

24683 W.W. # 279

STATE OF MONTANA,
County of Petroleum, } ES.

Filed FEB 4 1966 19

at 10:15 A.M.

Bonny L. Hengel
Director of Records

82.00 Pd. Deputy

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12

T. 155 R. 308
County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
MAY 27 1961

WATER WELL LOG

STATE ENGINEER

Owner Garrett Landmark Address Butte, Montana
 Driller L. Livingston Address Butte, Montana
 Date Started May 27, 1961 Date Completed May 27, 1961
 Location: Sec. 12 T. 155 R. 308 1/4 sec.

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: 2 ft. to 31 ft. Type 4 1/2" Size 5 1/2"

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

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

Perforated or Screened: Ft. _____ to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations: _____

Static Water level, for non-flowing well: 105 feet.

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

Pumping water level: _____ feet at 3 gal. per min.

How tested: Bailer

Length of test: 1 1/2 hr.

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

(over)

Form No. 18
8-60

T. 15 R. 28

County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JAN 2 1962

WATER WELL LOG

STATE ENGINEER

Ruth Well

Owner Wayne Bretten Address Donett, Montana

Cleaned out by George O. Singley Address Lewistown, Montana
Driller

Date Started _____ Date Completed August 1958

Location: Sec. 20 T. 15 R. 28 $\frac{1}{4}$ sec. NE of NW $\frac{1}{4}$

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other _____

Above ground
Casing: 2 ft. to 185 ft. Type S & S Size 5" OD

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

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

Perforated or Screened: Ft. _____ to ft. _____ . Ft. _____ to ft. _____

Type of screen or perforations _____

Static Water level, for non-flowing well: 140 feet.

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

Pumping water level 140 feet at 12 gal per min.

How tested: Salting

Length of test 2 hr.

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

Casing pulled--hole cleaned out August 1958--casing reinforced and perforated

Four packers set. Well drilled approximately 1918.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	140	Shale, Cloquet
140	185	Sandstone

19909 #112

STATE OF MONTANA, }
County of Petroleum, } ss.
Filed December 28 1914
at 1:45 o'clock P. M.
Verna R. Merrett
County Recorder.

Theresa Lee K. [unclear]

37876

W.W. 331

EW2
L.A. Vonteen

L.A. Vonteen

H.R. 1/10
1/10
1/10
1/10

STATE OF MONTANA,
County of Petroleum, } ss.

Filed JUN 27 1973

at 11:15 o'clock P.M.

Orville Barbic
Director of Records.

Deputy

U

25

T. 15 N R. 28 E
County Petroleum
RECEIVED
JUL 20 1961
STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

0		

Owner: Thompson Brothers Address: Winnett, Montana

Driller: H. L. Livingston Estate Address: Winnett, Montana

Date Started: July 2, 1961 Date Completed: July 5, 1961

Location: Sec. 20 T. 15 N R. 28 E 1/4 sec. SW 4

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: Open ft. to 303 ft. Type: F. & C. Size: 1 1/2" O. D.

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

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

Perforated or Screened: Ft. 158 to ft. 185 Ft. 249 to ft. 303

Type of screen or perforations: Slot perforations

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

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

Pumping water level: 165 feet at 6 gal. per min.

How tested: Bailed

Length of test: 1 1/2 hours

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

Homemade packer



(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	24	surface soil
24	72	blue clay and sandstone
72	73	limestone ledge
73	88	blue sandstone
88	119	blue sandy clay
119	120	hard sandstone
120	136	blue sandstone and clay
136	145	blue sandy clay
145	150	hard sandstone
150	228	blue grey sandstone
228	235	sandstone
235	264	sandstone with clay
264	294	sandstone with shale streaks
294	303	shale

Filed
 at 4:15
 o'clock
 July 18
 1961
 Deane R. Porter
 County Recorder.
 D.R.M.

19521

D.R.M.

File No.....

T. 15 N R. 28 E

DUPLICATE

County Petroleum

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

**Notice of Completion of Groundwater
Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

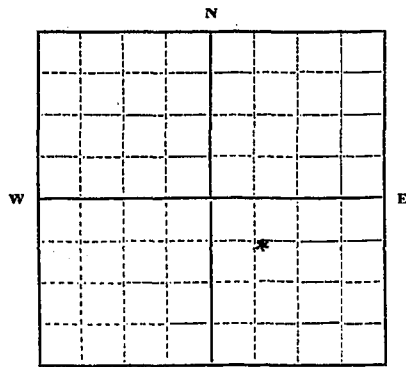
0
6
6
9
9
16
16
125
125
155
155
158
158
165
165
175
175
189

Top of Ground
(Elev. above sea level.....)
Surface
Gravel
Clay & gravel
Shale
Sandy shale
Hard rock
Sand (some water)
Sandy shale
Sand (Water increased)

Owner D. W. Whisonant Address Winnett, Montana
Driller Wellman & Munson Drlg Address Grass Range, Montana
Date of Notice of Appropriation of Groundwater (Not Applicable)
Date well started Oct. 8 1962 Date Completed Oct. 13 1962
Type of well Drilled Equipment Used Rotary
(dug, driven, bored or drilled) (Churn, drill, rotary or other)
Water Use: Domestic Municipal Other Irrigation
Industrial Drainage Stock

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 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)
7 7/8	17# 6 5/8	0	20			
5 5/8	11# 4 1/2	0	125			



SW 1/4 SE Sec. 33 T. 15 R. 28
Indicate location of well and place of use, if possible. Each small square represents 10 acres.
189 T. D.

Show exact depth of bottom.

Static Water Level for non-flowing Well.....feet.
Shut-in Pressure for Flowing Well Approx. 30 Lbs.
Pumping Water Level.....feet at.....gal. per minute.
Discharge in gal. per min. of flowing well 10 Gal. Per Min.
How Tested.....Length of Test.....
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation).....
Casings cemented, drilled in open hole.

Wellman & Munson Drlg. Co. Inc.

26
Driller's License Number
R. C. Wellman
Driller's Signature
R. C. Wellman

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.

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.

21532

#172

STATE OF MONTANA, ss.
County of Petroleum.

Filed October 22 1962

at 8:45 o'clock A M.

County Recorder.

Bonny L. Dwyer
Deputy.

34

File No.

STATE WATER CONSERVATION BOARD

T. 15N R. 28E

DUPLICATE

DEC 12 1966

County Bozeman

LOG

Bill to _____
 By _____
 Passed _____
 Date _____
 Dickart _____

STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

Top of Ground
 (Elev. above sea level)

0
 6 Surface Soil
 16 Washin Gravel
 and Sand Silt
 22 Sticky Shale
 114 Shale
 119 Hard Sand + Shells
 175 Eagle-Sand - T.D.

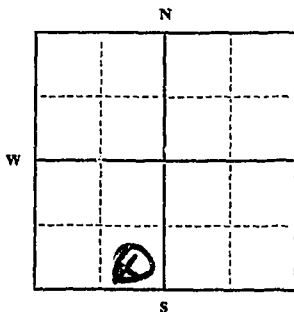
**Notice of Completion of Groundwater
 Appropriation by Means of Well**
 DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Gary Berthel Address Winnett, Mont
 Driller A. Hanson, Delg. S. Address Grass Range, Mont.
 Date of Notice of appropriation of groundwater Not Applicable
 Date well started Nov. 13-1966 Date completed Nov. 21-1966
 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

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)
9"	7" 20#	0	22	Cemented	0	22
6 1/4"	4 1/2" 10#	22	175	Open	125	175
	4 1/2" Casing	0	124	Cemented	0	124



Static Water Level for non-flowing well _____ feet.
 Shut-in Pressure for Flowing Well 60#
 Pumping Water Level _____ feet
 at _____ gal per minute.
 Discharge in gal. per min. of flowing well 60

How Tested _____
 Length of Test _____

Remarks: (Gravel packing, cementing, packers, type of shutoff Case Type)

SE 1/4 Sec. 34 T. 15 R. 28
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

124' Cemented 0-124'

(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).

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.

26
 Driller's License Number

B. M. Munson
 Driller's Signature

41,420

County Polk Iowa Twp. 15N Rge. 29E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
7	Ventner, L. A.	E. W. 3	27872	
9	Continental Oil Co.	E. W. 2	22234	
10	Indy August	G. W. H	21974	
10	Continental Oil Co.	Well log	18374	
10	"	"	18654	
10	"	"	4. 31	
10	"	"	33	
10	"	"	34	
10	"	"	35	
10	"	"	36	
10	"	"	37	
10	"	"	38	
10	"	"	39	
10	"	"	40	
10	"	"	41	
10	"	"	42	
10	"	"	3	
10	"	"	4	
10	"	"	5	
10	"	"	6	
10	"	"	1	
10	"	G. W. H	22422	
10	"	G. W. H	22432	
10	"	G. W. H	22433	
10	"	E. W. H	15622	
11	"	Well log	# 2	
11	"	"	18	
11	"	"	19	
11	"	"	20	
11	"	"	21	
11	"	"	22	
11	"	"	23	
11	"	"	24	
11	"	"	25	
13	"	"	43	
14	"	"	7	
14	"	"	5	
14	"	"	9	
14	"	"	10	
14	"	"	11	
14	"	"	22	
14	"	"	13	
14	"	"	14	
14	"	"	15	
14	"	"	16	
14	"	"	17	

RECEIVED

GAZETTE PRINTING

7

File No.

JUN 28 1973

T. 15N R. 29E

DUPLICATE

County Petroleum

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
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)

27872; 332
June 27, 1973
11:30 A.M.

Date of Appropriation of Groundwater ~~approx 1976~~ 1971

Owner L.A. Ventner Address 7032 49th Ave NE

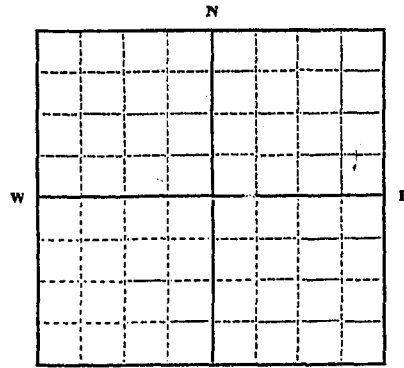
Contractor (if any) n/a

Address of Contractor n/a

Date Started as above Date Completed as above

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

dam



NE 1/4 NE Sec. 7 T15N R29E

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 water contained in one 27' deep by 50 yds long by 100 feet wide. Use is intermittent when cattle are present. Method used to estimate was wild guess.

Signature of Owner Louis A. Ventner

Date 25 June 73

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.

53,993

87872

332

E.W. 3

L.A. Dontoer

STATE OF MONTANA,
County of Petroleum, } SS.

Filed JUN 27 1973 19

at 11:30 o'clock A.M.

Orene Barber
Director of Records.

Deputy

[Faint handwritten notes]

[Faint handwritten notes]

[Faint handwritten notes]

File No.....

T. 15N R. 29E

DUPLICATE

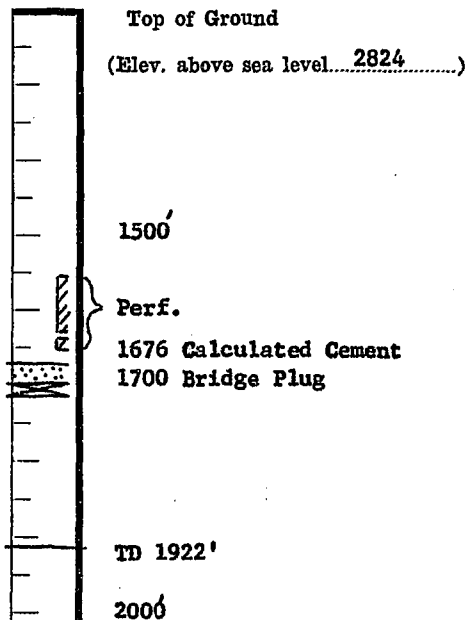
County Petroleum

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 27 1963
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

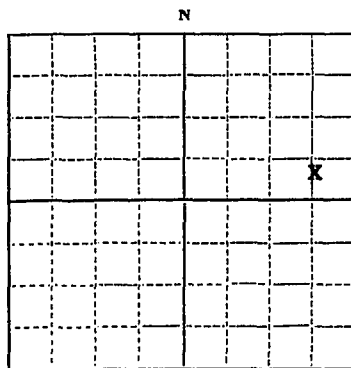
(Under Chapter 237, Montana Session Laws, 1961)



Bank Electric Bldg.
 Owner: Continental Oil Co. Address: Lewistown, Montana
 Driller:..... Address.....
 Date of Notice of Appropriation of Groundwater.....
 Date well started Aug. 11, 1925 Date Completed Aug. 30, 1925
 Type of well Drilled Equipment Used Drill
 (dug, driven, bored or (Churn, drill, rotary or drilled) other)
 Water Use: Domestic Municipal Other Irrigation
 Industrial Drainage Stock

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 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)
	12 1/2" 45#	Surface	323'			
	10" 40#	Surface	1198'			
	7" 20#	Surface	1916'	Jets 5/8"	1556	1630
					1636	1656



SE 1/4 NE Sec 9 T. 15N R. 29E
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 300' below surface feet.
 Shut-in Pressure for Flowing Well.....
 Pumping Water Level 800 feet at 76 gal. per minute.
 Discharge in gal. per min. of flowing well.....
 How Tested Reda Pump Length of Test Daily

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)
Well drilled in 1925, recompleted Aug. 31, 1962
as 3rd Cat. Creek Water Supply Well. Permanent
bridge plug set at 1700' with 5 sacks cement on top.

Not Available
Driller's License Number

Not Available
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.

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.

1594

22284

186/222

STATE OF MONTANA, }
County of Petroleum, } ss.

Filed NOV 26 1968 19

at 10:50 o'clock A.M.

Donny L. Dingle
Director of Records.

Lee: 97. 50 Deputy

File No.

T. 15 N. R. 22 E.

TRIPPLICATE

County Petroleum

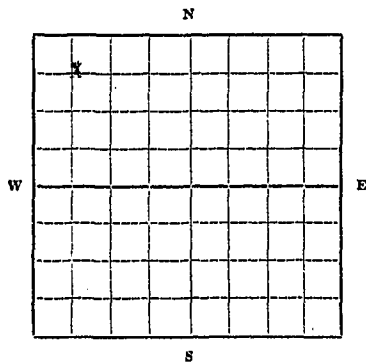
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

RECEIVED
JUN 4 1963
STATE ENGINEER

1. August Ihde, of Cat Creek
(Name of Appropriator) (Address) (Town)

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



NW 1/4 Sec. 10 T15N R22E

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 stock use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1947

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater approximately 1947

8. The depth of water table approximately 400 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 Depth of well is 2000 feet, 5 3/8" casing. The well was drilled as an oil well and converted into a water well.

10. The estimated amount of groundwater withdrawn each year 100,000 gallons per year

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 not applicable

Signature of Owner August Ihde

Date May 19, 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.

21974

STATE OF MONTANA,
County of Petroleum.

174
all

Filed May 31 1963

at 4:00 o'clock P. M.

Donny L. Dangel
County Recorder.

Deputy.

RECEIVED
 FEB 8 1960
 Montana Bureau of
 Mines and Geology

RECEIVED

T. 15N R. 29E

County Petroleum

STATE ENGINEER
 MONTANA BUREAU OF MINES AND GEOLOGY
 Butte, Montana

Oldham #29

WATER WELL LOG

Owner Continental Oil Company Address Box 700, Lewistown, Montana

Driller Taylor Drilling Co. Address Lewistown, Montana

Date Started 9-4-59 Date Completed 9-12-59

Location: Sec. 10 T. 15N R. 29E ¼ sec. NE 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: Waterflood supply

Casing: 1604 ft. to Surface ft. Type 2 1/2" J-55 Size 8 5/8"

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

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

Perforated or Screened: Ft. _____ to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations Open hole completion

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

Shut-in pressure, for flowing well: 0 lb./sq. in. on: 10-8-59
(date)

Pumping water level 250 feet at 93.5 gal. per min.

How tested: Pump tested into tank with Reda pump.

Length of test 8 hours

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

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
1147		Dakota Silt
1239	1334	1st Cat Creek
1452	1511	2nd Cat Creek
1598	1711	3rd Cat Creek
Core Description		
1190	1228	Core #1, recovered 36'. Black laminated shale. No stain or odor.
1228	1286	Core #2, recovered 57 1/2'. Black laminated shale, gray sandy shale, some vertical and horizontal fractures, stain and odor.
1286	1314	Core #3, recovered 26'. Gray siltstone, gray sandstone, good odor and stain in siltstone, bleeding oil from few siltstone lenses.
1314	1325	Core #4, recovered 10'. Gray siltstone interbedded with black shale, bleeding free oil from siltstone lenses. Highly fractured diagonally across core.
1325	1345	Core #5, recovered 20'. Black shale, diagonal fractures, gray dense siltstone; red, soft, fine grained sand, little diagonal fracturing.
1420	1445	Core #6, recovered 21'. Gray and red shale, diagonal fractures and slippage planes; red siltstone, shaley streaks.
1445	1492	Core #7, recovered 24'. All of core loss was in soft 2nd Cat Creek sand. Gray and red siltstone highly fractured. Gray dense sandstone, vertical fractures. Red shale. Gray dense shale.

Filed 11-4-58
 State of Montana
 County of Petroleum
 18379
 Certified Oil & Gas
 #71
 9:15 o'clock A.M.
 1960
 Verlin R. Walters
 County Recorder
 John Schaefer
 County Clerk and Recorder
 COPY
 #71/60

RECEIVED

STATE ENGINEER

T. 15N R. 29E

County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY

Butte, Montana

Cat Creek Unit Area #2,
Well #54

WATER WELL LOG

(Old #: Montana-Superior #4)

Owner Continental Oil Company Address Box 700, Lewistown, Montana

Driller Taylor Drilling Co. Address Box 349, Lewistown, Montana

Date Started 10-12-59 Date Completed 10-17-59

Location: Sec. 10 T. 15N R. 29E 1/4 sec. SW SE

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: Waterflood Supply

Casing: 1705 RB ft. to Surface ft. Type 2 1/2 J-55 Size 8 5/8"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations Open hole completion

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

Shut-in pressure, for flowing well: 0 lb./sq. in. on: (date)

Pumping water level 300 feet at 151.6 gal. per min.

How tested: Pump tested into tank

Length of test 24 hours

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

MBM(3), File

(over)

RECEIVED
 JUN 14 1947
 STATE ENGINEER

T. 15N R. 29E
 County Petroleum
 Harlan Lease, Well #13

MONTANA BUREAU OF MINES AND GEOLOGY
 Butte, Montana

WATER WELL LOG

X		

Owner Continental Oil Co. Address Box 878, Powell, Wyoming
 Driller Address
 Date Started 6-14-47 Date Completed 6-26-47
 Location: Sec. 10 T. 15N R. 29E 1/4 sec. NW NE

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: Water flooding

Casing: Surface ft. to 1713 ft. Type 14 & 17 lb Size 5 1/2"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations Open hole

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

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

Pumping water level 1713 feet at 14500 BW/Ko. gal. per min.

How tested: Tank Test

Length of test

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

Produced water to be used for water flooding. At present well is producing oil and water.

(over)

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AUG 30 1957

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. 15N R. 29E
County Petroleum
Harlan Lease, Well #12

STATE ENGINEER

WATER WELL LOG

x		

Owner Continental Oil Co. Address Box 878, Powell, Wyoming
Driller Address
Date Started 5-19-47 Date Completed 6-4-47
Location: Sec. 10 T. 15N R. 29E ¼ sec. SW NW

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: water flooding

Casing: Surface ft. to 189 ft. Type 15.5 lb Size 5 1/2"
Casing: ft. to ft. Type Size
Casing: ft. to ft. Type Size

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

Type of screen or perforations Open hole

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

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

Pumping water level 189 feet at 7550 BW/Mo. gal. per min.

How tested: Tank test

Length of test

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

Produced water to be used for water flood. At present well is producing oil and water.

(over)

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STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. 15N R. 29E

County Petroleum
Harlan Lease, Well #11

WATER WELL LOG

X		

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

Driller Address

Date Started 5-21-46 Date Completed 6-7-46

Location: Sec. 10 T. 15N R. 29E 1/4 sec. SW NW

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: Water flooding

Casing: Surface ft. to 1865 ft. Type 15 lb Size 5"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations Open hole

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

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

Pumping water level 1875 feet at 3450 BW/Mo. gal. per min.

How tested: Tank Test

Length of test

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

Produced water to be used for water flooding. At present well is producing oil and water.

(over)

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 STATE ENGINEER

T. 15N R. 29E
 County Petroleum
 Harlan Lease, Well #7

MONTANA BUREAU OF MINES AND GEOLOGY
 Butte, Montana

WATER WELL LOG

	X		

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

Driller..... Address.....

Date Started 11-3-24 Date Completed 11-15-24

Location: Sec 10 T 15N R 29E ¼ sec. SE NW

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

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other: Water flooding

Casing: Surface ft. to 1267 ft. Type 20 lb Size 6 5/8"

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

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

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

Type of screen or perforations Open hole

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

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

Pumping water level 1267 feet at 2 BW/No. gal. per min.....

How tested: Tank test

Length of test.....

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

Produced water to be used for water flooding. At present well is producing oil and water.

(over)

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STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. 15N R. 29E

County Petroleum

Harlan Lease, Well #6

WATER WELL LOG

x			

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

Driller Address

Date Started 11-13-22 Date Completed 11-30-22

Location: Sec. 10 T. 15N R. 29E 1/4 sec. SW NW

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other: Water flooding

Casing: Surface ft. to 1421 ft. Type 20 lb Size 6 5/8"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations Open hole

Static Water level, for non-flowing well: feet

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

Pumping water level 1421 feet at 120 BW/Mo. gal. per min.

How tested: Tank test

Length of test:

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

Produced water to be used for water flooding. At present well is producing oil and water.

(over)

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 STATE ENGINEER

T. 15N R. 29E
 County Petroleum
 Harlan Lease, Well #5

MONTANA BUREAU OF MINES AND GEOLOGY
 Butte, Montana

WATER WELL LOG

X			

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

Driller _____ Address _____

Date Started 5-23-23 Date Completed 6-13-23

Location: Sec. 10 T. 15N R. 29E ¼ sec. SW NW

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

Water use: Domestic Municipal Stock Irrigation
 Industrial Drainage Other: Water flooding

Casing: Surface ft. to 1258 ft. Type 2 1/2 lb Size 8 1/4"

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

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

Perforated or Screened: Ft. _____ to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations Open hole

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

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

Pumping water level 1258 feet at 100 BW/Mo. gal. per min.

How tested: Tank Test

Length of test _____

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

Produced water to be used for water flooding. At present well is producing oil and water.

(over)

RECEIVED
 AUG 5 1957
 STATE ENGINEER

T. 15N R. 29E
 County Petroleum
 Harlan Lease, Well #2

MONTANA BUREAU OF MINES AND GEOLOGY
 Butte, Montana

WATER WELL LOG

X			

Owner Continental Oil Co. Address Box 878, Powell, Wyoming
 Driller..... Address.....
 Date Started 10-27-21 Date Completed 11-12-21
 Location: Sec. 10 T. 15N R. 29E ¼ sec. SW NW

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

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other: Water flooding

Casing: surface ft. to 1393 ft. Type 28 lb Size 8 1/4"

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

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

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

Type of screen or perforations Open hole

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

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

Pumping water level 1300 feet at 30 BW/Mo. gal. per min.

How tested: Tank test

Length of test.....

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
Produced water to be used for water flooding. At present well is producing oil and water.

(over)

RECEIVED
AUG 30 1957

STATE ENGINEER

T. 15N R. 29E

County Petroleum

Oldham Lease, Well #17

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

	X		

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

Driller Address

Date Started 10-18-24 Date Completed 11-13-24

Location: Sec. 10 T. 15N R. 29E ¼ sec. NE SW

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

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other: Water flooding

Casing: Surface ft. to 1289 ft. Type 20 lb Size 6 5/8"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations Open hole

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

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

Pumping water level 1289 feet at 13 BW/Mo. gal. per min.

How tested: Tank Test

Length of test:

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

Produced water to be used for water flooding. At present well is producing oil and water.

(over)

RECEIVED
AUG 30 1957

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T 15N R 29E

County Petroleum
Oldham Lease, Well #16

STATE ENGINEER

WATER WELL LOG

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

Driller Address

Date Started 9-30-24 Date Completed 10-14-24

Location: Sec. 10 T. 15N R. 29E 1/4 sec. NE SW

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other: Water flooding

Casing: Surface ft. to 1270 ft. Type 20 lb Size 6 5/8"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations Open hole

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

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

Pumping water level 1270 feet at 27 BW/Mo. gal. per min.

How tested: Tank test

Length of test

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

Produced water to be used in water flooding. At present well is used to produce oil and water.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	250	Shale
250	255	Mosby Sand - dry
255	1160	Shale
1160	1170	Sandy shale
1170	1176	Sandy shale, hard
1176	1266	Sandy r'
1266	1305	1st oil
1305	1310	Sand, fine, light, hard
1310		Sand mixed with white soft shale
		<small>STATE OF MISSISSIPPI</small> <small>County of Harrison,</small> <small>ss. Clerk</small> Filed Aug 28 1957 9:00 W. M.
		Toleno H. Newton County Recorder.
		Date

Continued on 40 u.R.m.

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AUG 30 1957

T. 15N R. 29E
County Petroleum
Oldham Lease, Well #7

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

X			

Owner Continental Oil Co. Address Box 878, Powell, Wyoming
Driller Address
Date Started 4-21-53 Date Completed 5-25-53
Location: Sec. 10 T. 15N R. 29E 1/4 sec. SW SW

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other: Water flooding

Casing: Surface ft. to 1290 ft. Type 28 lb Size 8 1/4"
Casing: ft. to ft. Type Size
Casing: ft. to ft. Type Size

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

Type of screen or perforations Open hole

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

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

Pumping water level 1290 feet at 25 BW/Mo. gal. per min.

How tested: Tank test

Length of test

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

Produced water to be used in water flooding. At present well is used to produce oil and water.

(over)

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AUG 30 1957

T. 15N R. 29E

County Petroleum
Oldham Lease, Well #5

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

x		

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

Driller Address

Date Started 6-27-22 Date Completed 7-30-22

Location: Sec. 10 T. 15N R. 29E 1/4 sec. NE SW

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

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other: Water flooding

Casing: Surface ft. to 1451 ft. Type 20 lb Size 6 5/8"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations Open hole

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

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

Pumping water level 1451 feet at 2700 BW/Mo. gal. per min.

How tested: Tank test

Length of test:

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

Produced water to be used in water flooding. At present well is used to produce oil and water.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	215	Shale
215	223	Mosby Sand
223	440	Gray shale
440	515	Blue shale
515	530	Gray shale
530	570	Blue shale
570	600	Black shale
600	642	Blue shale
642	650	Dark shale
650	680	Gray shale
680	750	Blue shale
750	785	Gray shale
785	1235	Blue shale
1235	1278	Gray shale
1278	1318	Oil sand
1318	1360	Sandy shale
1360	1380	Broken shale
1380	1445	Red shale
1445	1450	Gray sand shale
1450	1461	Oil sand

STATE OF MONTANA, ss.
 County of Petroleum
 Filed Aug 28 1957
9:00 a.m.
 at
Leona R. Merton
 County Recorder.
 Deputy.

*Continental Oil Co. 42
D.P.M.*

RECEIVED
AUG 30 1957

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. 15N R. 29E

County Petroleum
Great Western Lease Well #4

WATER WELL LOG

X			

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

Driller Address

Date Started 6-27-22 Date Completed Unknown

Location: Sec. 10 T. 15N R. 29E 1/4 sec. SE SW

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other:

Casing: Surface ft. to 1290 ft. Type 28# Size 8 1/4"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations Open hole

Static Water level, for non-flowing well: feet

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

Pumping water level 1290 feet at 78 BW/Mo. gal. per min.

How tested:

Length of test:

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

Produced water to be used for water flooding. At present well is producing oil and water.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	240	Shale
240	245	Mosby Sand
245	1280	Shale
1280	1290	Sandy Shale
1290	1355	First Sand
1355	1385	Gray Shale
1385	1405	Sand
1405	1417	Gray Shale
1417	1422	Sand
1422	1452	Red Shale
1452	1464	Blue Shale
1464	1470	White Shale
1470	1496	Mottled Shale
1496	1502	Gray Shale
1502	1510	Sand

ST. JOHN OF MONTANA,
 County of Petroleum
 Filed July 28 1954
 at 9:30 o'clock A.M.
W. B. N. Jenkins
 County Recorder.
 Deputy.

Continued on p. 26
 1/2/54

RECEIVED
AUG 20 1917
STATE ENGINEER

T. 15N R. 29E
County Petroleum
B. R. Benson Lease Well #2

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

	X	

Owner Continental Oil Co. Address Box 878, Powell, Wyo.
Driller Address
Date Started Unknown Date Completed 5-12-21
Location: Sec. 10 T. 15N R. 29E ¼ sec. NW SE

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other:

Casing: Surface ft. to 1336 ft. Type 2 3/4" Size 8 1/4"
Casing: ft. to ft. Type Size
Casing: ft. to ft. Type Size

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

Type of screen or perforations Open hole

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

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

Pumping water level 1336 feet at 132 BW/Mc. gal. per min.

How tested: Tank Test

Length of test

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
Water to be used for water flooding. At present well is producing oil and water.

(over)

Continental Oil Co.

$\frac{4}{\text{U. P. M.}}$

STATE OF MONTANA,
County of Petroleum.

Filed Aug 28 19 57

at 9:00 o'clock A. M.

Welma R. Weston
County Recorder.

Deputy.

T. 15N R. 29E

RECEIVED
AUG 30 1957

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

County Petroleum
B. R. Benson Lease Well #1

STATE ENGINEER

WATER WELL LOG

	X		

Owner Continental Oil Co. Address Box 878, Powell, Wyo.
 Driller _____ Address _____
 Date Started Unknown Date Completed Early 1921
 Location: Sec. 10 T. 15N R. 29E ¼ sec. NW SE

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

Water use: Domestic Municipal Stock Irrigation
 Industrial Drainage Other: Water Flooding

Casing: Surface ft. to 1315 ft. Type " Size 10"

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

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

Perforated or Screened: Ft. _____ to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations Open hole

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

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

Pumping water level 1315 feet at 100 BW/No. gal. per min.

How tested: Tank Test

Length of test: _____

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
Water to be used for water flooding. At present well is producing oil and water.

(over)

RECEIVED
AUG 30 1957

T 15N R 29E
County Petroleum
Montana-Superior Lease Well #2

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

	X	

Owner Continental Oil Co. Address Box 876, Powell, Wyo.

Driller Address

Date Started Unknown Date Completed 6-20-21

Location: Sec. 10 T. 15N R. 29E ¼ sec. SW SE

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

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other: Water Flooding

Casing: Surface ft. to 1380 ft. Type 2 1/2" Size 8 1/4"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screener: Ft. to ft. Ft. to ft.

Type of screen or perforations Open hole

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

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

Pumping water level 1380 feet at 55 BW/No. gal. per min.

How tested: Tank Test

Length of test:

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

Produced water to be used in water flooding. At present well is used to produce oil and water.



(over)

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AUG 30 1957

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. 15N R. 29E

County Petroleum

Harlan Lease Well #13

WATER WELL LOG

x			

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

Driller Address

Date Started 6-14-47 Date Completed 6-26-47

Location: Sec. 10 T. 15N R. 29E 1/4 sec. SW NW

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

Water use: Domestic [] Municipal [] Stock [] Irrigation []

Industrial [x] Drainage [] Other:

Casing: Surface ft. to 1710 ft. Type Size

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations Open hole

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

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

Pumping water level 1710 feet at 3689 Bw/ho. gal. per min.

How tested: Tank Test

Length of test:

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

At present the well is used to produce oil and water.

(over)

GV

File No. 260

T. 15N R. 29E

DUPLICATE

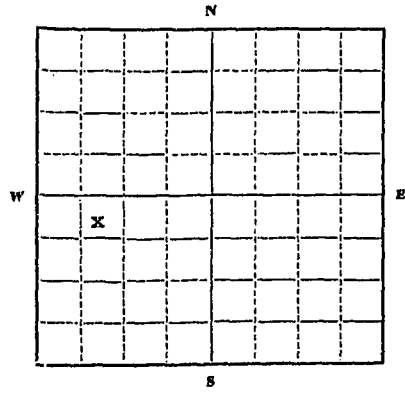
County Petroleum

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

R
JAN 3 1964
STATE ENGINEER

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

1. Continental Oil Company, of Box 2548, 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 SW Sec. 10 T.15N R.29E
Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.
Unit Area #2, Well #24

- 2. The beneficial use on which the claim is based Waterflood
Water supply well.
- 3. Date or approximate date of earliest beneficial use; and how con-
tinuous the use has been November 13, 1963
Continuous use.
- 4. The amount of groundwater claimed (in miner's inches or gallons
per minute) 2460 B/D. or 72 Gal/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
Reds. submersible pump

- 7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater Drilled July 8, 1947. Completed July 21, 1947. Recompleted
October 28, 1963 as water well.
- 8. The depth of water table Top 3rd Cat Creek Sand @ 1551' ground level.
- 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 T.D. 1917', Plug-back depth 1725',
Casing 5 1/2", 17 and 20# set @ 1879' with 250 sacks cement.
- 10. The estimated amount of groundwater withdrawn each year 875,760 Bbls./year.
- 11. The log of formations encountered in the drilling of each well if available 1st C. C. 1181',
2nd C. C. 1405', 3rd C. C. 1551', Morrison 1744', Ellis 1878'.
- 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 J. C. Blakburn
Date December 31, 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.

58425

20925

22422

1260

STATE OF MONTANA,
County of Petroleum, } ss.

Filed DEC 31 1963

19

at 3:35 o'clock P. M.

Donny J. Engel
Deputy

J. H.

Deputy

10

File No.....

T. 15N R. 29E

DUPLICATE

County Petroleum

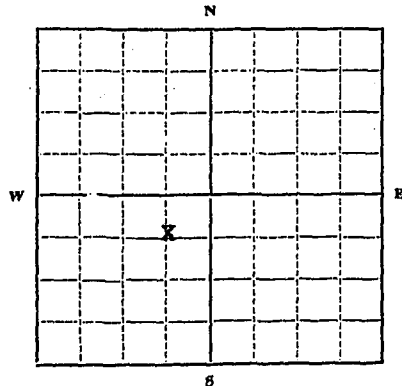
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUL 18 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Continental Oil Company, of Bank Electric Bldg. Lewistown
(Name of Appropriator) (Address) (Town)
County of Fergus State of Montana
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 on use in Cat Creek Waterflood

3. Date or approximate date of earliest beneficial use; and how continuous the use has been November, 1959 - continuous since

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 96 gal./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

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

NE 1/4 SW Sec. 10 T15N R29E

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

Unit Area #2 Well #32

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commenced 9-4-59, completed 9-12-59

8. The depth of water table Third Cat Creek Sand 1598 to 1711'

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 Casing 8 5/8", 24", J-55 set at 1604' to surface with 430 sacks cement. Open hole 1604' to T.D. at 1718'

10. The estimated amount of groundwater withdrawn each year 1,204,500 bbl/year

11. The log of formations encountered in the drilling of each well if available 1st Cat Creek 1239'-1334' 2nd Cat Creek 1452'-1511' 3rd Cat Creek 1598'-1711'

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

CONTINENTAL OIL COMPANY

Signature of Owner K.W. McDaniel Acting District Superintendent

Date July 15, 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.

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