner thereof
Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.  6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal SASOLIME.
7. The date of commencement and completion of the construction of the well, wells, or other works for with drawal of groundwater 1928
<ul> <li>8. The depth of water table .2.0. F.T.</li> <li>9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater E.E.F.</li> </ul>
10. The estimated amount of groundwater withdrawn each year 20,200
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record
Signature of Owner Royce appleasts  Date 12-26-63
Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well 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 Mir

ATTUMBER AND A SECOND

(Address)

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File No	r 20 N R/3E
DUPLICATE	ounty CHOUTEAU
STATE OF MONTANA  ADMINISTRATOR OF GROUNDWATER CODE  OFFICE OF STATE ENGINEER	JANY 1964
(Under Chapter 237, Montana Session Laws, 1961)	· <del>-</del>
1. LEOTA APPLECATE, of (Name of Appropriator) (Address)	SQUARE BUTTE (Town)
County of CHAUTE ALL State of MAKTANA have appropriated groundwater according to the Montana laws in effect prior	to January 1, 1962, as follows:
2. The beneficial use on which the claim  AND HOUSE HOLD USE	***************************************
3. Date or approximate date of earliest tinuous the use has been 1927.  SINCE COMPLETION.	C.O.N.T.IN. U.O.W.S. U.S.E.
4. The amount of groundwater claimed per minute) 4. GALLONS	(in miner's inches or gallons
5. If used for irrigation, give the acreage to which water has been applied and the water ha	ge and description of the lands name of the owner thereof
Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.  6. The means of withdrawing such water tion of each well or other means of w	r from the ground and the loca- rithdrawal .W./N.R.M1.L.
7. The date of commencement and completion of the construction of the well, we drawal of groundwater 1927.	vells, or other works for with-
8. The depth of water table 22 F.T.	
9. So far as it may be available, the type, size and depth of each well or the gene works for the withdrawal of groundwater 200. F.T. DEE.F.	
10. The estimated amount of groundwater withdrawn each year	
12. Such other information of a similar nature as may be useful in carrying out t reference to book and page of any county record	
Signature of Owner.	\
·	e 12-26-63
located.  Please answer all questions. If not applicable, so state, otherwise the form will be	
Tread answer an decenous. It not abbricable, so state, ometwise me form will be	

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Form No. 18 8-60

т	20H	R.	13	<u> </u>
Count	ty	Chouteau		

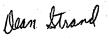
### MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana

Water Well Log

	The second of th
Owner Deen Strand	Address Square Butte, Monta
Driller O. C. Thatcher	Address_Stanford, Montana
Date Started june 18, 196	Date Completed Aug 2, 1961
Location: Sec. 5 T. 20	N R. 13 4 sec. NR + of NE
Type of well drilled Equip  (Dug, driven, bored, or drilled)	ment used rotary (Churn, drill, rotary, other)
Water use: Domestic Municipal	Stock X Irrigation
Industrial Drainage	0ther
Casing: 0 ft. to 1240 ft. Type	calv. Size 2*
Casing:ft. toft. Type	Size
Casing:ft. toft. Type	Size
Perforated or screened: Ft. 1240 to ft.	1260 . Ft. to ft.
Type of screen or perforations 2 in pipe	with out holes
Static water level, for non-flowing well:_	feet.
Shut-in pressure, for flowing well: 40	lb./sq. in. on: Aus (date)
Pumping water levelfeet at	gal. per min. 2 501.
How tested:	
Length of test	
Remarks: (Gravel packing, cementing, packers shut-off)	ers, type of shut-off, dep() of
Cement 10 sacks 2 in valve at se	rface shut off
(over)	

Log of Well

Depth,	feet	Description of Material Dwilled
rrom	10	Description of Material Drilled
0	27	Silt and Broken soft sandstone
27	33	Broken sanústone
38	43	Firm sandsvone
43	345	Hard Sandy layers and blue shale, showing of gas
345	625	Blue Shale
625	873	Alt. blue shale hard and soft layers
873	1045	Hard Sandy shale
1045	1135	Sandy shale to med. hard sandstone
1135	1130	Alt. sandy shale and bentonite
1190	1256	Alt. soft shale and hard saudstone
1256	1275	Grey Sandy shale
1275	1317	Hard sandy shale
1317	1460	Firm Grey shale
1480	1590	Grey hard sandy shale
1590	1680	Hard red sandy shale
1680	1792	Shale with hard sandstone
1792	1835	Hard sandstone
1835	1895	Hard saudstone and shale
1895	1920	Intermediate hard sandstons and shale
1920	1969	Hard sandstone to med. hard
1969	1990	Hard sandstone
1990	19.	Hard sandstone



· 1987年 - 1985年 - 1988年 - 19884 - 1988年 - 198





### MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

THOMAS L. JUDGE, GOVERNOR GARY WICKS, DIRECTOR

MEMBERS OF THE BOARD JOSEPH W. SABOL. CHAIRMAN DEAN HANSON RILEY OSTBY HERBERT HUENNEKENS 449-2611 325 FULLER AVENUE P. O. BOX 217 HELENA, MONTANA 59601

April 5, 1973,

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



Dear Sir:

Enclosed you will find a copy of a release agreement for the utilization of a fresh water well.

Operator

Webb Resources, Inc.

Lease Name

Dean Strand

Well No. 7-4, Section 7, Township 20 North, Range 13 East

Chisholm Acting Administrator

DEC/m1

cc: Mr. W. Bond Bureau of Mines and Geology Butte, Montana 59701

PRINTED ON 100% RECLAIMED PAPER

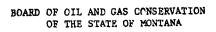
APPROVED BY:

**⊕** 2

Board of Oil and Gas Conservation

Engineer, Geologist, or Administrator

Dated:



### RELEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS, that I, Dean Strand
of the Country of Chartery
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 Webb Resources, Inc.
Lease Name Dean Strand
Well No. 7-4 Sec. 7 , Twp. 20N , Rge. 13E
The well is located 340' feet s of the north
line and 740! feet F of the West line.
That, in accordance with Regulation 233.6, Order No. 1-1,
November 30, 1953, I do hereby notify the Board of Oil and Gas
Conservation of the State of Montana of my desire to utilize said well
as a fresh water well; and, that if such utilization is approved, I and
hereby release and disonar, he operator hereinabove named it as as
further work or responsibility in relation to the plugging of said well.
Water Use: Domestic Municipal Stock X Other
Industrial Drainage Irrigation
Producing Depth 2292 - 2302 Producing Formation Sunburst
Yield of well 7 gal per min. Annual Withdrawal flowing
WITNESS my hand and seal this3 day of
Landowner (L.S.)
Address Rt/ Fort Bouton
1/ Antana
IN THE PRESENCE OF:
the state of the s
Address Justine Mint.
APPROVED BY:
Board of Oil and Gas Conservation
Amul Mudum Petroleum Engineer, Geologist, or Administrator
Dated: 4/01/5-73, 19

52,832

	11
	T. R. County Charteau
	•
MONTANA BUREAU OF M Butte, Mon	INES AND GEOLOGY ECEIVE
WATER WE	LL LOG
the standard	STATE ENGINEER Address Francis Me Pro
Owner of early work	Address Of Mait My
Driller O. C. Hatter	Address Starford, mont
	959 Date Completed July 28, 175
Location: Sec. 10 r. 20 N	R 13 E 1/4 sec SW \$5 E
Type of well. D. Y. I. I. e.d. (Dug, driven, bored, or drilled)	
Water use: Domestic Municipal	Stock Irrigation
Industrial Drainage	Other:
Casing: O ft. to 1245 ft. Type	Sulvinizer P Size 2 /ach
Casing:ft. toft. Type	Size
Casing:ft. toft. Type	Size
Perforated or Screened: Ft. 1045 to ft. 124	/ 5 Ft to 1t
Type of screen or perforations <u>Slotfo</u>	
Static Water level, for non-flowing well:	feet.
Shut-in pressure, for flowing well:	
Pumping water levelfeet at	(date)
How tested:	
Length of test	· ·
Remarks: (Gravel packing, cementing, packers, type of	· •
presided with	10 sacks of cerent
) (over	r)
(010)	= <b>/</b>

Log of Well

		Log of Well	i
	ı, feet	Description of Material Drilled	
From	То		•
0	<u>53</u>	Overburden	
<u>53</u>	75	Blue shale	
75	150	Brownish shale with bentonile	
150	3/8	Blue shale	
318	460	Blue shale with Black sandstone lo	27215
460	500	Blue sandy shale	į
500	547	, ,	
547	5-80	Sandstone	
580	650	Blue sandy shale	
650	775	Sandstone with Layers of Blesha	e/e
775	8 78	Blue shale	-
878	1069	Blue sandy shale with Layers of sa.	nd sto
1069	1076		_
1076	1176	Blue sandy shale with Layers of sandsto	) h =
1176	1181	Sandstone (water)	
1181	1210	Blue sandy shale	•
1210	1242	Blue shale	
1242	1245	Sandstone (water)	
	<u> </u>		
	<u> </u>		
·			
	<u> </u>		

File No.  DUPLICATE  STATE OF MONTANA  ADMINISTRATOR OF LEGENTE BODY  APRIL 1964  APRIL 1964  APRIL 1964  APRIL 1964  APRIL 1964
File No.  DUPLICATE  T 20 R 3  COUNTY IS A SECRET FROM TO SECRET FROM THE PARTY OF
File No. T 20 R /3
DUPLICATE MAY 20 1964 County County
STATE OF MONTANA
ADMINISTRATOR OF CROUNDWATER CODE  APR 2 1964
OFFICE OF STATE ENGINEER STATE ENGINEE
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)
1. George Szanzee of Square Buzze
1. <u>Ceoyge Szavzec</u> , of <u>Sgnove Butte</u> (Name of Appropriator) (Address) (Town)
County of Choutean State of Monton
nave appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:
2. The beneficial use on which the claim is based
3. Date or approximate date of earliest beneficial use; and how con-
tinuous the use has been May 10 1950
<u> </u>
4. The amount of proundwater shair of the sh
4. The amount of groundwater claimed (in miner's inches or gallons per minute)
5. If used for irrigation, give the acreage and description of the lands
to which water has been applied and name of the owner thereof
Indicate noint of appropriation and
place of use, if possible, Each small 6. The means of withdrawing such water from the ground and the loca-
square represents 10 acres. tion of each well or other means of withdrawal
************************************
7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater May 10, 1950
8. The depth of water table 1000/f.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwaterA.r.t.e.s.r.n2"
1000
10. The estimated amount of groundwater withdrawn each year 237,000 9011071
11. The log of formations encountered in the drilling of each well if available not Arollobic
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.
Signature of Owner & George Sycan Co Date 3-3444
Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is
breated by the owner win the County Clerk and Recorder of the county in which the well is

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

and Quadruplicate for the Appropriator.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines 35<sup>53°</sup>

. 1900 December 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	County of Lives upplopriated groundwa
heed at taking the on which the claim is based	
tingons the use by the interest beneficial use; and how real	
C. C. T. T. S.	
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attention of the contribution of the policy of this act, including	. The sail is a state of the state of the sail of the
	COUNTY OF CHOUTEAU.
	at
	Designe W Harvey
	*** \$ 2.00 Paid
tion of the state	

Form No. 18 8-60 R. 13E 2019 County Charteen MONTANA BUREAU OF MINES AND GEOLOGY DO GEOLOGY Butte, Montana Water Well Log STATE FRANKER Owner Dean Strand Address Square Butte, Mont. Driller 0. C. Thatcher Address Stanford, Montana Date Started <u>Dec. 1959</u> Date Completed <u>Kay 1960</u> Location: Sec. 20 T. 20N R. 13E 4 sec. NW of SW1 Type of well drilled (Dug, driven, bored, or drilled) Equipment used rotary (Churn, drill, rotary, other) Stock X Domestic Municipal \_\_\_ Irrigation \_\_\_ Water use: Other Industrial Drainage Casing: C ft. to 1800 ft. Type calw Size 2 in. Casing: ft. to ft. Type\_\_\_\_Size\_\_\_\_ Type Size Casing: ft. to ft. Perforated or screened: Ft. 1800 to ft. 1834 . Ft. to ft. Type of screen or perforations 2 in. pipe with out holes Static water level, for non-flowing well:\_\_\_ Shut-in pressure, for flowing well: 30 lb./sq. in. on: May 1964 Pumping water level feet at gal. ||||| min. 30 How tested:\_\_ Length of test

The second

(over)

Comented 10 Hacks coment. Two inch shut off valve 7 ft, below

Remarks: (Grave: 1, mcking, cementing, packers, type of shut-off, depth of

shut\_iff)

ground level.

Log of Well

Depth.	feet	
From	To	Description of Material Drilled
0	210	Overburden
210	285	Blue shale
285	392	Layers of blue shale and black slaty sandstone
398	425	Blue shale
425	615	Layers of blue and brown shale with layers of black als
615	985	Blue sandy andle
985	1175	Blue shale with sursaks sandstone and bentonite
1175	1243	Sandstone with few shalt layers - 1 gal water per min.
1243	1362	Alt. layers of sandstone and sandy blue shale
1362	1450	Blue shale
1450	1510	Grey shale very soft and muddy
1510	1523	Hard green sandstone with layers green shale
1523	1550	Grey shale
1550	1565	Red shale
1565	1570	Sandstons
1570	1665	Red shale
1665	1673	Sandatone
1673	1701	Red Shale
1701	1756	Layers of sands one and soft muddy and purite
1756	1810	Hard and wed light benedtons
1810	1897	Soft coarse grained sandstone 30 gril water per min
1827	1634	Hara Sandstone
	<u> </u>	

Form No. 18 T. 20N **R 13E** 8-60 County Chouteau MONTANA BUREAU OF MINES AND GEOLOGYD) ECEL Butte, Montana Water Well Log STATE ENGINEER Owner Bear Strand Address Square Butte, Mont Address Driller Date Started\_\_\_ Date Completed\_\_\_ Location: Sec. 27 T.20N R. 13E  $\frac{1}{4}$  sec. SE NS Type of well Equipment used drill (Dug, driven, bored, or drilled) (Churn, drill, rotary, other) Stock X Irrigation \_\_\_ Water use: Domestic Municipal Industrial Drainage Other Type galv Size 2 in Casing: 6 ft. to 1200 ft. Casing:\_\_\_\_ \_\_ft. to\_\_\_\_ft. Type\_\_\_\_Size\_\_\_\_ Size\_\_\_ Casing: \_\_\_\_ft. to\_\_\_\_ft. Type Perforated or screened: Ft. \_\_\_\_ to ft. \_\_\_\_ to ft. \_\_\_\_ to ft. \_\_\_\_ Type of screen or perforations Static water level, for non-flowing well: Shut-in pressure, for flowing well: 20 lb./sq. in. on: Pumping water level \_\_\_\_\_feet at \_\_\_\_\_gal. per min. 5 How tested:\_ Length of test\_ Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

GROUNDWATER INDEX

Page / of /

County Charteau Twp. 20% Rge. 14E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
5	Royce applegate.	6w3	346960	
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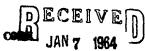
File	No

7 20N R/4E

DUPLICATE

County G.H.O.U.T.E.A.U.

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CO



OFFICE OF STATE ENGINEER

STATE ENGINEER

### NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under C	Chapter 237 Montana Session Laws, 1961)
N X X X X X X X X X X X X X X X X X X X	Date of Appropriation of Groundwater ASY 1958  Owner ROYCE APPLEGATE  Address SAUARE BUTTE MANIANA  Contractor (if any)  Address of Contractor  Date Started SEPT 1.1958  Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable SPRING PIPED TO TANK
NE.1/4.NM Sec.5 T.2.0 R/4. Indicate point of appropriation and place of use, if possible.	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 14 GALLONS  DEP HOUR  Signature of Owner Royal Aft.  Date 12-26-63

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

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	Une of Appropriation of Groundwalers						
	Although the property of the p						
	Address of the state of the sta						
	Consideration (Heave)						
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	or in a super of conficient granulated without a well "or be a configuration and other natural processors. Include the		a managa terungan penerusa baha 				
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GROUNDWATER INDEX

Page \_\_\_\_\_Of\_\_/\_

County Chartens Twp. 1917 Rge. 98

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
4	Jan Lugar	Gw3	371641	
	Fay Lucas		1977	
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DUPLICATE

County Chouteau

#### STATE OF MONTANA

### ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

RECEIVED

### NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

	Date of Appropriation of Groundwater
	Owner Fay Lucas
	Address Flighwood, Mt. 59450
	Contractor (if any) none
	Address of Contractor non e
N	Date Started 1944 Date Completed 1944
	Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to
	water when applicable. fbowing spring
<b>"</b>	
	-
NE1/4NW Sec4 T19NR	Quantity of water developed and used with explanation of meth vd used to measure or estimate such amount. If use is intermit
Indicate point of appropriation and place of use, if possible.	n tent estimate approximate lengths of periods of use
	stock water. 5 gal per minute
311641	June -November each year
6-29-73	
400 pm	
·	Signature of Owner Fay Lucas
	Signature of Owner Tay Lucas  Date June 29, 1973

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.

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STATE OF MONTANA, Las. COUNTY OF CHOUTEAU Last to the section of t	तिकारकारी व्यवस्थानिक वर्षी हो।
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County Clerk	
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