

179700

STATE OF MONTANA, COUNTY
OF ROSEBUD SS. FILED DEC.
26th, 1963, AT 10:00 AM, CO. CLERK

David Lint
by: Ellen Clark
Dep.

2 cc pd.

* 1200 GPM with 150# back pressure on well. Temp of water at end of test = 190° F. Water to be used in West Sumatra Unit and Central Sumatra Unit waterfloods in portions of Sections 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19 in T14N, R32E and Sections 24, 25 and 36 in T14N, R31E, Rosebud County, Montana.



Cementing of Casing

Cemented 13-3/8" 48#, H-40 casing at 204' with 150 sacks regular cement.

Cemented 8-5/8" 24#, J-55 casing at 6099' with 60 sacks Class "G" cement out the shoe. Cemented out two stage collar at 6030' with 800 sacks Halliburton light cement followed by 170 sacks Class "G" cement.

194304

194304 } 93.
14 1/2" J-55
70 ... 500 ... 6030'
Howard Jack
B. D. Johnson
500

File No

T 11N R 32E

ORIGINAL

County Rosebud

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

200 North Wolcott

Owner Continental Oil Company Address Casper, Wyoming 82601

Driller Soape Drilling Co. Address Box 7, Melstone, Mont. 59054

Date of Notice of appropriation of groundwater None filed

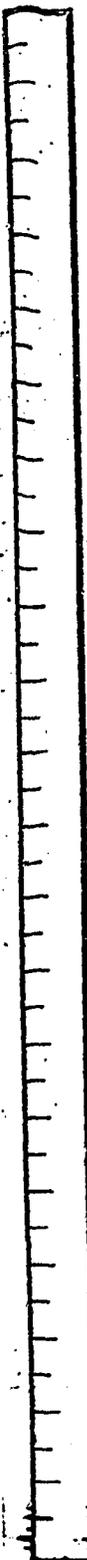
Date well started 3-4-68 Date completed 4-22-68

Type of well Drilled Equipment used Rotary
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

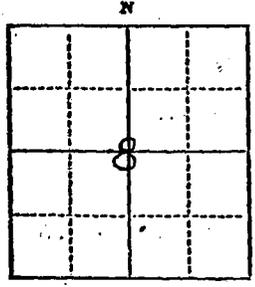
Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

See attached Gamma Ray - Neutron log.

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



Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
17 1/2"	13 3/8" H-40, 48#	Surface	204'	Open Hole	6099'	to 6176'
11"	8 5/8" J-55, 24#	Surface	6099'			



Static Water Level for non-flowing well Not applicable feet.

Shut-in Pressure for Flowing Well 300 psig

Pumping Water Level not applicable feet at not applicable gal. per minute.

Discharge in gal. per min. of flowing well * 1200

How Tested Flowed

Length of Test 1/2 hour at this rate

Remarks: (Gravel packing, cementing, packers, type of shutoff) Open hole completion 6099' to 6176'

See note on "cementing of casing" on reverse side.

(Continue on reverse side)

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).

* 1200 GPM with 150# back pressure on well. Temp of water

at end of test = 190° F. Water to be used in West Sumatra

Unit waterflood in portions of Sections 7, 8, 9, 16, 17, 18

(see reverse side)

Show exact depth of bottom.

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, tissue copy to be retained by driller.

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

Driller's License Number

Driller's Signature

and 19 in T11N, R32E and Sections 24 and 25 in T11N, R31E, Rosebud County, Montana.

Cementing of Casings

Cemented 13 3/8" 480, H-40 casing at 206' with 150 sacks regular cement.

Cemented 8 5/8" 240, J-55 casing at 6099' with 60 sacks Class "G" cement out the shoe.

Cemented out two stage collar at 6030' with 800 sacks Halliburton light cement followed by 170 sacks Class "G" cement.

T 11N R 32E

County Rosebud

Kincheloe A Lease Well #7

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

*		

Owner Continental Oil Company Address Box 878, Powell, Wyo.

Driller Address

Date Started 12-18-54 Date Completed 1-9-55

Location: Sec 8 T 11N R 32E ¼ sec NW SW

Type of well Drilled Equipment used Rotary
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other:

Casing: Surface ft. to 4689 ft. Type J-55 Size 5 1/2"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 4544 to ft. 4578 Ft. 4602 to ft. 4624

Type of screen or perforations Bullet

Static Water level, for non-flowing well: feet.

Shut-in pressure, for flowing well: lb./sq. in. on: (date)

Pumping water level: feet at 2340 BW/No. gal. per min.

How tested: Meter

Length of test: 24 hrs.

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

Well is producing oil and water.

(over)

T 11N R 32E

County Rosebud

Kinchelee A Lease Well #9

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

x		

Owner Continental Oil Company Address Box 878, Powell, Wyoming

Driller Address

Date Started 5-23-55 Date Completed 6-8-55

Location: Sec 8 T 11N R 32E 1/4 sec NW SW

Type of well Drilled (Dug, driven, bored, or drilled) Equipment used Rotary (Churn drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other:

Casing: Surface ft. to 4116 ft. Type J-55 Size 5 1/2"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 4015 to ft. 4050 Ft. to ft.

Type of screen or perforations Bullet

Static Water level, for non-flowing well: feet

Shut-in pressure, for flowing well: lb./sq. in. on: (date)

Pumping water level 4015 feet at 2340 BW/Mo. gal. per min.

How tested: Meter

Length of test 24 Hr.

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

Well is producing oil and water.

(over)

T. 11N R. 32E

County. Rosebud

Kincheloe A Lease Well #6

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

x			

Owner. Continental Oil Company Address. Box 878, Powell, Wyoming

Driller. Address.

Date Started. 11-8-54 Date Completed. 12-11-54

Location: Sec. 8 T. 11N R. 32E 1/4 sec. SW SW

Type of well. Drilled Equipment used. Rotary
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other:

Casing: Surface ft. to 4646 ft. Type. J-55 Size. 5 1/2"

Casing: ft. to ft. Type. Size.

Casing: ft. to ft. Type. Size.

Perforated or Screened: Ft. 4510 to ft. 4530 Ft. 4539 to ft. 4562

Type of screen or perforations. Jets

Static Water level, for non-flowing well:feet.

Shut-in pressure, for flowing well:lb./sq. in. on: (date)

Pumping water level. 4510 feet at 30 BW/No. gal. per min.

How tested: meter

Length of test. 24 hrs.

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
Well is producing oil and water.

(over)

T. 11N R. 32E

County Rosebud
Kincheles A Lease Well #4

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

	X	

Owner Continental Oil Company Address Box 378, Powell, Wyoming

Driller Address

Date Started 9-12-54 Date Completed 10-1-54

Location: Sec. 8 T. 11N R. 32E 1/4 sec. SE SW

Type of well Drilled (Dug, driven, bored, or drilled) Equipment Used Rotary (Churn drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other:

Casing: Surface ft. to 4789 ft. Type J-35 Size 5 1/8"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 4650 to ft. 4660 Ft. 4664 to ft. 4670

Type of screen or perforations Jets

Static Water level, for non-flowing well: feet.

Shut-in pressure, for flowing well: lb./sq. in. on: (date)

Pumping water level 4650 feet at 360 BM/No. gal. per min.

How tested: Meter

Length of test 24 Hr.

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
Well is producing oil and water.

(over)

T. 11N R. 32E

County Rosebud

Kincheloe A Lease Well #3A

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

	x	

Owner Continental Oil Company Address Box 878, Powell, Wyo.

Driller Address

Date Started 6-11-57 Date Completed 7-4-57

Location: Sec. 8 T. 11N R. 32E 1/4 sec. NW SE

Type of well Drilled Equipment used Rotary
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other:

Casing: Surface ft. to 4758 ft. Type J-55 Size 5 1/2"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 4671 to ft. 4687 Ft. 4700 to ft. 4710

Type of screen or perforations Bullet

Static Water level, for non-flowing well: feet.

Shut-in pressure, for flowing well: lb./sq. in. on: (date)

Pumping water level 4671 feet at 60 BW/Mo. gal. per min.

How tested: Meter

Length of test 24 Hr.

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

Well is pumping oil and water

(over)

T. 11N R. 32E

County Rosbud

Kincheloe A Lease Well #1

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

			X

Owner Continental Oil Company Address Box 378, Powell, Wyo.

Driller Address

Date Started Date Completed

Location: Sec. 8 T. 11N R. 32E 1/4 sec. SE SE

Type of well Drilled Equipment used Rotary
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other:

Casing: Surface ft. to 4773 ft. Type J-15 Size 5 1/2"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 4650 to ft. 4708 Ft. to ft.

Type of screen or perforations

Static Water level, for non-flowing well: feet.

Shut-in pressure, for flowing well: lb./sq. in. on: (date)

Pumping water level feet at gal. per min.

How tested: Meter

Length of test 24 hr.

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

Well is producing oil and water.

(over)

File No.

T. 11N R32

DUPLICATE

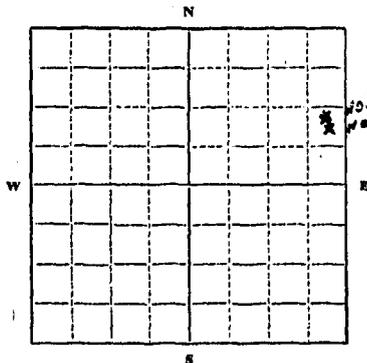
County Rosebud

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUL 23 1963

Declaration of Vested Groundwater Rights STATE ENGINEER
(Under Chapter 237, Montana Session Laws, 1961)

1. T. J. & Anita C. Corcoran, of Malta Montana
(Name of Appropriator) (Address) (Town)
County of Rosebud State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 7/8 Sec. 4 T. 11N R. 32

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based.....
Stock, House, Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....
1. 10 years
2. 3 years

4. The amount of groundwater claimed (in miner's inches or gallons per minute).....
1. 15 gal.
2. 30 gal.

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.....
5 acres for Well No. 2 T. J. Corcoran
5 acres for Well No. 1 Texaco Inc.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....
Electric Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....

8. The depth of water table..... Well No. 2 15 ft. Well No. 1 10 ft.

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.....

10. The estimated amount of groundwater withdrawn each year..... 1. 18000 2. 360000

11. The log of formations encountered in the drilling of each well if available.....

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.....

T. J. Corcoran (by)
Signature of Owner..... Mrs. T. J. Corcoran

Date..... July 22nd, 1963.

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is 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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

178102

STATE OF MONTANA }
COUNTY OF ROSEBUD } SS.

Filed on the 22nd day of July
1963 at 3:20 o'clock P.M.

Harold J. ...
County Clerk for Rosebud

By *Billy M. ...*
7/22/63

File No.

T. 11N R. 32E

DUPLICATE

County Rosebud

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

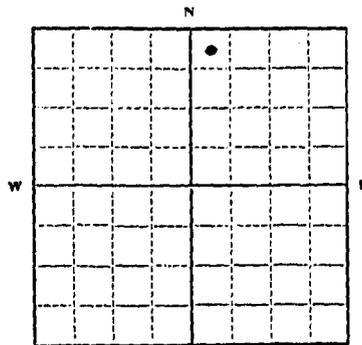
RECEIVED

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. PEXACO Inc. of 1236 North 28th St. - Billings
(Name of Appropriator) (Address) (Town)
County of Yellowstone State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW-1/4-NE 1/4
Sec. 14 T. 11N R. 32E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based...
Oil Field (Leases) requirements.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been...
March 26, 1953 continuously to the present

4. The amount of groundwater claimed (in miner's inches or gallons per minute)...
17 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
Not applicable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal...
Downhole Electric Pump Grebe's Lease, located in the Center NW-1/4-NE 1/4 Sec. 14, T-11N, R-32E

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater...
March 9, 1953 - Completed March 26, 1953

8. The depth of water table...
582

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...
Well drilled to 600', 533' of 5-1/2" OD 15.5# casing run and cemented, well producing from the Judith River Formation 540'-582'

10. The estimated amount of groundwater withdrawn each year...
146,000 Gallons

11. The log of formations encountered in the drilling of each well if available...
Not available.

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

John R. Dues
John R. Dues
Date 12/20/62

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is 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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

177278

MONTANA
COUNTY OF ROSEBUD

Filed on the 24th day of June

1963 at 3:40 o'clock P.M.

_____ County Clerk & Ex. Comm.

By Betty M. Fortner
42.00

FILED IN

THIS OFFICE IS TICKETED
RECORDED & INDEXED
JUN 24 1963
CLERK OF DISTRICT COURT
ROSEBUD, MONTANA

14

File No.

T 11N R 32E

DUPLICATE

County Beaumont

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

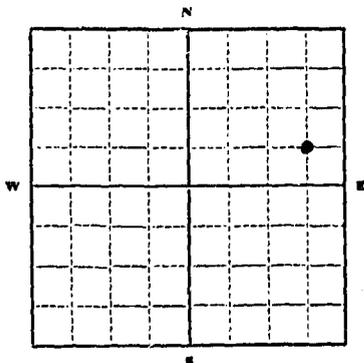
RECEIVED

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. TEKACO Inc. of 1236 North 28th Street Billings
(Name of Appropriator) (Address) (Town)
County of Yellowstone State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4, NE Sec. 14, T. 11N, R. 32E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based for general domestic use - Camp Facilities.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been December 19, 1953 and continuously until approx. 1 Sept., 1962; idle since then.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 Gals. per min.

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 Not Applicable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Byers pumping head w/wood sucker rods & 1-3/4" sig. 551, Located on Grebe "C" Lease G-SE-NE, Sec. 14 - 11N - R32E

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater December 10, 1953 December 19, 1953

8. The depth of water table 28 Ft.

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 Well Drilled to 37', 37' of 10-3/4" OD 32.75' Casing run and 3 yds pea gravel packed behind pipe & cemented from 0' to 4' w/3 sz.

10. The estimated amount of groundwater withdrawn each year 21,900 Gallons

11. The log of formation encountered in the drilling of each well if available Not available

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 Tekaco Inc.

Date 12/20/62

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is 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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

177279

STATE OF MONTANA,) SS.
COUNTY OF ROSEBUD)

Filed on the 24th day of Jan

19 63 at 3:40 o'clock P. M.

Howard Lait
County Clerk & Recorder

By Betty M. Fortuin
#22.00

RECORDED

RECORDED
INDEXED
FEB 11 1963
COUNTY CLERK & RECORDER
ROSEBUD, MONTANA

File No. _____

T 11N, R 32E

DUPLICATE

County Rosebud

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
(Elev. above sea level 3043')

Owner ELKACO Inc. Address P.O. Box 2100
Denver, Colorado

Driller Great Northern Drlg. Address 1242 No. 28th St.
Billings, Montana

Date of Notice of appropriation of groundwater July 31, 1969

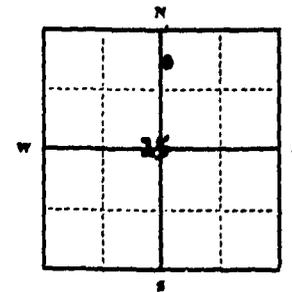
Date well started August 1, 1969 Date completed Sept. 21, 1969

Type of well Drilled Equipment used Rotary
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other Secondary Recovery-Oil

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
15"	10-3/4" 32.75#	0	228'			
8-3/4"	2557" 23#	0	3861'			
	2557" 23#	3861'	5497'			
	2607" 23#	5497'	6083'			
		6083'	6770'	Open Hole Completion		



Static Water Level for non-flowing well _____ feet.
Shut-in Pressure for Flowing Well 230 psi.
Pumping Water Level _____ feet
at _____ gal. per minute.
Discharge in gal. per min. of flowing well 840

How Tested Test Tanks 300 Bbl.
Length of Test 5 Hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Cemented casing 7" with 525 sacks 50-50 poxmix & Slt. Set. Cement.

SW NW NE 15 T. 11N R. 32E

Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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).

Secondary Recovery, Oil, Inject water into wells located in Sec. 9, 10, 11, 14, 15 & 16, T11N, R32E.

TOTAL DEPTH 6770'
Show exact depth of bottom.

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, a true copy to be retained by driller.

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

Driller's License Number

69
Thomas J. Miller
Driller's Signature

45813

193761

STATE OF MONTANA }
COUNTY OF ROSEBURG } 88.

Filed on the 5th day of Nov
1967 at 9:00 o'clock A.M

Howard Stark
County Clerk & Recorder
by Betty M. McIntire
Deputy
\$2.00

MONTANA WATER RESOURCES BOARD
RECEIVED

NOV 6 1969

1969 NOV 6 10 58 AM
MONTANA WATER RESOURCES BOARD
MONTANA WATER RESOURCES BOARD
MONTANA WATER RESOURCES BOARD
MONTANA WATER RESOURCES BOARD

GW 1

File No.

T 11N R 32E

DUPLICATE

CORRECTED COPY

County Rosebud

MONTANA WATER RESOURCES BOARD
RECEIVED

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

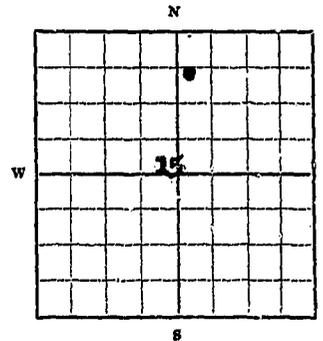
DEC 17 1969

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

(West)

1. I, TEXACO Inc., Prod. Dept. U.S., of 41 Main St., ROUNDUP
(Name of Appropriator) (Address) (Town)
County of Musselshell, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is injection water for crude oil secondary recovery - Central Sumatra Tyler Sand Unit and the Northeast Sumatra Tyler Sand Unit.
(describe lands to be benefited, if irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed approx. 630 gallons per minute
4. The annual period (inclusive dates) of intended use 10/1/69 thru approx. 1986 - yearly continuously
5. The probable or intended date of first beneficial use October 1, 1969
6. The probable or intended date of commencement and completion of the well* Commence well by August 1, 1969. Completed by Sept. 1, 1969
7. The location, type, size and depth of well or wells contemplated SW NW NE Sec. 15, T11N, R32E, Rosebud County, Montana, 7" casing, water supply well, 6340' deep.
8. The probable or estimated depth of the water table or artesian aquifer 6100'
9. Name, address and license number of the driller engaged Great Northern Drilling Co., Inc., Billings, Montana License No. 69
10. Give such other similar information as may be useful in carrying out the policy of this act well location is 873' from North Line and 2434' from East Line to Section 15, T11N, R32E. Elevation before grading 3043' (ground).



SW NW NE 1/4 Sec 15 T. 11N R. 32E

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator [Signature] December 15, 1969

Date.....

* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn.

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

45988

194662

STATE OF MONTANA }
COUNTY OF ROBERTS } SS.

Filed on the 16th day of Dec...

1969 at 11:25 o'clock A.M.

Howard ...
County Clerk of Roberts

Betty M. J... ..
\$ 2.00

[Faint, illegible text, possibly a receipt or ledger entry]

GW1

File No.

T11N, R32E

DUPLICATE

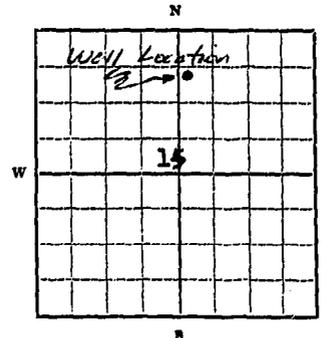
County Rosebud

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

RECEIVED

Notice of Appropriation of Groundwater AUG 5 1969
(Under Chapter 237, Montana Session Laws, 1961)

1. I, TEXACO Inc., Prod. Dept. U.S. (West), of 202 E. 2nd St. Casper
(Name of Appropriator) (Address) (Town)
County of Natrona, State of Wyoming, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is injection water for crude oil secondary recovery - Central Sumatra Tyler Sand Unit
(describe lands to be benefited, if for irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed approx. 630 gallons per minute
4. The annual period (inclusive dates) of intended use Oct. 1, 1969 thru approx 1986 - yearly continuously
5. The probable or intended date of first beneficial use Oct. 1, 1969
6. The probable or intended date of commencement and completion of the well* Commence well by August 1, 1969. Completed by Sept. 1, 1969
7. The location, type, size and depth of well or wells contemplated SW NW NE Sec. 15, T11N, R32E, Rosebud County, Montana, 7" casing, water supply well, 6340' deep.
8. The probable or estimated depth of the water table or artesian aquifer 6100'
9. Name, address and license number of the driller engaged Great Northern Drilling Co., Inc., Billings, Montana License No. 69
10. Give such other similar information as may be useful in carrying out the policy of this act. well location is 873' from North line and 2434' from East line to Section 15, T11N, R32E. Elevation before grading 3043 (ground).



SW NW NE 1/4 Sec. 15 T11N R32E

Locate well or other means of development as accurately as possible on the plat
SIGNED: D. C. BAKER

Signature of Appropriator.....

Date July 31, 1969

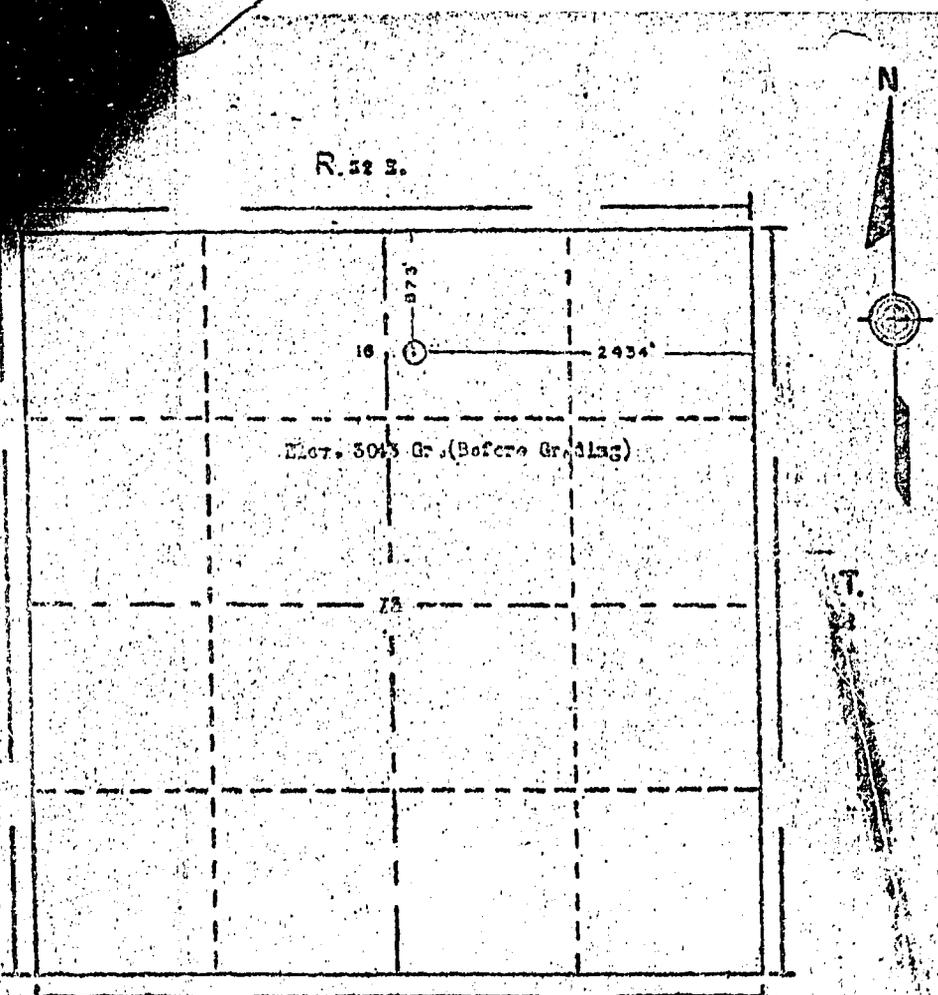
* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

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

45503



Powers Elevation Company, Inc. of Denver, Colorado
 has in accordance with a request from Zenger
 for Texaco, Inc.
 determined the location of file E.L. Grebe W.S.T.
 to be 673' 78"-2434' 78" Section 75 Township 12 N.
 Range 22 E., Montana Principal Meridian
 Rosebud County, Mont.

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of

Date: 7/2/69
 E.L. Grebe
E. J. J. J. J.
 Licensed Land Surveyor No. 68522
 State of Mont.



193259

STATE OF MONTANA,
COUNTY OF ROBERTS)

Filed on the 4th day of Aug

1949 at 9:00 o'clock A.M.

Edward J. Pitt
County Clerk & Recorder

Edwin Clark
County Clerk

202

GW 1

File No.....

T. 11N R. 32E

HE

DUPLICATE
MONTANA DEPARTMENT OF LAND RECORDS
RECORDED

County Rosebud

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

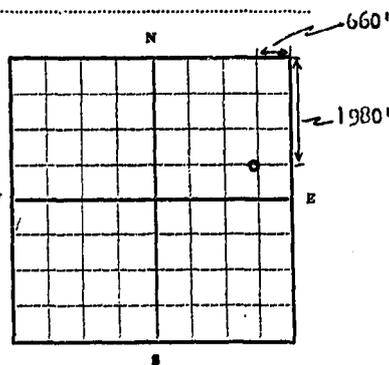
OCT 6 1969

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

- I, BG60Co., of 120 C. A. Johnson Building, Denver.
(Name of Appropriator) (Address) (Town)
County of Denver, State of Colorado 80202, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
- The beneficial use to which water is to be applied is for injection into the Tyler Sand formation of the Sumatra Field in connection with secondary recovery of oil by means of waterflooding.
(describe lands to be benefited, if for irrigation)
- The rate of use in gallons per minute or miner's inches of groundwater claimed.....
500 gallons per minute
- The annual period (inclusive dates) of intended use January 1 through December 31, continuous use.
- The probable or intended date of first beneficial use October 1, 1969
- The probable or intended date of commencement and completion of the well* or wells*
Commencement: July 15, 1969. Completion: August 31, 1969
- The location, type, size and depth of well or wells contemplated 1980' FML and 660' FEL, Section 24 (C SE 1/4 NE 1/4) - 11N-32E, MPM, Rosebud County, Montana. Rotary, 11" hole, 6800' casing (8 5/8") to be cemented to 200' A/P.
- The probable or estimated depth of the water table or artesian aquifer 6200'
- Name, address and license number of the driller engaged Soape Drilling Company, P. O. Box 7, Melstone, Montana, 59054, License No. 160.

10. Give such other similar information as may be useful in carrying out the policy of this act.....Water from this well will be injected into the Tyler Sand formation of the Sumatra Field as a part of waterflooding operations in connection with secondary recovery operations. Injection of this water will increase the ultimate yield of recoverable oil from the Tyler Sand formation and will be in the best interest of conservation of natural resources.



NE 1/4 Sec. 24 T. 11N. R. 32E

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Robert W. Peterson
R. W. Peterson, Vice President of Buttes Gas & Oil Co.
Date September 22, 1969

* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

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

45 710

GW1

File No.

T 11N R 32E

County Rosebud

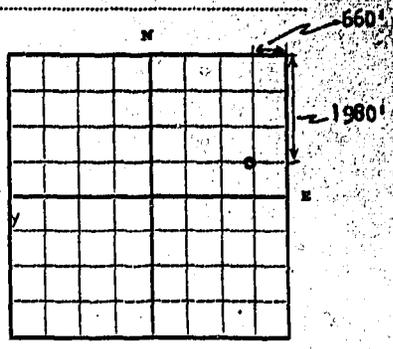
DUPLICATE
MONTANA WATER RESOURCES BOARD
RECEIVED

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

OCT 6 1969

Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

- I, 8660 Co., of 420 C. A. Johnson Building, Denver.
(Name of Appropriator) (Address) (Town)
County of Denver, State of Colorado 80202, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
- The beneficial use to which water is to be applied is for injection into the Tyler Sand formation of the Sumatra field in connection with secondary recovery of oil by means of waterflooding.
(describe lands to be benefited, if for irrigation)
- The rate of use in gallons per minute or miner's inches of groundwater claimed 500 gallons per minute.
- The annual period (inclusive dates) of intended use January 1 through December 31, continuous use.
- The probable or intended date of first beneficial use October 1, 1969
- The probable or intended date of commencement and completion of the well* or wells*
Commencement: July 15, 1969 Completion: August 31, 1969
- The location, type, size and depth of well or wells contemplated 1920' ENL and 660' FEL, Section 24 (C SE1/4 NE1/4)-11N-32E, MPM, Rosebud County, Montana. Rotary, 11" hole, 6800' casing (8.5/8") to be cemented to 6200' +/-.
- The probable or estimated depth of the water table or artesian aquifer 6300'
- Name, address and license number of the driller engaged Soape Drilling Company, P. O. Box 7, Melstone, Montana, 59054, License No. 160.
- Give such other similar information as may be useful in carrying out the policy of this act: Water from this well will be injected into the Tyler Sand formation of the Sumatra Field as a part of waterflooding operations in connection with secondary recovery operations. Injection of this water will increase the ultimate yield of recoverable oil from the Tyler Sand formation and will be in the best interest of conservation of natural resources.



NE 1/4 Sec. 24 T.11N. R.32E

Locate well or other means of development as accurately as possible on the plat.
BGE

Signature of Appropriator: R. W. Peterson
R. W. Peterson, Vice President of Buttes Gas & Oil Co.
Date: September 22, 1969

* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

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

45710

193529

STATE OF MONTANA } ss.
COUNTY OF ROSS

the 25th day of Sept.
1969

for the sum of \$2.00
I hereby certify that
the above is a true and correct
copy of the original as
shown to me by
w/ Betty M. Intaine
\$2.00

TELEPHONE: 292-4820
AREA CODE: 303

Juniper



OIL & GAS COMPANY
A DIVISION OF
BG&CO.

MONTANA WATER RESOURCES BOARD

Dir. _____ Pln. _____
Adm. _____ Inf. _____
Eng. _____ 3rd. _____
SWD _____ RBC _____
Genl. _____ WSW _____

SUITE 420, C. A. JOHNSON BUILDING, 509 SEVENTEENTH STREET, DENVER, COLORADO 80202

September 30, 1969

MONTANA WATER RESOURCES BOARD
RECEIVED

OCT 6 1969

Montana State Engineer
15 Poly Drive
Billings, Montana

Montana School of Mines
Butte
Montana

Re: Notice of Appropriation of Groundwater
Rosebud County, Montana

Gentlemen:

Enclosed for your files is a copy of our recorded Notice of Appropriation of Groundwater for a water supply well located in Section 24 of Township 11 North, Range 32 East, Rosebud County, Montana.

Sincerely,

Donald P. McCourt
Donald P. McCourt

DPMcC:dwd

Enclosure

File No.

RECEIVED

T 11N R 32E

DUPLICATE

MAR 12 1970

County Rosebud

Water Flows: LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner: BG&Co. Address: 420 C. A. Johnson Bldg. Denver, Colorado 80202 P. O. Box 7
Driller: Soape Drilling Co., Inc. Address: Melstone, Montana 59054

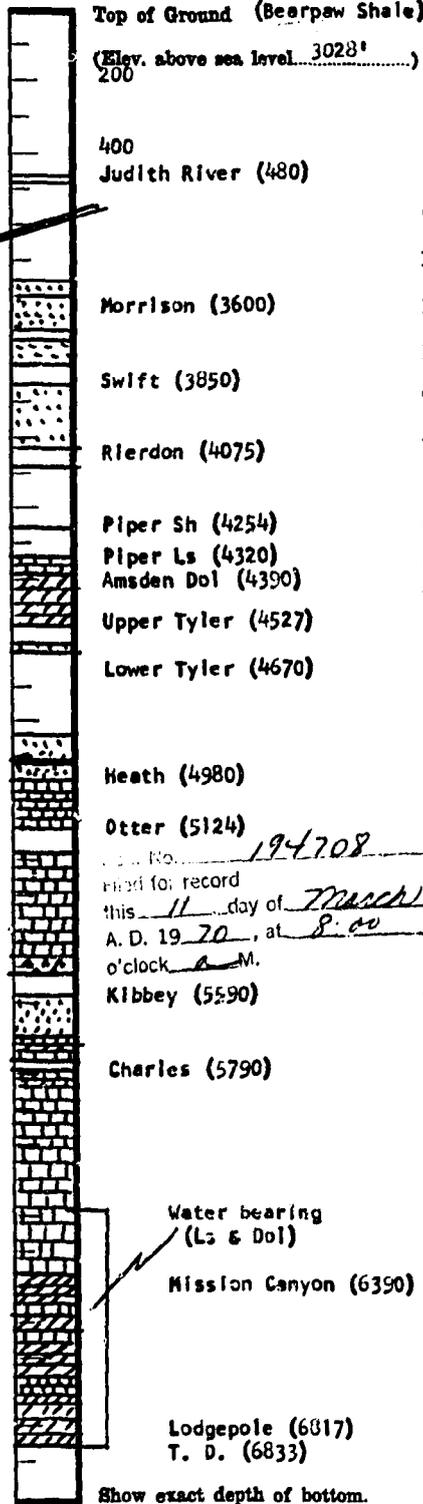
Date of Notice of appropriation of groundwater: August 29, 1969

Date well started: July 15, 1969 Date completed: December 6, 1969

Type of well: Drilled Equipment used: Rotary
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

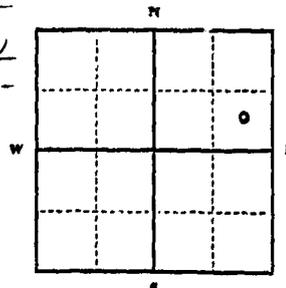
Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other Waterflooding

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



D/A of Drilled Hole	Size and Weight of Casing	From (Foot)	To (Foot)	PERFORATIONS		
				Kind Size	From (Foot)	To (Foot)
17 1/2"	13 3/8", 48 lb	-0-	323	NONE	Open hole completion	
11"	8 5/8", 32, 36 & 40 lb.	-0-	6153			

No. 194708
Filed for record this 11 day of March A. D. 19 70, at 8:00 o'clock A.M.



Static Water Level for non-flowing well -0- feet.
Shut-in Pressure for Flowing Well 275 feet.
Pumping Water Level --- feet at --- gal. per minute.
Discharge in gal. per min. of flowing well 220

How Tested Flow into pit
Length of Test 24 Hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Open hole completion; no liners or gravel pack.

SE 1/4 NE 1/4 Sec. 24, T. 11N, R. 32E
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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).

Water from this well will be used for injection into the Tyler Sand formation of the Sumatra Field in connection with secondary recovery by waterflooding.

Soape Drilling Company, Inc.
No. 160

Driller's License Number
D E Soape
Driller's Signature.

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, tissue copy to be retained by driller.
Please answer all questions. If not applicable, so state, otherwise the form will be returned.

46244

194708

STATE OF MONTANA, }
COUNTY OF DEWEEDE } ss.

Filed on the 11th day of *March*

1970 at *8.00* o'clock *A. M.*

Harold Hill

County Clerk

Patricia M. Fontaine

82.02

File No. _____

T. 11 N. R. 33 E

DUPLICATE

County Bozeman

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

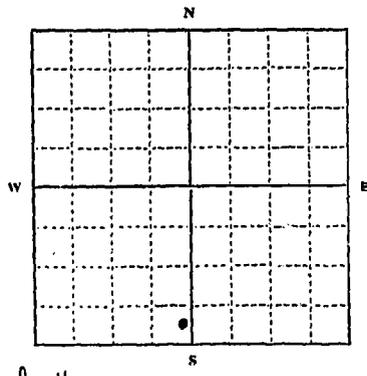
RECEIVED
JAN 3 1964

Declaration of Vested Groundwater Rights ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Leo Hecker of Sumatra
(Name of Appropriator) (Address) (Town)

County of Bozeman State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW⁴ Sec. 1 T. 11 N. R. 33 E.

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

- 2. The beneficial use on which the claim is based. Stock water and house use
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1925 used continuously
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute). Ten gal 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. No irrigation
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Pump, driven by electric motor
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Commenced April 1, 1925 Completed May 1, 1925
- 8. The depth of water table. 100 ft.
- 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. Water well, 130 ft deep with 6 in casing
- 10. The estimated amount of groundwater withdrawn each year. 600,000 gal
- 11. The log of formations encountered in the drilling of each well if available. not available
- 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. No more information available

Signature of Owner Leo Hecker
Date Dec 28, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is 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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

179848

STATE OF MONTANA, COUNTY
OF ROSEBUD SS. FILED DEC.
30, 1963, AT 11:20 AM, CO. CLERK

2nd pd *Howard Fair*

6

File No.

T. 11 N. R. 34 E.

DUPLICATE

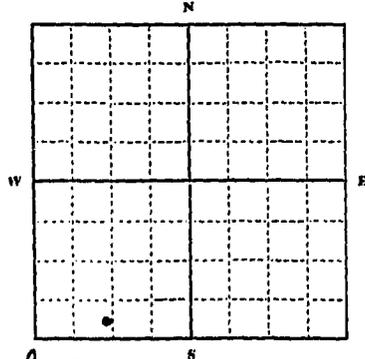
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

County Blaine
JAN 3 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Leo Hecker, of Sumatra,
(Name of Appropriator) (Address) (Town)
County of Blaine State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Sw¹
1/4 Sec. 6, T. 11 N., R. 34 E.

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

- 2. The beneficial use on which the claim is based Stock water
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1914 used continuously
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gal 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 none used for irrigation
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pump with windmill
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Well was drilled in 1914
- 8. The depth of water table 100 ft.
- 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 120 ft deep with 6 in casing
- 10. The estimated amount of groundwater withdrawn each year 600,000 gal
- 11. The log of formations encountered in the drilling of each well if available not available
- 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 no other information available

Signature of Owner Leo Hecker
Date Dec. 28, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is 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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

21091

179847

STATE OF MONTANA, COUNTY
OF ROSEBUD SS. FILED DEC.
30, 1963, AT 11:24 AM, CO. CLERK

Howard J. ...
By Betty M. ...
#222 ...

JW 3

Approved Stock Form—State Publishing Co., Helena, Montana

19

File No.

T. 11 R. 34
RECEIVED
County: ...
JAN 8 1964

DUPLICATE

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

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec 31, 1963

Owner H. W. C. S. T. C. Address S. W. A. T. R. H. M. I. T.

Contractor (if any)

Address of Contractor

Date Started..... Date Completed.....

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

20 feet to water

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

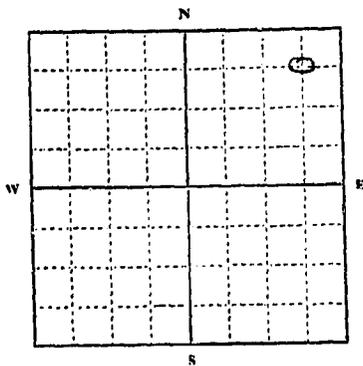
estimate approximate lengths of periods of use.....

1200 gpd per acre 1000000 gpd

1000000 gpd

Signature of Owner Phil Hauck

Date Dec 31, 1963



1/4 Sec. 19, T. 11, R. 34

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

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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

21301

19

File No. _____

DUPLICATE

RECEIVED
JAN 8 1964
County _____

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

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

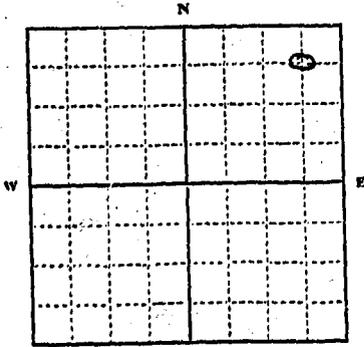
Date of Appropriation of Groundwater Dec 31, 1963

Owner HAUCK ESTATE Address SUMMIT PA. MONT

Contractor (if any) _____

Address of Contractor _____

Date Started _____ Date Completed _____



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

20 FEET TO WATER

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.

10 GPM PER HOUR (ESTIMATED)

WATER IS AVAILABLE YEAR AROUND

1/4 Sec. 19 T. 11 R. 34

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

Signature of Owner Phil Hauck

Date Dec 31, 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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

180074

STATE OF MONTANA, COUNTY
OF ROSEBUD SS- FILED DEC.
31, 1963, AT 1:50 P.M., CO. CLERK

8200

Howard, Laird
David James Hall, Jr.

GW 3

File No.

T. 11 N. R. 34 E.

DUPLICATE

County, Rosebud

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE

RECEIVED
JAN 6 1964

OFFICE OF STATE ENGINEER

STATE ENGINEER

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater October 1, 1917

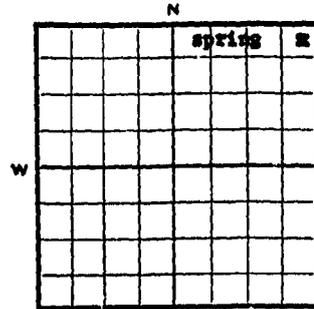
Owner Myrtle L. Hauck

Address Sunatra, Montana

Contractor (if any) self

Address of Contractor same

Date Started Oct. 1, 1917 Date Completed Oct. 1, 1917



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

water flowing at surface,

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

50 gallons per minute, unattended, continuous use for livestock water;

Signature of Owner Myrtle L. Hauck

Date 12/31/63

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 School of Mines and Quadruplicate for the Appropriator.

180170

STATE OF MONTANA, COUNTY
OF ROSEBUD SS. FILED J. H.
2nd, 1964, AT Rosebud, CO. CLERK.

Harold Lat
By: Helen Clark, Dep.



After the preliminary plat has been deposited with the Clerk of the County...

GW
File No. _____
DUPLICATE

T. 11 N., R. 34 E.

RECEIVED
JAN 8 1964

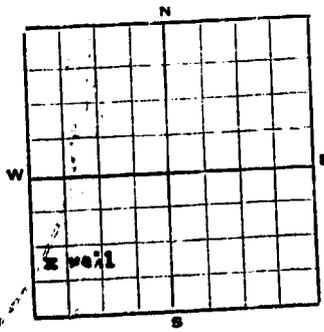
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

STATE ENGINEER

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

1. Myrtle L. Hauck of Sumatra
(Name of Appropriator) (Address) (Town)

County of Rosebud State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Notes: Sec. 19 T. 11 N. R. 34 E.

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based
Domestic and stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
JULY 1, 1950

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
25 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
n/a

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Submerged electric pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
JUNE 1950

8. The depth of water table
140 feet

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
well drilled to depth of 200 feet and casing

10. The estimated amount of groundwater withdrawn each year
500,000 gallons

11. The log of formations encountered in the drilling of each well if available
n/a

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
none

Signature of Owner Myrtle L. Hauck
Date 12/31/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is 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.

elusive reference to notes
 place of use, it benefits from each
 purpose point of abstraction and

180169

STATE OF MONTANA, COUNTY
 OF ROSEBUD SS. FILED
 248, 1964, AT 8:00 AM, CO. CLERK

*Received into
 file Ellen Clark, M.P.*

DEPARTMENT OF REVENUE
 DIVISION OF STATE TAXES
 DIVISION OF GEOLOGICAL AND
 MINERAL RESOURCES

INDEXED

FILED

BY

1964

29

File No.

DUPLICATE

T. 11N 34E
County
JAN 3 1964

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. 12/31/63

Owner. HAUCK ESTATE Address. SUMMIT RA, MONT

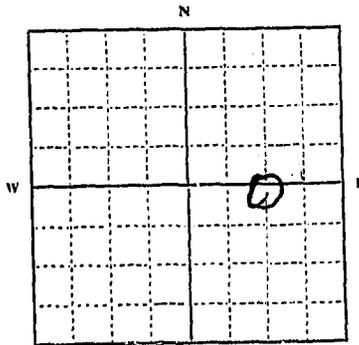
Contractor (if any)

Address of Contractor

Date Started. / Date Completed.

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

20 FEET TO WATER



1/4 Sec 27 T. 11. R. 34
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

10 GAL PER MIN (ESTIMATED)

WATER IS AVAILABLE YEAR AROUND

Signature of Owner. Phil Hauck

Date. 12/31/63

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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

21302

180075

STATE OF MONTANA, COUNTY
OF ROSEBUD SS. FILED DEC
31, 1963, AT 1:54 P.M., CO. CLERK

\$2.00

*Howard Clark
County Clerk, Big*



GROUNDWATER INDEX

Page 1 of

County ROSEBUD Twp. 11 NORTH Rge. 36 EAST

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
<u>28</u>	<u>CHERRY CREEK SHEEP Co. Inc.</u>	<u>WATER WELL LOG</u>	<u>171596</u>	

Form No. 18
8-60

T. 11N R. 36E
County Rosebud

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
FEB 27 1961

WATER WELL LOG

STATE ENGINEER

	<u>28</u>		

Owner Cherry Creek Sheep Co, Inc. Address Ingomar, Montana

Driller Marburn Drilling Co, Inc. Address Billings, Montana

Date Started Dec. 7, 1960 Date Completed Dec. 20, 1960

Location: Sec. 28 T. 11N R. 36E $\frac{1}{4}$ sec. NW

Type of well _____ Equipment used Rotary
(Dug, driven, bored, or drilled) (Churn, drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other _____

Casing: 0 ft. to 136 ft. Type _____ Size 8 $\frac{5}{8}$ " (24 $\frac{1}{2}$ ft)

Casing: 0 ft. to 2755 ft. Type J-55 Size 5 $\frac{1}{2}$ " (15 $\frac{1}{2}$ ft)

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 2612 to ft. 2646 . Ft. 2670 to ft. 2712

Type of screen or perforations Shaped-charges (3 $\frac{5}{8}$ " capsules)

Static Water level, for non-flowing well: _____ feet.

Shut-in pressure, for flowing well: 52 lb./sq. in. on: Jan. 12, 1961
(date)

Pumping water level _____ feet at Flows 40 gal. per min.

How tested: About 7 $\frac{1}{2}$ sec to fill 5 gallon can through about 420 ft 2" pipe

Length of test _____

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

100 sacks cement on surface casing and 200 sacks cement on long string

GW

File No.

T. 11 N., R. 33 E. 24

DUPLICATE

County Rosebud

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

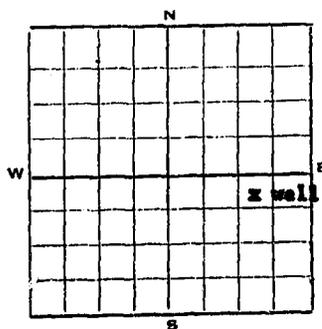
RECEIVED
JAN 6 1964

STATE ENGINEER

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

1. Myrtle L. Hauck of Sumatra
(Name of Appropriator) (Address) (Town)

County of Rosebud State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Scale 1/4 sec. Sec. 24... T. 11 N., R. 33 E.

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based
stockwater and domestic use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
July 2, 1943

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
10 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
1 acre in SW 1/4 of Section 24, T. 11 N., R. 33 E.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
windmill

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
drilled in June 1943

8. The depth of water table
80 feet

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
drilled to depth of 140 feet and cased

10. The estimated amount of groundwater withdrawn each year
350,000 gallons

11. The log of formations encountered in the drilling of each well if available
n/a

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
none

Signature of Owner Myrtle L. Hauck

Date 12/31/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is 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.

24985

File No.

T. 11 R. 41

DUPLICATE

County Rosebud

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 6 1964

STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1957

Owner William J. Killen Address Angela, Mont.

Contractor (if any) None

Address of Contractor

Date Started 1957 Date Completed

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

ground water flow from gravel deposit outcropping in old reservoir site

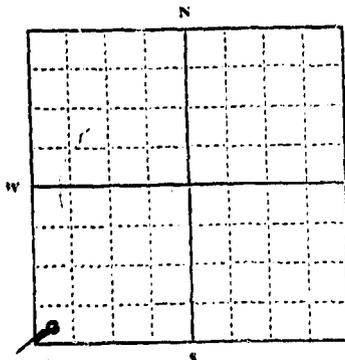
Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. approx.

4 gal. per min. flowing down beyond Fork Creek

Signature of Owner William J. Killen

Date



SW 1/4 Sec. 8 T11 R41
Indicate point of appropriation and place of use, if possible.

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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

180160

COUNTY OF MONTANA (SS.
COUNTY OF ROCKWELL)

Filed on the 2. day of Jan.

1964 at 12:00 o'clock P.M.

Howard J. J.
County Clerk & Recorder

By J. O. H.
Deputy

File No.

T. 11 N R. 41 E 12

DUPLICATE

County Rosebud

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

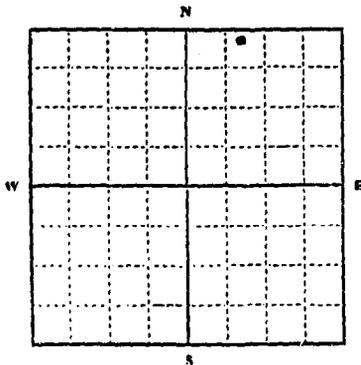
RECEIVED
JAN 6 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. William J. Killen of Angela
(Name of Appropriator) (Address) (Town)
County of Rosebud State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 12 T. 11. R. 41

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1937

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 2 g.p.m.

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

not applicable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal motor

driven pumpjack

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1937

8. The depth of water table 35 ft.

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 40 ft. bored well, 2 ft. diameter wooden stave casing

10. The estimated amount of groundwater withdrawn each year 1000 gal. per day

11. The log of formations encountered in the drilling of each well if available 4 or 5 ft. per year

not available

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 William J. Killen

Date

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

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

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